RESOLUTION No. 55 OF 22 JUNE 2020

Changed the text in "Art. 12 of Resolution No. 40, May 4, 2020"

From this

Art. 12 Are hereby changed the Ex-tariff No 018 of the Mercosur Common Nomenclature code 8415.82.90 and 9022.14.19 No. 025 of the code of the Mercosur Common Nomenclature, contained in Resolution No. 14 of February 19, 2020, the Executive Committee of the Foreign Trade Chamber Management, which will become effective with the following wording:

NCM	Description
8415.82.90	Example 018 - stationary units preconditioning air (PCA) used as support air systems conditioned
	aircraft, Category C, soil, ice-water flow required by at least 14m3 / h nominal air flow of 1 kg / s
	minimum temperature output -2 degrees Celsius, with two stages of filtration, the control panel
	screen with "touchscreen", with or without mobile and articulated system for distributing air.
9022.14.19	Example 025 - Mobile Devices for imaging by X-ray surgical procedures called surgical arches
	specific to fluoroscopic examinations, provided with arm "C" with electromagnetic brakes with
	manual orbital motions of the arc of at least + / -100 degrees, the minimum angle manual +/- 225
	degrees and the minimum immersion depth of 73 cm rectangular collimator system with diaphragm
	and plug, pulsed fluoroscopy minimum rate 0,5f / s maximum 30f / s with a maximum current of 119
	mA for standard output power of 12 kW or current maximum 250 mA of output power of 25 kW
	generator X-ray tube at least in the range of 40 to 125kV, digital sensor CMOS level (
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To this

Art. 12. It changed the Ex-tariff No. 018 8415.82.90 code of the Mercosur Common Nomenclature, contained in Resolution No. 14 of February 19, 2020, the Executive Committee of the Foreign Trade Chamber Management, which shall effective with the following wording:

NCM	Description
8415.82.90	Example 018 - stationary units preconditioning air (PCA) used as support air systems conditioned aircraft, Category C, soil, ice-water flow required by at least 14m³ / h nominal air flow of 1 kg / s minimum temperature output -2 degrees Celsius, with two stages of filtration, the control panel screen with "touchscreen", with or without mobile and articulated system for distributing air.

Revoked the following items according to the respective regulation

NCM	Nº EX	Description	Regulation
8460.31.00	158	Machine tools for producing and / or regrind rotary cutting tools of hard metal (HM), high speed steel (HSS) or polycrystalline diamond (PCD) with a maximum diameter of 400 mm by means of abrasive wheels and / or rotating electrode with linear precision 0,0001mm with 5 or more axes with numerical control (CNC), with courses x, Y and Z equal to or less than 650 x 350 x 720mm, with axis (C) of rotation table angular turning +/- 200 degrees and axis (a) of the main head with infinite degree, with or without automatic charging system and	Resolution No. 51 of July 5, 2017, the Foreign Trade Chamber
8422.30.29	390	Machines for recravar aluminum lids for beverage cans with a capacity exceeding 1,000 cans / min for aluminum cans with a height ranging from 28 to 250mm; with motorized height adjustment system with digital display; diameter 50 to 73mm; with 8 or more seaming stations with seaming cam desacoplável; step chain comprised of 92 to 104,8mm; controlled by Programmable Logic Controller (PLC); with automatic lubrication oil, including tooling seaming.	Resolution No. 69 of August 21, 2017, the Foreign Trade Chamber
8429.51.99	26	Wheel loaders, articulated in bucket capacity between 1.6 and 1.7m³, static load and tipping 5.403kg 8.467kg operating weight, gross nominal power of 74kW, 4.4-liter engine of 2,220 cc and 2.350rpm.	Resolution No. 90 of December 13, 2017, the Foreign Trade Chamber
8451.80.00	73	Combinations of machines for drying and fixation of tissues by heat treatment, horizontally, and thermoplastic mesh fabrics, with automatic control, with working width of 3.400mm or less, consisting of: chamber heated by thermal oil or gas burners, each chamber with a length of 3 meters, can hold 6 or more fields provided with: internal fans that circulate hot air (zigzag); input feed rollers; coolers cylinders in tissue output; weft straightener and panel "touch screen".	Resolution No. 90 of December 13, 2017, the Foreign Trade Chamber

0440 00 40	05.4	Initials are and materials are set 12 to 1	Decelution No. 45 (51 00
8443.39.10	254	high-speed printing machines, industrial type with jet piezoelectric ink drop on demand technology (drop on demand), for printing uncoated paper, inkjet treated, matte inkjet and paper coated silk, with weights between 52 and 160 g / m2, fed by paper rolls with a width between 203 and 510mm, able to print in color or monochrome, double-sided, single-device or duplex with double device, printing speed up to 168m / min for color and 200m / min for monochrome variable resolution of 360 x 600 dpi to 1200 x 600dpi and high quality mode (VHQ "Very High quality") for monochrome printing, variable size ink droplet from 3 to 13 picoliters, drying by infrared (IR) using water-based ink, dye or nigment HD ("High Density")	2018, the Foreign Trade Chamber
8439.99.90	28	Rules ceramics with angle control device and / or height composed of steel bar, shaft and devices, and steel for the perfect operation involved the synthetic fabric (bag type) and the command which can be manually operated by means of lever or automatically (electro motor), for use exclusively in the manufacturing process of	Resolution No. 23 of March 27, 2018, the Foreign Trade Chamber
8483.40.10	148	Multiplying wind turbine spins 60Hz frequency power within 3.630kW, n1 input speed (1 / min) from 11.5 to 16.0 ISO VG 320 oil capacity between 440 and 600L oil net weight between 19,600 and 25.000kg.	Ordinance No. 220 of February 25, 2019, the Special Secretariat for Foreign Trade and International Affairs of the Ministry of Economy
8464.20.10	14	Machines for beveling glass and machine for bevelling (machining) edge, rectilinear type (straight) with working glass cold, has 9 zones with front desk with height adjustment for the production of small pieces (from 25 x 25mm) with minimum thickness of 3mm and a maximum of up to 19mm, with a minimum size equal to 25 x 25mm, with a speed of 0.6 to 6.0m / min at 6 bar operating pressure, with power supply 380Vac - 60Hz, with beveled angle of 3 to 45 degrees, allowing perform beveled with a maximum width of 40mm, with an automatic pneumatic drive of the felt wheels and programmable logic controller (PLC) with touch screen (touch screen) which displays thickness control glass, width and angle of the beveled, drag speed, meters and wear of wheels produced.	12, 2019, the Special Secretariat for Foreign Trade and International Affairs of the Ministry of Economy
8422.40.90	853	Machine combinations for automatic bags "pellets" pallet with a maximum output capacity of 400sacos / h composed of: 1 flattener device sacks, 1 palletizer modular construction for palletizing maximum weight bags 5 to 50 kg up to 16 layers, equipped with belt conveyors and rollers and bar rotating device pusher bags, deposit table, clamping device aligner and device back to cart lift, one empty pallet transport system provided with pusher pallet by double sliding plate and short rollers tab pallet magazine, and optical collision protection bar, one set of discharge roller conveyors, electrical control with programmable logic controller	Resolution No 2 of 22 October 2019, the Executive Committee of Foreign Trade Chamber Management
8414.80.19	133	Centrifugal compressors for air, with paid-up gearbox, 4 stages, consisting lubrication system input filter, relief valve "blow-off", muffler, cooling system with heat exchangers shell-and-tube type, containing water in tubes and air in the hull, high speed bearings hydrodynamic type floating inserts "pad tilting" capacity control system "guide vane" labyrinth sealing system with three-dimensional impellers, single base (skid) for mounting pressure 10,4bar to operation (a) and air flow 40.000Nm3 / h (1 bar (a) 0 degrees Celsius and 0% RH), the input conditions 0,907bar (a) atmospheric pressure in the filter inlet suction for suction temperatures ranging from -1 to 35 degrees Celsius with only a basis for assembly	Resolution No. 14 of November 19, 2019, the Executive Committee of Foreign Trade Chamber Management

9022.14.19	25		Resolution No. 14 of November 19, 2019, the Executive Committee of
		fluoroscopic examinations, provided with	Foreign Trade Chamber
		arm "c" with electromagnetic brakes with	Management
		manual orbital motions of the arc of at least	
		+/- 100 Degrees , minimum the manual +/- 225 degrees angle and depth of immersion	
		of at least 73cm, rectangular collimator	
		system with diaphragm and plug, pulsed	
		fluoroscopy rate of at least 30f / s, at least	
		119mA current, generator X-rays at least in	
		the range of 40 to 125kV, digital CMOS level (semiconductor complementary metal oxide)	
		based on indirect conversion technology	
		detector with a rotating anode tube of a	
		double focus default output power 25kW and	
		optional 12kW, Thumbwheel switch with spiral cable 3m, pedal release pattern for	
		radiation with 5m cable and optional	
		multifunctional pedal wired or wireless,	
		control panels available on the touch	
		sensitive chassis the arm "c" on the monitor of the car, and the optional remote control	
		unit, integrated computer with input and	
		output data units, stand with 19-inch	
0504 11		monitors, and minimum in storage capacity	
8504.40.90	22	Inverters for photovoltaic energy systems	Resolution No. 30 of December 30,
		(solar), mono or two-phase connected to the network "on-grid", performing DC conversion	2019, the Executive Committee for the Management of Chamber of
		into alternating current in the power range	Commerce Exterio
		from 3,000 to 8.200W and management of	
		energy delivered to the grid, working with	
		tension maximum operating in 1.000Vcc DC and starting voltage of 80Vcc, equipped	
		with: 2 followers of maximum power point	
		(SPMP) controlling up to 2 "strings" input	
		each, with the inverter scaling factor	
		(overload) of 150% active cooling system (cooler by forced ventilation), IP65, "display"	
		LCD operating temperature -25 to 55	
		degrees Celsius, current disconnector	
		integrated continuous, integrated Wi-Fi communication interface API and Modbus	
		communication protocol (TCP or RTU),	
		digital inputs and outputs (IOs) to	
		configurable power management, rated	
		output voltage in AC 220Vac, frequency of 50 / 60Hz, power factor adjustably (0.85	
		inductive or capacitive 1) in accordance with	
		IEC 62109-1 / 2, IEC 62116, 16149 and	
8421.39.90	96	Filters fully automatic galvanized steel panels with paint treatment compared to	Resolution No. 11 of January 30, 2020, the Executive Committee of
		saline corrosion air cleaning sleeves 189	Foreign Trade Chamber
		fitted with self-cleaning air long, continuous,	Management
		controlled by a programmable logic	
		controller (PLC) equipped with 44,5kW engine 1, with a total capacity 24.500m³ air /	
		h with a maximum emission of 15 mg / Nm ³ ,	
		with filter surface 312m² with certified non-	
		return valves with adjustable against	
		explosion automatic cycle control with self cleaning control device with frequency	
		device reversal of the air, blast door system	
		compared with closed loop system powder	
		expulsion, suction-assisted system against	
		fire system with permanent perimeter barrier	
8426.99.00	6	freight cars with the possibility of loading	Resolution No. 14 of February 19,
		from both sides without turning the load in its axis with 55t capacity, longitudinal	2020, the Executive Committee of Foreign Trade Chamber
		movement of 9m and transverse 40m for	Management
		loading and unloading the homogenization	
		furnace and the cooling chamber, with	
		sensors positioning, with its respective electrical panel and programmable logic	
8/1// 90 00	24		Pacolution No. 40 of May 4, 2020
8414.80.90	21	Recompressores mechanical vapor MRV (mechanical vapor recompression) for	Resolution No. 40 of May 4, 2020, the Executive Committee of Foreign
		evaporating units, multiple or single stages,	Trade Chamber Management
		driven by pressurized oil damped bearing	_
		with flows up 350.000Nkg / h until 5MW	
		engine capacity, temperature rise up to 10 Kelvin in a single stage speed up to 320m /	
		s, working pressures of 0.05 to 5bar	
		containing water injection system sealing	
		unit seals with floating labyrinth ring carbon	
		equipped with security mounted control instruments on the sole basis for control of	
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		temperature, vibration level, flow and oil	

8414.80.90	22	Recompressores mechanical vapor MRV (mechanical vapor Rcompression) for evaporating units with multiple or single stages flows up 350.000Nkg / h temperature rise up to 10 Kelvin in a single stage, provided with: damping system with hydrodynamic bearings, engines of up to 5 MW, operating at speeds up to 320m / 0.05 working pressures 5bar containing water injection system sealing unit seals with floating labyrinth ring carbon equipped with safety instrumentation for control of temperature, vibration level, flow and oil pressure and level of condensate in the housing without motor and without	Resolution No. 40 of May 4, 2020, the Executive Committee of Foreign Trade Chamber Management
8422.30.29	503	Bags multilayer plastic storage pig Animal semen with dimension 256 x 60mm (unitary) with bacteriostatic treatment with a protected tip (enveloped), presented in roll form for specific use in automatic packaging equipment for animal breeding laboratory.	Resolution No. 40 of May 4, 2020, the Executive Committee of Foreign Trade Chamber Management

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8434.20.90	26	40kW, designed to produce butter from cream, with 3 modules being built agitation section stainless steel with agitation unit thermal friction and multiflexo cylinder with double jacket for water circulation tube made of stainless steel with serum separation unit with self-purifying device and serum separating unit, vacuum section which is obtained by a vacuum pump or central	
8477.10.21	63	hydraulic, plastic injection molding machines, hybrid, with maximum force 29.419kN mold clamping, the opening force 2.353kN mold closing speed of the mold least 2m / min and a maximum of 45m / min, the minimum opening speed of the mold 2 m / min and a maximum of 45m / min, size 2,550 x 2,500 plate (H x V), space between bars 2050 x 1900 (H x V), the maximum displacement of the fastener 3.200mm, and mold height mínimo1.000 maximum 1,900mm, hydraulic ejector force 490kN mold displacement 400mm, feed rate 4.7m / mim, retraction speed 7,7m / i, max mold size 2,500 x 1,650 (H1 x V1), 1.290 clamping tonnage x1.290 (h2xV2), weight 45t of the mold, injection volume 13.200cm3, injeção177MPA maximum pressure, injection speed 76 mm / s injection rate 1.350cm3 / s, power injeção239kW, screw diameter 150 mm, displacement of parafuso750mm screw speed 55rpm minimum and maximum 110rpm, 30mm away from the nozzle, the nozzle touch force 59kN, 440V power supply, 60Hz, with PLC	Resolution No. 40 of May 4, 2020, the Executive Committee of Foreign Trade Chamber Management
8428.90.90	594	hydraulic, plastic injection molding machines, hybrids, with maximum force mold clamping 29.419Kn, molde2.353kn the opening force, the closing speed of the mold least 2m / min and a maximum of 45m / min, the minimum opening speed of the mold 2 m / min and a maximum of 45m / min, board size 2550 x 2500 (H x V), space between bars 2050 x 1900 (H x V), the maximum displacement of the fastener 3200mm, minimum mold height 1,000 and most 1,900 mm, hydraulic ejector mold under 490 kN displacement 400mm, feed rate 4.7m / mim, retraction speed 7,7m / i, max mold size 2,500 x 1,890 (H1X V1) and clamping tonnage 1.290 x 1.290 (h2 x V2), the mold weight 45 tons, injection volume 13.200cm3, injeção177MPA maximum pressure, injection speed 76 mm / sec, injection rate 1.350cm3 / s power 239kW injection screw diameter 150mm, displacement screw speed of 750 mm screw minimum and maximum 55rpm 110rpm, 30mm away from the nozzle, strength Touch the nozzle 59kN, 440V power supply, 60Hz, with PLC and	Resolution No. 40 of May 4, 2020, the Executive Committee of Foreign Trade Chamber Management
8441.10.90	107	rotating horizontal automatic cutting machines for cutting fabricated self-adhesive labels in paper or polypropylene film, polyethylene and other materials, pre-printed or unprinted, with maximum speeds of up to 250m / min, for working rolls with a width of 150 to 510mm, provided with: motorized unwinding drive for coils with a diameter up to 1.000mm, with electric lift coils, tension control system, adjustable for amending the table of materials, liner system, inflatable shaft for coils with cores and coils 152mm passing the material being processed; 2 motorized drive units comprising vacuum roll and roll with rubbony surface.	Trade Chamber Management

8454.30.10	86	leak under pressure machines with up to 23T clamping force with hot chamber 18kg storage capacity of molten metal with 4 cross hydraulic movements, with computer control panel for mold 101.6 x 101 6mm.	Resolution No. 49 of May 19, 2020, the Executive Committee of Foreign Trade Chamber Management		
Included in	the item	s according to the respective regulation			
NCM 8460.31.00	№ EX 185	Description Machine tools for producing and / or regrind rotary cutting tools of hard metal (HM), high speed steel (HSS) or polycrystalline	Regulation Resolution No. 51 of July 5, 2017, the Foreign Trade Chamber	Tax 0	Deadline 31/12/2021
		diamond (PCD), with maximum diameter equal to or less than 400 mm by means of abrasive wheels and / or electrode rotary precision linear 0,0001mm with 5 or more axes with numerical control (CNC), with courses x, Y and Z equal to or less than 650 x 350 x 720mm, with axis (C) of the rotation table with turning angle of +/- 200 degrees and axis (a) of the main head with infinite degree, with or without load system and			
8422.30.29	511	Machines for recravar aluminum lids for beverage cans with a capacity exceeding 750latas / min for aluminum cans with height ranging from 28 to 250mm; with motorized height adjustment system with digital display; diameter 50 to 73mm; with 8 or more seaming stations with seaming cam desacoplável; step chain comprised of 92 to 104,8mm; controlled by Programmable Logic Controller (PLC); with automatic lubrication oil, including tooling seaming.	Resolution No. 69 of August 21, 2017, the Foreign Trade Chamber	0	31/12/2021
8443.39.10	349	high-speed printing machines, industrial type, with inkjet demand drop of piezoelectric technology (drop on demand), for printing coated papers or not, inkjet treated, matte inkjet and paper silk coated with weights between 52 and 160 g / m2, fed by paper rolls with a width of 203mm and 510mm, able to print in color or monochrome, duplex with single device or duplex with double device, print speed of up to 168 m / min for color and / or 200 m / min for monochrome variable resolution of 360 x 600 to 1200x 600 dpi and high quality mode (VHQ - "Very High quality") for monochrome printing or not, variable size ink droplet from 3 and 13 picoliters drying, infrared (IR) using water-based ink, dye or pigment HD ("High Density") or HF (high fusion)		0	31/12/2021
8439.99.90	48	Rules ceramics with angle control device and / or height composed of steel bar, shaft and devices, and steel for the perfect operation involved the synthetic fabric (bag type) and the command which can be manually operated by means of lever or automatically (electro engine and / or electric), for use exclusively in the	Resolution No. 23 of March 27, 2018, the Foreign Trade Chamber	0	31/12/2021
8483.40.10	305	Multiplying wind turbine spins 60Hz frequency power within 3.811,5kW, n1 input speed (1 / min) from 11.5 to 16.0 ISO VG 320 oil capacity between 440 and 600L oil weight liquid between 19,600 and 25.000kg.	Ordinance No. 220 of February 25, 2019, the Special Secretariat for Foreign Trade and International Affairs of the Ministry of Economy	0	31/12/2021
8464.90.19	197	Machines for beveling glass and machine for bevelling (machining) edge, rectilinear type (straight) with working glass cold, has 9 zones with front desk with height adjustment for the production of small pieces (from 25 x 25mm) with minimum thickness of 3mm and a maximum of up to 19mm, with a minimum size equal to 25 x 25mm, with a speed of 0.6 to 6.0m / min at 6 bar operating pressure, with power supply 380Vac - 60Hz, with beveled angle of 3 to 45 degrees, allowing perform beveled with a maximum width of 40mm, with an automatic pneumatic drive of the felt wheels and programmable logic controller (PLC) with touch screen (touch screen) which displays thickness control glass, width and angle of the beveled, drag speed, meters and wear of wheels produced.	12, 2019, the Special Secretariat for Foreign Trade and International Affairs of the Ministry of Economy	0	31/12/2021

palletizing bags "pellets", with a production capacity exceeding 400sacos / h composed of: 1 flattener device sacks, 1 palletizer modular construction for palletizing maximum weight of sacks 5 to 50kg with up to 16 layers, equipped with belt conveyors and rollers and bar rotating device pusher bags, deposit table, clamping device aligner and device back to cart lift, one empty pallet transport system provided with pusher pallet for double sliding plate and short rollers tab pallet magazine, and optical anti-collision protection bar, one set of discharge roller conveyors, electrical control with	31/12/2021
capacity exceeding 400sacos / h composed of: 1 flattener device sacks, 1 palletizer modular construction for palletizing maximum weight of sacks 5 to 50kg with up to 16 layers, equipped with belt conveyors and rollers and bar rotating device pusher bags, deposit table, clamping device aligner and device back to cart lift, one empty pallet transport system provided with pusher pallet for double sliding plate and short rollers tab pallet magazine, and optical anti-collision protection bar, one set of discharge roller conveyors, electrical control with conveyors, electrical control with provided with pusher pallet magazine, and optical anti-collision protection bar, one set of discharge roller conveyors, electrical control with provided with pusher pallet magazine, and optical anti-collision protection bar, one set of discharge roller conveyors, electrical control with pald-up gearbox, 4 stages, consisting lubrication system, with or without input filter, relief valve "blow-off", muffler, cooling system with heat exchangers shell-and-tube type, containing water in the pipes and the air in the hull, high speed bearings type hydrodynamic floating inserts "pad tilting" capacity control system "guide vane" labyrinth sealing system with three-dimensional impellers, single base (skid) for assembling, operating pressure to 10,4bar (a) and air flow 40,000Nm3 / h (1 bar (a) 0 degrees Celsius and 0% R/h), the input conditions 0,907bar (a) at atmospheric pressure suction filter inlet for suction	31/12/2021
of: 1 flattener device sacks, 1 palletizer modular construction for palletizing maximum weight of sacks 5 to 50kg with up to 16 layers, equipped with belt conveyors and rollers and bar rotating device pusher bags, deposit table, clamping device aligner and device back to cart lift, one empty pallet transport system provided with pusher pallet for double sliding plate and short rollers tab pallet magazine, and optical anti-collision protection bar, one set of discharge roller conveyors, electrical control with nor conveyors, electrical control endouse or electrical conveyors, electrical conveyors, electrical conveyors, electrical conveyors, electrical conveyors, electrical	31/12/2021
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pallet magazine, and optical anti-collision protection bar, one set of discharge roller conveyors, electrical control with programmable logic controller (PLC) 8414.80.19 139 Centrifugal compressors for air, with paid-up gearbox, 4 stages, consisting lubrication system, with or without input filter, relief valve "blow-off", muffler, cooling system with heat exchangers shell-and-tube type, containing water in the pipes and the air in the hull, high speed bearings type hydrodynamic floating inserts "pad tilting" capacity control system "guide vane" labyrinth sealing system with three-dimensional impellers, single base (skid) for assembling, operating pressure to 10,4bar (a) and air flow 40.000Nm3 / h (1 bar (a) 0 degrees Celsius and 0% RH), the input conditions 0,907bar (a) at atmospheric pressure suction filter inlet for suction	31/12/2021
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conveyors, electrical control with programmable logic controller (PLC) 8414.80.19 139 Centrifugal compressors for air, with paid-up gearbox, 4 stages, consisting lubrication system, with or without input filter, relief valve "blow-off", muffler, cooling system with heat exchangers shell-and-tube type, containing water in the pipes and the air in the hull, high speed bearings type hydrodynamic floating inserts "pad tilting" capacity control system "guide vane" labyrinth sealing system with three-dimensional impellers, single base (skid) for assembling, operating pressure to 10,4bar (a) and air flow 40.000Nm3 / h (1 bar (a) 0 degrees Celsius and 0% RH), the input conditions 0,907bar (a) at atmospheric pressure suction filter inlet for suction	31/12/2021
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hydrodynamic floating inserts "pad tilting" capacity control system "guide vane" labyrinth sealing system with three- dimensional impellers, single base (skid) for assembling, operating pressure to 10,4bar (a) and air flow 40.000Nm3 / h (1 bar (a) 0 degrees Celsius and 0% RH), the input conditions 0,907bar (a) at atmospheric pressure suction filter inlet for suction	
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conditions 0,907bar (a) at atmospheric pressure suction filter inlet for suction	
pressure suction filter inlet for suction	
I temperatures ranging from -1 to 35 degrees	
Celsius with only a basis for assembly 9022.14.19 29 mobile devices for imaging by X-ray surgical Resolution No. 14 of November 19, 0 3	31/12/2021
9022.14.19 29 mobile devices for imaging by X-ray surgical Resolution No. 14 of November 19, procedures called surgical arches specific to 2019, the Executive Committee of	J 1/ 1/2/20/2
fluoroscopic examinations, provided with Foreign Trade Chamber	
arm "C" with electromagnetic brakes with Management	
manual orbital motions of the arc of at least	
+/- 100 Degrees , minimum angle in manual	
and +/- 225 degrees in the minimum	
immersion depth 73 cm, with a rectangular	
collimator system and docking diaphragm	
minimum rate pulsed fluoroscopy 0,5f / s	
maximum 30f / s, current maximum of 119	
mA for standard output power of 12 kW and	
maximum current 250 mA of output power of 25 kW generator X-ray tube at least in the	
range of 40 to 125kV, CMOS level digital	
detector (oxide semiconductor	
complementary metal) based on indirect	
conversion technology, rotating anode tube	
with double focus, manual override switch	
with spiral cable 3 m pedal radiation pattern	
with release cable 5 m or multifunctional	
pedal with or without f io, touch sensitive	
control panels available on the arm of the	
chassis in "C" and monitor the car, and the	
unit's optional remote control, integrated	
computer with input and output data units, stand with 19-inch monitors, and storage	
capacity of up to 300,000 images on the	
hard drive may contain remote control panel	
	31/12/2021
(solar), mono or two-phase connected to the 2019, the Executive Committee of	, . - , - U - I
network "on-grid", performing DC conversion Foreign Trade Chamber	
into alternating current in the power range Management	
from 3,000 to 8.200W and management of	
energy delivered to the grid, working with	
tension maximum operating in 1.000Vcc DC	
and starting voltage of 80Vcc, equipped	
with: 2 followers of maximum power point	
(SPMP) controlling up to 2 "strings" input	
each, with the inverter scaling factor (overload) of 150% active cooling system	
(cooler by forced ventilation), IP65, "display"	
LCD operating temperature from -40 to 55	
GrausCelsius, disconnector current	
integrated continuous, integrated Wi-Fi	
communication interface API and Modbus	
communication protocol (TCP or RTU),	
digital inputs and outputs (IOs) to	
configurable power management, rated	
output voltage in AC 220Vac, frequency of	
50 / 60Hz, d factor and adjustable power	
(0.85 to 1 capacitive or inductive) in	
accordance with IEC 62109-1 / 2, IEC	
62116, 16149 and NBR NBR 16150.	

8421.39.90	109	Filters fully automatic galvanized steel	Resolution No. 11 of January 30,	0	31/12/2021
0721.00.00	103	panels with depintura treatment compared to		0	01/12/2021
		saline corrosion air cleaning sleeves 189	Foreign Trade Chamber		
		fitted with self-cleaning air long, continuous,	Management		
			Management		
		controlled by a programmable logic			
		controller (PLC) equipped with 44,5kW			
		engine 1, or 3 engines (engines and two			
		22kW motor 1.5kW 1), with a total capacity			
		24.500m³ air / h with a maximum emission of			
		15 mg / Nm³, with filter surface 312m² with			
		non-return valves certified compared with			
		explosion cycle automatic ajustáveldde self			
		regulation with-cleansing control device, with			
		air reversal frequency device, with doors			
		system against explosion with sistemade			
		powder expulsion from fechao circuit with			
		vacuum assisted system comsistema			
		against fire, with permanent perimeter			
		barrier before outbreak with rotary valve.			
8428.90.90	609	freight cars with the possibility of loading	Resolution No. 14 of February 19,	0	31/12/2021
		from both sides without turning the load in its			
		axis with 55t capacity, longitudinal	Foreign Trade Chamber		
		movement of 9m and transverse 40m for	Management		
		loading and unloading the homogenization			
		furnace and the cooling chamber, with			
		sensors positioning, with its respective			
		electrical panel and programmable logic			

8414.80.90	23	Recompressores steam mechanical MVR	Resolution No. 40 of May 4, 2020,	0	31/12/2021
		(mechanical vapor recompression) for evaporating units, multiple or single stages, driven by pressurized oil damped bearing	the Executive Committee of Foreign Trade Chamber Management		
		with flows up 350.000Nkg / h until 5MW engine capacity, temperature rise up to 10			
		Kelvin in a single stage speed up to 320m /			
		s, working pressures of 0.05 to 5bar containing water injection system sealing			
		unit seals with floating labyrinth ring carbon equipped with security mounted control			
		instruments on the sole basis for control of			
		temperature, vibration level, flow and oil pressure and level of condensate in the			
8414.80.90	24	housing without programmable logic	Pagalutian No. 40 of May 4, 2020	0	31/12/2021
0414.00.90	24	Recompressores mechanical vapor MVR (mechanical vapor recompression),	Resolution No. 40 of May 4, 2020, the Executive Committee of Foreign	U	31/12/2021
		evaporation units for multiple or single	Trade Chamber Management		
		stages with flows of up 350.000Nkg / h temperature rise up to 10 Kelvin in a single			
		stage, provided with: damping system with			
		hydrodynamic bearings, engines of up to 5 MW, operating at speeds up to 320m / 0.05			
		working pressures 5bar containing water			
		injection system sealing unit seals with floating labyrinth ring carbon equipped with			
		safety instrumentation for control of			
		temperature, vibration level, flow and oil pressure and level of condensate in the			
8422.90.90	5	Bags multilayer plastic storage pig Animal	Resolution No. 40 of May 4, 2020,	0	31/12/2021
		semen with dimension 256 x 60mm (unitary) with bacteriostatic treatment with a protected	the Executive Committee of Foreign		
		tip (enveloped), presented in roll form for	Trade Chamber Management		
		specific use in automatic packaging equipment for animal breeding laboratory.			
8434.20.90	27	continuous butter making machines with	Resolution No. 40 of May 4, 2020,	0	31/12/2021
		1,500 production capacity up to 6.000kg / h,	the Executive Committee of Foreign		
		power from 40 to 94kW, designed to produce butter from cream, composed of	Trade Chamber Management		
		three modules, with built agitation section			
		stainless steel unit stirring thermal friction and multiflexo cylinder with double jacket for			
		water circulation tube made of stainless			
		steel with serum separation unit with self- purifying device and serum separating unit,			
		vacuum section which is obtained by a			
8477.10.21	64	vacuum pump or centralized vacuum hydraulic, plastic injection molding	Resolution No. 40 of May 4, 2020,	0	31/12/2021
0477.10.21	04	machines, hybrid, with maximum force	the Executive Committee of Foreign	U	31/12/2021
		29.419kN mold clamping, the opening force 2.353kN mold closing speed of the mold	Trade Chamber Management		
		least 2m / min and a maximum of 45m / min,			
		the minimum opening speed of the mold 2 m / min and a maximum of 45m / min, size			
		2,550 x 2,500 plate (H x V), space between			
		bars 2050 x 1900 (H x V), the maximum displacement of the fastener 3.200mm, and			
		mold height mínimo1.000 maximum			
		1,900mm, hydraulic ejector force 490kN			
		mold displacement 400mm, feed rate 4.7m / mim, retraction speed 7,7m / i, max mold			
		size 2,500 x 1,890 (H1 x V1), 1.290			
		clamping tonnage x1.290 (H2xV2), weight 45t of the mold, injection volume 13.200cm ³ ,			
		injeção177MPA maximum pressure,			
		injection speed 76 mm / s injection rate 1.350cm³ / s, power injeção239kW, screw			
		diameter 150 mm, displacement of 750mm			
		screw speed of 55rpm screw minimum and maximum 110rpm, 30mm away from the			
		nozzle, under bicyclic ring o59kN, 440V			
		power supply, 60Hz, with PLC and LCD "touchscreen" with USB. (H2xV2), weight 45t			
		mold, injection volume 13.200cm³, maximum			
		pressure injeção177MPA, injection speed 76 mm / s rate injection 1.350cm³ / s, power			
		injeção239kW, screw diameter 150mm,			
		750mm displacement screw speed of 55rpm	<u> </u>		

8441.10.90	110	Cutting rotating horizontal automatic, cutting fabricated self-adhesive labels in paper or polypropylene film, polyethylene and other materials, pre - printed or unprinted, with maximum speeds of up to 250m / min, for working rolls with a width of 150 to 510mm, provided with: motorized unwinding drive for coils with a diameter up to 1.000mm, with electric lift coils, tension control system, adjustable for amending the table of materials, liner system, inflatable shaft for coils with cores and coils 152mm passing the material being processed; 2 motorized drive unit composed of devácuo and rolling roller with rubberized surface with tension control system of the processing equipment; horizontal motorized rotary cutting unit for use with cutting tools with circumferences between 12 and 30 inches with a tolerance of +/- 0.1 mm cutting speed and continues for 0.2 +/- acceleration and deceleration of the machine, with electronics cutting register control with motorized rewind system chips able to work with diameter up to 800mm; motorized rewind drive, bidirectional, for cops with up to 1.000mm diameter, a lift electric coils with a voltage control system domaterial rewound, inflatable shaft for tubes with 76mm coils and passing the material processing rollers; walkway;	Resolution No. 49 of May 19, 2020, the Executive Committee of Foreign Trade Chamber Management	0	31/12/2021
8454.30.10	87	electrical panels, programmable logical leak under pressure machines with up to 23T clamping force with hot runner storage capacity 181kg molten metal with 4 movements hydraulic pad with computer control panel for mold 101.6 x 101 6mm.	Resolution No. 49 of May 19, 2020, the Executive Committee of Foreign Trade Chamber Management	0	31/12/2021
		solution No. 14 of February 19, 2020"	Domilation.	Tou	Deadline
NCM 7308.20.00		Description composite power transmission towers two	Regulation Resolution No. 14 of February 19,	Tax 0	Deadline 31/12/2021
		ASTM A242 / A529 / A572 / A588 / A606 of 253,5m height, joined by flanges, with yield strengths of 235 to 345Mpa, with maximum stresses end 375 to 470Mpa, which support conductors pressures 121kgf / m² shielded wire pressures 124kgf / m² insulators pressures 233kgf / m², suspensions periods of winds 1.500m, 2.500m extension suspensions weights weights extensions with suspensions of 3.100me deflections			
8408.90.90	Ex 069	Stationary diesel engines, horizontal single-cylinder, 4-stroke, water-cooled, direct injection, with power equal to or greater than 4 HP, but equal to or less than 24HP rotation less than 1.800rpm but not exceeding 2.400rpm and cylinder capacity 0,382L or above but not exceeding 1,132L.		0	31/12/2021
8408.90.90		diesel engines for use in stationary equipment, 4-stroke inline 6-cylinder, turbocharged and after-cooled, with direct fuel injection system can be controlled injection unit and electronic or mechanical sensors with power 154kW ("Standby "@ 60Hz) 1.800rpm in rotation, 7,15L volumetric displacement, compression ratio of 18: 1, emission maximum noise 106dB (a) ("Standby "@ 60Hz) with a tolerance of ± 0,75db (a) developed to meet the emission regulations Tier 2, EU Stage 2, TA-Luft and RoHS 2, fan compounds turbocharger, fuel prefilter closed breather system and flange exhaustion, and may contain radiator front protection drain pump oil decombustível remote filter, preheating equipment air preheat block equipment level sensor coolant, air cleaner, engine belts of protection and control panel kit connection, value Unita River (CIF) not exceeding R \$ Hydraulic cylinders double or single acting spring return, rectilinear motion, steel body, or threaded block, 4 total stroke of 200mm and a maximum pressure of 120 to 500bar; used in fastening devices on machining	Resolution No. 14 of February 19, 2020 Resolution No. 14 of February 19, 2020	0	31/12/2021
				1	

8413.19.00	Ex 009	adhesive application equipment bicomponent columns for stoves and door	Resolution No. 14 of February 19, 2020	0	31/12/2021
		control panel with control of adhesive flow and high precision regarding tolerance (mixture of precision) from 1.5% to suit different sizes of cords thickness 3mm injector and capable of 18 to 42cm in length applications seamlessly with 10s /			
8413.70.10	Ex 039	Motobombas centrifugal permanent magnet brushless electric motor, suction and discharge nozzle 2 inch BSP threaded type for powers of 500 to 900W and suction and discharge nozzle 3 inch BSP threaded type for power 1.200W, AC current continues with maximum flow of 27m³/h, head up to 19mca, used for pool water circulation, together with its drive (driver to aid in pump	Resolution No. 14 of February 19, 2020	0	31/12/2021
8413.70.80	Ex 020	5HP operating pumps with capacity to gradient coils with flow 31L / min at 5.7bar [8.2gpm or the 82.8psi] and power electronics cabinet 94.6L / min at 5.5bar [25gpm or the 80psi], or contain, alternatively or cumulatively, "chip"	Resolution No. 14 of February 19, 2020	0	31/12/2021
8413.81.00		Motobombas multistage centrifugal electric motor of permanent magnet brushless for submerged operation, spout, brass and incorporated check valve, measuring 1 inch BSP type axle and pumping body stainless steel, impeller and diffuser technopolymer, from 8 to 17 stages, coupled with permanent magnet motor oil cooled and lubricated, power of 270 to 750W, three-phase current continues to flow 4,2m³ maximum / h head up to 98mca, used for drinking water supply in deep wells with a 3 inch diameter, together with its drive (Controller to aid in	Resolution No. 14 of February 19, 2020	0	31/12/2021
8413.81.00	Ex 061	Motobombas peripheral permanent magnet brushless electric motor, suction and discharge nipple 1 inch BSP threaded type, wattage of 270 to 540W, three-phase current continues to flow 2,5m³ maximum / h head up to 51mca, used for drinking water circulation, accompanied by your drive (controller to aid in the operation of the	Resolution No. 14 of February 19, 2020	0	31/12/2021
8413.91.90	Ex 048	Telemetry modules for measuring the submerged discharge pressure centrifugal pumps made of 4140 steel alloy, 9Cr-1Mo 410-13Cr or with or without flange engaging the pump discharge with gantry for pressure transmission line lengths from 0.19 to 0,55m external diameter between 3.37 to 11.26 inches and up to 50kg.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8414.30.99	Ex 010	Screw compressors for refrigerants for compression-type HCFCs, HC, HFC with water displacement equal to or greater than 400m³ / h 60Hz, 70Hz can operate even with use of the frequency inverter, the maximum permissible pressure of up to 30bar in the discharge and 20,5bar suction for application in low and medium temperature	Resolution No. 14 of February 19, 2020	0	31/12/2021
8414.59.90		cooling units used for cooling telecommunication and data processing equipment, having up 16microventiladores with higher capacity air flow 84,5CFM, less than 21dBA noise, and availability of the higher static pressure 19mmH2O, single body provided with It may contain cables, seals, connectors, plastic substrate, metal pipe for refrigerant fluid, a metal grid for protection and support for fastening available refrigeration systems with air, water, air or water, commercially referred to	Resolution No. 14 of February 19, 2020	0	31/12/2021
8414.80.39	Ex 005	High pressure helium compressors for "Cold Head" with chilled water inlet 7 to 10L / min and 4 to 28 degrees Celsius and pressurized static gas helium range 1.90 to 2,20MPa (high) and 0.40 to 0,60MPa (low) composed of capsule compressor refrigeration system, ignition system and separating the oil and	2020	0	31/12/2021

0447.00.40	5 000	le	In	•	04/40/0004
8417.80.10		Furnaces tunnel model to natural gas for the ceramics industry, used in the production of sanitary ware, the bifunctional type, suitable for single firing with cycles of 14h and late blight with cycles of 16h 45m with measures long x 1.5m wide x 0, 75m high, with exchange of simple burning mode through "software", without oven stop with operation of the burners in 2 modes, "pulse firing" or excess air, individualized for each control group, with insulation main the burning zone with ceramic fiber, providing intermittent or continuous operation, with a furnace operating temperature 1.220 Degrees Celsius and a maximum temperature of 1,300 degrees Celsius, equipped with logic controller (PLC), fan controlled by a frequency inverter and high engine yield IE3 class, 220V voltage, installed electric power 70kVA installed thermal power 1.400kW.	2020	0	31/12/2021
8417.90.00	Ex 076	steel tubes coated carbon fiber batt and graphite vacuum furnace for heat treatment of precision rotating tools, consisting of graphite components, power conductors, resistance heater and "nozzles" gas.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8418.69.99	Ex 065	cryogenic cooler "Cold Head" 2-stage cryo- refrigeration cycle circuit with continuous closed by high pressure helium gas for use in magnet MRI, with a range of 25 to 45K for the first refrigeration cycle and range from 3 to 4.2K for the second refrigeration cycle, comprising a drive unit, and piston-cylinder assembly condenser, compressor compatible with, and may contain, alternatively or cumulatively "kit" consists of installation gasket, sealing ring, washer and	Resolution No. 14 of February 19, 2020	0	31/12/2021
8419.39.00	Ex 148	Fast drying cabinets instruments, equipment, external structure of stainless steel AISI 304, thermal isolation chamber 50mm thick drying chamber in stainless steel AISI 304 polished with connections that allow forced drying anesthetics instruments, air flow circulation filtered by HEPA H14 with tempered glass double door reversible and configurable HST for opening to the right or the left with a key lock, door open sensors, digital controls with an LED display control panel, drying circuit served by two fans, air drying heating elements 1.500W are 36 connections to anesthesia trachea removable cassettes 6 x 6 and 8 shelves to accommodate 8 DIN baskets with the possibility of up to eight connectors cannulated instruments, the possibility for thermal printer and indirect treatment by UV lamp.	2020	0	31/12/2021
8419.40.20	Ex 006	Systems vacuum lamination oil grinding with a capacity of 200L / hr, standard distillation temperature of the oil up to 160 degrees Celsius, consisting of distillation tower, filtering, circulating pumps, condensers, electric heater, the tank and pump vacuum 1 ½ inch inlet connection 1 inch output connection, electric panel and 440VAC	Resolution No. 14 of February 19, 2020	0	31/12/2021
8419.50.22		tubular heat exchangers, made of graphite, capable of performing heat exchange between fluids with heat exchange area of maximum 1.153,4m² mainly provided with: 979% 100 tubes made of graphite impregnated with phenolic resin reinforced with fiber carbon radial thermal conductivity 60 to 70W / (mK); hull made of stainless steel and carbon steel, with a maximum internal diameter of 80.47 inches; protective gloves against wear, made of ceramic; mirrors made of graphite impregnated with	Resolution No. 14 of February 19, 2020	0	31/12/2021
8419.60.00	Ex 002	Automatic equipment for helium gas liquefaction capacity of 60L / day via closed cryogenic refrigeration circuit, provided with three units compressor screw, three pairs of pressurized hoses of low and high pressure 100 and 300psi respectively, and 3 " Cryocoolers "(head cold), with the refrigerant gas gaseous helium, control panel with PLC and touch control cabinet and general control screen.	Resolution No. 14 of February 19, 2020	0	31/12/2021

9/10 91 00	Ev 102	Electronic coffee machine with volumetric	Posolution No. 14 of Fobruary 10	Ι ο	21/12/2021
8419.81.90	Ex 103	Electronic coffee machine with volumetric dosing, totally made programming on your dashboard, manual switch for semiautomatic distribution, available in versions 1 to 3 groups, structure made of stainless steel and painted steel, light signal of the boiler water level gauge for scale to display the pressure of the boiler and pump, automatic water inlet, 4 coffee programs divided by individual buttons, hot water supply system, 2 steam wands (2 and 3 groups), built-in pump, spray lance, heater cups (groups 2 and 3), LED lighting in working up, 220V single phase voltage, power 2.900W group 1, group 2 and 3 3.700W 5.300W groups steam boiler capacity 5L group 1, group 2 10,5L and 3 groups 17L, WxDxH (mm) 1 group (530 x		0	31/12/2021
		555 x 515), second groups (740 x 555 x 515) and 3 groups (980 x 555 x 515).			
8419.81.90	Ex 104	Fryers with natural gas or LPG for frozen or refrigerated foods, for commercial and industrial purposes, stainless steel manufactured with casters heavy-duty front brake and equipped with 3-6 tanks with a maximum capacity of 50 kg of food per vat, with maximum power cooking in the range of 195,000 to 390.000BTU / h immersion in oil frying process with a capacity of 36L, equipped with oil filtration system through carton filter, which increases the quality of food and prolongs the life of the oil; control system through computerized panel with	Resolution No. 14 of February 19, 2020	0	31/12/2021
		programming the cooking operation			
8419.81.90		automatic furnaces for steam cooking fish, flash-Vac process (exudation set to 100% yield), equipped with cylindrical body in stainless steel AISI-304, measuring 1,900mm 1.912mm inner diameter and outer diameter of approximately 5.540mm in length with load up to 4 baskets AISI 304 stainless steel, measuring 950 x 845 x 896mm containing up to 7.000kg of fish, with an approximate cycle time 1: 50h, maximum temperature of up to 140 degrees Celsius, containing secondary system hydraulic energy lifting platform for loading and unloading, electric pneumatic frame with		0	31/12/2021
8419.89.99	Ex 282	Bioreactor with a volume of 50L for the production of biological medicines of high complexity, for biotechnology processes recombinant animal cell culture, controller "software" embedded, two 50L tanks, weighing system, two peristaltic pumps, flow regulators, sensors pressure, pH and dissolved oxygen sensors, temperature sensors, stirring system, heating systems	Resolution No. 14 of February 19, 2020	0	31/12/2021
8419.89.99	Ex 283	Bioreactors with a volume of 500L, for the manufacture of biological products of high complexity, for biotechnological processes of recombinant animal cell culture, 2 controller with "software" embedded, tank 500L, 4 weighing system, four peristaltic pumps, flow regulators, pressure sensors, pH and dissolved oxygen sensors, pressure sensors, temperature sensors, agitation systems consisting of 2 stirred engines being one upper and one lower heating panel systems and "touchscreen".	Resolution No. 14 of February 19, 2020	0	31/12/2021
8419.89.99	Ex 284	Bioreactors for the production of biological products of high complexity, for biotechnological processes of recombinant animal cell culture: with one or more controllers with "software" embedded with one or more 500L tanks with one or more weighing system, peristaltic pumps, flow regulators, pressure sensors, pH and dissolved oxygen sensors, temperature sensors, systems with stirring second stirring tank engines being one upper and one lower heating panel systems and "touchscreen".		0	31/12/2021

troating food most (mortadella, sausage, sausage, sausage, bacon, ham, etc.), by means of simultaneous operation in a heating section (baking, but air to finish baking, resoluting, driving and bath) and cooling (bath by shower vetal) or for high prossure with and cooling with high prossure could be controlled to cooling with heated by low pressure steam and / or steam high prossure with a maximum temperature of 120 degrees Celsius, or electric heating, oil or gas with a maximum temperature of 160 degrees Celsius, cooling to a maximum temperature of 3 degrees Celsius, and so that of the celsius, and celsius decisius, and celsius decisius, and celsius, and celsius, and celsius, and celsius decisius, and celsius decisius decisius, and celsius, and celsius decisius, and celsius decisius, and celsius, and celsius, and celsius, and celsius decisius, and celsius, and celsius, and celsius decisius, and celsius, and celsius	_					
sausage bazon, ham, etc.), by means of simulations operation in a heating section (basing), hot air to finish basing, coating, semology, dying and bath) and cooling total cooling the cooling fresh air / exhaust air. cooling with least fresh air. and f	8419.89.99	Ex 285	I	Resolution No. 14 of February 19,	0	31/12/2021
ismuture-caus operation in a heating section (backing, hot at for fish backing, costing, anying and bath) and cooling (but to yet shower wister, cooling by air circulation, cost warm, logging and passourcation) house warm, logging and passourcation; but the properties of 210 degrees Colston, or electric heating, oil or gas with a maximum temperature of 100 degrees Colston, configuration of 100 degrees Colston of 100 degrees Colston, configuration of 100 degrees Colston of 1			,	2020		
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los water, fogging and pasteurization) heated by low pressure steam and / or statem high pressure with a maximum temperature of 210 degrees Celars, or electic heating, oil or gas with a maximum temperature of 210 degrees Celars, or electic heating, oil or gas with a maximum to an anximum temperature of 3 degrees Celars, and may be single door provided with single-row for the treatment of 4 to 12 stands, or doubte door "doubte-row" for locament of 0 to 20 cars, with a fair-flow system with 1 ventilization for each basket or engines with two flows frequency convents. I will be supply to the standard of the operation of a race of low risk and high risk opupment and system to internal cleaning of the opupment, typo CIP "Cleaning in place" and may contain operating control panel, the Hilti type (Human interface-Alachina) with screen Touchtercord 12-chin observal announced of a race of the opupment, typo CIP "Cleaning in place" and may contain operating control panel, the Hilti type (Human interface-Alachina) with screen Touchtercord 12-chin observal announced operating control panel, the Hilti type (Human interface-Alachina) with screen Touchtercord 12-chin observal announced operating control panel, the Hilti type (Human interface-Alachina) with screen Touchtercord 12-chin observal announced operating control panel, the Hilti type (Human interface-Alachina) with screen Touchtercord 12-chin observal market appropriate announced the screen of the screen observation of the control operation operation of the control operation operation of the control o			by shower water, cooling by air circulation,			
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of areas of low risk and high risk equipment and system for internal cloaning of the equipment, type CIP "Cleaning in place" and may contain operating control panel, the HMI type (Fluman Interface -Machine) with screen 'louchscreon' 12-inch votorial smoke generator and / or ground with the carrier beam by electrically aduated drive, or subjected conveyor roller conveyor with several place of the stamping digital conveyor roller conveyor with stamping digital conveyor roller conveyor with stamping digital coparating temperature settings, and cylindrical rollers 4 have to dual engine rotation direction (forward and backward) for spolying 330 (200 m maximum width, minimum heating time of 2 minutes, and 30 seconds, automatic shuddown for 95s, lower motor roller of 90-85. working voltage of 1 frequency, maximum perspective (10 x 1 frequency, maximum) emperature (10 x 2 frequency) emperature freatment plants, made of polyvinylidene fluoride (PVDF) with substate material of acryptomitie butadiene styrene (ABS) resistant to 300,000pmm / h of exposure to chloro, nominal inside diameter of 0.9 mm and a nominal fluency divident with 150 units (10 x 2 frequency) from the full work that of the control of 0.3 492 units totaling 2200 mm wide end (membrane resistance (up to 1 20 Degrees Celsius) and abrasion perforated throughout their ease with smaller holes of 1.4 mm in diameter occurs allowing formation of fine air bubbles by air insuffillation in the aeration modules; polyphenesulfone (PES), 7-hole technology, the internal no			1 ~			
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Touchscroen* 12-inch external smoke generator and / or ground with the carrier beam by electrically actuated drive, or suspended conveyor foller conveyor with 18420.10.10						
generator and / or ground with the carrier beam by electrically actuated drive, or suspended conveyor roller conveyor with suspended conveyor roller conveyor with suspended conveyor roller conveyor with a conveyor control of the conveyor with stamping digital; 6 operating temperature settings, and cylindrical rollers 4 have to dual engine rotation direction (forward and backward) for applying 33.02cm maximum width, minimum heating time of 1 minute, a maximum heating time of 2 minutes and 30 seconds, automatic shutdown for 90s, lower motor noise of 60sB, working voltage of 110V and / or 220V power 1.100W, 80Hz frequency, maximum temperature 160°C is approximate dimensions of 49.5cm (L) x. 14.6cm./CV. 2.6cm./CV. 2.6cm./CV. 3.6cm./CV. 3.6cm.			1 * * * *			
beam by electrically actuated drive, or suspended conveyor foliar conveyor with 8420.10.10 Ex 0.13 Stations for metallic effects applications metallized papers 'full' in liser printed papers through the process of 'not stamping' digitals', operating temperature settings, and cylindrical rollers 4 have to dual engine rotation direction (forward and backward) for applying 33.02cm maximum width, minimum heating time of 2 minutes and 30 seconds, automatic shutdown for 90s, lower motor noise of 608, working voltage of 110v and / or 220v power 1,100W. 60Hz frequency, maximum temperature 160 °C is approximate dimensions of 49,5cm (L.) x 1.4,5cm.(J.) x 6.4,5cm.(J.)			1			
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metallized papers froil" in laser printed papers through the process of "hot stamping" digital. 6 operating temperature settings, and cylindrical rollers 4 have to dual engine rotation direction (forward and backward) for applying 30.02cm maximum width, minimum heating time of 1 minute, a maximum width, minimum heating time of 2 minutes and 30 seconds, automatic shrutdown for 90s, lover motor noise of 60db, working voltage of 110V and of 220V power 1.100W, 60Hz frequency, maximum temperature 160 °C is approximate dimensions of 49.5cm (L) x 8421.21.00 Ex 174 hollow fiber membrane modules immersed in scheme intended for water and wastewater treatment plants, made of polyvinylidene fluoride (PVPD) with substrate material of acrylonitrile butadiene styrene (ABS) resistant to 300.000pm / h of exposure to chloro, nominal inside diameter or 0.9 mm and a nominal fiber diameter or 0.9 mm and nominal fiber diameter or 0.0 mm and nominal fiber diameter or		<u> </u>				
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stamping* digital; 6 operating temperature settings, and cylindrical rollers 4 have to dual engine rotation direction (forward and backward) for applying 33.02cm maximum width, minimum heating time of 1 minute, a maximum heating time of 2 minutes and 30 seconds, automatic shutdown for 90s, lower motor noise of 60dB, working voltage of 110V and 7 or 220V power 1,100W, 60Hz frequency, maximum temperature 160 °C is approximate dimensions of 49,5cm (L) x 8421.21.00 Ex 174 hollow fiber membrane modules immersed in scheme intended for water and wastewater treatment plants, made of polyvinylidene fluoride (PVDF) with substrate material of acploritifie butadiene styrene (ABS) resistant to 300.000pm / h of exposure to chloro, nominal poise size of 0.1 micron; effective filtration area of from 10 to 20 m; permeate flux (flow rate) of between 12.5 and 35LMH, filtration with flow from the outside inward, working range iransmembrane pressure (TMP) of 0.05 to 8421.21.00 Ex 175 aeration modules, provided with, 155 units (girds) with 12m long, metallic structural part 2020 or 13,492 units totaling 2200 mm wide end (membrane tubular structure 4); with silicone membranes manufactured with high temperature resistance (up to 120 Degrees Celsius) and abrasion perforated throughout their ease with smaller holes 1.4mm in diameter occurs allowing formation of fine air bubbles by air insuffician into the aeration modules; polypropylene manufactured tubular structure for mounting and packaging of the membranes in the structural part. 1 cross be lacelifa and viruses, with hollow fiber polyethersulfone (PES), 7-hole technology, the internal nominal diameter of 3.6 mm fiber with filtering area of 86m² sense flow filtration from inside to suiside (inside-out), maximum pressure 5bar (72.5psi), operating at a transmembrane pressure (TMP) of loss than 1 bar (14.5psi) and maximum (TMP) 2.5bar (36sps) outer diameter of 10 inch pot, six inch				2020		
settings, and cylindrical rollers 4 have to dual engine rotation direction (forward and backward) for applying 33.02cm maximum width, minimum heating time of 1 minute, a maximum hoating time of 2 minutes and 30 seconds, automatic shutdown for 90s, lower motor noise of 60db, working voltage of 110V and / or 220V power 1.100W, 60Hz frequency, maximum temperature 160 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimensions of 49,5cm (L) x page 1.10 °C is approximate dimension of 49,5cm (L) x page 1.10 °C is approximate dimension of 49,5cm (L) x page 1.10 °C is approximate dimension of 10,5 cm and an ominial fiber diameter of 2.2 mm external fiber nominal pore size of 0.1 microri, effective filtration area of from 10 to 20 m; permeate flux (flow rato) of between 12.5 and 35LMH, filtration area of from 10 to 20 m; permeate flux (flow rato) of between 12.5 and 35LMH, filtration area of from 10 of 3.4s2 units totaling 2200 mm wide end (membrane flux) approximate pressure tube composed of 3.4s2 units totaling 2200 mm wide end (membrane flux) approximate dimension of flux page 1.10 °C is approximate dimension of 10 °C is approximate dimensio			,			
dual engine rotation direction (forward and backward) for applying 30.02cm maximum width, minimum heating time of 1 minute, a maximum heating time of 2 minutes and 30 seconds, automatic shutdown for 90s, lower motor noise of 80dB, working voltage of 110V and / of 220V power 1.100W, 60Hz frequency, maximum temperature 160 ° C is approximate dimensions of 49,5cm (L) x 14.15cm./CN.V.E. 5cm./A.) 8421.21.00 Ex 174 hollow fiber membranes modules immersed in scheme intended for water and wastewater treatment plants, made of polyvinylidene fluoride (PVDF) with substrate material of a draylontrille budadiene styrene (ABS) resistant to 300.00ppm / h of exposure to chloro, nominal inside diameter of 0.9 mm and a nominal fiber diameter of 2.2 mm external fiber nominal prose size of 0.1 micron; effective filtration area of from 10 to 20 m. permeate flux (flow rate) of between 12.5 and 35LMH, filtration with flow from the outside inward, working range transmembrane pressure (TMP) of 0.05 to 8421.21.00 Ex 175 aeration modules, provided with: 155 units (girids) with 12m long, metallic structural part for mounting the diffuser tube composed of 3.492 units totaling 2200 mm wide end (membrane tubular structure 4); with silicone membranes manufactured with high temperature resistance (up to 120 Degrees Celsius) and abrasion perforated throughout their ease with smaller holes 1.4mm in diameter occurs allowing formation of fine air bubbles by air insufficiation into the aeration modules; polypropylene manufactured tubular structure for mounting and packaging of the membranes for removal of particulates, bacteria and viruses, with hollow fiber polyethersulfone (PES). "hole technology, the internal nominal diameter of 3.6 mm fiber with filtering area of 88m² sense fro filting (removing); Lifting system (T-Transverse) of aeration nondules. December of 88m² sense from filting (removing); Lifting system (T-Transverse) of aeration nondules. The pressurized ultrafiltration membranes for removal of particulates, bacteria and removembrane p						
width, minimum heating time of 1 minute, a maximum heating time of 2 minutes and 30 seconds, automatic shutdown for 90s, lower motor noise of 00B, working voltage of 110V and / or 220V power 1.100W, 60Hz frequency, maximum temperature 160° C is approximated idimensions of 49,5cm (L) x 4.15cm (A) x 5cm (A)						
maximum heating time of 2 minutes and 30 seconds, automatic shutdown for 90s, lower motor noise of 60dB, working voltage of 110V and / or 220V power 1.100W, 60Hz frequency, maximum temperature 160 °C is approximate dimensions of 49,5cm (L) x second 1.00 x 41,6cm (L) x second 1.00 x 43,6cm (L) x second 1.00 x 41,6cm (L) x second 1.00 x 10						
seconds, automatic shutdown for 90s, lower motor noiso of 60dB, working voltage of 110V and / or 220V power 1.100W, 60Hz frequency, maximum temperature 160 °C is approximate dimensions of 49,5cm (L) x 8421.21.00 Ex 174 hollow fiber membrane modules immersed in scheme intended for water and wastewater treatment plants, made of polyvinylidene fluoride (PVDF) with substrate material of acrylonitrile butadiene styrene (ABS) resistant to 300.000ppm / h of exposure to chloro, nominal inside diameter of 0.9 mm and a nominal fiber diameter of 2.2 mm external fiber nominal pore size of 0.1 micron; effective filtration area of from 10 to 20 m; permeate flux (flow rate) of between 12.5 and 3SLMH, filtration with flow from the outside inward, working range transmembrane pressure (TMF) of 0.05 to A.A.B.c. (and A.B.c. (and			_			
motor noise of 60dB, working voltage of 110V and / or 220V power 1.100W, 60Hz frequency, maximum temperature 160 ° C is approximate dimensions of 49,5cm (L) x 14						
110V and / or 220V power 1.100W, 60Hz frequency, maximum temperature 160 °C is approximate dimensions of 49,5cm (L) x 8421.21.00 Ex 17A hollow fiber membrane modules immersed in scheme intended for water and wastewater treatment plants, made of polyvinylidene fluoride (PVDF) with substrate material of acrylonitrite butadiene styrene (ABS) resistant to 300.000pm / h of exposure to chloro, nominal inside diameter of 0.1 micron; effective filtration area of from 10 to 20 m; permeate flux (flow rate) of between 12.5 and 3SLMH, filtration with flow from the outside inward, working range transmembrane pressure (TMF) of 0.05 to 1.2 for mounting the diffuser tube composed of 3,492 units totaling 2200 mm wide end (membrane tubular structure +); with silicone membranes manufactured with high temperature resistance (up to 120 Degrees Celsius) and abrasion perforated throughout their ease with smaller holes 1.4mm in diameter occurs allowing formation of fine air bubbles by air insufficiation in the acration modules; polypropylene manufactured tubular structure for mounting and packaging of the membranes in the structural part; 1 cross bar for lifting (removing); Lifting system (T-Transverse) of aeration modules; polypropylene manufactured fubular structure for mounting and packaging of the membranes in the structural part; 1 cross bar for lifting (removing); Lifting system (T-Transverse) of aeration modules; polypropylene manufactured fubular structure for mounting and packaging of the membranes for removal of particulates, bacteria and viruses, with hollow fiber polyethersulfone (PES), 7-hole technology, the internal nominal diameter of 3.6 mm fiber with filtering area of 58m's sense flow filtration from inside to outside (inside-out), maximum pressure 5bar (72,5ps), operating at a transmembrane pressure (TMP) of less than 1 bar (14,5ps) and maximum (TMP) 2,5bar (36ps) outer diameter 10 inch pot, toxi inch			1			
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1 bar (14,5psi) and maximum (TMP) 2,5bar (36psi) outer diameter 10 inch pot, six inch			from inside to outside (inside-out), maximum			
			from inside to outside (inside-out), maximum pressure 5bar (72,5psi), operating at a			
I IDODE CONDECTION PACKWACH MAXIMUM HOW I			from inside to outside (inside-out), maximum pressure 5bar (72,5psi), operating at a transmembrane pressure (TMP) of less than 1 bar (14,5psi) and maximum (TMP) 2,5bar			
bond connection backwash maximum flow			from inside to outside (inside-out), maximum pressure 5bar (72,5psi), operating at a transmembrane pressure (TMP) of less than 1 bar (14,5psi) and maximum (TMP) 2,5bar (36psi) outer diameter 10 inch pot, six inch			

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8421.21.00		oxidants in water and wastewater in general, 2.900mm in width, depth 1,100 to 1,400 mm, maximum 2.000 to 2.080mm cabinet height and without water weight of 1,950 to 3.200kg, rated voltage supply system 380 to 480VAC, equipped with one or more dielectric modules advanced technology of ceramic, shock-resistant, with optimized properties for ozone generation in the range of 0 to 13% by weight and varied ozone production in the range 3.41 to 20,53kgO3 /			31/12/2021
8421.99.99		Ex 073 - filter cartridges aviation absorptive elements, cylindrical cartridge format; external diameter: 44,5mm; inner diameter: 22,2mm; Length: 782,6mm; The closed end; B open end with O-ring "O-ring" Buna; ends made of "Nylon"; filter medium manufactured in micro fiberglass, coated water absorbing polymeric material molded on galvanized metallic core pipe.			31/12/2021
8421.99.99	Ex 0/4	Cartridges coalescer filter element aviation - retention of solid ultrafine particles; promotes the coalescence of water in the fuel, allowing their separation in the second stage of filtration, cylindrical cartridge format; external diameter: 152,4mm; internal diameter: 88,9mm; Length: varies from 285.7 to 1.447,8mm - depending on the model; The closed end with fixing screw; B open end with O-ring "O-ring" Buna tip or threaded for engagement; ends made of "Nylon"; A multilayer filter medium made of glass micro fiber, cellulose and pleated coated textile material molded on galvanized metallic core pine.	Resolution No. 14 of February 19 2020	, 0	31/12/2021
8421.99.99	Ex 075	Membrane ultrafiltration polyethersulfone (PES) designed for protein rejection 5,000 to 10,000 Daltons, with spacers 0,076, 0,117 and 0,165cm with membrane 50 360ft² area (33m² 4.6), with a length of 90, 2 and 96,5cm diameter and 9.6 cm (3.78 ") 10.9cm (4.28") 16,2cm (6.38 ") and 20,1cm (8"), spiral type configuration sanitary to work at maximum pressures up to 10 bar and temperature lower than 55 degrees Celsius.		, 0	31/12/2021
8421.99.99	Ex 076	Module ultrafiltration hollow fiber membranes with vertical orientation fibers made of polyvinylidene fluoride (PDVF) with high permeability instantaneous tolerance to chlorine 5.000ppm with nominal pore size from 0,04mícrons to work in pressurized conditions or submerged elements with the module area from 15m² for the treatment of water and wastewater with a flow from outside to inside, working with a maximum transmembrane pressure range of less than	Resolution No. 14 of February 19 2020	, 0	31/12/2021
8421.99.99	Ex 077	Systems for pressurized ultrafiltration membranes connection 40, 60 or 80 inches, modularly expandable combining the feed lines, air filter to work with pressures up to 4 bar and comprising heads of thermoplastic material, stainless clamps, gaskets of EPDM and base for stainless installation.	Resolution No. 14 of February 19 2020	, 0	31/12/2021
8421.99.99	Ex 078	Accommodation for depth filter modules developed production process of biological medicine highly complex, built in stainless steel, and the contact surfaces with stainless steel product AISI 316L, contact surfaces other than stainless steel product AISI 304 / 304I, internal adapter assembly in AISI 316L stainless steel, with the ability to withstand temperatures between -10 and 150 degrees Celsius, with a pressure between 14.5 and	Resolution No. 14 of February 19 2020	, 0	31/12/2021
8422.20.00	Ex 027	Enxaguadores with water and / or ionized air for can cleaning (aluminum, steel or plastic) and can operate with bottles of up to 66mm in diameter and up to 188mm height and volume to 1L, where retention of the cans is achieved by the system through perforated vacuum belt regardless of any guides, installed power of up to 25kW with a production capacity of up 90.000vasilhames	Resolution No. 14 of February 19 2020	, 0	31/12/2021

8422.20.00	Fx 028	Washing termodesinfectoras and high-level	Resolution No. 14 of February 19,	0	31/12/2021
0422.20.00	LX 020	desinfectoras, automatic with capability for	2020	U	31/12/2021
		reprocessing endoscopes 1 to 3 and even 2			
		video bronchoscopes or 3/4 fiber			
		bronchoscopes, 1 or 2 ports barrier system,			
		water consumption: (6L) for filling the			
		chamber, sound level: less than 40dB			
		56,2dB default setting, drying with forced air			
		system, the washing chamber built in AISI			
		316L steel and high visibility door with			
		double tempered glass HST outside built in			
		304, door locking system during the cycle			
		execution, two hydraulic circuits separated			
		with dedicated pumps for endoscopic channels and washing chamber 2 arms of			
		rotary sprinkler, the water line connection			
		available to cold water / mixed or			
		demineralized pump 110W, flow of 90L / min			
		endoscope channel and 110W washing			
		pump, flow of 90L / min to wash the washing			
		arms dacâmara, three membrane pumps to			
		add the chemicals BALANCE acids, storage			
		capacity of chemicals to 3 gallons of 5L,			
		electric heating element 2,6kW, two			
		independent temperature probes PT1000, 3			
		switchboards: master, slave and			
		redundancy, with the possibility of			
		memorizing programs to 7: 3 standard			
		programs, 4 user-defined auto-thermal disinfection cycles at 80 ° C is chemical to			
		55 ° C, forced hot air drying HEPA filtered			
8422.30.29	Ex 507	Combinations of machines for preforms and	Resolution No. 14 of February 19,	0	31/12/2021
		covers food, blow, bottle, closing, labeling,	2020		
		grouping and packaging containers PET			
		(polyethylene terephthalate) with sensitive			
		beverages, consisting of: preform feeder			
		machine and lids; blower; with or without			
		high pressure compressor; with or without			
		preforms inspector; with or without rinser preform; Aseptic filling machines with higher			
		rated capacity equal to or 12.000recipientes			
		/ h (1L containers), containers			
		decontamination system (preform) and			
		covers after heating by steam injection and			
		activation of H2O2 / hot air drying cabinet			
		filling with sterile environment, continuous			
		filling control system, encapsulation system			
		(cap application) of aseptically packaged			
		containers, inspection system and disposal			
		of non-conforming vessels (and / or collect			
		samples for quality inspection in the			
		laboratory) commesa collecting, SIP-CIP			
		system for sterilization self-cleaning, surface cleaning SOP system COP and sanitizing;			
		nitrogen with or without application station;			
		After drying the containers is performed			
		through the application of labels of the label			
		application system with automatic speed			
		adaptation system according to the inflow of			
		containers; with or without time stamp			
		containers; grouping station containers			
Ī		unified momentum, capable of grouping and			

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8422.30.29	Ex 508	Machines with 24 channels with dual head	Resolution No. 14 of February 19,	0	31/12/2021
		disposed filled into 2 continuously trays	2020		
		vibrating, with 12 channels each, and divided into three steps aligned with a feed			
		hopper and a filling nozzle in the discharge			
		per tray for counting and filling circular,			
		oblong tablets and capsules of drugs with a			
		capacity to count up and potting			
		12.000comprimidos / min based on the			
		diameter of 8mm and uncoated tablets and			
		depending on size of vial and feed rate, able			
		to work with vials having a diameter of 30 to			
		100mm and height 40 to 200mm, counting			
		the tablets or potted capsule with 100%			
		precision by infrared sensor with light time			
		setting / dark for detecting double or broken			
		tablets with verifying opening / shutter			
		closing of tablets and / or capsules ,			
		provided with automatic insertion station			
		desachês silica gel desiccant in bottles and			
		containers for sachets width maximum of			
		50mm and a maximum length of 100mm,			
		with maximum capacity 120frascos / min			
		until 5sachês / bottle fed from rolls and			
		detected by electronic sensing optical fiber			
		as they are marked, cut by alternating action			
		of the knife and insert in automatically			
		bottles by piston action, capable of detecting			
		the thickness or photocell marks the position of the sachet fed through sensors in the			
		fitted cutting station with dual safety sensors			
8422.30.29	Ex 509	Automatic concept of rotary machines	Resolution No. 14 of February 19,	0	31/12/2021
0 122.00.20		counterclockwise for filling and closing	2020		01/12/2021
		colognes and perfumes in glass bottles			
		positioned on "pucks" with up production			
		capacity 40frascos / min through set of			
		dedicated and optimized parts 17 kinds of			
		formats bottles / valve covers, with blowing			
		system and suction particles provided with 4			
		nozzles with two pistons 250ml, two pistons			
		60ml and one piston 20ml volumetric filling,			
		automatic product placement, sensor level			
		control and product presence valve			
		automatic application gearbox and ball,			
		control station and presence components,			
		apply stopper, pre-recrave, recrave, pre-			
		tapping, automatic application collar or cap			
		batocada or threaded with rejection system			
		and air extraction with alcohol level			
		detection, automatic pressing system			
		module caps with "depucker", PLC -			
		programmable logic controller functions and			
8422.30.29	Fx 510	for diagnosis. Machines for stacking and boxing ceramic	Resolution No. 14 of February 19,	0	31/12/2021
5-122.00.29	_^ 310	tiles, able to operate with equal dimensions	2020		01/14/4041
		coatings or less than 1,200 x 1,800 mm, with	1		
		adaptation of the format select / separate			
		automatic or not, provided with four or more			
		trucks / extraction points, gifted or no			
		automatic quality control unit or not			
8422.40.90	Fy 802	Combinations of automatic and servo motor	Resolution No. 14 of February 19,	0	31/12/2021
0722.40.30		for forming, filling, sealing and encartuchar	2020		01/12/2021
		cartouches medication blister plastic /			
		aluminum and / or aluminum / aluminum, for			
		tablets and / or capsules of drugs, consisting			
		of: emblistadeira machine for forming, filling			
		and seal cartouches with a maximum equal			
		to 720cartelas / min, fitted or not with a			
		tooling set to a product format capacity,			
		widths ranging cartouches between 30 and			
		86mm, lengths of cartouches of between 70			
		and 140, gate dual coils, reels with a			
		maximum diameter of 600 mm, with or			
Ī		without system for bobbin exchange without			
		machine stop, continuous feed movement,			
		• 1	Ī	1	
		constructed so as not to allow the impurities			
		constructed so as not to allow the impurities lodging in the alveoli and production area			
		lodging in the alveoli and production area			
		•			

8422.40.90	Ex 893	Automatic for the formation of lots in trays machines (blister) for the accommodation of	Resolution No. 14 of February 19, 2020	0	31/12/2021
		turbines for use in automotive fuel pumps, consisting of: 1 component of the transfer belt system; exhaust system by pneumatic servomotor with manipulators; pneumatic claws; locking system of blisters of the rotor; parts transfer system for treadmill equipped with finished product identification sensors; Pneumatic valve block 1; One main control panel with three phase power supply and pneumatic 6A current, power, 3kW.	2020		
8422.40.90	Ex 894	Automatic packaging machines microwave popcorn packet type "paperbag" for controlled dosage corn and dosing precision oil, suitable for separating, crease, fold and seal 55 to 100g packages with dimensions of 287mm (C) x 139mm (L), with operations and double tracks with a maximum capacity of 150pacotes / min, equipped with dual station corn dosing packages opening device for suction and dispensing volumetric with sliding filling ports driven by the servomotor, dual sealing station by heat and pressure with 1/8 inch sealing bars, pumps for dosing of high precision oil with low standard deviation at dosages of 10 to 20g ½ inch dosing nozzles dosage safety device corn in packages "in the bag fill-in" double loading station, rotary magazine with storage capacity 3.000pacotes, system		0	31/12/2021
8422.40.90	Ex 895	Machines for wrapping paper rolls with diameter between 500 and width between 1.520mm and 2.540mm and 450 with a maximum capacity of 50bobinas / h, equipped with lateral locking discs, about panel and electrical protection and control.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8422.40.90	Ex 896	sequential operation of machinery for applying tax stamps 17 x 43mm in cigarette portfolios filters, placing the seals in different positions of cigarettes portfolios camera to check the positioning of the seals (kappa-Camera), afixador seals with nozzle "hot melt" with capacity for 400carteiras / min three-phase voltage of 380V, compressed air consumption 0,5m³ / h, installed power and 0,15kVA 60Hz mains frequency.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8422.40.90	Ex 899	Machines for application of the tax stamp on cigarettes cards, wrapping them with polypropylene film, application of narrow ribbon and packaging in sachets packages with 10 units with a capacity of 500carteiras / min, load connected to compressed air of 6 bar, air consumption tablet 100Nm³ / h main frequency of 60Hz.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8422.40.90	Ex 900	Combinations of automatic machines for manufacturing plastic containers used as packages of food products, composed of: double unwinder for films with a maximum width of 830mm, maximum diameter of daisies equal to 1.200mm, with pneumatic lifting device and control of the end coils film; thermoforming with maximum rated forming area of 750 x 380mm, minimum rating forming area of 480 x 80mm, preheating station, heating station, forming and cutting station, maximum operating speed 45ciclos / min, control system temperature by liquid tooling cavities 14 for producing containers with a volume of 347ml; Stacker already thermoformed containers forming stacks with a maximum length of 800mm, maximum operating speed greater than or equal to 47ciclos / min (variable depending on the characteristics and dimensions of	Resolution No. 14 of February 19, 2020	0	31/12/2021
8422.40.90	Ex 901	Machines for cotton lint pressing into bales with a maximum capacity of 80fardos / h, "Tramper & pusher" High Speed compound 03 bomb 1,200 gallons each connected power with power 800HP, 3 circulating pumps for oil cooling, autonomous air over oil cooler for each unit pumps and control console with programmable logic controller.	Resolution No. 14 of February 19, 2020	0	31/12/2021

8423.30.19	Ex 009	Equipment for weighing and dosing fresh or frozen products, made of stainless steel contains 10 to 14 heads, waterproof and constructed with IP69K rating load cell in an aluminum block with a maximum capacity of 8kg per discharge depending on the configuration.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8424.30.90	Ex 091	Machines for deburring with high pressure water component of the "turbine", made of plastic, suitable for fuel pump motor vehicles; composed of: system components for the transfer on the mat, with high-pressure water pump; electrical panel with AC power and pneumatics.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8424.82.21		plastic impact sprinklers type Super diffuser (SD) models with 1 or 2 nozzles and not offset, with female or male threads in the dimensions of 1/2, 3/4 inch or 1; full circle (360 degrees) or partial circle with multiple grooves bulkhead nozzles fixed to the rocker arm (Super diffuser (SD)) for a jet of water to intercept better uniformity of distribution of water with operating pressure from 1, 5 to 5bar and wet diameter between 14 and 34m, specific for sub-irrigation cup with super low jet angle (4 degrees) and low (12 degrees).		0	31/12/2021
8424.82.29	Ex 005	Pump spray for agriculture or horticulture for projecting, dispersing or spraying fluid irrigation flow rate 25 or 45L / min and pressure of 45kgf / cm² to handle adjustment and pressure control, has cast iron cylinder head with surface treatment chemical resistance, allowing the dispersion to both clean water and for highly corrosive agricultural products, suction inlet filter and return hose, incorporated efficiency technology, requires electric motors 3CV for	Resolution No. 14 of February 19, 2020	0	31/12/2021
8424.89.90	Ex 374	Machines for the application of films and aqueous solvents in pharmaceutical tablets, with a programmable logic controller, control computer and "software" shipped to development processes, with a storage capacity of up to 999 recipes with fully perforated drum of diameter 1.570mm, gross volume 500L and optimized geometry that allows processing of 10 (50L) to 100% (500L) volume without changing the drum, the automatic control system, the laser positioning of the spray guns, air volume capacity of up 6.000m³ / h with M-13 type filter, and moisture control for condensation, provided with automatic cleaning system "clean in place" (CIP).	Resolution No. 14 of February 19, 2020	0	31/12/2021
8424.90.90	Ex 058	plastic shells with plastic cover used in paint guns to the control function, preventing the exit of fluids, and at the same time has the function of filtering impurities present in liquids, ranging in size in microns of 90 to 280 and Volume 350 to 900ml.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8425.41.00	Ex 004	Lift electro-hydraulic automotive, steel, manual unlocking bilateral lifting capacity of up to 4.000kg, maximum elevation up to 1.910mm and a minimum elevation up to 100mm, the distance between columns 2.890mm, 3.365mm external width, rise time less than 55s greater descent time 45s with hydraulic pump, single phase 220V.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8426.12.00	Ex 006	Self-propelled gantry on tires driven by diesel engine, for placement in dry, transport and back to the water craft 110t maximum load and maximum width (mouth) of 7.5 m, with four lifting points being hydraulically adjustable furniture 2 and two fixed, polyester straps 8 13m and 4 independent and synchronized electric winches, with wireless radio frequency remote control unit value (CIF) not exceeding US \$	Resolution No. 14 of February 19, 2020	0	31/12/2021

8426.41.90	Ex 123	Self-propelled hydraulic manipulators on solid or inflated tire with two axles and traction on all wheels, superior operational 68.800kg weight, material handling, endowed upper car equipped with auxiliary generator, electric central panel, "joystick", connections 12V / 24V, energy recovery system with hydraulic cylinder and pressure accumulator; It may be mounted on steel structure with a height of 1,500 mm; stabilizers driven by electric motor with power equal to or greater than 200 kW, but not exceeding 250 kW; Hydraulic lift cabin; Articulated work front attachment (boom and stick) with a maximum range 15.120mm (ground level), and may contain as hydraulic	Resolution No. 2020	14 of February 19,	0	31/12/2021
		work tools, magnetic platters claw "Clamshell" (shell), demolition jaw,				
		electromagnet, hydraulic shears				
8426.49.90	EX 080	hydraulic self-propelled crawler handlers, operating weight of 220T, material handling, provided with upper carriage mounted on the tubular steel frame 10.000mm height, with central electrical panel, joystick, 12V / 24V connections; hydraulic system with hydraulic pumps with power reserve; Electric motor with power equal to or greater than 235kW, but equal to or less than 280kW; Articulated work front attachment (boom and stick) with a maximum range 26.714mm (ground level), and may contain as hydraulic work tools, magnetic platters claw "Clamshell" (shell), demolition jaw, electromagnet, hydraulic	2020	14 of February 19,	0	31/12/2021
8427.10.90	Ev 186	independent conveyors on wheels	Resolution No.	14 of February 19,	0	31/12/2021
		Guided Vehicle) used to move the finished product type, cardboard boxes and / or various envelopes, the maximum dimensions of up to 400 x 400 x 350mm (length x width x height), capable of maximum load carrying 10kg with gyro path guided by location and visual position by means of cameras accurately rate the presence code reading exceeding 99.99% and smaller code reading speed for reading 0.8s of QRCODE, turning 360 degrees on its own axis, capable of moving up 15.000peç as / h maximum speed of 2m / s, acceleration 1.5m / s², with conveyor system for cargo discharge, wireless roaming and , intelligent power management working by 8am on a single charge may or may not contain battery guick charger. management				
8427.10.90		Platforms aerial work, scissor, driven by an electric motor powered by rechargeable batteries from only multi-voltage charger, self-propelled on wheels, with traction on the front axle, controlled by panel / control unit in containing platform "joystick", equipped with " deck "extensible platform of 1.22m, the maximum vertical lift of the platform equal to 13,95m (internally) with maximum load on the platform with the" deck "extensible retracted equal to 349kg.	2020	14 of February 19,	0	31/12/2021
8427.10.90		cargo handling vehicles, called "variable desk", with a maximum load capacity on the table less than 20.000kg, equipped with lifting devices, and may or may not be operated by remote control, table rotation equal to or exceeding 11 degrees, lateral inclination equal to or greater than 16 degrees, the front slope equal to or greater than 14 degrees, self-propelled, with drive by an electric motor, locomotion speed equal to or lower than 6m / min, and the function of the safe handling of components of large trucks, the type off-road, used in the	2020	14 of February 19,	0	31/12/2021
8427.20.10	Ex 133	Forklift self-propelled, diesel engine, for lifting, transportation and storage of cargo, maximum load handling capacity to 25.000kg, with 2-stage tower lifting forks maximum height of 6,000 mm, 5-way control	Resolution No. 2020	14 of February 19,	0	31/12/2021

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8427.20.90		Platforms for aerial work with telescopic main boom on swivel base, capable of rotating the base 353 not continuous degrees, self-propelled wheeled, motordriven diesel or bi-fuel, with traction 4 x 4, controlled by panel / unit control platform containing the "joystick", with the same maximum vertical lift platform 18,5m (inner base of the basket on the platform) and maximum horizontal extent of the platform equal to 12.3m, with a maximum load capacity on the same platform basket the	Resolution No. 14 of February 19, 2020	0	31/12/2021
8428.33.00		Conveyors combiners and synchronizers of empty containers from multiple inputs and single line output, which allows to work with containers of up to 66mm in diameter, the heights of up to 188mm and volume to 1L with manual height adjustment or motorized where the synchronization of containers is performed vacuum system through perforated mat and vibrating guides installed power of 5 kW and a production capacity of	Resolution No. 14 of February 19, 2020	0	31/12/2021
8428.33.00	Ex 073	Modular conveyors 1 to 10 routes, to empty containers of aluminum, steel or plastic where the containers are conveyed hanging by a perforated modular network, assisted by vacuum, which allows to work with containers of up to 66 mm diameter, height up to 188mm and to 1L volume with manual height adjustment system or motor, installed power and up to 10kW capacity of up 150.000latas / h.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8428.39.90	Ex 244	Conveyors continuous action binder with deviation of various packages by means of sliding shoes for controlled shift control module (DCM) nominal capacity of up 5.750pacotes / h to 2m / s speed rating, fed by one or more points induction of automatic reading station, deviations rails, carrier, safety net electrical panel with programmable logic controller (PLC) and	Resolution No. 14 of February 19, 2020	0	31/12/2021
8428.90.90	Ex 603	Mixers pharmaceutical asymmetrical 360 degree rotation in AISI 304L stainless steel with enhancer mixture, for post processing, grains and other solid materials in pharmaceutical containers with maximum capacities of 500 and the maximum speed 2.000L 5 to 15rpm, with capacity operating in reverse mode, equipped with automatic clamping system equipped with swivel locks, with or without pharmaceutically receptacle after the IBC type (Intermediate Bulk Container) equipped with "scanner" laser safety programmable logic controller (PLC) integrated into the computerized system "software" dedicated and man-machine	Resolution No. 14 of February 19, 2020	0	31/12/2021
8428.90.90	Ex 604	transport systems and classification requests and various computerized volumes, track-type in the dimensions of 800 x 410mm, which supports up to 15kg, capacity 17.000carros / h, driven by motors, controlled by programmable logic controller (PLC), endowed with system mechanical separation with 169,4m long, 154 cars and conveyors 308 (a car mats 2); Input stations 10 / semiautomatic feeding; outlet trough of the separator of specific dimensions for direct separation (70 outputs) and feeding buffer VFA (14 outputs), width 545mm; rejection rail (2 outputs), width 945mm, scanning devices to read 1D codes (bar codes) and 2D (QR Codes) through two camera systems "scanner", two "sets" of laser cubadoras used to move and sort finished goods like cardboard boxes and / or various envelopes, the maximum dimensions of up to 600 x350 x 350mm (length x width x height), to its classification and automated dispatch; belt conveyors with feeding systems for the induction and charge		0	31/12/2021

8428.90.90	Ex 605	ergonomic chairs for the discontinuous movement of mechanical ground by 3 wheels, enabling its fully adjustable offset for labor running workshops in general, with electric motor body positioning in 9 positions and headrest 5 position, control variable positioning speed driven with 2 hands, 2 magnetic trays for tools, working in spaces with minimum clearance of 35cm, down from more seat travel 11cm, higher stroke 66cm seat, stainless steel frame 304, capacity to support up to 136kg and 100 to complete 200ciclos 4s each other without clearance, with two batteries (rechargeable battery) incorporated 76Wh 28VDC and each respective electric charger and battery.		0	31/12/2021
8428.90.90	Ex 606	Receptacles pharmaceutical type IBC, used for transport, mixing and keeping solid pharmaceutical bulk, stainless steel AISI 316L for contact areas with the product and AISI 304L for areas without contact with the product, with a nominal capacity of up to 2.000L with silicone seals, equipped with product loading door and air into filter cartridge polypropylene, product unloading compartment chute cone 60 degrees, four bars for lateral locking, stainless steel butterfly valves peripheral seal silicone cross section of 1.200 x 1.200mm 2.311mm	Resolution No. 14 of February 19, 2020	0	31/12/2021
8428.90.90	Ex 607	Automatic truck burnt ceramic bricks, with a maximum operating or less 12,5t / h capacity, equipped with grippers able to operate manipulative weighing units exceeding 2 kg; Table chain; automatic pallet dispensers; metal structures and gantry electrical panel command.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8428.90.90	Ex 608	Electric machines, automatic, trocadoras molds for placement, drives, deletions and exchanges molds for plastic injection molding machines, molds amount of 2 loadable size molds min 2.500 x 1.000 x 1.650 and 2.500 x 1.900 x max 1.650mm (C * U x) of maximum height 1.385mm mold tables, maximum weight of the mold 30t, maximum speed of movement of the mold 10m / I 2 phase motor for mold changing table (1.5kW, 440V - AC) AC motors 4 for roller drive propeller (2.2kW, 440V - AC), heat exchanger size 5.650 x 2.950 x 1.225mm (L x W x H), the maximum mold weight 30t, COM12 nearby sensors bridge size of 3000 x 800 x 1.385mm (L x W x H), geared drive with brake, diameters of the molds transport roller 160mm, with functions of air cylinders for locks, anti-drop air cylinder. "Giroflex" abnormality with siren	Resolution No. 14 of February 19, 2020	0	31/12/2021
8429.52.19	Ex 055	Self-propelled mini excavators on wheels, able to make full 360 degrees, with a diesel engine with a net nominal power of 40,8kW (54,5HP) to 2.400rpm, gross power of 42,4kW (56,8HP) to 2.400rpm, 21kgf.m maximum torque (206nm) at 1.550rpm spear 3m, 1.60m arm, and bucket operating	Resolution No. 14 of February 19, 2020	0	31/12/2021
8429.52.19	Ex 056	Mini self-propelled bulldozers, with superstructure able to make a 360 degrees, with steel tracks, cabin with closed operations with structure type ROPS and OPG, with the hydraulic boom operation controlled by "joystick" with diesel engine vertical 4-cylinder water-cooled with the power 54,7kW 2.200rpm with quick coupler, maximum digging force equal to the 54,3kN 42,3kN shell and arm, maximum speed of displacement equal to 4 (high) and 2.2km / h (low) and operating weight of 9.825kg.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8429.52.19	Ex 057	self-propelled excavator capable of performing 360-degree rotation, by a diesel engine with six cylinders net nominal power of 252kW (337.9HP) at 1.800rpm (SAE J1349), and gross power of 257kw (345HP) at 1.800rpm (saej1995) with: - launches 6,3m - arm 2.9 million and operating weight of 50,8t equipped with SPC control system (smart power control), the unit value (CIF) not exceeding US \$ 654,199.03.	Resolution No. 14 of February 19, 2020	0	31/12/2021

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8429.52.19		self-propelled excavator capable of performing 360-degree rotation, by a diesel engine with six cylinders net nominal power of 354kW (481HP) at 1.800rpm (SAE J1349), and gross power of 354kW (481HP) at 1.800rpm (saej1995) with: - 7,7m boom 6.65 to - 2.60 and operating arm 3,55m weight to 75.5 77,1t equipped with SPC control system (smart power control) unit	Resolution No. 14 of February 19, 2020	0	31/12/2021
8430.41.20		Drilling soil, self-propelled crawler, rotary type, capable of drilling in the range 270 to 444mm in diameter boreholes in single stage maximum depth exceeding 19,8m, on the maximum load greater than or equal to drill 68.038kg, operating weight or less 181.437kg and air compressor operating pressure equal to or less than 65psi.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8430.41.20	Ex 040	rock drilling equipment, self propelling crawler, equipped with 328kW diesel engine and the screw-type compressor with air flow 24,4m³ / min and up to 24bar working pressure, with a fixed or extendable arm provided with the head rotating designed for drilling with a bottom hammer (DTH) of 4, 5 or 6 inches for execution holes with diameters between 90 and 165 mm, hole depth of up to 40m and cabin air	Resolution No. 14 of February 19, 2020	0	31/12/2021
8431.41.00	Ex 011	Gripper mechanical manipulators for use in materials with operating weight of 20 to 55t, with a minimum volumetric capacity and maximum 0,5m³ 1,10m³ with maximum lifting capacity of 20t, max height 2.310mm; maximum hydraulic oil pressure in the opening and closing of the gripper equal to 345bar, flow in opening and closing the gripper equal to 100L / min, maximum hydraulic oil pressure in the claw rotating equal to 345bar, maximum flow claw rotating equal to 34L / min, provided with clamps 5, 5 hydraulic cylinders with inner shaft; 1 rotary bearing; 1 1.825Nm hydraulic motor with		0	31/12/2021
8431.49.22	Ex 004	Links segmented and articulated master, consisting of special alloy steel obtained by the process of forging hot, and thermal treatment, with hardness values comprised between 285 and 375 Brinell (HB), manufactured by specific project geometry for fitting not serrated, type "friendly hand" with step between 140 and 340mm, with geometry and dimensional own exclusive to compose the bearing current, self-propelled	Resolution No. 14 of February 19, 2020	0	31/12/2021
8432.29.00	Ex 006	Cultivators for soil cultivation (agricultural, horticultural or forest), with a gasoline engine, power 6,5cv, displacement of 196cc, compression ratio 8.5: 1, diameter 68mm and 54mm stroke, tank capacity fuel 6L, adjustable control handlebars vertically and horizontally for operation in both directions, front axle tires with wheels with traction, 8-inch steel wheels, rear axle hoes rotating, following three different sets of blades for use, a par with 3 blades, curved blades with a pair a pair with concave blades with rear height regulator blades with steel wheel.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8433.51.00	Ex 006	Combine harvesters for rice dual rotor system harvesting, threshing drum by 1.850mm in length, with three exits for separating grain, the grain with or without storage tank with capacity 1.670L, vertical diesel engine cylinders 4 with power rotating at 2.500rpm 62,1kW water cooled, tensile mats with width 550mm and length of 1.750mm or 1.700, automatic lateral leveling adjustment, the cutting deck with a width of 1.975mm, height adjustable crop 30 to 150 cm, with a throttle lever with buttons for cutting height adjustment with visible cutter bar to the operator maneuvers of the steering wheel with adjustable height, speed automatically reduced when executing curves, ensuring more accurate and reliable rotations with capacity to perform spins 360 degrees (the shaft itself) with motion system switched between the mats.		0	31/12/2021

8433.53.00	Ex 002	Harvesters or towed carrot coupled on the 3rd point of the tractor to 1, 2 or 3 lines, to allow the harvest of 1 ha / day with the first line machines; to 2ha / day with machines of 2 lines and up to 3 ha / day with 3-line machines equipped with automatic adjustment of depth with angle sensor system, self-adjusting platform alignment in carrot crop line with System angle sensors, floating hoes technology "floating share" small movements up elements and falls no impact on the position of independent knives obtaining greater stability oscillator vibrator assembly for tuber earth removal, the sheet cutting assembly (topper) driven gearbox oil bathed, and dala (treadmill) discharge or coupled bucket	Resolution No. 14 of February 19, 2020	0	31/12/2021
8433.59.90	Ex 050	self-propelled forage equipment with internal system (either at the power unit) fractionation (chipping) of the product harvested with internal grains processing system friction process with rollers driven by diesel engine with power equal to or greater than 220kW but less than or equal to 315kW, capable of coupling with product cutting width platforms exceeding 4.5 m but less than or equal to 6m or product gathering platforms width equal to or greater than 2,623m, but less than or equal to 3,599m, gifted or not one or more cutting decks products, gifted or not one or more products	2020	0	31/12/2021
8433.60.29	Ex 009	Blood detection modules inside eggs, red or white, through expecto photographic analysis by narrowband lights (LED), with an accuracy of 97% or greater for egg whites and 91% or greater for red eggs.	2020	0	31/12/2021
8436.10.00	Ex 052	Combinations of machines for the production of feed for poultry controlled by PLC (Programmable Logic Controller) with not less than 35t / h nominal capacity, consisting of: pelletizer matrix with internal diameter equal to 900 mm, effective surface 9.189cm2 pellet with 2 rolls with diameter 435mm, with an open surface area of 37.4%, driven by high efficiency motor (IE3) with power equal to or greater than 400kW by means of a V transmission and a toothed belt, equipped with thread Feed pelleting for load control, active detection roller slip and a matrix cleaning mode; steam mixer with hot start with a diameter of 500mm with control and reduction of the steam system; long term conditioning vessel for the product with maximum retention time of 3 minutes or capacity of 96m3 / h; counterflow cooler with rotary distributor and hopper	2020	0	31/12/2021
8436.10.00	Ex 053	Combinations of machines for preparing sauces used in food / feed for animals, consisting of: Emulsion unit components - feed and brine, 400L capacity with microcortador system, load cell / weighing; unit solution (brine), stainless steel, 2.000L capacity with transfer pump and stirrer; unit for small pieces of meat, stainless steel 500L capacity with transfer pump and	Resolution No. 14 of February 19, 2020	0	31/12/2021
8436.10.00	Ex 054	Combinations machines for pelletizing feed poultry and / or pork and / or ruminants, composed of: screw conveyor, capable of 55m² / h or more, steam mixer with 500mm diameter and 2,000 mm long stainless steel unit vapor for 2 to 4barg control pressure and a capacity of 750 1.750kh / h steam reduction unit 8 to the pressure of 12barg to 2 4barg pressure and capacity of 250 a1.650kg / hr long retainer duration - LTV 3.000mm and 96m³ / h with 1 min retention and 32m3 / h 3min retention 625kg / m³, with thermal insulation in electrical coil pelletizer with 900mm diameter and 275mm array depth with a production capacity of 25t / h of 90% PDI, equipped with AC motor 315kW cage and transmission system in stages 2-belt "V" and toothed belt with automated mechanical adjustment of the rolls and slip detection system	Resolution No. 14 of February 19, 2020	0	31/12/2021

pigs housed in groups in nursery phases, growing and finishing with automatic exact amount adjustment and accurate "mix" of different types of feed in accordance with the passage of time and growth of the animals, capable of 15 to 50 serve to feed animals, 100% autonomous, provided with: electronic feeder feed dispenser; feed tank with capacity of up to 120kg; own wireless communication (WiFi); data converter; connection cables; "App" suitable for use in mobile devices (phones and tablets); and tenturate controlled by a pressure gaze categories, with vaccination, separation and classification of fish in three size categories, with vaccination capacity of up 8.500peixes / h and vaccine accuracy of Pneumatic machines defoliating for cleaning vine leaves the pergola systems and awnings trellises through a cardam shaft PTO of the attached tractor with connecting three points, platform tilt adjustment 30 and 40 degrees with hydraulic drive, with rotating a driven hydraulically with working pressure of 0.8 to 1 bar controlled by a pressure gauge of 1 to 2km working speed / hr with intermittent jet of compressed air to the loosening and removal of the leaves and foliage, equipped with a hydraulic control arm with a rotary swivel equipped with the compressor, expansion tank, air filter and the command hydraulic extender "joystick" 8 functions						
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awnings trellises through a cardam shaft PTO of the attached vactor with connecting three points, platform tilt adjustment 30 and 40 degrees with hydraulic aftive, with rotating a driven hydraulically with working pressure of 0.8 to 15 accontrolled by a pressure gauge of 1 to 2km working speed / hr with intermittent jet of compressed aft to the loosening and removal of the leaves and foliage, equipped with a hydraulic control arm with a rotary swivel equipped with the compressor, expansion tank, air littler and the command hydraulic extender "joystick" 8 8437.10.00 Ex 101 Instruments for analysis and simultaneous and automatic sorting seeds / grains based on physical and / or biochemical seach seed or or / grain through transport system grain- to-grain permitted by a portorated and vacuum belt, a spectrometer in the range infrared a 30 vision camera, a industrial PC, programmable logic controller (PLC) with I / O modules and compressed air valves 3, with analysis of up to 50sementes / sorting and the programmable logic controller (PLC) with I of modules and compressed air valves 3, with analysis of up to 50sementes / to division with cutting accuracy of 4-1% by mass reduction hamburger buns and hot dog with expeatly of up 36.000/gate burger / h mass weight between 25 170 g composed of: extruder mass including the mass degassing system with four outputs for division with cutting accuracy of 4-1% by mass moulder with Refrigerate and 4 bars with a special surface for rounding, applicator flour with collecting excess for recirculation and filtration, pre continuous formenter intermediate with 4 baskets by gondols and maximum residence time of 117s, laminator with 2 cylinders game with adjustable verts, molding with pressure ruler, indexing bread on the baking sheels with resemilia magnetic, transfer roller servo controlled, rotators of pan and forms orbital shaker. 8438.10.00 Ex 242 Combinations of machines for the production of raw dough of bread bisraggiarita type, with productivity 2.800og /h discharge pulse o		-/				0 1, 12,202 1
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8438.10.00	Ex 244	Combinations of machines for the production		0	31/12/2021
		of masses for breads with a capacity of	2020		
		400kg / cycle, consisting of: infrastructure for			
		dosing solid and liquid ingredients; 2 kneaders of stainless steel column with a			
		volume of the tank (pot) of 520L each			
		automatic pasta discharge vessel at the			
		bottom of tilting head with spiral blades,			
		scrapers and side speed control; wake			
		outgoing carrier to extraction and mass			
		elevation; programmable logic controllers			
		(PLC) and HMI panel (Human Machine			
8438.40.00	Ev 017	Combinations of automatic machines for	Resolution No. 14 of February 19,	0	31/12/2021
0430.40.00	EX 017	brewing of malt grains and aeration of the	2020	U	31/12/2021
		wort, comprising water mixer 8 enzymes	2020		
		dosing stations; Acting Baking system with			
		an internal stirrer 1.253hl capacity and			
		diameter of 6000mm, mashing tank for			
		conversion of sugars with an internal stirrer			
		1.253hl capacity and diameter of 6,000 mm;			
		retention basin capable of 1.408hl diameter			
		and 5000mm; pre-heating and propelling the			
		wort with plate heat exchanger, the capacity			
		of 350m ³ / h; wort cooking system, with an			
		internal heater shells and tubes, 1.276hl			
		capacity and diameter of 6200mm; hop			
		dosing system with stainless steel tanks and			
		capacity of 542L; System wort clarification			
		by decantation (whirlpool), with capacity of			
		1505 hl diameter of 6.800mm; heat			
		exchanger; energy recovery system with			
8438.50.00	Ev 361	changer Machine desossadoras semiautomatic chest	Resolution No. 14 of February 19	0	31/12/2021
0430.30.00		to breast chicken type "breast cap", with	2020	U	31/12/2021
		adjustable capacity to 50peitos / min,	2020		
		bypass, with successive application of skin			
		removal procedures, removal of bone player,			
		individually measuring the length of the			
		breasts, cut and separation of bone meat,			
		manual separation of breast fillet and tender,			
		operating with PLC and relying on control			
		panel and supply mats and final products.			
8438.50.00	Ex 362	Seasoning injection molding machine in	Resolution No. 14 of February 19,	0	31/12/2021
0.00.00.00	=	meat products, manufactured in stainless	2020		01,12,2021
		steel, with the panel "touchscreen" filtering			
		system with 320L capacity, 212 needles			
		threaded with height adjustment, with			
		injection flow of the programmable needles			
		conveyor with a width of 750mm and			
		adjustable speed, maximum capacity meat			
8438.50.00	Ex 363	Brine Cooling machines, manufactured in	Resolution No. 14 of February 19,	0	31/12/2021
		stainless steel with monitoring system	2020		
		operation and gun control, cooling unit with			
		ZCH4 added and glycol as coolant, brine			
		pump and glycol with a capacity of 1.5 and			
		0,37kW respectively.			
8438.60.00	Ex 021	Systems straps with pulsed electric field, for	Resolution No. 14 of February 19,	0	31/12/2021
		treatment of potatoes, with rectangular pulse	1		
		waveform, unipolar, made in stainless steel,			
		with a maximum capacity of 28 to 60T / H			
		potatoes in a mixture of water and potatoes.			
8439.10.90	Ex 056	functional units for refining, screening and	Resolution No. 14 of February 19,	0	31/12/2021
		cleaning pulp cellulose such as "Kraft", a	2020		
		maximum of 2,000t / day of production			
		capacity comprising: pressurized air, and			
		refiner pulp reject refiner, pulp washers			
		presses the respective hydraulic units,			
		average pulp stirring and low consistency			
		threads pulp carriers, debuggers with basket			
		of slits and respective gear, sets of sand			
		separators and heavy materials, bottom			
		discharge scrapers towers with reducing			
		fiber filters under vacuum type rotating drum			
		with respective drive and exhaust fans,			
		Kappa number analyzers, meters online pH, consistency meters and rotary blade type			
		and conductivity meters			

8439.10.90		Combinations machines for purification, washing cellulose pulp such as "Kraft" maximum production capacity 2,000t / day, consisting of: pressurized air, and refiner pulp "cleaners" presses pulp washers respective hydraulic motors and drives hydraulic, gas exhaust fans, gas scrubbers, medium consistency pump with respective vacuum pumps, special centrifugal pumps, mean pulp stirring and low consistency threads pulp carriers, debuggers with respective reducers, strainers with basket holes, debuggers with basket slots, sand separators assemblies, heat exchanger plates, bottom discharge scrapers towers with reducing fiber rotary drum type filters with respective drives, number of analyzers Kappa, online pH meters, consistency meters and blade	Resolution No. 14 of February 19, 2020	0	31/12/2021
8441.10.90		Machines for longitudinal and transverse cutting of cardboard coils, coated or not, overlapped or not, operating with dual cross-sectional synchronized by means of rotating rollers with helical blades, longitudinal section through the circular knives, double door-coils to coils maximum width of 1.830mm, cut paper having a maximum weight exceeding 600g / m, maximum cutting length and width of 1.650mm useful after trimming, with automatic unloading and stacking the single sheets in the output,	Resolution No. 14 of February 19, 2020	0	31/12/2021
8441.10.90		electronic machines to cut, mark embossed, to trace and dotting mainly paper and can also work other materials like vinyl and fabric with double stroller, to carry out simultaneous work, operating connected to the computer via a cable USB and execute the commands in accordance with a unique software, cutting the paper in maximum area of 30.48 x 60cm, maximum depth of 2 mm and maximum strength of 400 g / m².	Resolution No. 14 of February 19, 2020	0	31/12/2021
8441.20.00	Ex 043	Fully automatic machines for making paper bags weight between 45 and 140g / m², square bottom, with handle, fed by rolls of a width between 430 and 770mm, maximum diameter of 1.200mm; body width of the bags between 150 and 220 mm; paper tube length between 230 and 370mm; Handle size of 100mm, with reinforcing strap fed by paper rolls and paper cord, straps manufacturing system; handles delivery system; tube forming system; training system and automatic feed back with	Resolution No. 14 of February 19, 2020	0	31/12/2021
8441.30.90	Ex 079	forming boxes in paper machines, especially for use as lunch boxes and trays fed by sheets previously cut and creased, the welding process using heat and / or adhesive application, a maximum speed of 40 or 45peças / min, maximum depth of 60 or 120mm, weight of the substrate up to 400	Resolution No. 14 of February 19, 2020	0	31/12/2021
8441.40.00	Ex 039	Machines for making straws paper fed by reels, the thickness of the straw up to 1mm, cut length of 100 to 800mm, a maximum speed of 50 to 80m / min, unwinding type "non-stop" glue-applying unit, unit formation of the stick with subsequent cutting individualization, with or without outfeed	Resolution No. 14 of February 19, 2020	0	31/12/2021
8441.40.00		Machines for the manufacture of paper covers, from plain paper or both sides laminated PP and varnished paper, power 10kW, with an average production capacity of 100unid / min diameters of the covers between 55 and 145mm and may have sets mold covers, training and operating by ultrasound welding system.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8441.40.00		Example 041 - automatic machines for the manufacture of paper cups from paper that weighs 150 to 350g / m² paper laminated polyethylene on one side, power 4kW, with an average capacity of 70unid / min, measurements of cups to 550ml in volume, and may have sets of mold cups operating by ultrasound welding and forming and conveying system and automatic stacking	Resolution No. 14 of February 19, 2020	0	31/12/2021

8441.40.00	Ex 042	Machines for the manufacture of paper pots from paper that weighs 150 to 350g / m² and one or two layers of polyethylene film, power of 6kW, with an average capacity of 50unid / min measurements the pots by volume to 1,500 ml, and may have sets of molds pots, operating by formation and ultrasonic welding system and automatic stacking	Resolution No. 14 of February 19, 2020	0	31/12/2021
8441.40.00	Ex 043	Machine for manufacturing paper caps, automatic fed by reels can fabricate caps with diameter up to 145mm, weight up to 280g / m², a capacity exceeding 60peças /	Resolution No. 14 of February 19, 2020	0	31/12/2021
8441.80.00	Ex 111	Automatic rotating transverse cutting of corrugated cardboard, with a cut level of Speed up to 300m / min, maximum cutting width of up to 2.500mm, with a system that controls the exchange of requests and communicates with the other devices of the	Resolution No. 14 of February 19, 2020	0	31/12/2021
8441.80.00	Ex 112	Automatic combined machine for corrugating for forming and stacking of continuous sheets of corrugated cardboard, with creasing and cutting in the transverse direction, bending system and carrier system for automatic separation of cells, speeds up to 200m / min, width of the plates up to 2,500 mm and maximum stack height of up	2020	0	31/12/2021
8443.19.10	Ex 063	industrial high-speed automatic printers for silk-screen printing flat screens, with automatic record printing, ADF front gathering and sheet alignment system by CCD camera, maximum substrate size (mm) 800 x 600, substrate thickness (mm) between 0.1 and 3.0 * 1 maximum weight substrate 1k, printable maximum size (mm) 800 x 585, maximum frame size (mm) 1,100 x 1,000 maximum print speed (HPI) 650 * 2.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8443.19.90	Ex 160	UV matrix module laser printing machines made by a neodymium crystal with a wavelength less than 355nm and average power less than 2W, for industrial use, with cumulative functions or not to schedule, encode, personalize, address and date products or packaging shapes, surfaces and various materials, with a maximum speed equal to or higher printing 500caracteres / s, recording with the product static or moving, with a maximum linear speed of the printed products to be not less than 300m / min)	Resolution No. 14 of February 19, 2020	0	31/12/2021
8443.39.10	Ex 348	Digital printing machines inkjet printer for industrial use, with a resolution ranging between 360 and 1.200dpi and speed of up to 23m² / h print media to a maximum thickness of 1 mm and a maximum width of 161cm printing, print engine based on printheads with piezoelectric element, with 2 printheads, operated with UV ink and curing by LED lamps positioned next to the print heads, 8 slot ink with USB and "Ethernet" connection, printing system (MAPS), drops of volume control system (WAVEFORM), dot / media power automatic adjustment system (DAS), guns checking system (NCU), guns recovery system (NRS).	Resolution No. 14 of February 19, 2020	0	31/12/2021
8451.40.29	Ex 015	Industrial machines for washing, bleaching, customize and apply treatment in finishing textiles, apparel and garments by the ozone generation (O3) of 1,000 g / h, analysis and concentration in real time that is being generated; generated by the separation of O2 provided by PSA, stored in a tank and applied to a stainless steel basket, all sealed with rubber gaskets and Teflon, with O3 destruction system through chemical "carulite" to release the doors; inner drum rotating in both directions, controlled by frequency inverter; buttons to vascular and lowering the basket start process, stop process, and alarm problems, consisting of a "desk" to control the applicator basket, which is programmed to power O3 and time desired, and can be connected to two baskets (having ability to work and to control the baskets 2); CLP has screen and "touch", cooled by closed loop controlled system		0	31/12/2021

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8451.40.29	Ex 016	Industrial machines for washing, bleaching,	Resolution No. 14 of February 19,	0	31/12/2021
		customize and apply finishing treatment for textiles, apparel and garments through O3	2020		
		(ozone) generated by separation of O2			
		provided by PSA, stored in a tank and			
		applied to a basket of stainless steel, all			
		sealed with rubber gaskets and Teflon, with			
		O3 destruction system through chemical			
		"carulite"; inner drum rotating in both			
		directions, controlled by frequency inverter;			
		vascular buttons and lowering the basket start process, stop process, and trouble			
		alarm composed of a "desk", where the			
		program O3 power and time desired, and			
		can be connected to two baskets; PLC			
		screen and "touch" cold loop controlled by a			
0.454.00.00	F., 000	mini "chiller" (nower 5 000kcal)	Desclution No. 44 of February 40		24/42/2024
8454.30.90	EX 083	Machine combinations for the manufacture of automotive pistons with or without ring or	Resolution No. 14 of February 19, 2020	0	31/12/2021
		insert port salt by the casting process by			
		gravity piston in the vertical or horizontal			
		position with the ability to merge two pistons			
		per cycle, as follows: 2 descarregadoras			
		machines fused pistons feeding 440V; with			
		controller composed of: retaining furnace 2;			
		water containers; 2 tracks; 2 boxes for scrap;			
		box aluminum oxide; oven treatment by the			
		"Alfin" process; 6-axis robot; PLC (Programmable Logic Control) and			
		"aaftwara"			
8455.21.90	Ex 041	Machine combinations for casting and	Resolution No. 14 of February 19,	0	31/12/2021
		continuous rolling of aluminum alloy rods,	2020		
		including 1,120 and 6,201 of 9:52 or 12mm in diameter with a maximum output capacity			
		of 5t / h composed of: degassing system			
		assembly and filtering online; set of ceramic			
		filter assembly of the liquid metal; Wire			
		feeder assembly Al-Ti-B; casting machine 4-			
		wheel assembly and pouring ladle; set of			
		front drive unit ("pintch-roll" shear bar);			
		cutting scissor assembly aluminum bar;			
		straightener assembly aluminum bar; rolling			
		assembly 15 consisting heads; Protective cover set of the hydraulic system of the			
		laminator; set of oil lubricating system for			
		rolling; lubrication system assembly by			
		emulsion mill; Emulsion vacuum filter			
		assembly for the paper band; set of vertical			
0.450.44.44	F.: 040	winding iumbo with	Desclution No. 44 of February 40		04/40/0004
8456.11.11	EX 019	Machines for cutting metal plates by laser fiber with numerical control (CNC) with	Resolution No. 14 of February 19, 2020	0	31/12/2021
		cutting work area up to 4070 x 2.050mm,	2020		
		with simultaneous positioning speed of the X			
		and Y axes of 170m / min with automatic tool			
		changer up to 16 nozzles with automatic			
		loading and unloading system of metallic			
		plates with 5 drawers and storage capacity			
		of up to 15t charge and discharge cycles of			
		120s with cell separation robot with 5 parts			
8456.11.11	Ex 020	Machines for cutting metal plates by laser	Resolution No. 14 of February 19,	0	31/12/2021
		fiber with thick plates cut capacity exceeding	2020		
		8mm, the material with maximum			
		dimensions of 3,106 x 1.582mm, the			
		maximum loading capacity table of 1.100kg with loading and unloading handler machine			
		for bales of raw material up to 3t 60s and			
		cycles at maximum speed for positioning the			
		X and Y axes of 140m / min, with automatic			
		changer up to 40 nozzles with numerical			
8457.10.00	Ex 423	vertical machining centers, double column,	Resolution No. 14 of February 19,	0	31/12/2021
		with structure pads type box, equipped with	2020	-	 •
		numerical control (CNC) and can milling,			
		boring, drilling and tapping, with ongoing			
		3.200mm X, Y 1,700mm (with option to			
		2,200) and Z 1.000mm, 1.800mm distance			
		between columns rapid traverse axes x 15m / min, Y, 20m / min, Z 15m / min, the table			
		size of 1,500 x 3,000 mm, maximum load			
		capacity over 10,000kg the table, spindle			
		torque up to 605Nm, spindle built up at			
		maximum speed 6.000rpm optional rotary			
		table (4th axis), the clamping cone BT50 tool			
		magazine optional groups of up to 40 tools,			
		length of 300mm to tool maximum diameter			
_	i	of 200mm, a maximum weight of 20 kg tool	1		
		lwith complete system for cooling and			
		with complete system for cooling and			

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8457.10.00	Ex 424	Vertical Machining Centers, double column,	Resolution No. 14 of February 19,	0	31/12/2021
		with shims box-like structure, provided with	2020		
		numerical control (CNC) may milling, boring, drilling and tapping, with current X, Y equals			
		5,500, 3,200 and 1,000 mm Z, with optional			
		1.250mm respectively, the distance between			
		columns of 2.800mm rapid traverse axes x			
		and Y of 15m / min, Z 10m / min, the table			
		size of 2000 x 5.000mm, the maximum load			
		capacity on the table 22,000 kg spindle			
		torque up to 1.023Nm, spindle built up at			
		maximum speed 4.000rpm optional			
		hydraulic balancing system Z-axis, clamping			
		cone BT50 tool magazine optional groups of			
		up to 40 tools, the length tool to 300mm,			
		maximum diameter of 220mm, a maximum			
		weight of 20 kg tool with complete system			
		for cooling and lubrication			
8457.10.00	Ex 425	mobile column machining centers and fixed	Resolution No. 14 of February 19,	0	31/12/2021
		bed with numerical control - CNC, with work	2020		
		table in size of 2780 x 520mm, with a			
		maximum load capacity of 2,000 kg, with X			
		courses equal to 2.300mm, Y equal to			
		520mm and Z equal to 600 mm, the			
		maximum spindle speed of 12.000rpm,			
		spindle type "built in" with integrated motor			
		with rapid traverse of 40m / min, X axis with			
		bearing refrigerated for better accuracy with			
		automatic exchange magazine tools with			
		mobile magazine with axis of the cone tree			
		type bbt40, with desk sharing system in the			
		form of a double pallet to work with the			
		machine in the machining station and the			
		loading station in automatic mode or with the			
		possibility to work with whole table with entire shaft extension X			
8457.10.00	Ex 426	numerical control machining centers (CNC)	Resolution No. 14 of February 19,	0	31/12/2021
0.07.7.0.00	-	for machining automotive engine cylinder	2020	ŭ	0 17 1272021
		heads, with 204s / piece cycle time with 5			
		axes controlled simultaneously with the axes			
		travel x, y and z equal to 500mm and scope			
		of the axis of rotation A B of 635mm and			
		620mm, fast forward on the X, Y and Z 60m /	1		
		min, with a spindle speed of 200 to			
		12.000rpm, with a storage capacity of up to			
		20 tools with a maximum diameter of			
		115mm and a maximum length of 320mm			
		with coolant tank with a chip carrier, with or			
		without magnetic separator, with a mist			
		collector, with tool assemblies for machining			
		engine cylinder heads, with locking device			
		cylinder head, with a system for attachment			
		detection value unit (CIF) not exceeding US			
		\$ 1 046 044 73			
8457.10.00	Ex 427	numerical control machining centers (CNC)	Resolution No. 14 of February 19,	0	31/12/2021
		for machining automotive engine blocks,	2020		
		with 204s / piece cycle time with 5 axes			
		controlled simultaneously with the axes			
		travel x, y and z equal to 500mm and scope			
		of the axis of rotation A B of 635mm and			
		620mm, fast forward on the axes x, y and z			
		60m / min, with a spindle speed of 200 to 12.000rpm, with a storage capacity of up to			
		20 tools with a maximum diameter of 115			
		mm and a maximum length of 320 mm with			
		coolant tank with a chip carrier, with or			
		without magnetic separator, with a mist			
		collector, with tool assemblies for engine			
		blocks machined with fixture engine block			
		with system for securing detection value unit			
		(CIF) not exceeding US \$ 1 024 278 49			
8457.30.10	Ex 005	Machine multi-station simultaneous	Resolution No. 14 of February 19,	0	31/12/2021
		machining type "Transfer" with numerical	2020		
		control (CNC) and software customized			
		process management and scheduling, have:			
		loading and automatic unloading system			
		with tele camera control and 8 machining			
		units or more programmed and controlled by			
		CNC with power drilling unit 5,5kW up to			
		6,000rpm and combined units drilling and			
		tapping 5,5kW power up to 4,000rpm			
		endowed table transfer technology with			
		"Direct Drive" CNC axis to 50rpm with			
_	ı	positioning time 0.4s station / station and			
		l'			
		accuracy of +/- 3 inches and the ability to			

0.450.44.00		<u> </u>	In		
8458.11.99		horizontal turning centers for machining of metal parts, with numerical control (CNC), for turning, drilling, milling and thread (including off-center) with two spindles opposed capable of simultaneously machining with two spindles, two turrets door -tools with a capacity equal or superior to tool 10, with the lower tower stations 12 and the upper turret (multifunctional tower) provided with an automatic tool exchange system for up to 80 tools with the ability to torneavel maximum diameter of 650mm, length torneavel maximum equal to 1.500mm, strokes of the axes X, Y, Z, W, C and B, X = 645mm, 235mm X b = Y = 250mm, Za = Zb = 1.600mm 1.584mm, 1.584mm = W axis C with an inclination of 360 degrees and minimum programmable increment 0.0001 degree, the maximum rotation equal to 4.200rpm main spindle axis B with 240 degrees of inclination, the main radial vertical drills for internal hole of the injector body automotive fuel with 7 workstations 3 axis CNC, automatic feed axis displacement "x" with programmable linear motor and speed up to 100 m / min	Resolution No. 14 of February 19, 2020 Resolution No. 14 of February 19, 2020	0	31/12/2021
0.400.40.00	F.: 044	and acceleration of 20m / s2 coolant pressure 120bar, tolerance of up to 0.02mm and ensuring 1.66 cm and CMK CPK and CP and 1.33 for all characteristics; 3 has zones having a maximum rotation 10.000rpm; maximum machining diameter and length: 46mm diameter x 14.38; maximum stroke in the Z axis and axis of 200mm x 1,300mm; 7 provided with machining stations, designed for drilling and facing the diesel injector nozzle body; power system and automatic desalimentação; with gutters with capacity of 40 to 50peças, and parts selection system after machining; Electropneumatic with claws system for transport to the clamp, the closing clamp parts by			24/40/2004
8460.12.00	Ex 011	Machines to process flat metal grinding wheels arranged two independent operating medium with diameters of 500mm and numerical control (CNC); speed range between 100 and 1.200rpm, with power of 26kW on each spindle and speed of 30m / s; maximum thickness of 17mm workpiece; provided with process measuring device; automatic loading and unloading of parts.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8460.12.00	Ex 012	lapidadoras machines with double sided (upper and lower) for grinding flat metal parts, provided with programmable logic controller (PLC); dishes with a diameter of 720mm; 292mm width of the ring; 1.800dan maximum load pressure; Speed of plates: upper plate: 300rpm, 420rpm lower plate; central drive power 2,5kW; speed of 83rpm of the central unit; equipped with cooling of	Resolution No. 14 of February 19, 2020	0	31/12/2021
8460.19.00		Machines for rectifying the flat faces component of the "turbine" fuel pump for motor vehicles; consisting of: component feeder to the transfer belt, equipped with 16 positions (charge and discharge system); grinding system; panel with AC and auxiliary pneumatic supply with current and power	Resolution No. 14 of February 19, 2020	0	31/12/2021
8460.23.00	Ex 032	Machine tools for grinding external cylindrical surface, dressing provided with a rotatable roller in the process; used with wheel diameter 398 and 14mm wide and rotation 2.400rpm; Power of spindle 18kVA; with measurement process by twin probe; computerized numerical control (CNC); Hydraulic system for transporting the parts in input and output; system with treadmill for grounds for exemption; a rotary drum for feeding the machine; Workpiece rotational	Resolution No. 14 of February 19, 2020	0	31/12/2021

8460.23.00	Ex 033	Machine tools for grinding external cylindrical surface, dressing provided with a rotatable roller in the process; used with wheel diameter 406 and 60mm wide and rotation 1.500rpm; Power of spindle 36kVA; with measurement process by twin probe; computerized numerical control (CNC); Hydraulic system for transporting the parts in input and output a veter with treaderill for	Resolution No. 14 of February 19, 2020	0	31/12/2021
		input and output; system with treadmill for grounds for exemption; a rotary drum for			
		feeding the machine; forward speed of 8m /			
8460.23.00	Ex 034	Machine tools for external grinding of	Resolution No. 14 of February 19,	0	31/12/2021
		cylindrical surfaces with numerical control; with measurement process by twin probe, wheelbase 400mm, 320mm x course at a	2020		
		speed of 10m / min, z ongoing 650mm speed 20m / min, spindle power of 9,5kW,			
8460.31.00	Ev 102	maximum speed 1.500rpm zone.	Pacalistian No. 14 of Fahruary 10	0	31/12/2021
8460.31.00	EX 183	Machine tools for manufacturing, sharpening and / or regrind steel tools and / or hard	Resolution No. 14 of February 19, 2020	U	31/12/2021
		metal, numerical control (CNC), with 5 or more controlled axes, all axes with direct			
		drives with linear motors, machine based on			
		concrete with polymers with displacement			
		axes X (586 mm) / Y (408mm) / Z242mm linear and rotary axes a (360 deg) and C			
		(264 deg), all without direct drive pulleys and			
8460.31.00	Ex 184	Machine tools for producing and / or regrind rotary cutting tools of hard metal (HM), high speed steel (HSS) or polycrystalline	Resolution No. 14 of February 19, 2020	0	31/12/2021
		diamond (PCD) with a maximum diameter of			
		400 mm by means of abrasive wheels and / or rotating electrode with 0,0001mm linear			
		precision with 5-axis numerical control			
		(CNC), with courses x, y and z of 500 x 350 x 700mm, with axis (C) of rotation table			
		angular turning -185 to +135 degrees and			
		axis (a) of the main head with infinite degree, load system and automatic			
		unloading of tools and / or parts, electrical			
8462.10.90	Ex 149	fins forming machines for manufacturing	Resolution No. 14 of February 19,	0	31/12/2021
		hives for automotive heat exchangers from aluminum foil in coil specifications in width	2020		
		between 11,5 and 54mm, thickness 0.05 to			
		0.15 mm, fin height of conformal between 4 and 10mm, maximum input speed of up to			
		300m / min with the strip trimming system of			
		two parallel runways and capacity to 80cortes / min in each lane, provided with:			
		double unwinder with tilt, voltage control unit			
		strip servo motor strip trimming system in			
		two parallel tracks, unity for shaping and cutting of louvers of the fins, fin pitch			
		adjustment system for final length, spindle			
		driven by servo motor for synchronizing the flap position and system cutting guillotine			
8462.21.00	Fx 283	type and second channel output chute compact electric benders EG series with	Resolution No. 14 of February 19,	0	31/12/2021
		activation by double servo motor (DSP) for	2020		
		ball screw, one to hold folds with high accuracy and one to approach and retreat at			
		high speed with backstop 5 axes			
		incorporating L-Shift system controlled by CNC control with an accuracy and speed			
		return to 220mm / s, warp up to 25mm / s,			
		positioning accuracy of 1 micron, with or			
8462.21.00	Ex 284	electric bending machines with hybrid hydraulic servo system driven by four	Resolution No. 14 of February 19, 2020	0	31/12/2021
		cylinders, with numerical control, CNC arrow			
		compensation displacing the CNC lower tool, driven by wireless pedal fastening			
		system and alignment of the machine tool			
		punch and matrix system security with automatic fold position adjustment, operating			
		panel "touch", arranged with graphical			
		programming system in charge of machine			
		designs with definition 3D and "software" specific installed in charge of "TecZone			
		Bend" machine, which allows open files in			
		3D and automatically generate the program, the variable matrix position, with front and			
		rear lighting to aid in the work, laser beam			
		for precise positioning	I		<u> </u>

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8462.21.00	Ex 285	Machines for bending metal panels, numerical control (CNC) with double	Resolution No. 14 of February 19, 2020	0	31/12/2021
		capacity up and down, the maximum width			
		of the sheet 1.524mm, 2.495mm maximum length of the plate, the plate thickness			
		between 0.4 4mm and with manipulator arm			
		movement in the horizontal plane, for			
0.402.20.00	Fv 4 44	rotating and positioning the plate.	Decelution No. 44 of February 40		24/42/2024
8463.30.00	Ex 141	Combinations of machines for industrial production and packaging of metallic	Resolution No. 14 of February 19, 2020	0	31/12/2021
		staples, composed of: 45t press stamper			
		with double system of articulated arms and four guide columns, adjustable speed up to			
		220batidas / min; supporting band coils			
		glued containing 2 coils with quick-change system; unwinder electronically			
		synchronized with the glued web speed of			
		the press; with automatic wrapping of			
		industrial metal forming clips, fold, glue, fills and closes automatically packing around the			
		staples with packaging capacity for up			
		200pentes / min; controlled by			
8464.20.90	Ex 036	machine combinations for surface treatment	Resolution No. 14 of February 19,	0	31/12/2021
		of ornamental plates, composed of: autoloader, motorized roller conveyors	2020		
		connection, automatic polishing machine to			
		polish plates with 19 complete spindles with integrated horizontal oscillating movement,			
		endowed with espatulantes heads holders			
		abrasive 6 or shoes 8 capable of processing sheets with working width up to 2200 mm			
		and of course increase the mandrel up to			
		160mm; Door-lock mandrel constructed in a			
		single piece of steel, the travel speed to catch up to 80.000mm / min; electronics			
		command per screen "touchscreen" allowing			
		full control of the equipment; the plate reading system (SEL 60) installed in the			
		entrance polishing electronically determines			
		the area susceptible to the polishing plate			
		with automatic lubrication system, set up to three fans for drying the sheet; enceratriz			
8465.94.00	Ev 0/13	automatic with up to 4 Presses versatile vacuum with silicone	Resolution No. 14 of February 19,	0	31/12/2021
0405.94.00	LX 043	rubber membrane and drying module for	2020		31/12/2021
		folding, rolling and laminating, pressing total			
		area of membrane within the framework 3.140 x 1.290mm, operation mode hot			
		pressed and cold pressed, 18mm plate,			
		compact with 44 points suction, maximum temperature 80 degrees Celsius, vacuum			
		ball valve for evacuating air control,			
		programmable controller (PLC), folding heating dome one hydraulic piston,			
		maximum temperature 140 degrees Celsius,			
		temperature control digital 3-heating			
		convection elements with distribution air 10 kW each, the opening system and hydraulic			
		lock, with a maximum height heating			
		pressure closed 500mm, vacuum pump with rotary vane, dry operation, suction power			
		100m ³ / h with automatic and continuous			
		operation up to 9T / m ² (100mbar), heat resistant silicone membrane 230 to			
	ı	HOUIGIGH GINGOIRA HIRAHAMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			04/40/0004
8465.95.91	Ex 005	Machine tools for drilling multiple times in a	Resolution No. 14 of February 19,	0	31/12/2021
8465.95.91	Ex 005	Machine tools for drilling multiple times in a cycle of wood pieces with a length of	Resolution No. 14 of February 19, 2020	0	31/12/2021
8465.95.91	Ex 005	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units,	1	0	31/12/2021
8465.95.91	Ex 005	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal	1	0	31/12/2021
8465.95.91	Ex 005	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units,	2020	0	31/12/2021
8465.95.91	Ex 005	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal	2020	0	31/12/2021
8465.95.91	Ex 005	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm)	2020	0	31/12/2021
8465.95.91	Ex 005	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers	2020	0	31/12/2021
8465.95.91	Ex 005	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers reference pins with stock set in the X axis	2020	0	31/12/2021
8465.95.91	Ex 005	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers reference pins with stock set in the X axis adjustable parts, with automatic front loader compound magazine for parts, maximum	2020	0	31/12/2021
8465.95.91 8465.99.00		Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers reference pins with stock set in the X axis adjustable parts, with automatic front loader	2020	0	31/12/2021
		Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers reference pins with stock set in the X axis adjustable parts, with automatic front loader compound magazine for parts, maximum production 10 pages / min. controlled by a gauges separators 80 separating compartments, processing capacity of 160tá	2020		
		Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers reference pins with stock set in the X axis adjustable parts, with automatic front loader compound magazine for parts, maximum production 10 pages / min_controlled by a gauges separators 80 separating compartments, processing capacity of 160tá buas / min and storage 1.000m³ controlled	Resolution No. 14 of February 19,		
8465.99.00	Ex 162	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers reference pins with stock set in the X axis adjustable parts, with automatic front loader compound magazine for parts, maximum gauges separators 80 separating compartments, processing capacity of 160tá buas / min and storage 1.000m³ controlled by PLC (Programmable Logic Controller) through the use of sensors.	Resolution No. 14 of February 19,		31/12/2021
	Ex 162	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers reference pins with stock set in the X axis adjustable parts, with automatic front loader compound magazine for parts, maximum production 10 pages / min_controlled by a gauges separators 80 separating compartments, processing capacity of 160tá buas / min and storage 1.000m³ controlled by PLC (Programmable Logic Controller) through the use of sensors.	Resolution No. 14 of February 19, 2020 Resolution No. 14 of February 19,		
8465.99.00	Ex 162	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers reference pins with stock set in the X axis adjustable parts, with automatic front loader compound magazine for parts, maximum gauges separators 80 separating compartments, processing capacity of 160tá buas / min and storage 1.000m³ controlled by PLC (Programmable Logic Controller) through the use of sensors.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8465.99.00	Ex 162	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers reference pins with stock set in the X axis adjustable parts, with automatic front loader compound magazine for parts, maximum production 10 pages / min_controlled by 2 gauges separators 80 separating compartments, processing capacity of 160tá buas / min and storage 1.000m³ controlled by PLC (Programmable Logic Controller) through the use of sensors. Continuous tilting turntables for simultaneous 5-axis machining, and contramancal rotary axes with high dynamic drive with positioning division axis B 0.001 x	Resolution No. 14 of February 19, 2020 Resolution No. 14 of February 19,	0	31/12/2021
8465.99.00	Ex 162	Machine tools for drilling multiple times in a cycle of wood pieces with a length of workpiece 350mm minimum and maximum of 2.500mm, equipped with 14 drilling units, with six units Electropneumatic horizontal 3kW motor (4.500rpm) 6 Electropneumatic units with vertical 3kW motor (4500rpm) with two side units with horizontal Electropneumatic 3kW motor (2.800rpm) maximum drilling 85mm, adjustable door 6 and independent parts and fixing rollers reference pins with stock set in the X axis adjustable parts, with automatic front loader compound magazine for parts, maximum production 10 pages / min. controlled by a gauges separators 80 separating compartments, processing capacity of 160tá buas / min and storage 1.000m³ controlled by PLC (Programmable Logic Controller) through the use of sensors. Continuous tilting turntables for simultaneous 5-axis machining, and contramancal rotary axes with high dynamic	Resolution No. 14 of February 19, 2020 Resolution No. 14 of February 19,	0	31/12/2021

8466.93.20		320mm diameter rotary table driven by crown and endless, with up to 1,500 kg load capacity with hydraulic bearing, hydraulic locking 3.100Nm and free passage hole 120mm, precision indexing arches 14-second, equipped with command itself for use in machining centers.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8466.93.20	Ex 021	Cars transverse steel or cast iron GGG-60; fused, soldered or machined; used in the panning axis (X axis) machining centers to drive quill and motofuso; with sizes from 400 x 800 x 1.850mm; with dimensional accuracy of within +/- 0.05 mm in major faces or machined to +/- 1.5 mm in the major faces of the cast or welded structure; and geometric tolerances of parallelism, perpendicularity, and flatness of up to 0.01 mm in major faces		0	31/12/2021
8467.89.00	Ex 033	Hand tools driven by electric motor 9 ampere-phase 230W double insulation maximum speed of 12rpm and minimum 4RPM for attachment soil cuttings dimensions on the main unit 480 x 370 x 650mm dimensions of the reaction bar 120 x 1.670mm (length extension to 2.740mm) of	Resolution No. 14 of February 19, 2020	0	31/12/2021
8467.89.00	Ex 034	Hand Tools hydraulic crimping unit driven by a gasoline engine - 140rpm minimum and maximum 3.600rpm for fastening soil cuttings, the total dimensions 86 x 96 x 105cm and 205cm with open bars the bars weight 144kg closed tank filled with fluids.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8474.80.10	Ex 053	Machines for the manufacture of green sand molds for casting with horizontal dividing line applied in the casting of iron pieces without using molding boxes with dimensions of the mold width 550mm, 650mm in length and height adjustable with "encoder" linear between 120 and 220 mm per line division with speed without modeling the core 38 (s / box), the maximum dimensional accuracy of 0.25mm molding chamber, blowing the system with pressurized air aeration process, provided such pneumatic and hydraulic operation, ensuring horizontal operation and automatic control panel PLC (programmable logic controller), hydraulic pressure setting on the adjustable mold 1 to 16Mpa by the MMI (man machine interface), a security system protected by barrier and light sensors on the doors, automatic lubrication system of cylindrical guides, hydraulic unit with		0	31/12/2021
8474.90.00	Ex 054	Blanket rolls wet accumulators for the manufacture of fiber cement corrugated sheets, films endowed forming roll diameter of 1.650mm, pneumatic control system for cutting and extraction mechanism, laser thickness gauge, columns and supports for supporting the front machine, cylinder individual actuators, and film drive roller	Resolution No. 14 of February 19, 2020	0	31/12/2021
8475.29.90	Ex 011	automatic ovens with 8 cameras to bend hot plates glasses for bus windshield with free mold space of 2,350 x 3,350 x 650mm, with capacity of 29peças / 8h for glasses 3 + 4 mm, total installed power of 636kW, controlled heating profile symmetrically pyrometers and thermocouples.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8477.10.11	Ex 091	molding machines injection with high precision plastic parts of multi-application with control PLC and control panel HMI (human / machine interface) thread laminator diameter 110mm, screw and barrel Bi metal, heating power cylinder 82, 8kW, proportional valve for the opening and closing movements of the mold, proportional valve for injection movements, automatic security door, variable pump servomotor coupled gears for energy saving, power of servomotors 37,55kW + 55kW, 4 drives / hydraulic males to mold the movable plate side + 4 drives / hydraulic males to mold on the fixed plate side, programmable hydraulic control electronics 4 "valve gates" (valved injection nozzles), 8000kN clamping force, the distance between the columns 1000 x 1000, press the opening 1.040mm, the minimum size of 630 x 630mm mold.		0	31/12/2021

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8477.10.99	Ex 088	injection molding machine (micro-injection)	Resolution No. 14 of February 19,	0	31/12/2021
		for the production of small and micro parts,	2020		
		in thermoplastics, up to 420 degrees Celsius			
		to 100 kN clamping force, the distance			
		between columns 122 x 122mm with			
		converter for motor speed control, USB to			
		save tools adjustment programs on the			
		memory card, touch screen, silent machine			
		(less than 70dB), fully hydraulic, with 100			
		storable production programs, with or without nozzle static mixer, injection volume			
		comprised of 4 to 15cm ³ injection pressure			
		for the material 815 comprised of the			
		2.035bar injection piston diameter of 10 to			
		18mm, equipped with temperature controller,			
		control injection piston with a linear ruler,			
		hydraulic and electronic device,			
		dehumidifier, thermoregulator, 5th heating			
		zone, air blower, cooling ring tab branches,			
		with installed capacity			
8477.20.10	Ex 266	Extruders automatic pharmaceutical	Resolution No. 14 of February 19,	0	31/12/2021
		spindles continuous twin hot melt, extrusion	2020		
		and granulation, with nominal capacity for			
		compounds of granulation twin screws with			
		screw diameter of, equipped with heating			
		zones, with degree of protection IP65 and			
		cooling, vacuum water pump, gravimetric			
		dosing of powder, volumetric feeder liquids			
		equipped with peristaltic pump, fluid injection			
		nozzles, feeding channel subdivided wall,			
		pressure fusing apparatus (melt pressure)			
		capable of performing extrusion and			
		formation films, as well as granulation			
8477.20.10	Ex 267	Combinations of machines for the production	Resolution No. 14 of February 19,	0	31/12/2021
		of stretchable film (stretch film) by the	2020		
		system "cast" extrusion, with a net film width			
		up to 3,000 mm, thickness of 10 to 40micras			
		film, and no coils cartridge with varying width			
		of the coils 430 to 750mm and weighing 2.5			
		to 50 kg; with net production capacity of up			
		to 2.280kg / h, and line speed of up to 700m			
		/ min, varying depending on the thickness			
		and film produced therefrom; with the film			
		thickness tolerance up to 3.5% is produced;			
		consisting of: 5 extruders with the screw			
		configuration A / B / C / D / E 135/135/90/90			
		/ 90mm diameter with high precision			
		gravimetric feeders to feed each set of			
		screw / barrel; "Feedblock" of 7 layers;			
		automatic flat matrix; units "chill rolls" or			
		"chiller roll", which primary cooler roll with a			
		diameter of 1.400mm and secondary cooler			
		roller 350mm; ultrasonic system for			
0.477.00.00	F: 447	measuring film thickness;	Deschiller No. 44 of February 40		04/40/0004
8477.20.90	EX 117	Machine type balloon co-extrusion, for	Resolution No. 14 of February 19,	0	31/12/2021
		producing films barrier layer 9 with a	2020		
		maximum capacity of 1.590kg / h, maximum			
		width of 2200 mm film, maximum work speed of 150m / min, the maximum diameter			
		of coil 1200 mm, equipped with: system			
		"TURBOCLEAN" to automatic exchange of			
		raw materials; 8 universal screw type			
		extruders 1 and HPS PSA extruder screw			
		type for processing high melt index resins;			
		automation system format change; central			
		system of command and control; Automated			
		system for the quick cleaning of extruders			
		and extrusion tools; system "Profile Booster"			
		to speed up the adjustment of thickness of			
		the films; thickness measurement system			
		with radioactive probe; double set of corona			
		treatment; double winding contact or slotted;			
		circular array of 550mm; internal cooling			
		system and external balloon; system			
		assembly and gravimetric			
8477.30.90	Ex 081	Machines for molding by blowing,	Resolution No. 14 of February 19,	0	31/12/2021
		thermoplastic packaging for the filling	2020		
		process hot pasteurized (95 ° C), up to 2			
		wells for thread with a maximum diameter of			
		110mm, maximum length 150mm and			
		maximum capacity 4L, equipped system with			
		2 independent blowing stages for the heat			
		treatment of the bottle surface with			
		automatic feeding system and extraction.			

8477.80.90		Automatic production of flexible bags of the type machines "box pouch" from laminated plastics film coils, printed or not, on the dimensions of 140 to 700mm in height of the "box pouch" 80 to 380 mm of width "box pouch ", 25 to 70mm lateral concertina opening of the" box pouch "(the base) of 25 to 70 mm bottom width of opening of the" box pouch ", equipped with: 1 primary unwinder for making the front face, bottom and back face of the "pouch box"; Unwinders for making two transverse lateral bellows; 2 unwinders for placing auxiliaries and Velcro zipper; ability to work on one track or two production runs; System 4 laser beams (one pair on each side) to half-cutting "pouch box" prepared with plastic film laminates. Machine for sealing polypropylene sheet - PP, for thermofusion, for plates with a width between 600 and 1500 mm and a thickness	Resolution No. 14 of February 19, 2020	0	31/12/2021
		of between 2 and 5mm with two sealing units (VAME) with two heaters, mixer, modulator and thickness gauge two motorized belts for continuously moving the plate during the sealing process, electrical panel for controlling the temperatures and the speed of the belts, with capacity of up to 8m / min.			
8477.80.90		Type multilayer coextrusion heads "flat die" for use in extruders for making rigid plastic blades with coextrusion block for three distinct layers, equipped with 3 sets of internal adjustment to between 2.5 to 5mm thickness and width up to 1900 mm, interchangeable insert for exchange sequence of layers, with maximum extrusion	Resolution No. 14 of February 19, 2020	0	31/12/2021
8477.80.90	Ex 566	Machines for wrapping and folding TPO (Thermoplastic Olefin - olefin thermoplastic elastomer) on top automotive front door, comprising a fan 60Hz 380V 2.6A, hot air blower resistance 9.900W 15,8A 380V, 350W 22V 30W halogen lamp 16A, three-phase power supply, 380V, 60HZ, 60A with or without interlocking machine having electric optical photo sensor 64 and 72 axes match and PLC switch operating command, upper jig front right door and feedback the	Resolution No. 14 of February 19, 2020	0	31/12/2021
8477.80.90	Ex 567	Machines for wrapping and folding TPO (Thermoplastic Olefin - olefin thermoplastic elastomer) on top automotive rear door, fitted with fan 60Hz 380V 2.6A, hot air blower resistance 9900W 15.8A 380V, 22V 30W 350W halogen lamps 16A, source three-phase power, 380V, 60HZ, 60A with or without interlocking machine having electric optical photo sensor 64 and 72 axes, start switch and operating control PLC top of the feedback from the right rear door and	Resolution No. 14 of February 19, 2020	0	31/12/2021
8477.80.90	Ex 568	Machines for heat treatment and crystallization of plastic preforms neck screw up to 113mm in diameter and capacity of up to 4L, intended for the filling process hot pasteurized (95 degrees Celsius) and prepared for the use of metal caps, fitted power system and output rotating media in a ventilated tunnel, crystallization ability to	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.10.90	Ex 075	laminating Coating Machinery / lamination with double lamination / coating to the front and back of the fabric, automatic tracking system for coating printed films with two-sided printing, double system of screw / barrel with 95mm and L / D ratio 33: 1 with dual array, double set of unwinding for printed films, double set of unwinding not laminated material, double calender lamination with silicone rollers, double system of gear pump for mass pressure control threads alignment system for input and output of the fabric, maximum production speed of 236m / min range width of the material 200 to 800mm wide range of lamination of 0.012 to 0.05 mm	Resolution No. 14 of February 19, 2020	0	31/12/2021

8479.20.00		Combinations machines for performing the glycerolysis process continues composed of: 3 batch reactors in vertical cylindrical tank with domed ends shaped (elliptical, ratio 2: 1) working at temperatures up to 220 degrees Celsius; 3 heat exchangers and tube type hull sized to circulate the heat transfer fluid to 280 degrees Celsius; 3 heat exchangers and tube type hull sized to cool the product 207 to 100 degrees Celsius; 1 with the heat exchanger shell and tube type (double) sized to carry the recycling process heat through the product outlet 220 of the cooling to 92 ° C is 65 to heat the incoming product to 180 degrees Celsius; 1 heat exchanger tube type hull and dimensioned to heat the incoming oil 120-220 degrees Celsius using thermal fluid at 280 degrees Celsius; 1 heat exchanger type shell and tube dimensioned		0	31/12/2021
		solids mixers and liquids for the production of thermoplastic compounds (masterbatch) with detachable tapered containers to avoid contamination of the color, movable on wheels, with a double wall for cooling and made of stainless steel, with a total volume within the range of 150 to 2000 liters, production capacity in the range of 60 to 800g / load with motorization in the range of 11 to 90 kW, exhaust system truck, exhaust system and the touch panel (touchscreen) with programmable logic controller (PLC)	Resolution No. 14 of February 19, 2020		
8479.82.10	Ex 243	Mixers made of stainless steel with electric excitement of plastic bags for biotechnological processes, with a maximum nominal net working volume of up to 2.000L, with stirring speed of 20 to 356rpm, with operator control screen type touch panel "touchscreen "with sensors and pinch valves, load cells, heating and cooling system dedicated to maintain the fluid between 2	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.82.10	Ex 244	industrial vertical agitator assembly procedure in hot water, to liquefaction process in ethanol production step from maize, weighing 1.820kg, downforce applied to the 17.800N with dynamic torque to 14.700Nm, dynamic variable time up to 7.690Nm mounted on shaft 120mm, two-bladed impellers 6, drive motor 7,5HP and	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.82.10	Ex 245	industrial vertical mounting mixers in hot process water, to liquefaction process in ethanol production step from corn, mounted on shaft 102mm and spindle speed of 41rpm, has an axial impeller of four blades and impeller two radial blades 25HP drive motor, rotation 1.800rpm, 440V voltage.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.82.10	Ex 246	industrial vertical agitator assembly procedure in hot water, to liquefaction process in manufacture of ethanol from corn step, 140mm mounted on shaft and shaft speed 4,4rpm, radial impellers 7 of two blades, two vertical blades, the drive motor 10HP, rotation 1.800rpm, 440V voltage.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.82.10	Ex 247	Reactors for homogenizing, emulsifying and stir liquid materials and semi-solids for the manufacture of cosmetic and pharmaceutical products with wide viscosity range; emulsions with distribution of 50% resulting in particles / droplets less than 0.76 microns; conical bottom that lets you work with a minimum volume of 50 L vessel, product recirculation system, maximum volume 2.000L vessel, built in 316L stainless steel; with stirrer anchor-shaped, with mixing paddles in the vertical direction (drawing CIP) provided with lateral scrapers PTFE, vessel equipped with double jacket for heating and cooling the product, with positive and negative pressure system, automatic lid opening through mechanical system, weight control, load cells, product temperature control, vacuum system with a vacuum pump of liquid ring to prevent foam product and the CIP cleaning system (clean		0	31/12/2021

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8479.82.90	Ex 183	Crushers combined forest waste, furniture or	1	0	31/12/2021
		mats mounted on tires, weighing not less	2020		
		than 46.000kg, equipped with pre crusher			
		and crusher system high speed on the same			
		machine; diesel engine with a power exceeding 650HP; pre crushing rotor 42			
		equipped with teeth, length 3,000 mm,			
		diameter 600 mm; crushing rotor hammers			
		weight above 2,500 kg, a width of 1.750mm,			
		1.100mm diameter; sieve classification with			
		ferrous separator between the pre crusher			
		and crusher; central automatic lubrication;			
		chassis with folding conveyor belt automatic			
		lubrication; Folding frame with integrated			
		conveyor for discharge of crushed material			
		with ferrous separator mounted on the belt;			
		command via remote control or directly on			
		the programmable logic control panel (PLC)			
		integrated, which has operating routines			
8479.89.11	Ex 155	pressing automatic presses automotive	Resolution No. 14 of February 19,	0	31/12/2021
		brake guide device ESC type (Control	2020		
		Electronic stability) with programmable logic			
		controller (PLC), operating interface via			
		remote access server called Terminal			
		Server (TS) and supervisory system called			
		"Cell Computer" consisting of: one pressing			
		station, pneumatic cylinder 1 with a total			
		travel of up to 60mm and pressing force of			
		1,178N to tightly control by load cell and			
		ongoing control operation by sensor, with			
		RBC calibration station 1 automatic			
		monitoring of the pressing force analysis via			
		guide device and of course with automatic			
		segregation to nonconforming product,			
		automatic systems to check the presence of			
		the before pressing guide device, automatic			
		loading pallet with the sync block of sensors,			
		one station pallet transfer with the valve			
		block during the pressing process performed			
		by linear motors, servos, one load cell ex tra			
		10kN interface for frequency amplifier and			
		pressing tool for the guide device.			
8479.89.11	Ex 156	automatic compression rotary machines with		0	31/12/2021
		free rotation of 360 degrees, for the	2020		
		manufacture of pharmaceutical tablets by a			
		punch compression segments capable of			
		processing compressed single or double			
		layer by means of automatic rotary filling			
		wheel with the possibility of automatic			
		compression small amounts and direct			
		extrapolation of mono- and double-layer			
		tablets, with a production capacity of			
		135,000 and 1.080.000comprimidos / h force			
		in the areas of precompression and			
		compression 100kN, can operate with			
		interchangeable rotors with 75 punches for			
		manufacturing stations tablets maximum			
		dimensions of 18 x 8.5 mm (diameter x			
		thickness), the rotor diameter 680mm,			
		maximum depth 25mm segment, tooling			
		support consisting of upper and lower			
1	I	punches and EU19 type FS19, punch body			
		l'			
0.470.00.55	F 65-	diameter of 19mm.	Deceliate N. 44 45 1		0111010-
8479.89.99	Ex 925	Double washing machines with free heights	Resolution No. 14 of February 19,	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks,	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's profile with stainless steel blade with two	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's profile with stainless steel blade with two electric fans tilting each of 5,5kW in three	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's profile with stainless steel blade with two electric fans tilting each of 5,5kW in three positions with wash wheel brush or	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's profile with stainless steel blade with two electric fans tilting each of 5,5kW in three positions with wash wheel brush or brushless optional that consists of three	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's profile with stainless steel blade with two electric fans tilting each of 5,5kW in three positions with wash wheel brush or brushless optional that consists of three rotating high pressure jets that strike the	1	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's profile with stainless steel blade with two electric fans tilting each of 5,5kW in three positions with wash wheel brush or brushless optional that consists of three rotating high pressure jets that strike the entire surface of the tire, the inner part of the	2020	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's profile with stainless steel blade with two electric fans tilting each of 5,5kW in three positions with wash wheel brush or brushless optional that consists of three rotating high pressure jets that strike the entire surface of the tire, the inner part of the wheel housing and the fender with or without	2020	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's profile with stainless steel blade with two electric fans tilting each of 5,5kW in three positions with wash wheel brush or brushless optional that consists of three rotating high pressure jets that strike the entire surface of the tire, the inner part of the wheel housing and the fender with or without the optional rinsing bottom of the chassis at	2020	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's profile with stainless steel blade with two electric fans tilting each of 5,5kW in three positions with wash wheel brush or brushless optional that consists of three rotating high pressure jets that strike the entire surface of the tire, the inner part of the wheel housing and the fender with or without the optional rinsing bottom of the chassis at high pressure with rotary heads, with or	2020	0	31/12/2021
8479.89.99	Ex 925	Double washing machines with free heights of 2.3 and 2.5m washing equipped with frequency inverters 4, consisting of two porticoes with photocells barrier for profile detection of any type of vehicle including trucks, vehicles with "Saint Antonio "and maritime top down, sirens and roof racks, with high-pressure kit on wheels, side and horizontal with car profile contour with horizontal drying that surrounds the car's profile with stainless steel blade with two electric fans tilting each of 5,5kW in three positions with wash wheel brush or brushless optional that consists of three rotating high pressure jets that strike the entire surface of the tire, the inner part of the wheel housing and the fender with or without the optional rinsing bottom of the chassis at	2020	0	31/12/2021

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8479.89.99		oil-hydraulic applications, equipped with USB interface and connections to the main protocols of industrial networks; interface through digital and analog signals with predefined functions to enable and disable operation, pressure control / flow with automatic speed adjustment to adjust as oil demand to reduce energy consumption; with maximum flow of 35L / min, maximum working pressure of 240bar, power comprised between 1.5 to 4 kW, voltage of 380 to 480V, maximum noise level of 75dB, the cooling system for the motor and fluid and to 2kW " LED "fault indicator, suitable for industrial applications	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.89.99	EX 927	Machines for processing of soap in small scale bar for pre-production laboratory tests in a single block, with a production capacity of up to 100kg / h, equipped with: mixer thumbnail simple beater extruder single screw manual cutter and press.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.89.99	Ex 928	Semiautomatic machines powder filling	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.89.99	Ex 929	Air arrangements for closing emergency, used in water or sewage treatment plant, equipped with a control panel, four pneumatic actuators closing fast up to 5s for closing two batteries with two cylinders with	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.89.99	Ex 930	continuous assembly machinery heat exchangers hives for motor vehicles, complete machine, with 65colmeias production capacity / h, provided with: automatic loading pipe system, the pipes rolling device for forming the matrix (honeycomb) with fins, drive device mounting table, cradles for manual feed of the side plates and the collectors, with	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.89.99	Ex 931	Machines for assembling and automatic adjustment of internal components of diesel fuel injectors of the "common rail", with approximate automation level of 90%; capable of: measuring the internal distance of the whole experimental group to define the value of current microns; calculating the thickness adjustment disk for insertion into the experimental group; check the misalignment of the armature plate in relation to the armature disk; 3 provided with probes for probing with 0.1 micron resolution at 120 degrees distance measuring circle diameter of 15 ± 0.1 mm for distance between two positions of the armature plate; together with measuring forces mounted on four poles with different values ranging from 0.3 to 250N	•	0	31/12/2021
8479.89.99	Ex 932	Portable or soil spraying with pressurized manual or compressed air, plastic or carbon steel plate, reservoir up to 100L, with an operating pressure of 10 to 300psi with seal "Viton" or NBR, with or without: Regulator pressure trigger and hose.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.89.99	Ex 933	Device hydraulic cutting lines / electrical carbon steel, SDSS 25 Cr, 13 Cr or nickel alloy SMSS, cutting lines to 8 hydraulic / electric, for pressures between 0 and 7,500psi and temperatures between 4 and 125 degrees Celsius, for use in oil wells.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.89.99	Ex 934	Additive manufacturing machines for 3D printing metal fusion selective laser metal powder layer by laser YTTERBIO with 400W and wavelength of 1,060 to 1.100nm, with lenses "f-theta" for automatic correction of focus, with platform production of 250 x 250 x 325mm, very generation system with nitrogen, argon or nitrogen gas flushing chamber by nitrogen, recirculation system for self-cleaning filters, glass scale for axis z motion control, with less than or equal repeatability ± 0,005mm, for production of parts in titanium, stainless steel, cobalt chrome, inconel, tungsten, steel, tools and	Resolution No. 14 of February 19, 2020	0	31/12/2021

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8479.89.99	Ex 935	Combinations machines for processing of	Resolution No. 14 of February 19,	0	31/12/2021
		soap bars with a nominal capacity of up to	2020		
		500 kg / h composed of: double sigma mixer			
		with a capacity equal or higher than 100kg /			
		batch with automatic unloading; single screw			
		extruder with refining; cylinder 3 noodle			
		laminating rollers; finishing extruder single			
		screw with two stages; vacuum chamber;			
		automatic cutter bars; conveyor belts; bars			
		to press tablets by PLC controlled with heat			
		exchanger with 17.300kcal / h cooling			
		capacity; embrulhadeira with soap with			
		sealing for resistance to speed up			
		150sabonetes / min; soaps with automatic cartoning machine for packaging folded and			
		/ or glued, to speed up 230sabonetes / min;			
		soaps with automatic packer for packaging			
		film BOPP or PVC, with a sealing element			
		which is up to speed			
8479.89.99	Ex 936	Fully automatic wire processing machines	Resolution No. 14 of February 19,	0	31/12/2021
		for cutting multi-veins electrical cable (2-13)	2020		
		stripping internal and external coating can			
		crimp terminals on both sides with cable			
		processing capacity of up to 7 mm diameter,			
		provided with panel control with touch			
		screen; detector wireless system, terminals			
		and air pressure; module to cut out the			
		programmed length not less than 120mm,			
		cut with precision of 0.5 mm; disbarkt			
		module outer skin length of 30 to 160mm,			
		internal coating disbarkt 0 to 8mm in length;			
		terminal crimping module with power 2t.			
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8479.89.99	Ex 937	conformadoras fully automated electrical	Resolution No. 14 of February 19,	0	31/12/2021
		coils machine with electric-pneumatic	2020		
		operation without using hydraulic assembly			
		controlled by the PLC, designed for opening			
		of "loops" in the classic formats, 'coil flat'			
		(flat coil) and trapezoidal, consisting of two			
		sets installed in welded profiled structure,			
		each having: car with the edge clamp, rear			
		arm with grippers for the straight part of the			
		coil, the front claw arm to the straight part of			
		the coil, arcuate tooling together to shape			
		the curve of the coil; electrical cabinet and			
		control panel; protective barriers consist of			
		physical fence and a light barrier; may or			
		may not contain specific tooling sets for:			
		final clips, staples groove part, including end			
		grip removable and exchangeable pins,			
		straight portion of the claw ray formation,			
		gripper devices for locking the involute portion (curve) and molds			
8479.89.99	Fx 938	Combinations of machines intended for the	Resolution No. 14 of February 19,	0	31/12/2021
0473.03.33		biological treatment of effluents previously	2020	· ·	01/12/2021
		treated with nominal flow of the effluent			
		6.568m ³ / h maximum hydraulic flow 7.173m			
		³ / h for mounting in concrete tanks 2,			
		composed of: air diffusion system			
		constructed in stainless steel; fine bubble			
		diffuser type membrane made of rubber /			
		silicone mounted "grids" of stainless steel			
		aeration and fed by special rubber hoses;			
		three automatic equipment for separating			
		and removing suspended solids 70m in			
		diameter equipped suction arms in which the			
0.470.00.00	F 222	cottled activated cludge is collected			04/40/202
8479.89.99	Ex 939	Combinations of machines for removal of	Resolution No. 14 of February 19,	0	31/12/2021
		COD in wastewater, with nominal capacity of	2020		
		6.488m³ / h maximum hydraulic flow 7.068m			
		3 / h for receiving wastewater containing			
		COD load 260mg / L, composed of:			
		automatic equipment mixers (from			
		Flocculators); Automatic equipment DAF			
	1	(Dissolved Air Flotadores) and their			
		accessories for COD removal, to ensure			
		190mgDQO COD / I; 3 flocculation units,			
		where mixers are installed, one in each			
		chamber; a static mixer in the pipe between			
		flocculation and DAF unit; 3 floaters units			
		dissolved air (DAF), where the combination			
		of scrapers and bottom surface; dispersion	İ		
		l			
		chamber; drive mechanism; Well float;			
		l			

8479.89.99	Ex 940	Marking machines and test matrices and thermoplastic injection molds capable of pressing, suspend, open and turn the dies and molds, equipped with fixed and remote control panel for safety and operation, antifall device, maximum capacity of 300t equipped with two tables, an upper swivel 180 degrees and the other for lower sliding movements in the horizontal direction, both sizes of 3000 x 2200 mm, capacity up to 100t mold open time to 2.300mm, 500mm stroke reversal angle 180 degrees descending speed 120mm / s velocity pressure 15 5 mm / s, increasing speed 120mm / sec, the unit value (CIF) not exceeding US \$ 1.249.534.20	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.90.90	Ex 306	Mechanisms of rotation of photovoltaic panels, for exclusive use in solar an axis followers (trackers) able to rotate rows of 90 photovoltaic panels maximum rotational range of up to 120° (± 60°) and maximum torque ± 300 Nm, resistance grounding between the collar and the flange of the smaller base than 0.1 ohm DC current in 25A, according to UL2703 standard, which ensures shielding mechanism operation for 30 years without requiring maintenance, and galvanized hot with a minimum thickness of	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.90.90	Ex 307	Fasteners and thermal expansion of the torque tube of photovoltaic panels, for exclusive use in solar trackers an axis (trackers), designed to withstand winds up to 130 mph (209km / h) and the maximum thermal expansion of up to 35mm tube, and subjected to surface treatment layer of at	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.90.90	Ex 308	cylinder handlers to assist in the removal and safe handling of large hydraulic cylinders (lift cylinders and front suspension and / or rear) of heavy machinery and vehicles, containing steel cords with adjustable tension, telescopic arm to reach adjustment, quick hitch "quick-hitch" for connecting multiple devices with tilting edge, and secure loading capacity of 2,000 kg at	Resolution No. 14 of February 19, 2020	0	31/12/2021
8479.90.90	Ex 309	Device (JIG) for positioning / support, suitable for printed circuit boards mounted or batteries, or electrical / electronic components or parts of cellular phone or "tablet" or mobile device or "tablet" mounted, made of plastic and / or metal, and may contain, pneumatic mechanism, covers, inserts, attachments, used as a guide in an electronic apparatus assembly process, part	Resolution No. 14 of February 19, 2020	0	31/12/2021
8480.71.00	Ex 181	bipartite molds with or without sliding table with fastening clamps of the raw material for molding automotive instrument panel TPO (Thermoplastic Olefin - thermoplastic olefin elastomer), by electro-forming and compressing process (vacuum mold) measuring the concave side 1,004 x 1.250 x 413mm and the convex side 1,004 x 1,250 x 295mm, process temperature between 80 and 150 degrees Celsius and containing in their body limit switch, ejector air cylinder connector (housing), check valve, safety valve, temperature controller, vacuum gauge, terminal box, air pipes, mold ejector cylinder, clamps and pressure gauges.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8480.71.00	Ex 182	Kits (kits) custom male made of steel and / or steel / carbon to injection mold preforms of polyethylene terephthalate (PET), composed de132 injection males, 132 injection males tubes and 132anéis injection males of unit value (CIF) not exceeding US \$	Resolution No. 14 of February 19, 2020	0	31/12/2021
8481.40.00		Safety valves 2.800pol, 410-13Cr / 4140/4130 high strength with personalized butterfly mechanism 450 and MP35N alloy high strength, EN 6kpsi 0,049pol² hydraulic chamber and components in contact with the flow 9CR [80], 13Cr [80], 90 elastomers.		0	31/12/2021
8481.80.92	Ex 038	Solenoid valve with PWM system (pulse width modulation) type 2/2 CN pathways (normally closed) to flow 3L / min flow factor Kz 0.14 with IP67 protection protocol and maximum pressure working 12bar, used in	Resolution No. 14 of February 19, 2020	0	31/12/2021

8481.80.99	Ex 095	Safety valves, aluminum, or not	Resolution No. 14 of February 19,	0	31/12/2021
		reconnectable reconnectable to steam recovery or not, input connection and output 1/2 to 2 inches, with a maximum free flow	2020		
8481.90.90		electromechanical devices operated in voltage value from 110 to 240Vac with plastic housing and equipped internally with movable piston extension up to 8mm and strength to 100N activated by thermal expansion / contraction of wax contained in a	Resolution No. 14 of February 19, 2020	0	31/12/2021
8483.40.10		Gear Boxes for multiplication rotation and torque transmission for application in wind turbines with a planetary stage and two-stage parallel with 17,9rpm rated speed input, a speed multiplication ratio of 1: 79.895, oil capacity to 350L, with nominal torque 1.691kNm input and rated mechanical power 1.874kW maximum dimensions of 2.279 x 2.255 x 1.595mm, maximum weight of 14.433kg, maximum	Resolution No. 14 of February 19, 2020	0	31/12/2021
8483.40.10		Gear Boxes with aluminum housing, between 1.6 and 2,1kW power, input rotation between 7,000 and 9.000rpm and reduction ratio of 1.4: 1 implemented in hand-operated tools did not self-propelled type trimmers.		0	31/12/2021
8483.40.90	Ex 210	Steel gears responsible for transmitting rotation and torque of an electric motor shaft to a spindle of steel, equipped with a pinion and a crown bevel gear type helical or inclined straight, with transmission angular shape through the drive shaft movement and lagged second axis at an angle of 90 degrees, mounting height of between 9 and 30mm, gear module between 0.80 and 1.7, used in electrical hand tools.		0	31/12/2021
8483.40.90	Ex 211	the pinion shaft steel gears for motion transmission and torque between the spindle motor and the tool holder, with spur gear machined in the body, with accuracy class and standard quality equal to 9, outer diameter of the teeth of 14,423 mm, shaft length of 74,8mm and gear length 18mm, used in electrical hand tools.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8501.52.90	Ex 017	Aerostatic bearings with direct drive, equipped with synchronous motor "encoder" with rotary 2.048pulsos, maximum speed up to 6.000rpm, maximum torque of up to 5 Nm, maximum current up to 9,7A, radial and axial runout 0.05 and 0, 1 micron respectively.		0	31/12/2021
8501.52.90	Ex 018	Motofusos for machining ferrous and non- ferrous products with tool holder, equipped with synchronous and asynchronous drives, maximum speeds between 10,000 and 30.000L / min, power from 40 to 75kW, torque from 30 to 298Nm, external diameter between 190 and 250mm, 1 or two channels for the cooling-lubro connection with maximum pressure of 80bar interface for tools HSK63 cones HSK100, with	Resolution No. 14 of February 19, 2020	0	31/12/2021
8501.52.90	Ex 019	Linear motors fast "fasttool" used in equipment for machining ophthalmic surfaces, equipped with mechanical stroke of 30mm, a cutoff frequency of 400Hz, maximum speed up to 5.5 m / s maximum acceleration of up to 1,000 m / s², capable of reaches a peak power period and 1.379N to	Resolution No. 14 of February 19, 2020	0	31/12/2021
8501.52.90	Ex 020	AC servomotors, synchronous with rotor permanent magnets, with natural cooling, forced refrigerated water or with rated speeds between 1,500 to 6.000rpm, rated powers from 0.05 to 34,2kW, static torques from 0.18 to 125nm, shaft height from 20 to 100 mm, noise level between 55 to 70dB, degree of protection up to IP67, voltage levels up to 480VAC, equipped with encoders with a resolution of at least 24 bits to interface with other electronic devices such as controls numeric used in the	Resolution No. 14 of February 19, 2020	0	31/12/2021

8501.64.00	Ex 004	Alternating current generators of the type DFIG (doubly fed induction) with 6.000V voltage, maximum continuous speed 1.517rpm, equipped with magnetic stator core laminations formed of metal of low carbon silicon steel; coils formed by individually insulated copper wires; the rotor comprising a shaft made of carbon steel normalized, cooled air; connection rotor-stator star-like star; Cooling system type IC-21 with internal air flow [m³ / s] 4 (a 1.444rpm) and an operating temperature of 30 degrees Celsius to less than or equal to 45 degrees Celsius; corrosion protection C4 / H according to ISO 12944 standard; IP34 protection against dust factor; Maximum secondary voltage 825V in the rotor; Maximum rated current of 580A (rms); maximum secondary current of 2.200A (rms); The vibration 1.5mm / s rms; 40.600Nm nominal torque.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8503.00.90	Ex 027	ballast chamber comprising two ends polyurethane interconnected by web material of glass fiber and epoxy resin composite inner tube and PVC, with a view to adding to the polyurethane mass balancing weight ranging from 0.1 to 10, 5kg, height between 0.1 and 324 mm, width between 0.1 and 501mm and a length between 0.1 and 1200 mm delimited exclusively for wind blades.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8503.00.90	Ex 028	rotor and stator assemblies to package / thickness of (20 to 70mm) for making asynchronous motors with air cooling, power of 120 to 552W, frequency 50 or 60Hz, the 1.800rpm.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8504.40.30	Ex 015	DC Power Converters elevator door control, 110 / 220V voltage to 24 volts, with a current 2 x 2.5 amps and power 120W.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8504.40.50	Ex 002	electronic frequency converters for variable speed electric motor with servo amplifier with optical fiber communication interface FSSB type with dynamic braking module, DC 24V, with a voltage power supply 400Vac (3-) with continuous output of 60kW, 70kW maximum output and peak	Resolution No. 14 of February 19, 2020	0	31/12/2021
8504.40.50	Ex 003	electronic frequency inverters for variable speed electrical power permanent magnet motors up to 2.2kW for traction elevators, with interface for configuring keyboard using RS-485 communication, internal programmable logic (PLC), three-phase output to the motor min 200V and maximum 240V at frequency of 50 to 60Hz with a maximum 11A current output to brake resistor connection to expansion module encoder, single phase input of at least 200V and a maximum of 240V at least 12 digital inputs and three inputs analog, CAN communication port, IP20 degree of	Resolution No. 14 of February 19, 2020	0	31/12/2021
8504.40.90	Ex 057	Inverter current to direct current conversion ac 2 levels, DC / AC, bipolar modulation and H-bridge topology, the power range 8.100W maximum peak and the maximum input voltage of 600Vdc up with a minimum input voltage 100Vdc, operating temperature of -25 to 60 degrees Celsius, with an efficiency of at least 97.2%, 32A maximum output current and the maximum rated output until	Resolution No. 14 of February 19, 2020	0	31/12/2021
8504.40.90		Modules power static converter with AC input 85 to 305V DC or 100 to 430VDC and 167mA output current, + 12V output and maximum output of 2W output with overcurrent protection, overvoltage and short output circuit 74 efficiency % at full load, "ripple" of 150mvpp maximum output voltage, operating temperature of -25 to 85		0	31/12/2021
8504.40.90	Ex 059	static power converters 2 levels, DC / AC, bipolar modulation and H-bridge topology, 100Vdc Vmin, Vmax VSTART and 125VDC 600Vdc Ica max 32A, Smax 7,68KVA, F / C, 240Vac.	Resolution No. 14 of February 19, 2020	0	31/12/2021

8504.40.90	Ex 060	Inverters for photovoltaic energy systems	Resolution No. 14 of Februar	y 19,	0	31/12/2021
		(solar), single phase connected to the	2020		1	
		network "on-grid", performing DC conversion			1	
		into alternating current in the power range of			1	
		DC 5880 to 8.100W, working with maximum			1	
		operating DC voltage of 550V, until the			1	
		starting voltage 100V, provided up to two			1	
		charge controllers (MPPT) control to 1			1	
		"strings" by MPPT with surge protection			1	
		device (SPD type II on the DC side, the			1	
		maximum efficiency 98.4% with the scaling			1	
		factor inverter (overhead) up to 140%, IP65			1	
		· · · · · · · · · · · · · · · · · · ·			1	
		screen "display" LCD, operating temperature			1	
		of -25 to 60 degrees Celsius disconnector			1	
		integrated continuous current, nominal			1	
		output voltage alternating current to 300Vca,			1	
		frequency of 50 / 60Hz, adjustable power			1	
		factor (0.8 to 1 capacitive or inductive), and			1	
		may contain interfaces RS485 / USB / Wi-Fi			1	
0504.40.00	F., 004	/4G / RF.	Deschution No. 44 of Cohmun		_	24/40/0004
8504.40.90	EX 001	Inverters for photovoltaic energy systems	Resolution No. 14 of Februar	y 19,	0	31/12/2021
		l` ''	2020		1	
		network "on-grid", performing DC conversion			1	
		into alternating current with maximum power			1	
		at recommended DC 10.500W, working with			1	
		maximum operating DC voltage of 550V,			1	
1		starting voltage up to 100V, equipped with				
1		up to 2 charge controllers (MPPT) control up				
		to 2 "strings" input, minimum efficiency of				
		98.4%, natural cooling system, IP65			- 1	
		protection, screen "display "LCD, operating			-	
1		temperature of -25 to 60 degrees Celsius				
		disconnector integrated into direct current			-	
		(DC switch), the nominal output AC voltage				
		of up 280Vca, frequency of 50 / 60Hz,			1	
		adjustable power factor (0, 8-1 inductive or			1	
		capacitive), and may contain RS485 /			1	
		RS232 / WIFL / GPRS / 4G / LAN / FR			1	
8504.40.90	Fx 062	Inverters for photovoltaic energy systems	Resolution No. 14 of Februar	v 19.	0	31/12/2021
	-/ -/ -/ -		2020	, ,	Ĭ	0 17 1 27 20 2 1
		network "on-grid", performing DC conversion			1	
		into alternating current in the power range			1	
		from 3,900 to 6.500W, working with			1	
		maximum operating voltage in DC 550V,			1	
		starting voltage up to 100V, equipped with			1	
		up to 2 charge controllers (MPPT) control up			1	
		1 · · · · · · · · · · · · · · · · · · ·			1	
		to 2 "strings" input each, 97.6% efficiency at			1	
		least natural cooling system, IP65			1	
		protection, screen " "display LCD, operating			1	
		temperature of -25 to 60 degrees Celsius			1	
		disconnector integrated into direct current			1	
		(DC switch) AC rated output voltage of up to			1	
		240V ac, frequency of 50 / 60Hz, adjustable			1	
		power factor (0, 8-1 inductive or capacitive),			1	
		and may contain RS232 / RF / Wi-Fi / LAN /			1	
8504.40.90	Ev 062	GPRS	Possilition No. 14 of Echrica	v 10	0	31/12/2021
0504.40.90	EX 003	phase frequency inverter type "on-grid" with	Resolution No. 14 of Februar	y 19,	١	31/12/2021
		nominal power output of 60.000W topology	2020			
		without transformer with forced cooling				
		(fans) with cc key with operating temperature			- 1	
1		from -25 to 60 degrees Celsius maximum				
		input voltage for "strings" of 1.000V and				
1		minimum drive voltage 200 ~ 25V,				
		equipment provided with three MPPT (s)			- 1	
		with 4 input (s) and by MPPT maximum input			-	
		current in each MPPT 40A. nominal output			-	
		voltage for mains 380V, the output frequency			-	
		of 50/60 (+ 5%), maximum output current			-	
		output 95 of the power factor of 0.8 (late) ~			-	
		0.8 (early) with less than 3% harmonic			-	
		distortion maximum efficiency 98.6%			-	
		protection system composed of leakage			-	
		current (aC) ground fault protection, anti-				
		islanding protection, overvoltage protection				
		(cc), overload protection (cc) overload				
<u></u>	L_	protection (CA), reversal protection				
8504.40.90	Ex 064	Inverter for photovoltaic application, three-	Resolution No. 14 of Februar	y 19,	0	31/12/2021
		phase, assigned to 75.000W or rated power	2020			
		and the maximum input power into direct			-	
		current (DC) up 112.500W with one			- 1	
		maximum power point inputs (MPP) 1			-	
		entrance and independent "string" MPP,			-	
		maximum input current to direct current (dc)			-	
	I	of 140A, environmental condition class				
		ior raori, orivirorimental contatton dass				
		according JEC60721-3-4 K4H / 474 / 4P2 /		ı		
		according IEC60721-3-4 K4H / 4Z4 / 4B2 /				
		AS3 / 4M2 / 4C2 typical 58dB noise				
		AS3 / 4M2 / 4C2 typical 58dB noise emission, the lower self-consumption night				
		AS3 / 4M2 / 4C2 typical 58dB noise				

8504.40.90	Ex 065	Inverter for photovoltaic application, AC, for mounting on the ground of assigned or 50.000W rated power and the maximum input power into direct current (DC) up 75.000W with minimum input voltage 150V continuous current, with 6 maximum power input point (MPP) and 2 independent entries "string" MPP, environmental condition class 4K4H according IEC60721-3-4, which lower sound emission 65dB typical, self-consumption of night 4,8W equipped with "SUNCLIX "for cable connection in DC, Wi-Fi communication included and rainwater	Resolution No. 14 of February 19, 2020	0	31/12/2021
8504.40.90 8504.40.90		Three-phase inverter frequency "on-grid" with 15.000W power without transformer topology, with passive cooling method (no fans) and hybrid (sinks + fans) with intelligent control, operating temperature of -25 to 60 degrees Celsius LCD for operation, weight 58.2 to 63kg, providing IP65 (protection against dust and water jets) and lower operating noise 30db, RS 485 communication ports and Wi-Fi stick, models with 2 trackers maximum power point (MPPT) and maximum input 1000 1.100V direct current, efficiency between 97 to 98.1%, with a minimum current input voltage of 200Vdc continues with output range at AC 160 at 285Vac, with a nominal voltage of 220 to 240Vac, with operation at 50/60 Hz power factor and supplying on one option to change, meeting the standards IEC62109-1 / -2. AS3100. EN61000-6-1.	Resolution No. 14 of February 19, 2020 Resolution No. 14 of February 19,	0	31/12/2021
6504.40.90	EX 067	systems (solar) connected to the network "on-grid", performing DC conversion into alternating current in the power range of 25,000 and power management delivered to the grid, working with maximum operating DC voltage of 1.000Vcc and 580Vcc starting voltage, provided with: one (1) maximum power point slave device (SPMP) controlling up to six "strings" input with the scaling factor inverter (overload) 140-150 % active cooling system (cooler by forced ventilation), IP66 degree of protection, LCD display, operating temperature of -25 to 60 degrees Celsius disconnector integrated continuous current, lightning protection (DPS) type 1 + 2 direct current and integrated fuse holder, integrated Wi-fi communication, API interface and Modbus communication protocol (TCP or RTU), inputs and outputs	2020	0	31/12/2021
8504.40.90	Ex 068	Inverters "strings" AC for photovoltaic application "range" of between 30 and 50kW power to DC voltage conversion produced by photovoltaic arrays to AC voltage for feeding the loads and synchronizing with the utility grid voltage of 220V AC at 60Hz.		0	31/12/2021
8504.40.90	Ex 069	Three-phase inverter frequency "on-grid" with 30.000W power without transformer topology, with passive cooling method (no fans) and hybrid (sinks + fans) with intelligent control, operating temperature of -25 to 60 degrees Celsius LCD for operation, weight 58.2 to 63kg, providing IP65 (protection against dust and water jets) and lower operating noise 30db, communication ports RS 485 and "Wi-Fi stick" models 2 trackers maximum power point (MPPT) and maximum input 1000 1.100V direct current, efficiency between 97 to 98.1%, with a minimum current input voltage of 200Vdc continues with output alternating current range 160 to 285Vac, with a nominal voltage of 220 to 240Vac, with operation at 50/60 Hz power factor and supplying on one option to change, meeting the standards IEC62109-1 /-2. AS3100. EN61000-6-1. EN61000-6-3.		0	31/12/2021

0504.40.00	Ev 070	three phase investors for all standards	Desclution No. 44 of Eshaver 40		24/40/0004
8504.40.90	E X 070	three phase inverters for photovoltaic energy systems (solar) connected to the network	Resolution No. 14 of February 19, 2020	0	31/12/2021
		"on-grid", performing DC conversion into	2020		
		alternating current in the power range from			
		27.000W and management of energy			
		delivered to the grid, working with maximum			
		operating voltage current continuous			
		1.000Vcc and 580Vcc starting voltage, provided with: one (1) maximum power point			
		slave device (SPMP) controlling up to six			
		"strings" input with the scaling factor inverter			
		(overhead) 140 to 150% active cooling			
		system (cooler by forced ventilation), IP66			
		degree of protection, LCD display, operating			
		temperature of -25 to 60 degrees Celsius disconnector integrated continuous current,			
		lightning protection (DPS) type 1+ 2 into			
		direct current and integrated fuse, integrated			
		Wi-Fi communication interface API and			
		Modbus communication protocol (TCP or			
8504.40.90	Ev 071	RTU), inputs and outputs three phase inverters for photovoltaic energy	Resolution No. 14 of February 19,	0	31/12/2021
0504.40.90	EX 07 1	systems (solar) connected to the network	2020	U	31/12/2021
		"on-grid", performing DC conversion into			
		alternating current in the power range from			
		12,500 to 20.000W and management of			
		energy delivered to the grid, working with			
		maximum operating voltage 1.000Vcc in DC			
		and starting voltage 200Vcc, equipped with:			
		two (2) followers of the maximum power point (SPMP) controlling up to three (3)			
		"strings" input each, and inverter sizing			
		factor (overhead) of 150% active cooling			
		systems (forced ventilation), IP66 degree of			
		protection, LCD display, operating			
		temperature of -40 to 60 degrees Celsius			
		disconnector integrated into direct current,			
		integrated communication via WiFi system			
		interface API and Modbus communication protocol (TCP or RTU), digital inputs and			
		outputs (IOs) to configurable power			
		management, rated output voltage			
8504.40.90	Ex 072	three phase inverters for photovoltaic energy	Resolution No. 14 of February 19,	0	31/12/2021
		systems (solar) connected to the network	2020		
		"on-grid", performing DC conversion into			
		alternating current in the power range from			
		10,000 to 15.000W and power management delivered to the grid, working with maximum			
		operating voltage direct current in the range			
		of 600 to 1.000Vcc and starting the voltage			
		200Vcc 360Vcc, equipped with: 1 or 2			
		followers of the maximum power point			
		(SPMP), controlling or 6-3 "strings" input			
		each scaling factor the inverter (overload)			
		140-150%, active cooling systems (forced ventilation), IP66 degree of protection, LCD			
		display, operating temperature of -40 to 60			
		degrees Celsius, current disconnector			
		integrated continuous, and may contain			
		protection against lightning (DPS) Type 1 +			
		2 dc and integrated fuse, integrated			
		communication via WiFi system API			
8504.40.90	Ex 073	interface and communication protocol Inverter for photovoltaic application, three-	Resolution No. 14 of February 19,	0	31/12/2021
		phase, the nominal power assigned or from	2020	-	
		15,000 to 25.000W and the maximum input			
		power into direct current (dc) up 45.000W			
		with a minimum input voltage 150V			
		continuous current, with 2 inputs point			
		maximum power (MPP) and 3 independent inputs "string" MPP, environmental condition			
		class 4K4H according IEC60721-3-4, typical			
		noise emission 51dB, selfconsumption			
		overnight 1W equipped with "SUNCLIX" for			
		connecting cables current continuous, and			
		reactive power injection function (Q on			
		Demand 24/7), the unit value (CIF) not			
8504.90.40	Ex 004	disconnecting tetrahydro polar keys, 4P + 4P	Resolution No. 14 of February 19,	0	31/12/2021
		type, used in continuous current of up to	2020		
		1.800A in 1.500Vdc with screw fixing the			
		base mounting with unique static converters			
0504.00.10	F 22-	photovoltaic power generation.	Deschitte N. 44 (5)		04/40/222
8504.90.40	⊏ X 005	Breakers open box type, tripolar, with drives	Resolution No. 14 of February 19, 2020	0	31/12/2021
		and motor protection, coupled with protection relay, with standard assembly and	1		
		"Front" of input and output busses, with			
		capacity of 1.600A at 690Vac, with UL, for			
		exclusive mount static converters for			
ı		photovoltaic power generation.			

Ex. 000 Modular cabinots and flexible prover conditioning system compassible to with VLRs baseless and a state of the prover (Dual Feed without transformed without built-in traileries, developed line technology for replacement modules and batteries without shutdown (Hot-Svappable) Provided the provided batteries without shutdown (Hot-Svappable)		r=	<u> </u>	<u> </u>		
batteries and intrium-ion, suitable for data processing systems (data centers) with dat power (Dual Feor) without unanformer, without built-in betteries, developed the led through the state of the sta	8504.90.40	Ex 006	•	Resolution No. 14 of February 19,	0	31/12/2021
processing systems (data centers) with dual processing systems (alta centers) with out built-in batteries, developed the technology to replacement modulas and bottomers without shadown (Not-Swappable) exchanged to bottomers without shadown (Not-Swappable) exchanged to bottomers without shadown (Not-Swappable) exchanged the processing of the processing				2020		
power (Dial Feed) without transformer, without built-in batteries, developed the technology to replacement modules and builtones without shutdown (not-skeyapatio) containing static swich modules, superior energy communication carries that expending the property of the p						
without built-in batteries, dovoloped the technology for replacement modules and batteries without shuddown (Hot-Sweppable) and batteries without shuddown (Hot-Sweppable) and batteries without shuddown (Hot-Sweppable) and containing states which modules, upserior obdiavoliton, orgoning management incredig and professional communication cards that enable remote access, may contain from 4 to 10 modules with a normal power of 20 kW power input and voltage output and AC 200 with power input and voltage output and AC 200 modules with a normal power of 20 kW power input and voltage output and AC 200 modules with a normal power of 10 kW power input and voltage output and AC 200 modules with a common of the surface treatment of tools and functional parts of lower links with preheating select, nourtain themself the preheating select nourtain the selection of the selection of the load 4,000kg. 8514.40.00 Ex 012 Exciclanal has claration used the cardial of configuration of the load 4,000kg. 8514.40.00 Ex 012 Exciclanal has claration used to the load 4,000kg. 8514.40.00 It is configurated to the load 4,000kg. 8515.21.00 It is configurated to the load 4,000kg. 8516.21.00 Ex 101 Intensional for making the internal restrictorement of the left side or right body units composite automotive whetless cene or maximum load capability exceeding 20 kg and intendece to grow the selection of the load 4,000kg. 8516.21.00 Ex 102 Intended the selection of the load 4,000kg. 8516.21.00 Ex 102 Ex			ļ. , , , , , , , , , , , , , , , , , , ,			
bethnology to replacement modules and batteries without shutdown (Ho-Nexwappable) containing static switch modules, superior where the control of the contro			[· · · · · · · · · · · · · · · · · · ·			
batteries without shutdown (Hot-Swappable) containing state switch modules, superior exhaustion, ongoing management friendly energy consumption through graphical interface available in LCD screen (Ique) registrated interface available in LCD screen (Ique) integrated with support for optional communications cards that enable modules with a normal power of 20 kW power input and voltage output and AC 208 at 220V. 8514.10.10 Ex 087 industrial electric furnaces high pressure, semi-automatic, with vacuum look chamber quenching gas for the surface treatment of procheoling stock on put of the main foratment and procheoling stock on put of the main foratment and the procheoling stock on put of the main foratment and the semi-automatic and reatment of asthuriting low pressure loads up 4t, controlled with a remate control software with intograted processes recording data, with useful size of 1,000 x 1,000 x 1,500 mm, 420kW engine (Overdrive 630 kW) and gross weight of the load 4,000kg, which will be controlled with a remate units (beating) cooling by delectric induction, for compression molding or injection molding controlled with a remate units (beating) and the process of the section of the left side or right body units obsect, hydratic and interfaces 8515.21.00 Ex 191 functional for making the internal information of the left side or right body units obsect, hydratic and interfaces on the controller, with or without dresser electrodes by robot, with welding parameters for robot controller, with or without dresser electrodes by robot, with welding parameters for robot controller, with or without dresser electrodes by robot, with welding parameters for robot controller, with or without dresser electrodes by robot, with well-approaches to robot controller, with or without allowed to robot with a dishert of tor the welling robots to wild gardenic probots to wild gardenic probots to wild gardenic prob						
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quenching gas for the surface treatment of tools and knotional parts of lower links with proheating steel, neutral thermal treatment and treatment of carburizing low pressure loads up 4t, controlled with a remote control software with integrated processes recording data, with useful size of 1,000 x 1,000 x 1,000 x 1,500 mm, 420kW engine (Overdrive 630 kW) and gross weight of the load 4,000kg. 8514.40.00 Ex 012 Functional heat treatment units (heating / cocining) by dielectric induction, for compression modifier or injection modifiers or on room compression modifiers of 200 or 300, colling units closed, hydraulic and interface in the control of the compression modifiers of the control of	8514.10.10	EX 097		· · · · · · · · · · · · · · · · · · ·	0	31/12/2021
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software with integrated processes recording data, with useful size of 1,000 x			, · · · · · · · · · · · · · · · · · · ·			
data, with useful size of 1,000 x 1,000 x 1,500 mm, 420kW engine (Overdrive 630 kW) and gross weight of the load 4,000kg. 8514.40.00 Ex 012 Functional heat treatment units (heating / cooling) by dielectric induction, for compression molding, comprising: power induction generators 2.5 or 50 or 100 or 150 or 200 or 300, cooling units closed, hydraulic and interface units closed, hydraulic and interface inductions of the control of the compression of the control of the			•			
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comprising: power induction generators 25 or 50 or 100 or 150 or 200 or 300, cooling units closed, hydraulic and interface the state of						
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8543.30.90	Ex 043	Combinations of machines forming a functional unit for plating copper and chromium in steel cylinders for gravure printing, and finishing with the preparation, compared to the maximum length and maximum cylinder circumference 1.600mm 1.000mm, managed by programmable logic controller (PLC), composed of: two-cylinder loading stations 10 each stands; automatic washing unit and surface preparation (electrolytic degreasing); Copper plating unit; chromium electroplating unit; descromeação unit; polishing unit copper and chromium; unit of grinding, polishing and machining of copper-plated steel drums; Automatic handling and positioning system	Resolution No. 14 of February 19, 2020	0	31/12/2021
8604.00.90	Ex 068	continuous action machines for leveling, aligning, lifting and sleepers punch in railways, self-propelled, mounted on railway bogies equipped with a diesel engine cooled by water power equal or superior to 324kW, temperature monitoring system of the engine compartment, cabin Sound-insulating and front window with safety glass panel of tamping with processing capability for 1 or 2 for moving sleepers, tamping system with pressure vibration with 35Hz frequency and directional, linear oscillation gauge railway and speed of 1.435mm movement equal to 72,42km / h and / or 45mph.		0	31/12/2021
8604.00.90	Ex 069	regulatory machinery for distributing ballast and railway lines races with water-cooled diesel engine, wheel diameter of 730mm, 1.435mm gauge.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8609.00.00	Ex 024	rigid containers, closed type, to transport aqueous stabilized hydrogen peroxide, made of stainless steel, length of 20 feet with 4 bar of pressure and temperature from -40 to 130 degrees Celsius.		0	31/12/2021
8609.00.00	Ex 025	Isotanks 20 ft transport and cryogenic storage of liquefied natural gas (LNG), the inner tank stainless steel SA-240M 304, outer tank carbon steel vacuum insulation and insulating High includes load cryogenic valves, discharge, "boil-off "and security, geometric capacity 19,2m³, design pressure of 0,95MPa, 0,8MPa operating pressure, design temperature of -196 degrees Celsius operating temperature greater than or equal	Resolution No. 14 of February 19, 2020	0	31/12/2021
8609.00.00	Ex 026	Isotanks 40 feet to transport and cryogenic storage of liquefied natural gas (LNG), the inner tank stainless steel SA-240M 304, outer tank carbon steel vacuum insulation and insulating High includes load cryogenic valves, discharge, "boil-off "and security, geometric capacity 43,1m³, 1,95MPa design pressure, operating pressure 1.8 MPa, design temperature of -196 degrees Celsius operating temperature greater than or equal to -162 degrees Celsius.	Resolution No. 14 of February 19, 2020	0	31/12/2021
8709.11.00	Ex 029	Tugboat subway and railway vehicles and other movable rail vehicles, with traction force (push or pull) 2.200t weight up to the vehicle to be towed, driven by manual control or radio control unit, powered by batteries and pulled four independent electric motors coupled to steering and traction wheels, wheels with handling tug and empowered to rotate up to 180 independently form of degrees, allowing spin on the center itself or any direction (left or	Resolution No. 14 of February 19, 2020	0	31/12/2021
8907.90.00	Ex 015	fast scanning systems and oil gathering, with waters under sheltered in rivers and open sea through inflatable boom, hydraulic unit with low pressure air blower and table command, umbilical reel, hydraulic hoses, hydro system folio and oil pump with	Resolution No. 14 of February 19, 2020	0	31/12/2021
9014.80.10	Ex 023	for monitoring equipment and determination of volume flow rate and gas volume fraction to processing sonar arrays to capture sound and interpret the flow turbulence generated by fluid flow and the sound generated by the pipeline and process instrumentation, transmitted by one or more analog output 4 to 20mA, with pulse output, alarm output	Resolution No. 14 of February 19, 2020	0	31/12/2021

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9015.30.00	Ex 006	the "software" system equipment management laser double-pending rotary system for reading of land in 2 planes gaps and different slopes endowed with: signal emitter laser double leveling pendency, with single axis slopes up to 45 degrees with adapter manual tilt with operating range of 1.300m (4.265pés), rotation of 600rpm, allowing a margin of error of +/- 1 mm at a distance of 650m; laser signal receiver 360 degrees accompanied by high luminous sensitivity, radiant and cables short response time; Control box aluminum shielded with winds control sensor control signal winds up to 30km / h without destabilizing the accuracy of the machine, traction control sensor for adapting the	Resolution No. 14 of February 19, 2020	0	31/12/2021
		machine in different soils, without operator intervention; load sensor for traction power			
		adjustment as soil adherence, followed			
9015.80.90	Ex 052	automatic equipment for monitoring variations of surface ocean currents, ocean or coastal, remotely, periodic or continuous, range of up to 300km from the coast, high frequency radar varying in the range of 4 to 50 MHz, fixed remote sensors for emission high frequency signal, two transmit antennas, one receiving antenna, "software" for emission monitoring maps of oil leakage, search and rescue actions and logistics	Resolution No. 14 of February 19, 2020	0	31/12/2021
9015.80.90	Ex 053	10kpsi piezometers 150 degrees Celsius, high strength alloy MP35-N, 276-C compatible material flow, 625, 316L, 70VDC maximum power, maximum 15mA, 10mA to 16sensores more telemetry / cable, laser	Resolution No. 14 of February 19, 2020	0	31/12/2021
9015.80.90	Ex 054	portable for measurement speed probes and wind direction, which uses laser pulsing heterodyne installed on wind turbines, equipped with optics for emission and laser capture, embedded computer to process the data and communication system to transmit them, the total weight of 47kg, optical head, tripod and processing unit, electric power carried by the wind turbine itself, IP65 protection, security classification given the optics lasers specification Class 1M / MS 60825-1: 2014 capable of measuring wind up 400m distance of 10 intervals.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9018.11.00	Ex 011	Electrocardiographs Portable 3 channel with measurement and automatic ECG interpretation, acquisition and simultaneous printing 12-lead, map view leads, thermal printer roll paper 80mm x 15m, rechargeable battery and LCD 7-inch door USB, RJ45 Ethernet port and baud "wireless" memory.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9018.11.00	Ex 012	portable electrocardiographs, simultaneous acquisition of 12-lead, selection of derivation in automatic or manual mode, the output port for external printer connection, built-in thermal printer for thermal paper roll 210mm x 20m, touch type LCD color screen with 8 or 10 inches.	1	0	31/12/2021

9018.19.80	Ex 101	Multiparameter monitors with TFT color screen 8 or 10.1 or 12.1 inches, 800 x 600 resolution with a maximum of 13 waveforms, battery durability 4h or 8h with internal charger, IPX1 protection with visual and audible alarms, with or without built-in thermal printer, ability to store 720h of continuous parameter data, with USB interface, optional VGA interface, possibility of optional wireless network interface, weighing 2.4 or 2.8 or 3.5 kg, with a capacity ECG monitoring with 3, 7 or 12-lead breathing by the method of impedance between RA, LL, RA-LA, SpO2 (pulse oximetry) with a resolution of 1%, accuracy 70 to 100% ± 2, with graph perfusion index and number, with pulse frequency measuring range between 25 and 300bpm, NIBP (noninvasive blood pressure) with 3 possible manual modes, auto, still with static pressure measurement range of 0 to 300mmHg, tEMP (temperature) with 1 or 2 channels with one update every 2s and with range 0 to 55 °C and precision ± 0.3 degrees Celsius IP (invasive pressure) optionally having 1 or 2 channels with the measuring range of P1 / P2 (-50 to +300) and sensitivity 5microvolt mmHg / V / mmHg CO2 (capnography) optional with a		0	31/12/2021
9018.19.80	Ex 102	measuring range of 0 to 150 mm Hg (0 to 20%) with the sample gas flow 50, 70 or 100 Monitor vital signs compact weighing less than 2.5 kg, colored with TFT 8 inches, 800 x 600 resolution, IPX1 degree of protection with oxygen saturation monitoring capability (SpO2) ranges between 0 to 100% frequency resolution of 1%, accuracy 70 to 100% and ± 2%, pulse frequency range from 25 to 300bpm, non invasive blood pressure (NIBP) using the oscillometric method by	Resolution No. 14 of February 19, 2020	0	31/12/2021
		manual operation modes, automatic, continuous with intervals measuring 1 to 480min, capable of measuring systolic blood pressure, diastolic blood pressure, mean arterial pressure in the pressure measurement range on the cuff of 0 to 300mmHg, capable of measuring pulse rate range of 40 to 240bpm, with protection under-pressure 300mmHg, with the possibility of measuring temperature (TEMP) ranges between 25 to 45 degrees Celsius with a resolution of 0.1 degrees Celsius and accuracy of ± 0.1 degrees Celsius with dadosUSB interface and "Ethernet" and with the possibility of using impr essora built-in thermal, battery lasting up to 3.5h, has HL7 communication protocol with optional synchronization with defibrillator and call			
9018.19.80	Ex 103	Monitors multiparameter designed to monitor	2020	0	31/12/2021
9018.19.80		Pulse oximeters with oxygen saturation parameter in the blood (SpO2) and pulse rate (FP); LCD screen 1.8-inch color; simultaneous presentation of plestimográfica wave form of bar graph and the numerical value of SpO2 and PR; memory capacity of 24 data; Feed 2 standard AA alkaline batteries; minimum protection IPX0; SpO2 measurement range from 0 to 100%, and in the range 70 to 100% of the absolute error can be ± 2%; HR measurement range from	Resolution No. 14 of February 19, 2020	0	31/12/2021
9018.19.90	Ex 066	Device for performing elastography tests compatible with MRI machines operating in the range of 40 to 200Hz, power supply 110 / 220Vac, comprising generator module mechanical waves, hoses for propagation of mechanical waves, acoustic actuating device, several cable signal, network and	Resolution No. 14 of February 19, 2020	0	31/12/2021

9018.19.90	Ex 067	RF amplifier modules (radio frequency) double drive 30kW watercooled to 3 Tesla with a solid dual-drive power RF 127,72MHz with basic functions RF output modes head / body / gain adjustment test exit, head / body coupling signal control, CAN communication link "Controller Area Network" decoded and RF amplification with wave continuous or	Resolution No. 14 of February 19, 2020	0	31/12/2021
9018.19.90	Ex 068	RF amplifier modules (radio frequency) of 16kW cooled solid state water to 1.5 Tesla 63,86MHz with basic functions RF output modes head / body / test output gain adjustment, head / body signal control coupling CAN communication link "Controller Area Network" decoded RF amplification with continuous wave or	Resolution No. 14 of February 19, 2020	0	31/12/2021
9018.19.90	Ex 069	Tubes complete endoscopes with diameter of 2.8 to 16mm and a length of 1.000 to 4.500mm, with or without a CCD imager with connection cable, with or without electronic board connector with the image generator distal end mesh stainless steel to direct the picture, glass lenses for image magnification, light guides in fiberglass for spot lighting, access for plastic biopsies channels, and flexible rubberized casing.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9018.50.90	Ex 125	Apparatus for ophthalmological surgery, used to perform incision in the cornea (flap) via the microkeratome system for corrections in the refractory surgery "Lasik", provided with: the operation console; Automatic pedal retract / advance, vacuum pedal; tonometer motor with option 3 or 4	Resolution No. 14 of February 19, 2020	0	31/12/2021
9018.50.90	Ex 126	Disposable heads of plastic material, with blades, to be coupled to the motor, to perform incision in the cornea (flap) 130 and 90 microns, suitable for ophthalmological surgery apparatus.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9018.50.90	Ex 127	Manual use of devices used in eye care in order to restore normal glandular function in patients with meibomian gland dysfunction (GMD) through for thermal pulse in the eyelid, comprising sterile components tip that allows eyelid view through a magnifying lens heating device with target range 38-44 degrees Celsius internal rechargeable lithium ion battery, AC adapter input 100-240VAC, 50-60Hz, 0.5A, 5VDC output, 2A and source optical radiation through yellow-green and infrared LEDs next, for	Resolution No. 14 of February 19, 2020	0	31/12/2021
9019.20.10	Ex 030	Lung ventilators for oxygen therapy in adult and pediatric patients, and optionally neonatal, which require invasive and non-invasive respiratory care, air leakage compensation, in intensive care situations in hospitals or other medical institutions, operating with recruitment maneuver tool monitoring pulmonary and P0.1, ventilation works (of the patient, ventilator, tax and total), rapid shallow breathing index (IRRS) and maximal intrinsic PEEP patient's inspiratory effort, the minute recording of all parameters monitored in last 96 hours, with maximum flow rate of 180L / min, O2 concentration adjustable 21-100% oxygen and high O2 flow of 2 to 60 L / min, equipped with color screen "touchscreen" minimum at 15.6 inches, resolution minimum of 1,920 X 1,080 pixels, adjustable angle for minimum on turning 200 degrees left and right and at least 40Graus up and down, and display of up to 4 monitoring curves simultaneously on the screen; internal lithium ion battery, rechargeable, with a minimum range of 1.5 hours of continuous use; inspiratory and expiratory valve, equipped with a flow sensor, autoclavable, and may contain one or more of the following optional: internal air generator; Neonatal module for oxygen therapy patients with body weight from 0.2 kg tidal volume		0	31/12/2021

9022.29.90	Ex 010	Functional units for measuring properties of	Resolution No. 14 of February 19,	0	31/12/2021
		paper or cellulose using radiation beta type, microwave, light sources and electromagnetic from industrial use to measure sheets approximate width exceeding 10 m, composed of: "scanner "measurement with a measuring casing,	2020		
		thermal equalization embedded system may or may not contain radioactive source strontium (Sr 90); and interface and data			
9022.90.80	Ex 004	Equipment for continuously measuring density profile by X-ray technology for reconstituted wood panels measuring speed of 0.01 to 2 mm / s with a maximum voltage of 160kV maximum anode current of 55mA and a maximum power of 800W / 1.800W controlled by CPU "software" and dedicated measurement range of the material with a thickness of 3 to 65 mm with a density	Resolution No. 14 of February 19, 2020	0	31/12/2021
9024.80.90	Ex 059	Equipment for mechanical testing in rock specimens with a capacity of greater than or equal to 500 kN compression, mechanical strain capacity equal to or greater than 291kN, with and actuator displacement exceeding 100mm.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.10.00	Ex 172	Analyzers for measuring concentration of atmospheric gases, NOx, SO2, CO, CO2, O3, H2, NH3, NMVOC using the modulated decompression chemiluminescence method with continuous monitoring capability and flash gas analysis using the method of selective combustion modulated by crossflow combined with a method of detection of	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.10.00	Ex 173	helium leak detection units by analysis by mass spectrometry, with pumping system of 5L / sec, with gas detection accuracy 0.01 E-12 ~ E-6; turbo molecular pump 31L / sec; oil rotary pump 30 to 36L / min; with "sniffer" (sniffing) leak detection and 0.01E-8-3-Pa.m3 / s and 7 inches capacitive touch	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.10.00	Ex 174	online gas analyzers for oxygen, provided with: ceramic sensor solid-state accuracy: better than ± 1% of the value shown and ± 1digit in calibrated range, sensor flow: 125mL per minute, measuring range from 0 to 100% (standard calibration from 0 to 20.9%), 2 alarm settings for oxygen	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.10.00	Ex 175	online gas analyzers for oxygen and carbon dioxide, the oxygen sensor equipped with ± 0.01% in absolute range below 1% oxygen and ± 1% relative in the range above 1% oxygen, with time heating 10min, and the carbon dioxide sensor, dual beam infrared temperature-controlled, precision ± 0.5% ± 1.5% absolute and relative reading with heating time of 8min; with a range from 0 to	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.10.00	Ex 176	gas analyzer for quantification of moisture traces by electrolytic principle (P2O5 - phosphorus pentoxide), integrated cell composed of stainless steel and glass tube with internal diameter electrodes 3,125mm and with the sensor element internal tube "display" LCD equipped with mechanical flow control system or electronic communication outputs 4-20mA and RS232,	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.10.00	Ex 177	Gas sensor modules for flammable and toxic gas detection with operating temperature from -20 to +50 degrees Celsius, with a detection range of 0-100% LEL methane, 0 to 50 ppm H2S, audio and visual alarm and flag remote sound.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.30.19	Ex 047	Ex 047 - portable Raman spectrometers with laser excitation 785nm, read range 200 - 4.000cm-1, with a wavelength of 10 cm-1 resolution and camera pixels 13mega with Interfaces "Wi-Fi" USB, "bluetooth", GSM, and IP67 degree of protection, containing built-in spectral library, with bars and QR code code reader.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.30.20	Ex 072	Spectrophotometers for agricultural use, used for detection based on fluorescence of chlorophyll vegetation with working temperature between -30 and +60 degrees Celsius, ideal working height of 1.100mm, with four detection channels and wavelength 475 ± 10nm.	Resolution No. 14 of February 19, 2020	0	31/12/2021

9027.50.20	Ex 126	automatic and computerized analyzers for performing biochemical tests; photometrically methodology; configurable with or without washing station; positions for placing chilled reagents; positions for placement of patient samples; configurable	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.50.90	Ex 169	with or without integrated barcode reader. automated machinery, with up to 8 channels, to detect clot formation to perform chromogenic and immunological tests in random access mode using plasma samples collected from blood anticoagulated with	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.80.99		Automatic analyzers salt in oil according to ASTM D3230; test time of 30 s; temperature range -20 to 150 degrees Celsius; resolution of 0.1 degrees Celsius; conductivity range of 0.0 to 151lbs / 1.000bbl and resolution 0,1lbs / 1.000bbl; analysis range from 0.0 to 430g / m³ and resolution of 0.1g / m³; automatic display of the salt concentration in units lbs / or 1.000bbl g / m³.		0	31/12/2021
9027.80.99	Ex 495	fully automated hematology analyzers, differential with 3 parts of white blood cells (WBC), 3 21 more histograms parameters, automatic sample dilution, automatic and manual calibration, electrical impedance and colorimetric methods, with or without built-in printer.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9027.80.99	Ex 496	Systems combined to the steel temperature measurement in liquid production process in three-phase electric furnace in the steel industry, with fiber optic technology, without oven door opening for thermal and energy efficiency, operation in all temperature ranges the liquid steel of less than or equal to 1,500 Degrees Celsius and greater than or equal to 1,700 degrees Celsius rate of 50 samples / temperature s, coil compounds calibrated fiber optic cable to capture light and transmitting light, pyrometric Blank converting the intensity of light in micro voltage and subsequent conversion into temperature, fiber optic cable feeder for immersion in the liquid steel bath, bubbling tube support and stainless steel guide tubes 40 4/5 inches SCH, PLC control unit (Programmable Logic Programmer) with power and compressed air supply, indicadoresluminosos junction box with the functioning of the system key and int erruptora feeder, Bi manual pushbutton (manual / automatic) functions to advance / retreat of the fiber optic cable setups emergency switch and safety reset, processor (PC) with HDMI Full HD 23.8 inch display with a connection HMI (Human Machine Interface) and serial network, Profibus, ProfiNet, TCP / IP, Ethernet IP,	Resolution No. 14 of February 19, 2020	0	31/12/2021
9031.20.90	Ex 198	Banks tests for fatigue tests on components of diesel fuel injection systems, by pulsing hydraulic flow under pressure with pressure change of the capacity between 2.7 6mil bar pressure, volumetric displacement 14,5L / min; equipped with pressure sensors, filters, filter pump, pressure transducer, "rack" with computer and screen for control equipment, electrical panel for distribution.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9031.20.90	Ex 199	Testbeds for measurement, control and durability tests for diesel injection system components with function simulation of diesel engine operating conditions, with control of charge cycles, fuel injection with controlled temperature, pressure, amount injected and number of metallic particles generated by system components; equipped with pressure sensors, thermocouples, flow meters, valves, gears, transmission couplings, high pressure pump, heat exchangers, pressure gauges, belts, electronic modules command, temperature controllers, 50L tank, electrical panel command and control electric motor with an output of 44kW, "rack" with computer and screen to command the equipment and head for fixing the guns	Resolution No. 14 of February 19, 2020	0	31/12/2021

9031.20.90	Ex 200	Banks test for simulating operation of fuel injection pumps themselves under high pressure to automotive engines, by pressure tests volume of oil and rotation conditions with classification system between pass and	Resolution No. 14 of February 19, 2020	0	31/12/2021
9031.20.90	Ex 201	Optical systems for computerized analysis of real-time measurement of the coating thickness, convertible into different units of measurement with nanometer precision; configurable for reading by infrared or visible light; preinstalled software; touch screen; reading station with one or more rotating measuring base; two probes coupled to X and Y axes for horizontal and vertical movements; measurement range 0.3 to 250 microns; speed measurement to 50medições / s; measurement technique ability to wet	2020	0	31/12/2021
9031.20.90	Ex 202	Testbeds for truck and bus gear boxes test with 4.700Nm of working torque at 2,000rpm rotation and approximate cycle time of 210s, equipped with electric cabin.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9031.49.90		Machines for inspection of automotive front seat, have: moved by air cylinder security door and solenoid valve inspection equipment of seat belt sensors, photoelectric sensor armrest detection, manual control boxes of the pneumatic cylinder, PLC seat inspection panel front seat photoelectric sensor for inspection reclining degree of seat back, the photoelectric sensor positioning seat in the inspection line, double-pneumatic cylinder drive switch, the central PLC, taken female frame for connecting inspection whips and detection of the seats, the seat anchorage benches for inspection of the front seat, bar code readers, double set of switches pneumatic cylinder drive, connectors for detecting harness type seat, safety lamp for detection the type of bank, docinto coupling safety, connector inspection harness sist ema electric horizontal movement of the seat connectors to harness inspection of seat belts, emergency button, connector harness seat tilt detection connector for inspection harness electrical system handling bank, automatic machines for checking an optical system of the technical specification of the turbine faces fuel pump motor vehicles; consisting of: component transfer conveyor system, pneumatic valve block; main		0	31/12/2021
9031.49.90	Ex 473	switchboard; auxiliary panel; with AC power and pneumatic power 3kW and 6A current. Machines for inspection for defect detection in the label printing process and labels such as: printing defects, missing labels or torn	Resolution No. 14 of February 19, 2020	0	31/12/2021
		labels, impurities, record defects among others; used in the printing industry in printing machines and inspection expert review, with field of view of 560mm and a maximum top speed of up to 300m / min.			
9031.49.90	Ex 474	optoelectronic instruments for characterization and test transmission networks, operating by injection of optical pulses and analyzing temporal expectro type "end-to-end" smart optical link mapper, dynamic range 28 to 50,5db, wavelengths 1310, 1,550, 1,625 or 1.650nm, equipped with 7-inch screen and battery life of 12	Resolution No. 14 of February 19, 2020	0	31/12/2021
9031.49.90	Ex 475	Instruments for optoelectronic test / control in transmission networks by measuring through photodiode with wavelength equal to or less than 1.625nm and measuring range (dBm) -70 + 10 or -50 + 26.	Resolution No. 14 of February 19, 2020	0	31/12/2021

9031.80.12	Ex 034	roughness measuring stations and contour probing systems provided with transverse unit 120 or 200mm, the positioning speed of 20 to 200mm / s, with less positioning repeatability 50micrometros or less than 10micrometros fixed in tilt unit +/- 45 degrees in measuring column of 500 or 800 mm, with a maximum speed of 20 or 80mm / s positioning, accompanied by the control panel for easy operation of the measuring station, which records measurement and evaluation operations in "software" It is providing a standardized interface for both measurement and roughness or contour, regardless of the device configuration.	Resolution No. 14 of February 19, 2020	0	31/12/2021
9031.80.99	Ex 058	geometric positioning measuring equipment 3 points on the surface of the passenger motor vehicle wheel module, equipped with mechanical device with measuring sensors 80 to 120mm and 160 to 440mm, with a tolerance of 0.15 and 0.25%; power and communication cables; control panel with programmable logic controller, power supply, input cards, digital and analog outputs and network card, responsible for acquisition, data checking and control	Resolution No. 14 of February 19, 2020	0	31/12/2021
9031.80.99	Ex 059	spectral reflectance electronic sensors for measuring normalized vegetation index reading (NDVI - Normalized diference Vegetation Index) for selective application of herbicides on weed provided light emitter and receiver in the red and infrared bands, operating height between 50 and 100cm from the target, the field of view of 50cm sensor length, nominal voltage of 9 to 28VDC and rated power 6W without valve and 16W with the valve produced external structure in plastic "XENOY" high resistance to exposure to water, chemicals and outdoor	Resolution No. 14 of February 19, 2020	0	31/12/2021
9031.80.99	Ex 060	static equipment seaming analysis with analysis system and identification of errors with correction suggestions, HD Resolution 0.0002 inch (0,005mm) or higher, stainless steel case, USB2 interface, variable centering device (depending on the type of	Resolution No. 14 of February 19, 2020	0	31/12/2021
9031.90.10	Ex 003	Portable devices for supporting type diesel injectors "common rail", developed exclusively for automotive seats of injectors testing for seal testing, electrical insulation and resistance tests; designed to withstand hydraulic pressures of the pressure 1.400bar 2.000bar pressure; approximate operating at voltages up to 2,5 kV.		0	31/12/2021
9031.90.10	Ex 004	handheld devices to support diesel type injectors "common rail", developed exclusively for banks automotive guns tests for sealing testing; designed to withstand pressures up to 2.000bar hydraulic pressure.	Resolution No. 14 of February 19, 2020	0	31/12/2021

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9402.90.10	EX 004		Resolution No. 14 of February 19,	0	31/12/2021
		radiotranslúcidas and exclusively designed	2020		
		for supporting and positioning patients			
		during surgery and may also be used for			
		diagnostic immediately radiological before,			
		during and after procedures with a maximum			
		loading capacity of up to 250kg the normal			
		position and to 190kg in the reverse position,			
		positioning the top of the table			
		"trendelenburg" / "trendelenburg" reverse 25			
		degrees (± 5 degrees) of the table top tilt left			
		/ right 20 degrees (± 5 degrees), tilt plate			
		back 80 degrees (± 10 degrees) upward and			
		40 degrees (± 10 degrees) downwards, plate			
		tilt legs 20 degrees (± 5 degrees) up to			
		about 90 degrees down, drive the plate legs			
		90 degrees left to 90 degrees right, plate tilt			
		head 45 degrees (± 5 degrees) upward and			
		90 degrees (± 5 degrees) downwards,			
		maximum emínima height of the top the			
		respec table tively 950mm (± 50mm) and			
		600mm (± 50mm), with a degree 1PX4			
		protection rechargeable battery autonomy of			
		operation of about 1 week electrohydraulic			
		mobile column, two control panels (manual			
		control wired and panel column), braking			
		device with electric drive, hydraulic system,			
		angle sensors, the main control unit, power			
		module and control and monitoring program,			
		which may contain one or more of the			
		following optional: sliding or longitudinal joint			
9402.90.20	Ex 017	hospital beds with 4 electric drive	Resolution No. 14 of February 19,	0	31/12/2021
		mechanisms, with retractable side rails,	2020		
		headboard and board for removable feet,			
		battery support system, the side rail control			
		panel, remote control for the patient and			
		remote control for nursing staff, brake			
		control and driving to the casters, maximum			
		capacity of 250kg, the existence of the fifth			
		wheel that facilitates the movement of the			
		bed, simultaneous parking brake wheels			
		with double density memory foam mattress,			
		IPX4 protection, 10 years of life, statement			
		low height, patient bed exit aid and angle			
		indicators for "trendelenburg" and "anti-			
		trendelenburg" (bed angle) with radiolucent			
		and night light			
9402.90.20	Ex 018	Beds hospital, electrical or not, built in base	Resolution No. 14 of February 19,	0	31/12/2021
		steel, variable bed height between the	2020		
		minimum height of 22cm and 78cm			
		maximum height, up to 70 degrees of tilt			
		angles of the curve mattress or no platform,			
		with fittings attached or not with the left and			
		right side of the bed guardrail as an option			

RESOLUTION No. 57, OF 22 JUNE 2020

Excluded from the Anex I of "CAMEX Resolution No. 102, of December 17, 2018."

NCM	Nº Ex	Description	Resolution	Tax	Deadline
4016.93.00	4	-	CAMEX Resolution No. 102, of December	0	Unknown
4016.99.90	9	-	CAMEX Resolution No. 102, of December	0	Unknown
7616.99.00	1	-	CAMEX Resolution No. 102, of December	0	Unknown
8302.30.00	1	-	CAMEX Resolution No. 102, of December	0	Unknown
8414.80.21	2	-	CAMEX Resolution No. 102, of December	0	Unknown
8414.80.90	20	-	CAMEX Resolution No. 102, of December	0	Unknown
8414.90.39	28	-	CAMEX Resolution No. 102, of December	0	Unknown
8481.10.00	13	-	CAMEX Resolution No. 102, of December	0	Unknown
8481.80.92	3	-	CAMEX Resolution No. 102, of December	0	Unknown
8483.30.90	1	-	CAMEX Resolution No. 102, of December	0	Unknown
8501.10.19	1	-	CAMEX Resolution No. 102, of December	0	Unknown
8501.31.10	9	-	CAMEX Resolution No. 102, of December	0	Unknown
8534.00.39	1	-	CAMEX Resolution No. 102, of December	0	Unknown
8545.20.00	1	-	CAMEX Resolution No. 102, of December	0	Unknown
8708.30.90	31	-	CAMEX Resolution No. 102, of December	0	Unknown
8708.50.99	3	-	CAMEX Resolution No. 102, of December	0	Unknown
8708.91.00	1	-	CAMEX Resolution No. 102, of December	0	Unknown
8708.92.00	3	-	CAMEX Resolution No. 102, of December	0	Unknown
8708.92.00	4	-	CAMEX Resolution No. 102, of December	0	Unknown
9031.80.99	837	-	CAMEX Resolution No. 102, of December	0	Unknown
9032.89.21	6	-	CAMEX Resolution No. 102, of December	0	Unknown

Excluded from the Anex II of "CAMEX Resolution No. 102, of December 17, 2018."

NCM	Nº Ex	Description	Resolution	Tax	Deadline
8413.50.10	40	-	CAMEX Resolution No. 102, of December	0	Unknown
8413.81.00	43	-	CAMEX Resolution No. 102, of December	0	Unknown

8481.80.92	7	-	CAMEX Resolution No. 102, of December	0	Unknown
8483.40.10	144	-	CAMEX Resolution No. 102, of December	0	Unknown
8483.40.10	203	-	CAMEX Resolution No. 102, of December	0	Unknown

Included in the Anex I of "CAMEX Resolution No. 102, of December 17, 2018"

NCM	Nº Ex	Description	Resolution	Tax	Deadline
7616.99.00	8	Components of aluminum alloy coated with one of	CAMEX Resolution No. 102, of December	0	Unknown
8414.80.90	1	Electric pump compressed air for precise air supp	CAMEX Resolution No. 102, of December	0	Unknown
8501.10.19	24	electric motor for electric power steering system	CAMEX Resolution No. 102, of December	0	Unknown
8534.00.39	2	Plate double-sided printed circuit board, rigid, co	r CAMEX Resolution No. 102, of December	0	Unknown
9031.80.99	65	Sensor Electronic semiconductor emission freque	CAMEX Resolution No. 102, of December	0	Unknown

Included in the Anex II of "CAMEX Resolution No. 102, of December 17, 2018"

NCM	Nº Ex	Description Res	solution	Tax	Deadline
8413.50.10	2	Hydraulic axial piston pumps of variable displace CAl	MEX Resolution No. 102, of December	0	Unknown
8413.81.00	1	ARLA pump 32 with filter element for large diese CAl	MEX Resolution No. 102, of December	0	Unknown
8483.40.10	9	compact planetary gearboxes to drive wheeled vel CAI	MEX Resolution No. 102, of December	0	Unknown
8483.40.10	10	Cash transmission for PTO receiving the rotation : CAl	MEX Resolution No. 102, of December	0	Unknown

RESOLUTION No. 58 OF 22 JUNE 2020

Changed the description/text

NCM	Nº Ex	Description	Regulation	Tax	Deadline
9401.90.90	43	Support LD upper arm Polyvin injected with surface film, black color, with the dimensions: length between 282 mm and 386.3 mm; height between 46.5 and 109 mm; a width between 72 mm and 97.1 mm, with sheet metal internally injected fixing the support automotive seat.	GECEX Resolution No. 42 of May 4, 202	2	Unknown

Excluded from the Anex I

NCM	Nº Ex	Description	Regulation	Tax	Deadline
8408.90.90	52	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
8408.90.90	53	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
8413.30.20	5	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8413.91.90	38	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8414.30.91	5	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8414.30.91	6	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8481.90.90	36	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8481.90.90	37	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8482.99.90	8	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8483.40.90	8	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8512.40.10	2	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
8708.30.90	23	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
9027.90.99	15	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
9031.80.99	15	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
9032.89.82	12	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown

Excluded from the Anex II

NCM	Nº Ex	Description	Regulation	Tax	Deadline
8433.90.90	6	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
8483.40.10	284	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
8483.60.90	37	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
9032.89.89	52	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown

Included in the Anex I

NCM		Description	Regulation	Tax	Deadline
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8408.90.90	5	Internal combustion piston engine, diesel cycle, 4 cycle, water-cooled compression ignition and indirect injection with three vertical-cylinder naturally aspirated engine capacity of 1.496 liters, diameter and piston stroke of 84 mm x 90 mm 0.16 m3 motor housing, for use in self-propelled equipment (mobile) off-road and stationary equipment with gross power of 15 kW to 25.1 kW speed of 1500 to 3000 rpm, meeting the emission limits in accordance with the certification EU Stage IIIA (directives 97/68 / EC, as last amended).	CAMEX Resolution No. 23 of December 30, 2019.	2	Unknown
8408.90.90	6	Internal combustion piston engine, diesel cycle, 4 cycle, water-cooled compression ignition and indirect injection with three vertical-cylinder naturally aspirated engine capacity of 1.496 liters, diameter and piston stroke of 84 mm x 90 mm 0.32 m3 motor housing, mounted radiator and fan, mounted with air filter for use in self-propelled equipment (mobile) off-road and stationary equipment with intermittent net power of 15 kW to 24.2 kW, speed of 1500 rpm to 3000 rpm, meeting emission limits in accordance with the certification EU Stage IIIA (directives 97/68 / EC, as last amended, and 2004/26 / EC, as last amendment).	CAMEX Resolution No. 23 of December 30, 2019.	2	Unknown
8413.30.20	6	Pump fuel pressurization, mechanical, up to 4 kg, with electric solenoid valve, driven shaft cams, applied to diesel engines for use in heavy and medium commercial vehicles, which when installing the engine block must be driven by the camshaft axis that moves the spring of the fuel pump by contact with the tappet roletado and raises the internal pressure of the pump up to 2220bar, which after electrical signal received in the solenoid valve for the electronic management of central motor sends fuel to the electronic nozzle with flow maximum of 754 mm3 per stroke.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
8413.91.90	50	the face of the suction port with the fuel suction functionality, with a diameter of 7,45mm x 7,8mm is used in the fuel pump for motor	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
8481.90.90	7	Valve spring retractable by mechanical drive, non-cellular rubber (H-NBR) with a copper alloy body, height 20 mm, for passage of the thread M6X0,75 mounted on the gas supply coupling of the air conditioning system of automobiles .	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
8481.90.90	8	Disc stainless steel, cold drawn with greater external diameter 15 mm, length 8.85 mm, resistant to gasoline, ethanol and mixtures thereof, with a maximum level of 0.040 mg per unit of contaminants mounted pressure regulators vehicles flex-fuel internal combustion engines of the Otto type.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
8483.40.90	6	partial semicylindrical snape plastic spur gear with stainless steel and stainless steel metal insert impeller having a maximum diameter of 36,5mm 54,35mm and height, working temperature -40graus Celsius 125graus + Celsius minimum torque 12 Nm	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
9027.90.99	1	Sensor wide band type and / or linear with time of light off less than or equal to 12s composed of a ceramic sensor element used in the oxygen concentration sensor (O2) (Lambda sensor) for measuring the exhaust gases from the internal combustion engine of automotive vehicles. Equipped with ceramic substrates (laminated and sintered) porous ceramic protective layer (protection against thermal shock), internal and external electrodes; heat resistance equal to or less than 8 ohm connector comprising six (6) terminals, two heating terminals 4 and electrical contact terminals to the signal generated by comparing the oxygen concentration in the exhaust gases and atmospheric air.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
9031.80.99	64	Sensor warning using the safety belt, comprising a membrane, which in turn is composed of two formed film plastic PET or PEN with printed load sensors them into carbon and silver, and an adhesive for fixing the structure bank consisting of plastic and paper backing with milesimais dimensions, having a drive load of 7N to 25N range, maximum resistance of 100 ohms and maximum current of 15 mA.	CAMEX Resolution No. 23 of December 30, 2019.	2	Unknown

9032.89.82	20	electronic sensor solar capture to control the air conditioning system, used in passenger cars, maximum voltage 5 volts, weighing 10g, with electrical connector 2 pin, resistor, with plastic housing and outputs dedicated to the control center electronic air conditioning system.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
Included in th	ne Anex 1	I			
NCM	Nº Ex	Description	Regulation	Tax	Deadline
8483.40.10	8	synchronized drive module 2 speed, equipped with left and right brake service wet multidisc type, mounted on the front axle grain harvesters, with reductions of 6.4: 1 to 2.35: 1, the maximum input power 350 kW and a maximum speed of 4000 rpm input.	CAMEX Resolution No. 23 of December 30, 2019.	2	Unknown
8483.60.90	6	Couplings made of PA12-CF15 (nylon and carbon fibers), provided with steel in the center toothed protrusion, used to attach motor and pump HST transmits engine power to the pump and absorbs torsional vibration to protect the transmission system applied in self-propelled	CAMEX Resolution No. 23 of December 30, 2019.	2	Unknown
9032.89.89	5	electronic control unit used in the regulation and autopilot control of agricultural machinery, for managing data received from the sensors and actuators with dedicated software for automatic driving system, this management is based on GNSS information (Global Navigation Satellite System) where has integrated precision gyroscope and accelerometers, as well as modem for communication via mobile and input and digital and analog outputs, and communication via CANbus 2.0 protocol and RS232 via DIP-controlled signals in closed-loop, real-time and access volatile and non-volatile memories.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown

Included in the Anex I in "Resolution No. 23 of December 30, 2019" TITLE: LIST OF AUTO PARTS FOR THE PRODUCTION

NCM	Nº Ex	Description	Regulation	Tax	Deadline
4016.93.00	19	A sealing ring of rubber resistant to fuel, flexible in the temperature range of -40 degrees Celsius to 150 degrees Celsius with application Talc M400 Neutral Technical surface.	Resolution No. 23 of December 30, 2019	2	Unknown
4016.99.90	10	calibrated vibration damper consisting of vulcanized rubber and metal elements used in motor vehicle steering wheel. Sintered threaded connection for oxygen sensor	Resolution No. 23 of December 30, 2019	2	Unknown
8302.30.00	8	with surface roughness of Ra5 and flatness of 0.2 mm, sintered stainless steel, its function is to ensure the mounting of the oxygen sensor which sensor measures the O2 concentration in the exhaust gas, applied in exhaust system of motor vehicles	Resolution No. 23 of December 30, 2019	2	Unknown
8414.80.21	3	Turbocharged air with variable turbine geometry, with pressure control obtained by varying the area of a set of guide vanes which slide axially and manages the flow of exhaust gas, actuated by an external pneumatic or electronic actuator used in diesel engines internal combustion.	Resolution No. 23 of December 30, 2019	2	Unknown
8414.90.39	56	Set stem exclusive connection between the actuator and electronic system that controls the opening and closing of the variable geometry system of the fins used in turbochargers air fed by exhaust gases from internal combustion	Resolution No. 23 of December 30, 2019	2	Unknown
8481.10.00	25	Pressure valve for internal use in the system ABS (Anti-lock Brake System) and ESC (Electronic Stability Control), which together with the motor pumps the brake fluid back to the master cylinder reservoir.	Resolution No. 23 of December 30, 2019	2	Unknown
8481.80.92	39	solenoid valve 12V voltage used in the ABS brake system (anti-lock brake system) for cars and light commercial	Resolution No. 23 of December 30, 2019	2	Unknown
8483.30.90	10	Friction thrust bearing assembly sealed with non-metallic friction element capable of supporting loads of 7.0 tons GAWR axis and moderate ability to support radial loads to heavy commercial vehicles. With minimal outer diameter = (57.0) mm, maximum outer diameter = (57.2) mm, a minimum inner diameter = (34.0) mm, inner diameter = max (34.3) mm and a height = (15.75) mm maximum height = (16.25) mm. Guide with a maximum diameter (40 K7) mm	Resolution No. 23 of December 30, 2019	2	Unknown
8501.31.10	25	electric motor to charge to the steering system with electric kind assistance (EPS), with output torque between 2,90N.m and 4,70N.m and engine power ranging between 400W and 700W.	Resolution No. 23 of December 30, 2019	2	Unknown

		Carbon brush with the commutator 0.05 mm	<u></u>		
8545.20.00	8	flatness of the contact face squareness of 0.05 mm between the contact face and brush profile, the maximum roughness Rz 40microns, a width of 4 mm +/- 0.05, compared flat profile 7 mm + - 0.05 1.33 CpK³, thickness 4.5 mm and width - 0.04 -0.14 -0.04 -0.14 5.8 mm both measures	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.99	43	Holdsing in cast fron, used in the transmission axle for trucks and buses with maximum vertical load capacity of up to 18 tons, minimum dimensions: length 1,600mm; Height 400mm;	Resolution No. 23 of December 30, 2019	2	Unknown
8708.91.00	12	Shaft endless helical thread and double rolled for engagement of mono- and double reduction wiper motor with concentricity between 0.003 and 0.004 mm and accommodation contact stops on the ends and axial retention ridges.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.92.00	13	stainless steel tube containing interlaced connectors used for connecting different parts of the exhaust system, with a length between 82 and 220 mm and diameters between 86 and 103 mm.		2	Unknown
8708.92.00	14	the combustion, consisting of a rigid part of carbon steel with surface treatment of aluminum and other flexible corrugated stainless steel	Resolution No. 23 of December 30, 2019	2	Unknown
3919.90.90	3	Joint made with foam polyurethane base material with closed cells with double sided tape, ensuring sealing the product water for 20 hours or more, while maintaining the physical characteristics and unchanged mechanical after compression, cut as required design for the box for ventilation / cooling / heating (HVAC) with added special double-sided tape for use in	Resolution No. 23 of December 30, 2019	2	Unknown
3926.30.00	8	Set internal opening control ports comprises injection molded plastic parts (casing and painted handle) steel shaft, spring steel, rubber stopper and grease mechanism with mechanical drive for internal door opening front and rear of motor vehicles, 114,6g with weight and dimensions of 160,4mm x 86,7mm x 47,7mm.		2	Unknown
3926.30.00	9	Set internal opening door control, comprising molded plastic parts (casing and chrome handle) steel shaft, spring steel, rubber stopper and grease mechanism with mechanical drive for internal door opening front and rear motor vehicle, weighing 111.6 g and dimensions of 160,4mm x 86,7mm x 47,7mm.	Resolution No. 23 of December 30, 2019	2	Unknown
4006.90.00	1	Contact translucent black rubber with high resistance to high and low temperature hardness between 50 and 70 ± 5 HS, maximum load 7.84 MPa in dimension of 224 x 26.6 mm, 120.4 mm or 34.6 x 56 18.1 x 3 mm, range \pm 10 mm, gold or copper compound for electrical continuity between the components.	Resolution No. 23 of December 30, 2019	2	Unknown
4016.93.00	17	Joint sealing rectangular 2.6 x 1.1 mm EPDM produced, with a length of 303 mm to 783.4 mm and tolerance of + 2.0 / -1.0 mm; free of burrs, warping and twisting of the section around its perimeter; used in automotive radiator manufacturing with the function to seal the connection between the tank and the hive.	Resolution No. 23 of December 30, 2019	2	Unknown
4016.93.00	18	Gasket Retention of circular geometry, with or without rib, with permissible outer diameter between 100 mm to 115 mm and a total thickness of 0.38 mm or 0.84 mm, soul laminate comprising low carbon steel with a rubber coating on both faces compressors applied to automotive air conditioning system.	Resolution No. 23 of December 30, 2019	2	Unknown
7315.11.00	1	treatment carburizing and quenching with 6.35 mm width x 5,72mm diameter rollers and step rollers between 9,525mm, with a total weight	Resolution No. 23 of December 30, 2019	2	Unknown
7315.12.10	1	precision metal steel chain for use in automotive timing system components with hardness of 420HV to 750HV and 7mm pitch between 9,525mm and with thermal treatment process with addition of carbon the pins in order to ensure necessary hardness for the application.	Resolution No. 23 of December 30, 2019	2	Unknown
7318.15.00	8	Pin rod of high carbon content steel made by dehydrogenation, cooling, and temper treatment with chrome dimension ref. 60 and 54,5mm x thickness 3.9mm, maximum load 1480MPa, use in automotive gear shift lever.	Resolution No. 23 of December 30, 2019	2	Unknown
7318.16.00	9	pinion flange nut with thread size M42 to M60; 17,0mm height 24.5 mm; between the faces of the hexagonal 55,2mm 75,0mm, 73,5mm the flange Ø 100,5mm.	Resolution No. 23 of December 30, 2019	2	Unknown

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7318.16.00	10	Adjusting nut hub bearings, hexagonal piece with internal thread sizes between hexagonal faces 66.0 mm to 102.0 mm; internal thread 2.1250 "to 3.2500"; thickness 7.5mm to 10.0mm.	Resolution No. 23 of December 30, 2019	2	Unknown
7326.90.90	6	austempering, electrolytic zinc-coated in a normal, closed-size (in lock) 80.8 to 87,8mm height, width 45.5 to 52.5 ± 0.5 mm, and lock strength of 30N-70N, automotive use, for contine plate, neteriance of the strength of 30N-70N.	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	1	side doors for vehicles M2 / N1 / N2, consisting of cables, levers and rods transferring the opening movement to the inner and outer door	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	2	Set front cover lock mechanism with mechanical actuation for locking and unlocking the front cover of motor vehicles, consisting of steel base support, latches, levers and steel safety hooks, steel rivets, stainless steel springs, with or without contain injected plastic components.	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	3	Set of outer opening command back cover with an internal mechanism with electromechanical drive for locking and unlocking the rear of motor vehicle doors, consisting of housing (body) plastic injected PP GF30 + PET (40 shoreA) injected back cover polyacetal (POM) injected piston polycarbonate (PC), stainless steel compression spring 1809 X 10 Cr Ni UNI 6900-71, silicone keyboard and contacts CuZn33 H125 Ag + Ni 90 10 90-130 HV, 45g weight and dimensions: (30mm x 79,9mm x 41,3mm)	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	4	and grease, with automatic locking after the vehicle is in shooting (greater than 20 km/h), the dimensions 0,550ge weight 116,8mm x	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	5	Set of door lock and key enabling the opening and closing of the driver's door failure in the automatic opening system of the vehicle, made of Zamac 120g, alpaca 20g, other metals 35g, thermoplastic 25g, elastomers 8g and totaling a	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	6	Set of keys and locks the door and ignition to allow opening and closing of doors and windows and drive ignition to start the vehicle; manufactured in Zamac 690g, alpaca 40g, 36g brass, stainless steel 5g, 40g steel, thermoplastic 50g, 16g elastomers, electronic components and battery 22g and totaling a mass of 0,899kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8301.60.00	11	Board which enables the transmission of movement, locking / unlocking and opening / closing sliding door lock weighing 340g, comprising a metal body with SPFH540 MFZn8-C coating (78,3g), NBR damper hardness 70 - Shore A (4g), SAPH370 retaining plate MFZn3-C coating (77,6g) and small components (springs, grease, fasteners, lock) containing cable assembly with a specific length and a total weight of 75g, enabling locking and unlocking the tailgate and for the opening, the transmission of movement is accomplished through the cable	Resolution No. 23 of December 30, 2019	2	Unknown
8301.60.00	12	of movement is accomplished through the cable upper and lower lock rear door that allows its locking and unlocking, opening and closing, having upper lock with 509g weight, the lower lock weighing 431g, comprising a plastic body POM (27 g), NBR shock with hardness 70 - Shore a (4g) hangs over-injected elastomer 55 Shore D (127 g) with steel retaining plate (18,8g) and small components (springs, grease, fasteners), with a specific cable length (diameter 1 25 7x7 stainless steel, POM, PVC) weighing less than 9g	Resolution No. 23 of December 30, 2019	2	Unknown
8301.60.00	13	Limiter front and rear doors; retention mechanism with the function of the door system in a pre-prescribed positions in motor vehicles measuring approximately 147,7mm x 82,2mm x 43mm composed of injected plastic parts rubber steel and grease seal located in the inner region of the front and rear Weight 160,2g	Resolution No. 23 of December 30, 2019	2	Unknown
8301.70.00	3	Key "Key Less Entry and Start System" with locking buttons, unlocking, opening the trunk, remote control electronics, "chip", retractable key blade, bearing, "push button", pin tensionerspiral spring and twisting housing with lid, battery compartment, upper and lower package (split) side cover and top cover.	Resolution No. 23 of December 30, 2019	2	Unknown

8302.30.00	6	suspension cushion support in Gear box made of steel casting G550 + vane for use in a compression ignition engine vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8302.30.00	7	Support core engine suspension manufactured in engagement link AlSi9Cu3 aluminum injection (FeZn) for use with vehicle engine ignition Dieser engine, in-line o-cylinder, 12,8L, turbo	Resolution No. 23 of December 30, 2019	2	Unknown
8408.20.20	5	diesel engine, in-line 6-cylinder, 12,8L, turbo diesel engine with high pressure common rail injection system, with power up to 390kW with 2600Nm torque at 1600 rpm, with block and cylinder head cast iron and other metallic materials and components polymers, for trucks	Resolution No. 23 of December 30, 2019	2	Unknown
8408.20.90	1	4-stroke engine 6-cylinder internal combustion line Diesel cycle with a total volume of 10.8 liters containing 24 valves actuated by two valve commands positioned on the head one for intake and one for exhaust generating a maximum power of 299 hp (220 kW) at 1,675 rpm and maximum torque of 1,350 Nm between 900-1400 rpm equipped with direct fuel injection system "common rail".	Resolution No. 23 of December 30, 2019	2	Unknown
8409.91.11	6	Set steel rod HS35DAV forged responsible for transforming the linear movement of the piston in crankshaft rotation, applied in motor vehicles with internal combustion engine, with a wheelbase of 142.5 mm and hardness of between 23-30 HRC; comprises two screws MB12 material of high resistance.	Resolution No. 23 of December 30, 2019	2	Unknown
8409.91.90	60	Calibration tube with smaller largest outer diameter 4.15 mm and outer diameter of 3.85 mm, taper for insertion calibrated force between 40 N and 250 N, the total length of 7.0 mm and an average thickness of 0, 6 mm, manufactured by microestampagem process equipment UNI EN X5CrNi18-10 1008B-2, used in fuel injectors for automotive internal combustion engines of the Otto type direct fuel injection.	Resolution No. 23 of December 30, 2019	2	Unknown
8409.91.90	61	Seat fuel injector valve sealing, weighing approximately 0.66 g, is used to guarantee the tightness of the GDI direct injection systems in internal combustion engines for automotive vehicles; made with specific dimensional tolerances obtained by means of powder metallurgy process for atomization and for metal injection molding (MIM) on a metallic cylindrical body, with dimensions of approximately 5.9 mm diameter; 5.4 mm in height and internal profile rectified	Resolution No. 23 of December 30, 2019	2	Unknown
8409.91.90	62	flexible board that connects the output of the engine crankshaft to the input of the torque converter input shaft of the automatic transmission of the vehicle, made of carbon steel heat treated to toothed ring with a diameter of 291 mm x 26 mm thickness and 3.92 mass kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8409.99.12	4	ignition internal combustion four cylinders in line, with 4 liters working volume of 7.2 liters for the production of truck and bus engines with power of 110kW to 160kW, weight 150 kg, with a 102mm inner diameter of the combustion chamber 106 mm responsible for sustaining		2	Unknown
8409.99.99	37	flywheel housing of cast aluminum weighing between 33kg to 22,8kg, for use in compression ignition (diesel) engines for trucks and buses vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8409.99.99	38	Set counterbalance compound Diesel engines by two helical gears with diameter up to 105 mm, mounted on cast iron housing, unbalanced masses, the total weight up to 13 kg lubrication channel in the shaft of the gears, specific to the function of equalization of vertical forces of diesel engines for agricultural machines.	Resolution No. 23 of December 30, 2019	2	Unknown
8413.30.90	10	electric pump for cooling water used in commercial vehicles controlled via CAN J1939, 2.0B, with a speed of 500Kbps; degree of protection against dust and moisture minimum IP6K9K and IP67; maximum voltage of 38V operation and maximum power of 500W.	Resolution No. 23 of December 30, 2019	2	Unknown
8413.30.90	11	the cast iron housing for a diesel engine, in-line 6-cylinder, with a flow of 8.2 liters / second, weighing 13 kg, outlet diameter of 60 mm and with input oblong 48x74mm, applied to trucks	Resolution No. 23 of December 30, 2019	2	Unknown
8413.50.90	1	Aria hijection pump 32 weigning approximately 1,570 grams operating at temperatures higher than -5 degrees Celsius and which has the function to receive the tank Arla perform the process of filtering and pumping unit for dosing a pressure of 8 5bar.	Resolution No. 23 of December 30, 2019	2	Unknown

	<u> </u>	electro hydraulic pump for use in steering box	<u>'</u>		
8413.60.11	7	for electric or hybrid vehicles, with two hydraulic pumps and two electric type brushless motors (brushless), protection against dust and moisture (minimum IP6K9K and IP67), controlled via CAN 2.0B with J1939 speed configurable 250 and 500Kbps, maximum working pressure of 150bar to 180bar, lower than or equal to water displacement per revolution 4cm ³	Resolution No. 23 of December 30, 2019	2	Unknown
8414.10.00	2	a vacuum pump for vacuum generation necessary for the braking system in engines with direct injection, turbo compressor and variable valve timing; mainly composed of aluminum housing, internal control valves alloy steel and plastic pump connector; Approximate measurements of 160 mm x 124 mm x 79 mm and approximate weight of 0.90 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8414.90.39	40	Plate pressure used in air compressor head for commercial vehicles, comprising blades with brazed material according HN150-02 (11SMn30, SS400, # 45), valve opening and closing special steel (1 X38CrMo13 "Hiflex") and special steel plates, for maximum operating pressure up to 16 bar, specified for up to 490cm³ water displacement and working temperature up to 350 degrees Celsius	Resolution No. 23 of December 30, 2019	2	Unknown
8415.90.90	27	Unit indirect condenser of the air conditioning system manufactured of aluminum with integral desiccant AW3003-0, 12V, and systems for printed circuit boards, inlet and outlet fluid connectors with brazed operates with R134a refrigerant and HF01234yf, heat exchange with mixture cooling fluid 50% / 50% coolant, loss of cooling load 188-220 mbar side refrigerant and 400-557 mbar; coolant inlet temperature 50 degrees Celsius and entered the refrigerant temperature 105 degrees Celsius; cooling rate to 11 kW, coolant flow 800-850 kg / h, cooling fluid volume of 265 ml and 270 ml refrigerant fluid, flow plates 18-8, cooling fluid inlet pressure 2.0 MPa, maximum leak 2.0 * 10-5 mbar (maximum 5 g refrigerant leak per year), the total weight up to 2.3 kg applied to motor	Resolution No. 23 of December 30, 2019	2	Unknown
8421.39.90	1	the total weight up to 2.3 kg applied to motor Set the rear rigid axle type banjo with a capacity of vertical load of 1800 ± 50 kg, length 1620 ± 10 mm and diameter 75 ± 10mm composed by housing, half shafts, brake components drum type and rear differential with crown 240mm diameter, satellite box 4 pinions and second planetary gears and bearing preload adjustment system for adjusting ring, applied to light trucks	Resolution No. 23 of December 30, 2019	2	Unknown
8424.90.90	4	Set diver nozzle scrubber water jet windscreen used to direct the jet of water on the windscreen of the vehicle, comprising the body tube outlet plate, molded valve in plastic and joint sealing, with an approximate weight of 13 g 15 g with dimensions of 23.7 mm height x 21 mm width x	Resolution No. 23 of December 30, 2019	2	Unknown
8481.20.90	79	Valves for Pneumatic transmission fabricated metal, rubber and plastic, directional type with 3/3 function, with control "on-off" Mechanical driven lever for leveling the cab suspension of commercial vehicles through pressurization and exhaustion blocking the compressed air in the pneumatic pockets cabin, maximum working pressure of 14 bar and nominal flow up to 1001/	Resolution No. 23 of December 30, 2019	2	Unknown
8481.20.90	88	Valve electric-pneumatic transmission driven by pedal, with maximum pressure of 15 bar and generation of electrical signal by pulse width modulation (PWM) with maximum current of 15 mA, for control of the electric-pneumatic commercial vehicle braking system.	Resolution No. 23 of December 30, 2019	2	Unknown
8481.40.00 8481.80.21	2	relief valves for internal combustion engines for turbocharged spark. Thermostatic valve with built-in electric heater, temperature control opening through the heating element energizing wax embedded heater, to improve energy efficiency optimized by control of engine coolant temperature; composed mainly plastic housing, wax element brass, spring cartridge heater and stainless steel compression limiting sleeve carbon steel coated with electroless deposition of nickel and zinc connector water temperature sensor; Approximate measurements of 203.70 mm x 104.40 mm x 114.36 mm and approximate weight of 0.29 kg.	Resolution No. 23 of December 30, 2019 Resolution No. 23 of December 30, 2019	2	Unknown

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8481.90.90	5	Compound armor set of rubber and plastic weighing approximately 200g, working pressure up to 10 bar and a maximum length of 50mm, with the work function modulating valves, ABS braking systems for commercial vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8481.90.90	6	Magnetic head comprising an electromagnetic coil which, via an electrical signal performs opening and closing the air passage in the PCV valves and relays ABS's.	Resolution No. 23 of December 30, 2019	2	Unknown
8482.91.30	1	Tapered roller bearings in 100Cr6 steel with hardness 60 to 66 HRC conical geometry having the largest diameter of 6 mm to 8.5 mm and minor diameter of 5.5 mm to 8 mm, with angle range between 1 degree and 3 degrees, length of between 10 mm and 15 mm, polished surface finish with a maximum roughness Ra of 0.08 mm and a convex profile with a radius ranging between 1000 mm and 9000 mm for application in high precision bearings used in automotive	Resolution No. 23 of December 30, 2019	2	Unknown
8482.99.90	10	Rings compounds of metal core and special rubber coating with magnetic properties, in which are built a sequence of magnetic pole pairs arranged side by side, ranging between north pole and south pole in a quantity ranging from pairs 41, 42, 44 and 48 poles (a total of 82, 84, 88 and 96 poles respectively), the maximum reading error of 5% by poles and maximum cumulative error by 6% resistant to temperatures between -40 degrees Celsius and 120 degrees Celsius, minimum magnetic amplitude of 1.5 mT to 25 degrees Celsius and a maximum outer diameter of 65 mm, for use in high precision bearings used in automotive vehicles	Resolution No. 23 of December 30, 2019	2	Unknown
8483.10.19	9	bearings used in automotive vehicles Set \$30CM\$1 crankshaft steel, forged, assembled with steel balls used in vehicles with passenger car internal combustion engine, responsible for the transformation of the linear movement of the piston into rotational movement resulting in the propulsion of the vehicle with a weight of 15.4 kg, total length of 472.5 mm and	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.90	5	Variable phase axis command with sintered trilobular sprocket teeth with 0.05 mm profile line of tolerance, surface roughness 1.6 RA and hardness 50 HRB min with springs and steel oil check valve capable of 0626 ml / ° integrated for internal combustion engines.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.50.90	8	coupling floppy torque converter to the crankshaft axis, designed in special alloy steel LAX550Y620T; 290mm outer diameter, 230mm with 6 fixing holes, 2.5mm + 0.2mm thickness and geometry with disk-shaped presence of welded rack; Smaller sized to tensile and compressive stresses than 289 MPa and a higher axial stiffness to 3905 N / mm, weighing approximately 2 kg	Resolution No. 23 of December 30, 2019	2	Unknown
8483.50.90	9	friction wheel with electronic actuator driven by the vehicle module in order to start and stop the operation of the water pump in the accessory system, used in lightweight line of vehicles with Otto cycle engine, made up of 0.0415 kg; Aluminum 0.100 kg; Bearing 0.206 kg for a total mass of 0653 kilograms.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.60.90	4	transmission plates in SAE J2340 550XF steel alloy with a thickness of 2.6 + 0.1 mm with 20 degree pressure angle gear ring cast iron J 403 SAE-AISI 1045 with hardened teeth with surface hardness 50-60 HRC and a plate retention steel ST-S-CRI300T; MS-1030Y thickness of 1 + 0.1mm engines used in vehicles with automatic	Resolution No. 23 of December 30, 2019	2	Unknown
8483.60.90	5	Attenuator noise and vibration of the air compressor gear with an area of the cutouts (flanks) coated carbon (thickness 2-4 micrometer) with subsequent curing, diameter 69 mm, thickness of 9.5 mm set consisting of two plates HNBR1-60 steel with elastomer within a 42CrMo4 + QT and another case hardened 16MnCr5, which withstand temperatures up to 125 degrees Celsius	Resolution No. 23 of December 30, 2019	2	Unknown
8483.90.00	36	Eccentric operation AlSi9Cu3 manufactured in aluminum alloy (Fe) which is an integral part of the mechanical assembly of automatic tension adjustment primary belt for use in automotive timing system with eccentricity value between 0mm to 5mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.90.00	37	metallurgy and ferrous alloys with surface treatment by oxidation by steam, with 18 teeth with 9.525 mm pitch for engagement with a chain pitch diameter of 54.85 mm and with a total mass of 0.140 kg.	Resolution No. 23 of December 30, 2019	2	Unknown

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8501.10.19	22	AlMg4,5Mn0,4) and electric drive 37W DC motor without electronic integrated circuit board, weight less than 1687 g drive to the drive systems of vehicle side windows, using drive to a single touch and remote control, equipped with anti-crushing function, these features being controlled by the electronic module, applied to automotive vehicles	Resolution No. 23 of December 30, 2019	2	Unknown
8501.10.19	23	automotive yehicles 18 degrees Step electric motor for use in automotive tachograph, with power excitation to 3 Watts coupled to reductive speed gearbox, with external dimensions of 30.4 x 31 x 27.4 mm and diameter gear 12 mm with 20 steps per revolution, whose maximum operating frequency is 220 Hz in the temperature range of -40 to +85 degrees; CuZn39Pb3 has gears, steel shaft and	Resolution No. 23 of December 30, 2019	2	Unknown
8501.31.10	24	Electric Actuator controlled electronically, with 12 or 24 Volt supply voltage, current, nominal output up to 22 amps, power up to 310 Watts and travel up to 810 mm, fixed to the agricultural machine via two holes located at the ends of the rods 13 mm diameter, weighing up to 7 kilograms used in the handling and adjustment of the deflector straw chopper in agricultural harvesters	Resolution No. 23 of December 30, 2019	2	Unknown
8505.19.10	17	ferrite permanent magnet direct current applied	Resolution No. 23 of December 30, 2019	2	Unknown
8507.60.00	18	to the electric fan motor vehicle cooling system. Set of high-voltage lithium ion 100 to 200 kWh for automotive use, with water cooling system, with a nominal supply capability 600 to 700 volts to the high voltage system, consisting of 3 or 6 batteries in order with rectangular dimensions (900-1200) mm x (600-750) mm x (200 to 350) mm (± 10% tolerance in measures) each and a battery management unit and energy distribution dimension (425-475) mm x (375-425) mm x (200 to 250) mm (± 10% tolerance in measurements)	Resolution No. 23 of December 30, 2019	2	Unknown
8511.40.00	3	Starting motor responsible for motor drive to the motor fuel, comprising solenoid coupled to the body armature pinion planetary gear, shaft, stator 6 poles with auxiliary poles, the rotor and support brushes power between 1 2 kW to 1 4 kW outer diameter of 72 mm armature body, operating temperature of 40 degrees Celsius to 100 degrees Celsius, minimum supply voltage of 7 V in the condition 20 degrees Celsius maximum noise of 85.5 dB (a) during the match.	Resolution No. 23 of December 30, 2019	2	Unknown
8511.90.00	40	Fixed magnetic switch core used in starter motors, made in steel, cold extruded materials XC10 according to the standard NF 35564-83, burrs are prohibited in radius between 0.5 mm to 1.5 mm without grease, without oil, no carbon deposit, no fluid extrusion or other deposited components in the areas of interface with other components areas F and G, only metal look, overall roughness between 2.5 to 4.5 micrometer, F surface free from components compatible with electric welding	Resolution No. 23 of December 30, 2019	2	Unknown
8512.20.11	11	Front Bi halogen with changing high and low beam by mechanism with integrated solenoid valve in the headlamp, power of 60 watts and 12 working voltage up to 24 volts, fixed to the tractor by three points, with a plastic housing and lens with diameter up to 85 mm, specifically for use in tractors and agricultural sprayers.	Resolution No. 23 of December 30, 2019	2	Unknown
8512.20.23	7	right tail / left responsible for passenger motor vehicle signaling; consisting of illumination of brake lights in LED technology, position light in LED technology diffused by the light guide homogeneous and light arrow bulb, at least the upper insulation resistance of 5 mega ohms at 500 V and mass 1, 28 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8512.90.00	24	Support arm windscreen wiper pressed steel, thickness 1.5mm to 2.0mm with pin mounted for spring support and clamping cone axis of the drive mechanism of 18.9 ° named locator.	Resolution No. 23 of December 30, 2019	2	Unknown
8529.10.19	8	Antennas for signal distribution WiFi / Internet application Infotainment system / Automotive Telematics	Resolution No. 23 of December 30, 2019	2	Unknown
8533.31.10	2	electric pot with 300 degree axis travel +/- 5 degrees, shaft diameter up to 10 mm, IP60 protection level, with 4-pin connector, specific use for electric current control of electronic systems on agricultural tractors.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.41.00	5	Electronic radiator electric fan speed control module, with a display in the engine bay area, having two encapsulated relays and a printed circuit board.	Resolution No. 23 of December 30, 2019	2	Unknown

8536.50.90	50	circuit stop vehicle propulsion compression	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	51	Switch by pressing the 'type Stop' to light circuit drive stop in automotive vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	52	Electrical contactor injected plastic PA6-GF50 + Cu37Zn / PET for disabling the cruise speed and the command (Start and Stop) and for use in compression ignition engine.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	53	multifunction control switching key, installed on the steering column for direct control (10 A) or indirect (20 mA), with direction arrow functions, switching on of headlights, wipers front windshield and rear, horn and steering wheel controls, applied to automotive vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	54	Sensor electronics with working voltages 12-32 V to be mounted in cubicles, with a maximum working current of 200 mA used in wiring and electronics for commercial vehicles; dimensions of 10 mm x 25 mm x 262 mm (height x width x length) and approximate weight of 0.2 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	55	electromechanical sensor 12 V operating voltage to be mounted on the brake pedal, used in the wiring for motor vehicles; with dimensions of 88 mm x 28 mm x 46 mm (height x width x length), weight approximately 0.05 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	56	Set of external opening tailgate command button to electric drive to open the trunk, composed of housing (body) plastic injected with polyurethane cover, back cover and piston in injected plastic, stainless steel compression spring, flooring silicon, nickel and tin contacts and electrical connector 45g weight and dimensions of 79.9 mm x 41.3 mm x 30 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	57	electromechanical module applied to the steering column to provide the driver with access to steering change commands (arrow), switching on of headlights, windshield wipers, rear and horn glass, offers radio controls and limiter and cruise control, has interfacing with the electronic communication distance for locking and unlocking the door key and the communication with the transponder antenna key for starting the engine, with dimensions of 410mm x 120mm x 125mm, 48g composed of electronic components; thermoplastic 225g; steel 6g; forged steel 5g; zamac (Zn-Al) 6g; stainless steel 46g; brass 5g; 25g copper; 0.5 g tin; 0.5g elastomer; Gold 0.5g; 0.5g other precious metals; Zinc:	Resolution No. 23 of December 30, 2019	2	Unknown
8537.10.90	28	control multiple functions of the center console unit, built in PA66 hard plastic and electronic circuits, making USB 12V, cigarette lighter, switches and buttons, applied to motor vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8537.10.90	29	Drive controller of the air conditioning system of the vehicle, with one temperature zone with 3 knobs, keys 2, first lever position, with dimensions of 333.7 mm x 224.4 mm from the lower base to the center of the upper clip x 222.3 mm and weight between 850 g and 890 g	Resolution No. 23 of December 30, 2019	2	Unknown
8537.10.90	30	Unit controlling the air conditioning system of the vehicle with one temperature zone with 3 knobs, keys 3, with dimensions of 305.8 mm x 189.6 mm x 124.6 mm and weight 770 g	Resolution No. 23 of December 30, 2019	2	Unknown
8537.10.90	31	Unit controlling the air conditioning system of the vehicle with one temperature zone with 3 knobs, keys 2, first lever position, with dimensions of 372.8 mm x 234.8 mm x 189.5 mm and weight of 850 g 890 g	Resolution No. 23 of December 30, 2019	2	Unknown
8537.10.90	32	Control panel, made of polypropylene consisting of keys to control raising and lowering of the air suspension system of the vehicle by pressurizing the air bags, control dimensions are 124.5x72.65x9.7 [mm], connected by a coiled cable and a 6-way connector at the other end, + 24V working voltage with - 25% DC with a thermal operating range of -40 degrees Celsius to +70 degrees Celsius	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.94	7	Button injected polycarbonate (PC) black with glossy black 11bk01 painting, cutting the writing laser vaporization 11bk01 printing application ref dimension. $10.2x8.8 \pm 0.05$ mm for identification and trigger various functions set for the air conditioning module.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	24	type hydraulic bottle Jack, with main snart steel C45 EN-10083/180 + 40HB, the maximum load capacity of 2500 kg without action height 160mm, maximum height: 423,5mm, used to raise the car to exchange steppe with wheel key extractor or central rim finish towing hook levers to remove the fifth wheel	Resolution No. 23 of December 30, 2019	2	Unknown

8708.29.99	63	Set for the panoramic roof fining of motor vehicles, aluminum structure with electrical opening system bulkhead made of fabric containing electric motor drive 12 V and harness for connection dimensions of 1505.31 mm in length, 823.24 mm wide and 950 mm width and	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	114	Cabin vibration damper pneumatic bag with a maximum diameter of 140mm and a maximum pressure of 10 bar, with internal leveling valve, power connectors pneumatic type push in / push out and slide bearing rods with the ends; 296mm distance between rods with bushing holes when the pocket is compressed and 379mm when the pocket is open.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	115	Cabin vibration damper with air bag maximum diameter of 140mm and a maximum pressure of 10 bar, pneumatic supply type push in / push out connectors and rods with sliding sleeve at the ends, the stems have a distance between 257 mm bushing holes when the pocket is compressed to 379 mm when the pocket is open.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	116	Support left external rearview mirror and / or right with automatic folding composed plastic body Pamxd6 (gf + PD) 55, metal screws treatment mfzn2-c, drive gears Pom plastic movements, spring steel with surface treatment Mfzn2 -hc, Cr rubber gasket with hardness 50 + -5 mm, wire harnesses and driven by DC motor with full power of 0.66 watts with operating voltage range of 9.5 ~ 16.0 V and voltage V 13.5 V, applied to automotive vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	117	Cantilever the seat belt fastening, transferring the opening movement and the closing lock by inserting or ejecting the tongue, composed of plastic parts manufactured in materials Derlin 500 and Ultradur B4500, with dimensions of 13.55 x 37.8 mm, flame resistant as standard FMVSS (Federal Motor Vehicle Safety Standard) at 302; dimensional workpiece after application 95Graus Celsius temperature can not be greater than 0.2 mm deviation in relation to the current	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	118	dimension Guide height adjustment system of the vehicle safety system, manufactured in two versions, with approximate dimensions of 23 x 64 mm, the first of injected plastic, POM Delrin 500T or Hostaform C9021 material, flame resistant as FMVSS standard (Federal Motor Vehicle Safety Standard) at 302, and the second pressed steel, EN1706 AlSi12Cu1 materials (Fe), resistant to corrosion standards DIN 50021 SS, alternative NF X 41002 or ASTM B 117, both supporting	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	119	external handle to consist automotive vehicle plastic pamxd6 (gf + md) 42 and provided with terminals for compound harness C2600, wires, tube and PVC adhesive and electronic connectors drive 8-pin plastic - Black PBT / bpt GF15 gray plate electronic PCBA - PCB antenna - base copper coil terminals c2680, adhesive functions of locking and unlocking access.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	120	Bed latch (tread head), made of cast aluminum, instant supporting torsional loads of up to 150 Nm without failure, being a component of the motor vehicle safety system.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	121	Set of curved trim pieces in polycarbonate and ABS / PC plastic painted in glossy black (Piano Black), located on the instrument panel, with dimensions of 840 mm x 270 mm and paint protection against sunlight (UV PV0900042 and PV10004) with weight 0338 kg, component applies chromium satin polycarbonate and plastic ABS / PC with dimensions of 85 mm x 20 mm and weight 0.003 kg set of drivers air fins composed of polycarbonate and plastic components PA + GF50 and internal opening and closing mechanisms of the air system, with dimensions of 200 mm x 60 mm and weight 0230 kg		2	Unknown
8708.29.99	122	Set of finishing components in high standard located in the rear region of the central console with armrest function and door internal objects with opening and closing system supporting arm coated fabric with attached inner foam, internal compartment for objects polycarbonate and plastic (PC / ABS-GF20) coated with vinyl glazed at the base, backbone assembly and polycarbonate plastics (PA66-GF50) with set dimensions (386 mm x 322 mm) and weight 1 947 or	Resolution No. 23 of December 30, 2019	2	Unknown

8708.29.99	123	Accommodation for lock actuation mechanism sensor seatbelt in the event of a vehicle crash; crystalline thermoplastic resin made of polyoxymethylene (POM Duracon SX-35), working temperature of between -40 degrees Celsius to plus 105 degrees Celsius (<50% moisture), dimensions: width 10.5 mm; length 19.6 mm; height of 10.0 mm and weight of 0.22	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	124	Bed responsible for the collection of inertia balls pretensioner mechanism motor vehicle safety belt; Application of bodywork made of stamped steel St4, surface treatment with DIN EN 12329 - Fe / Zn8 / A maximum weight of 26 gr.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	125	operating temperature between - 40 degrees Celsius to plus 105 degrees Celsius (POM Delrin 100P CN 010) applied in sensor that integrates body mechanism responsible for pre-tensioning which blocks the travel of belt, during the vehicle	Resolution No. 23 of December 30, 2019	2	Unknown
8708.30.19	4	Blake pads with dimensions of 123,15x54,20x15,10mm to set the brake disc Ø 257x22mm ZOHØ54-containing reinforcing sheet of low carbon steel, cylindrical projections and the friction material with organic / mineral fibers	Resolution No. 23 of December 30, 2019	2	Unknown
8708.30.19	5	Brake pads with dimensions of 82,10x49,6mm (33.70 + 15.9) of the brake ZOHe-BIR-III-Ø38 Ø 270x9mm disc plate containing low carbon steel and friction material with organic / inorganic fibers , mineral abrasives, solid lubricants, connected by hardened resin term.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.30.19	6	Brake pads with dimensions of 115,7x54,55x18,2mm, the front disc brake ZOHe Ø57xØ282x25mm containing platelets low carbon steel and friction material of organic fibers / inorganic, mineral abrasives, solid lubricants, connected by cured resin term and painted in black with synthetic enamel.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.30.90	55	Electromechanical Actuator (MGU) for actuation and release of the parking brake lever rear electric drum-type parking brake system (EPB) integrated operating temperature from -40 degrees celsius to +90 degrees Celsius, the voltage range 8 V to 17 V, the drive time between 1.15 and 2 s (0-40 degrees Celsius), minimum force of 1100 N acting net weight equal to or less than 0.8 kg, and applying the brake drum diameter 180 mm to 331 mm	Resolution No. 23 of December 30, 2019	2	Unknown
8708.40.90	76	Control gear changes to the transmission type CVT used in passenger cars, with dimensions of 352mm to 442mm (+/- 5mm) x 228mm to 278mm (+/- 5mm) x 131mm to 138mm (+/- 5mm) and weight 0.980 kg to 1,390 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.40.90	77	Tube with deep-drawing steel in DD13 total length of 145 ± 1 mm, the base flange Ø129-0.2 mm, Ø 3 with stepped internal Ø81 + 0:12, Ø 72.6 + Ø70.025 \pm 0.2 and 0:08, 5 staggered external of 111.5 ± 0.5 , \pm Ø85.05 0:06, 0:06 \pm O84, O74 Ø57-0.13 \pm 0:06 and without any machining after the printing and phosphate	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.80	28	Sel'axie snart of the transmission used in passenger motor vehicle to transfer gearbox torque to the wheel shaft comprises at HS50BCMHV, balancer weight hoods, latches,	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.80	29	electrified rear axle with a maximum capacity of 13 tons (on the shaft) portal-like suspension, disc brakes, integrated bumpers and electric engine, with composite engine by two three-phase motors directly integrated into each wheel, respectively (one per wheel) and protection index IP6K9K, rated voltage of 650 V system power 250 kW (peak) and dimension (end to end) 2277 mm consisting bus application with steel, aluminum, plastic and copper	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.80	30	steels and alloys, aluminum and rubber. comprises brake supports, stabilizer bar, differential axle shaft assemblies, the suspension support frame, and drives left and right brake	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.99	40	Seini-axies for light commercial venicles for torque transmission transfer case to the front axle, and front to front wheel shaft, provided with gasket fixing joint SX33 with maximum torque capacity of 3330 Nm and sliding pivot joint DOL37 with maximum capacity of torque 3700 Nm	Resolution No. 23 of December 30, 2019	2	Unknown

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8708.50.99	41	Cover mechanism with four holes sized \emptyset 6.80 mm +/- 0.40 mm, between holes 45.0 mm x 45.0 mm +/- 0.20 mm, height 7.5 mm in the central region 14.0 mm, the face height to the center of the threaded hole 9.5 mm to 20.5 mm threaded hole M12 x 1.5 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.99	42	Cover square geometry diff-lock with dimensions of four holes of 9 mm +/- 0.2 mm leased on a 98 mm +/- 0.25 mm, height 22.0 mm in the central region of +/- 1 , 0 mm; face height to the center of the threaded bore 30.0 mm +/- 0.5 mm threaded hole M12 x 1.5 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.80.00	19	Support assembly of the rear suspension, of carbon steel with anti-corrosion paint used as the main element of fixation of the rear suspension on the body, characterized as part of the suspension of motor vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.80.00	20	Cushion damping suspension of the commercial vehicle, vulcanized rubber with steel and cast internal layer consisting of upper and lower cushioning relating GGG 60 F 3201, internal plates in ST42 material coated elastomer, weighing 12.84 kg Height 142 mm, width 157 mm and length 268 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.92.00	11	Exhaust lowering compound internally monolith coated for treating gases as standard EURO5, filter particles and external components in stainless steel alloys, support for sensors in FR 1 4511, pressure tube for entries with outer diameter of 60 mm, hooks tubes and envelope EN 1 4512; flange thickness of 8 mm and made of flexible element S235JRG inner diameter 45 mm, outer diameter 82 mm and length 135 mm; complete piece has a nominal weight of 9.75 kg and approximate external dimensions: 1,050 mm $x = y = z = 450$ mm and 400 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.92.00	12	tight flexible element (convoluted) with vibration damping screen, made of two stainless steel compositions used in truck and bus exhaust system for damping vibrations of the differences between the engine and the vehicle chassis.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.94.83	4	Power assisted steering electrically box (EPS) having rack technology with zone recirculating ball and engine interface with rack via belt (Belt Drive EPS), sensors, electric DC brushless motor with torque between 5.0 Nm and 7.0 Nm, force action on the rack between 9 kN and 12 kN, connectors and torsion bar, used in automotive light utility vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	61	Support lower step stirrup comprises two stamped steel plate and welded in opposed position with reinforcement plates which weld nuts are secured, with the function of performing the mounting interface between the lower bracket and the fixed supports the longitudinal beams, weighing 3,7kg and measuring 505mm x 194mm	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	62	electrical contactor injected plastic PA6-GF50 + Cu37Zn / ETP to cruising speed and disabling command Start and Stop and use in engine ignition spark	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	63	with contactless reading technology with maximum power consumption of 40mA with maximum angle of 20.9 degrees and stop resistant to the application of lateral forces up to 200N, dimensions 184.27 + / -0.2 +/- 1.6 mm x 115.2 for use in motor vehicles	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	64	Support bearing for fixing the intermediate transverse transmission end of the gear box, made of aluminum alloy, by injection molding process at high pressure and machined finish.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	65	riront elastic linkage of the rear axie with simultaneous functions to hold the connection between the rear axle and body, manage the wheel plane and filter vibrations and noises having metal components, plastic and rubber type "bi-material," to reduce acoustic and wibrational poise	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	66	Set drive the manual accelerator lever comprises, pot, plastic housing fixing lever, cable and connector, with travel of lever 300 degrees +/- 5 degrees, IP60 protection level, the specific use for electric power control the acceleration of agricultural tractors system.	Resolution No. 23 of December 30, 2019	2	Unknown

8708.99.90	67	Reservoir power steering fluid plastic compound PA66, with a total volume of 1.35 dm3 height of 52 mm between the base and the seat support region with an input and an output gantry, with the distance between the center 50 mm, operating temperature of -40 degrees Celsius and 120 degrees Celsius level sensor electrical cable with DIN 76 722 type, connector MKR / S 2 "on outer end operating voltage between 12 V and 24 V, used in commercial vehicles.	Resolution No. 25 of December 30, 2019	2	Unknown
8708.99.90	68	Set lever electronic exchange for change of direction of movement of the agricultural tractor with plastic housing and latch by reliefs on the preset position manually operated to drive the agricultural tractor in the selected direction, equipped with Hall effect sensors, indicating three possible positions the lever (forward, reverse and neutral), with optional coupling strength button direction of trade (higher intensity, neutral and lower intensity), with IP protection level 67 and equipped with whip to send the electronic signal to the module transmission control of agricultural tractors.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	69	Rush rear axle suspension system, made of alloy steel MnVS5 (manganese, vanadium and sulfur) by the hot forging process, which may or may not contain finish machined.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	70	Tube engine cooling circuit connection with oil heat exchanger, rigid mixed steel pipe with fixing welds and connection to flexible heat exchanger EPDM rubber, outer diameter 25 mm, thickness 1 mm, with surface treatment of galvanizing steel, operating temperature of -40 degrees Celsius to 135 degrees Celsius.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	71	Steel pipe for passage of checking and measuring the dipstick in the crankcase of the motor vehicle engine with internal diameter of 12mm and an external diameter of 14mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	72	Cover macal together with pins, rectangular shape, total length of 407.0 mm to 417.0 mm; overall height 135.4 mm to 138.6 mm; width 277.0 mm to 281.0 mm, 4 holes 22.0 mm to 23.0 mm and two pins Ø 8.0 mm to 8.5 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	73	Multifunctional mounting bracket, injected polypropylene tough polymer with high temperature filler used with multiple fastening and guide function of the main harness, motor and battery, directing them correctly in the engine compartment, measuring 108.5 mm x 182 mm x 77.6 mm and with a total mass of 52 g.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	74	Lock for mounting batteries, composed of plastic part manufactured in polypropylene polymer with 30% glass fiber used in a battery box having predisposition to 3 battery sizes (L1, L2 and L3) dimensions (62.2 mm x 119.1 mm x 67.5 mm) with a total mass of 52 g.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	75	connection made of metal easy cutting of carbon steel, manganese sulfide and threaded on one end of M20x1.5 with 13.75 mm diameter through hole with a specific geometry for an interface between engine block and oil filter support and with a total weight of 0,053 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
9026.10.29	1	level meter 12 working voltage or 24 V to be mounted cooling liquid tanks with a maximum power of 10 W working, and chain 24 V 416 mA and used in coolant level reading for vehicles automotive; with dimensions of 272 mm x 38 mm x 350 mm (height x width x length harness) and approximate weight 0.05 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
9026.20.90	26	Pressure transducer piezo resistive with varying resistivity, made of brass, used in the suspension control system of vehicle with air suspension, which is responsible for converting mechanical quantities (pressure) [bar] in voltage [V] and by keeping constant the height the chassis of the vehicle according to the load variations.	Resolution No. 23 of December 30, 2019	2	Unknown
9026.20.90	27	electronic pressure switch of the piezoelectric type for pneumatic systems with 24 V supply and resistive signal lower outlet 12 ohms when connected and greater than 100 kohm when turned off, mounted in a metal housing with plastic connector PBT reinforced with glass fiber, that meets automotive application, as standard applicable IATF.	Resolution No. 23 of December 30, 2019	2	Unknown

9026.20.90	28	engines of automotive use; composed of various materials (steel, plastic); with operating pressure up to 0.6 bar; hydraulically operated, two position (open / closed); with counters for electrical signal transmission to engine operating diagnosis	Resolution No. 23 of December 30, 2019	2	Unknown
9031.80.99	18	Detonation sensor for transforming mechanical vibration motor in electrical oscillations capable of being interpreted by the control unit, with 15KHz resonant frequency applied in the engine block of the motor vehicle	Resolution No. 23 of December 30, 2019	2	Unknown
9031.80.99	62	Electronic measuring lateral acceleration unit, longitudinal and rotational speed of the vehicle around its vertical axis, with a yaw rate sensor, acceleration and connector X1 to communicate sensor CAN bus, suitable for use in stability control systems (ESC - Electronic Stability Control) ABS brakes for trucks and buses.	Resolution No. 23 of December 30, 2019	2	Unknown
9031.80.99	63	Knock sensor for transforming mechanical vibration motor in electrical oscillations capable of being interpreted by the control unit, with a frequency of 2.5 kHz to 17 kHz applied to the motor vehicle engine block. electronic control unit solenoid drive, electric	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.21	8	motor and hydraulic pump for brake fluid flow control modules antibloqueante system ABS modules brakes (Anti-Lock Brake System) and / or ESC (Electronic Stability Control), composed of board with electronic printed circuit weighing less than 0.70 kg, has 12 solenoids, a microprocessor, electrical connector of 46 pins, storage memory of the EEPROM type, processing and dedicated communication software and integrated into systems with self-diagnosis functions, safe mode, issue of fault diagnostic code, diagnosis of the electronic brake system using CAN communication network.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.21	21	pneumatic brake cylinders of commercial vehicles, having a relay valve, a pilot unit with inlet valve output and redundancy, pressure sensors, an electronic control unit integrated	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.21	22	Electronic Control Unit (ECU) valve solenoids and cylinders EBS brake system (Electronically Controlled Brake System) commercial vehicle, capable of reading data from the pressure sensors and speed sensors, with operating voltage range V 24 + 8 / -4 and DC operating temperature between -40 and +80 degrees Celsius.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.21	23	Sensor for measuring the yaw rate / skid (Yaw Rate Sensor) for heavy commercial vehicles for passenger or cargo transport for driving assistance functions with internal microcontroller is composed of dual axis sensor for measuring acceleration and measuring the yaw / skid, with nominal voltage of 14V and mass between 0.1 to 0.3kg, the sensor is equipped with a 4-pin DIN connector (ground, power supply, CAN high and CAN low) and communication between the elements of the and the internal sensor is made by microcontroller Serial Peripheral Interface	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.22	7	Electronic control unit (ECU) 24V air suspension with 8 inputs for sensors for processing system signals, with five outputs for solenoid valves, and first communication port via CAN up to 500KB / s for sending command level adjustments air suspension on heavy commercial vehicles to transport loads of passengers.		2	Unknown
9032.89.25	8	Electronic Control Unit - (Exhaust Emissions Control Unit) for post-treatment of the exhaust system of heavy duty commercial vehicles for transporting cargo or people, with 24 V power supply with two or more 75-pin connectors or more, weighing between 660 and 710 g, made of steel housing with cover in engineering plastic, used to control exhaust emissions to meet the future requirements of Euro 6 (PROCONVE P8).	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	92	electronic controller proportional transmission frequency of rotation of the crankshaft position and speed, with operating temperature of -40 ° to + 150 ° C and maximum speed of crankshaft rotation to 8.000rpm applied in motor vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	93	fan control, containing thermal protection system fan alloy bi-metallic fuse term second power connector (two) copies and command four (4) copies for temperature control vehicle engine	Resolution No. 23 of December 30, 2019	2	Unknown

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9032.89.29	94	Radar short SRR (Short Range Radar) with a mass of 0.2 kg to 0.5 kg, 24 V, 76-77 GHz sweep frequency, bandwidth of 180 MHz to 500 MHz, for detection of objects in side regions of heavy commercial vehicles to transport cargo or passengers equipped with advanced driving assistance functions.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	95	Pressure Controller Module (Pressure Control Module - PCM) with 16 V operating voltage to 32 V, operating air pressure of 8 to 13 bar and operating temperature range of -40 degrees Celsius to +85 degrees Celsius with actuators electro for brake systems for heavy commercial vehicle passenger and cargo transport, comprised of basic cast aluminum, pressure sensors, microcontroller (Printed Board Circuit) CAN communication network, relay valve, filter, vent valve solenoid for circuit reservation inlet and outlet solenoid valves to electronic control of the brake pressure	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	96	brake pressure Front camera for embedded driving assistance systems consisting of lens with horizontal viewing angle of 43 degrees, 28 degrees from vertical; image processing unit (IPU) and converter digital analog; monitors the road ahead of the vehicle, identifies obstacles and clearance regarding the boundary lines of roads, allowing alerts the driver and the command to other security systems for heavy commercial vehicles,	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	97	Sensor distance (DIS) 24V for active monitoring of the road ahead of the vehicle, containing a transmitter and 76-77GHz radar receiver with integrated logic for communication via CAN bus (Controller Area Network) with the control units of embedded systems safety and driver assistance of heavy commercial vehicles passenger or	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	98	Control Module trailers and semi-trailers (TCM) 28V to brake heavy commercial vehicles cargo or passenger transport systems, comprised of pneumatic relay valve control chamber for service brake control chamber for parking brake three solenoid valves (inlet solenoid valve, outlet solenoid valve, a backup solenoid valve) and a pressure sensor.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	99	Electrical Control Unit visibility (Control Visibility Unit) for commercial vehicles load or passenger weighing between 900 and 1100 g, involucrada engineering plastic, operates at 24 V supply voltage, controls current exceeding 100 A and multiple tensions for various equipment, with processing functions for serial communication, sensor inputs and HMI (Human Machine Interfaces), outputs for direction lights, electric motor, pumps and units of sound.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	100	electronic controllers equipped with processor, input and output circuits and programmable memories for the fuel pump control with network data type CAN Bus for management, control and diagnostics of the injection system.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.82	5	motor thermistor (temperature sensor), control of the temperature inside the cabin vehicles with automatic air conditioning system, consisting of a motor / DC fan brushless running continuously drawing air from the cabin through the temperature detection element supplying current to ATC, which then converts the current into an accurate temperature of the cabin and a resistive temperature sensor element with approximate measurements of 62 mm x 53 mm x 36 mm and weighing roughly 0.021 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.89	3	Steering Angle Sensor 12 V 7 connecting pins for heavy commercial vehicles of persons or cargo transport for angular position measurement of the wheel, performs the measurement of absolute angle position and its spinning rate up to 8 complete revolutions to perform functions such as stability control, adaptive cruise control and warning lane change, consisting of a gear wheel, which rotates with the steering wheel movement, and converts it into a coded signal continuously communicated to vehicle systems through CAN network in accordance with SAE J1939 protocol up to 500 kbps.		2	Unknown

9401.90.90 65	Rod of the headrest with height adjustment notches, tubular, structural function, integral part of the headrest assembly incorporating the automotive seat with raw materials specified in 1035-3 + CR2 quality according to DIN 50 958, surface roughness lower than 6.3 uM, tolerance of 0.5 mm distance between notches, surface	Resolution No. 23 of December 30, 2019	2	Unknown
9401.90.90 66	coated with chromium and chromium treatment minimum wall 0.3 nM. Recliner with continuous function for automobile seats, formed by alloying constituents carbon steel laminate being reclining mechanism responsible for movement of the backrests of the front seats, the passenger and driver, with varying degree of movement of 106.1 degrees to 110.1 degrees with reclining functional characteristics and adjust the front to back and forth and safety fixing device for supporting the occupant in a collision of the vehicle	Resolution No. 23 of December 30, 2019	2	Unknown

NCM	1	I in "Resolution No. 23 of December 30, 2019" Descrição	Regulation	Tax	Deadline
8481.80.92	40	Valves modulating, high pressure, with pressure regulator for hydraulic brake systems and / or tire to ABS system (Antilock Brake System) and ESP (Electronic Stability Program), actuated and controlled by magnetic force created by electrical coils, used to restrict or allow the flow in proportion to the applied current cuts or by fixed components provided with crimped, injected, stamped and forged, molded plastic well as fine mesh filters		2	Unknown
8413.60.11	24	volumetric rotary hydraulic gear pump with cast iron body with a maximum pressure of 24.5 MPa, maximum speed of 3000 rpm, maximum flow of 89.7 1 / min, for use in ventilator line machines cooling system self-propelled.	Resolution No. 23 of December 30, 2019	2	Unknown
8433.90.90	24	Multiple hydraulic quick coupler type coupling comprising female connections of up to 5 3/8 inches by 4 cartridge type connections 9/16 inch, and other return line connections and power, with the support lever type aluminum weighing assembly up to 12 kilograms, suitable for connecting the cutting deck to the hydraulic systems.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.10	3	to soil machines with reduction ratio 1.4: 1, output rotation of 184 rpm and torque of 39452	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.10	4	Power transmission box for the drive of the leveling ring system applied to the motor grader machine ground with helical gears, slip clutch and a reduction ratio of 1: 1.64.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.10	5	speed reducing transmission of the front axle of the self-propelled harvesters cereals, composed of cast steel body, spline gear lapped flange and SAE 80W90 oil with speed reduction of 9.5: 1 and capable of supporting a weight of 30 tons.	Resolution No. 23 of December 30, 2019	2	Unknown
3483.40.10	6	speed reducing transmission of the front axle of the self-propelled harvesters cereals, composed of cast steel body, spline gear lapped flange and SAE 80W90 oil with speed reduction of 7.7: 1 and capable of supporting a weight of 19 tons.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.10	7	speed reducing transmission of the front axle of the self-propelled harvesters cereals, composed of cast steel body, spline gear lapped flange and SAE 80W90 oil with speed reduction of 9.5: 1 and capable of supporting a weight of 27 ton.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.19	4	Structure cabin for agricultural tractors to be equipped with or without option glass, ready to house the assembly of the other components thereof, formed of high strength steels S355J2 / EN 10025-2 where the process of manufacture of profiles is performed by longitudinal forming plates, connected by a structural weld low alloy consisting of four pillars, floor plate and flat bases (two front and two rear) for attachment of this structure to the tractor body arrangement which gives a pattern of TFO - structure protection against rollover (ROPS - Roll-over protective Structures) and protective structure against falling objects (FOPS - falling Object protective Structures), where the welded assembly is tested and validated by ISO-5700 and OECD safety standard, which meets Brazilian safety standard for agricultural	Resolution No. 23 of December 30, 2019	2	Unknown

9032.89.89	4	regulation commanding electronically opening and closing the hydraulic system generating displacement pressure oil to make movements with the hinged parts of the machine, make the reading of data and interpretation of values obtained from sensors and transducers,	Resolution No. 23 of December 30, 2019	2	Unknown