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Hartchrom Defense Technology AG

Hartchrom Inc.

Hartchrom Schoch GmbH

STI France SAS



STI France SAS

STI France SAS

STI Precision Machining (Changshu) Co., Ltd.

STI Surface Technologies

International Holding AG

Your contact

English







STI Coating Finder

Surface solutions by STI Group

		logenides	id exhaust gases	ctric acid	aning agents			
STI Group process	Properties	На	Ac	Nic	Cle	Wear protection*	Hardness	Applications
Galvanic treatment								
Hard chrome plating	Excellent hardness, good wear protection, corrosion protection (particularly against sulph. exhaust gas), ero- sion protection, excellent layer adhesion, anti-adhesive, low friction coefficient, no distortion of base mate- rial, very cost-effective, free from pores, homogeneous layer structure, not toxic or allergenic, layers up to 1 mm, friction coeff. with 100 Cr6 steel 0.06 - 0.12 (aluminium 0.07 - 0.14), max. applic. temp. 800 - 1,300 °C	(x)	Х	Х	х	x	850 – 1,050 HV 0.1 (höher auf Anfrage)	Cooling, drying, casting, calender, lead rollers, devi ding, drawing, stamping, sintering and extrusion, p for hydraulics/pneumatics, bridge bearings, turbine pump shafts, axle protection, valve bodies, weapor
Dimensional hard chrome plating	Highly cost-effective, layer thickness up to 0.1 mm	(x)	х	х	Х	Х	850 – 1,050 HV 0.1	Piston crowns (landing surfaces) and rods for hydra
Thick hard chrome plating	High geometric precision, high-gloss surfaces through grinding and polishing, layer thickness up to 1 mm	(x)	х	х	х	Х	850 – 1,050 HV 0.1	Ring grooves for piston crowns, bridge bearings, re
Triplex chrome triplex/multilayer	Low-pore layer, high geometric precision, high-gloss surfaces through grinding and polishing	(x)	Х	х	х	X	850 – 1,050 HV 0.1	Piston bowls, piston crowns, piston rings, cylinder
Matt hard chrome plating	Individually reproducible texture (anti-adhesive in parts), definable degrees of gloss	(x)	Х	х	х	Х	850 - 1,050 HV 0.1	Cooling rollers, damping rollers, cooling rollers for
STI AlpineCoat®	Reproducible, definable topographies, surface roughness 0.05 μm < Rz < 100 μm	(x)	х	х	Х	X	850 – 1,050 HV 0.1	
Hydrophilic hard chrome surfaces	Optimised surface energy for defined liquid transfer	(x)	х	х	х	Х	850 - 1,050 HV 0.1	Application and dosing rollers for the production of
Hartchrom Teikuro process**	Extremely smooth, low friction layer, high wear protection, improved demoulding, friction coefficient with 100 Cr6 steel 0.06 - 0.12 (aluminium 0.07 - 0.14), reduced cold-welding effect, max. applic. temp. 400 °C	(x)	х	х	х	X	850 – 1,100 HV 0.1	Cast iron and steel tools for forming thin steel and industry, plastic injection moulding and press formi
Nanochrome	Anti-adhesive surfaces, surface energy 10 – 20 mJ/m2, max. application temperature up to 300 °C	(x)	х	х	х	Х	850 – 1,050 HV 0.1	Lead rollers, nozzles
Diamond chrome	Suitable for high temperatures, extremely good wear protection, good lubrication characteristics	(x)	х	х	х	X	950 – 1,100 HV 0.1	Highly stressed tribological components, drilling ro
Chrome ceramic	Suitable for high temperatures, good wear protection, good lubrication characteristics	(x)	Х	х	х	Х	950 – 1,100 HV 0.1	Drilling rods, heavy duty plain bearings, tribologica
Electroless nickel high-phos Nitrag®	True to size and contours, x-ray amorphous, non-magnetic, excellent ductility, very good corrosion protection, phosph. content up to 12% by weight, free from pores, suitable for food processing, good brazeability, compliant to EN IS= 4527, RAL-RG 660, Mil-C-26074B and AMS 2404B, max. application temperature 400 °C	Х	(x)		Х	X	up to 550 HV 0.1 up to 1,000 HV 0.1 ***	Components with complex geometries, nozzles, thr moulds, drilling rods, valve housings, fuel pipes, co (electronics), oil and gas applications, ball valves
Electroless nickel low-phos Nicrodur®	True to size and contours, good hardness, pore-free coating, good wear protection, suitable for food processing, good brazeability, ferromagnetic, phosphor content up to 4% by weight	Х	(x)		Х	X	750 – 1,000 HV 0.1 ***	Components with complex geometries, cog wheels drives, ball valves
Galvanic nickel (matt nickel)	Good corrosion protection, free from pores, ductile matt nickel layer, excellent mechanical processing, suitable for laser texturing, layer thickness up to > 5 mm, max. application temperature 550 $^{\circ}$ C	Х	(x)		Х	(x)	200 – 250 HV 0.1	Reconditioning layer (bearing faces, cones), revisio shafts, plate heat exchangers, high temperature co
Chromating (Alodine 1200)	Paint priming coating, corrosion protection	Х			х			Aluminium components
Cadmium plating	Good corrosion protection, good glide partner, resistant to salt-water	Х			Х	(x)	80 HB	Axles, shafts, bolts
Silver plating	Good corrosion and temperature resistance, brazeable, good gliding partner, good conductivity	х			х	(x)	80 – 200 HV 0.1	Bolt connections, current transfer
Tin plating	Improved corrosion protection against oleic acids, brazeable, good gliding partner, good conductivity				х	(x)		Bearing metal, plain bearings, bearing bushes, hyd
Anodising TSA, OAS	Excellent corrosion resistance, good wear protection, very good environmental compatibility	Х	(x)		х	Х	400 – 500 HV	Aluminium components, aircraft components
Galvanising (white/bichromate)	Cathode corrosion protection with long-range effect	Х			Х			Bolts, fittings, metal sheeting, aircraft components
Combination layers								
Galvanic nickel/hard chrome	Wear and corrosion protection, very suitable for mechanical processing, for salt-water environments, layer thickness up to 1 mm	Х	х	х	х	Х	See above	Cylinders/rollers (cast iron, dosing), drilling elemen diversion devices, oil and gas applications
Electroless nickel/hard chrome	No thermal after-treatment required, for salt-water environments	х	Х	х	х	Х	See above	Oil and gas applications, hydraulics
NiComb	Combination layer for high wear and corrosion protection requirements	х	(x)		х	Х	750 HV 0.1	Pipeline components, drive shafts, wind turbines, n
WC-10Co-4Cr (HVOF, APS)	Very good wear and corrosion protection, excellent erosion, abrasion and fretting protection, good adhesion, low porosity, superfinishing is possible with diamond grinding, maximum application temperature 500°C	(x)	Х		Х	х	750 – 1,450 HV 0.3	Compressor shafts, pump seals, ball valves, shut-o rods, liners, calendar, diverter and lead rollers, dryi
WC-12Co, WC 17Co (HVOF, APS)	Protection against fretting, abrasive particles, particle erosion, glide wear, cavitation and dynamic contact with hard surfaces, good adhesion, good corrosion protection through very dense, almost pore-free layer, application temperature < 500°C	(x)	Х		Х	X	830 – 1,300 HV 0.3	Aircraft undercarriages, pump seals, extruder tools
WC-17Ni (HVOF, APS)	Dense, resiliant, less hard layers with better corrosion resistance than tungsten carbide based on pure cobalt, application temperature < 500° C	Х	х		х	Х	900 – 1,200 HV 0.3	Foil processing, valves
Cr3C2-NiCr (HVOF, APS)	Chrome carbide in a Ni/Cr matrix with very good adhesion, protection against high temperature wear and corrosion at higher temperatures, hardness can be improved through subsequent heat treatment, application temperature < 870°C	Х	Х	х	Х	X	900 – 1,200 HV 0.3	Ring seals, inside nozzle linings, forging tools, hot
Ni20Cr (HVOF, APS)	Adhesion layer for ceramics, anti-diffusion layer, improved corrosion protection through higher density, high temperature resistance up to 1000°C	Х	х	х	х		240 – 280 HV 0.3	Layer build-up and reconditioning, adhesion layer, i coefficients, corrosion and high temperature protect
13% Chrome steel (HVOF, APS)	Resistant to atmospheric corrosion in industrial environments, good strength, appropriate impact resistance, thick layers, suitable for mechanical processing, application temperature < 540°C	Х	х	х	х	(x)	270 – 560 HV 0.3	Bearing shells, hydraulic pressure pistons, crank sh
x x Guaranteed (x) Guarante	eed under certain conditions * Guide values under optimal conditions ** See STI DryCoat Syste	m	*** A	vailable v	with hea	at treatment		

Corrosion protection*

viating rollers, rods, screen baskets, press, diecast, tools for injection moul-piston crowns of 2- and 4-stroke engines, piston rings, skirts and rods e shafts, cylinder liners, bearing trunnions, seal seats, ball valves, cooling nry barrels, aircraft undercarriages, custom-made parts

aulics/pneumatics, piston skirts, weaponry barrels, ball valves

econditioning layers

liners

converting processes

f speciality paper

I aluminium sheeting, geometrically complex tools for the automotive ning tools, metal sheets, forming tools, ball valve plugs

ods, heavy duty plain bearings, in particular in lubricated systems

I components, in particular in lubricated systems

read guides, electrical engineering (shielding), valves, print rollers, shafts, og wheels, couplings, gears, hydraulic parts, mandrels, anti-diffusion layer

s, couplings, gears, hydraulic parts, pipelines, paddles, housings, worm

on parts, blanket and impression cylinders, coquilles, diverter rollers, rotor orrosion protection for heat exchangers (hot gas corrosion protection)

traulics, current transfer

nts, hydraulic punches, repair/revision, oil pump and diffuser housings,

moulds, extruders, oil and gas applications

off valves, piston rods, drilling rods, aircraft undercarriages, hydraulic ing cylinders

, exhaust fans, shredding rollers

forming tools, turbine manufacturing, engine manufacturing

intermediate layer as compensation for different material expansion ction layer, engine construction, rollers, piston rods

haft bearings, reciprocating pistons

STI Group process	Properties	Halogenides	Acid exhaust gases	Nictric acid	Cleaning agents	Wear protection*	Hardness	Applications
Thermal spray coatings								
316L (HVOF)	Suitable protection against corrosion, cavitation and moderate particle erosion, good mechanical machinability, application temperature < 540°C	Х	х	х	Х		350 - 400 HV 0.3	Corrosion protection for impression cylinders, seal protection rings, engine cylinder linings
Fe-Ni-B-Si (HVOF, APS)	Self-flowing alloy, very hard and with low porosity (fused joint with base material)	х	(x)		х	Х	up to 750 HV 0.3	Shafts, bearings
Cr2O3 (APS)	High chemical resistance, suitable for all pH values, high electrical resistance (depending on porosity), very good protection against friction wear, improved ductility/increased shear resistance for ceramic components by adding 25% TiO2					(x)	Depending on porosity	Rollers, bearings, electric insulators
AI2O3 (APS)	High oxidation resistance, high degree of purity, good electric insulation, improved mechanical properties and ductility through the addition of TiO2, high temperature range thermal insulation layer					(x)	Depending on porosity	Electric insulators, shafts
ZrO2 + 8Y2O3 (APS)	High oxidation resistance in hot gas atmospheres, hardness and thermal barrier can be optimised by control- ling porosity, ideal thermal insulation layer with excellent thermal shock resistance					(x)	Depending on porosity	Turbine blades, combustion chambers
Thin layers: STI DryCoat System								
STI PlaNit	Meets top requirements in terms of exposure to stress, wear, abrasion; reduced cold welding effect, excellent surface and part quality, layer thickness 10 -30 > 100 μ m, friction coefficient against 100 Cr6 steel 0.1 - 0.16 (aluminium 0.1 - 0.2), max. application temp. 400 °C				х	Х	750 – 1,100 HV 0.05	Cast-iron tools with small radii for metal forming: suitable for non-ferrous metals
STI Glide (various process gases)	Medium hardness, high-gloss surface, good low-friction characteristic, excellent demouldability, very good abrasion resistance, anti-adhesion, precision, layer thickness up to 100 μm, friction coefficient against 100 Cr6 steel 0.08 - 0.14, max. application temp. 400 °C				Х	Х	900 - 1,600 HV 0.05	Cutting tools and tools for metal forming: steel too tools for aluminium and magnesium (improved der pump technology (pistons)
STI Dur(+)/LT**	Very hard, wear and corrosion resistant, good resistance to cold welding, friction coefficient against 100 Cr6 steel 0.3 - 0.4, maximum application temperature 600 °C. Low temperature processes at 200 °C possible	(x)	(x)		Х	Х	2,000 HV 0.05 +/- 200	Punching and forming tools for metal sheeting thic with STI Perform (+); plastic moulds (good wear pro
STI DurOx(+)**	Additional glide ability, additional reduction in cold welding effect, layer thickness 4 - 6 μm, friction co- efficient against 100 Cr6 steel 0.1 - 0.2, aluminium processing, max. application temp. 700 °C				Х	Х	> 2,000 HV 0.05	Tools with strong cold welding tendency, particula available with STI Perform (+) for extra-heavy dutie
STI DurDLC(+)**	Thin, diamond-hard layer, very low friction coefficient, top resistance to abrasion and cold welding, for applications with little or no lubrication, layer thickness 1 - 2 μ m, friction coefficient against 100 Cr6 steel 0.1 - 0.2, excellent tribological properties, max. application temp. 350 °C				Х	Х	2,500 HV 0.05	Punching and forming tools with high abrasion and material and high stress exposure with STI Perform highly abrasive materials), locking and clamping
Various								
Electropolishing	Improved adhesive strength and defined material removal, chemically passive, glossy							Stainless steel components
Polishing/passivat. of stainless steel	Improved corrosion protection through thicker, passive layer; removal of dirt	х	(x)	х	х			Stainless steel components
Decontamination	Cleaning process for minimising particle soiling of oil and fuel circuits							Engine and turbine components
Conversion layers								
Manganese phosphating	Without oil: paint adhesion primer; with oil: temporary corrosion protection, improved glide characteristics	(x)						Drive components, cog wheels, covers
Chemical burnishing	Appearance: oil-coated, temporary corrosion protection							Steel components
Painting	lemperature resistance, improved resistance, corrosion protection							
	Anti-static, electrostatic discharge, conductivity, wear and corrosion protection, layer thicknesses $20 - 40 \mu\text{m}$	X			X			Aircraft nose (Faicon), railway components
High temperature painting (MCAC)	Corrosion protection for high temperature applications, additional waterproof coating possible	Х	(x)		Х			Aircraft and railway components
Wet painting	Corrosion protection and anti-graffiti protection, good cleaning properties	Х			Х			Impression cylinders, aircraft and railway compone
Polyuretnane (Epoxid, Aviox)	Erosion protection		X		X	X		Aircraft and railway components
Kilisan	Variaua	X			X	X		Pistons Variaus componente
Mechanical processing	Valious	~			^	Unitequest		
Cylindrical grinding	Small components: roughness R max < 0.1 µm, concentricity < 0.001 mm, cylindricity < 0.002 mm; medium							
Gymanical grinning	components: roughness R max. < 0.1 μ m, concentricity < 0.001 mm, cylindricity < 0.002 mm; large components: roughness R max. < 0.1 μ m, concentricity < 0.001 mm, cylindricity < 0.003 mm; large components: roughness R max. < 0.1 μ m, concentricity < 0.001 mm, cylindricity < 0.004 mm; cylindrical, concave, convex, defined curves; medium and large components: grinding at operating conditions (temp.) possible							
Flat grinding	Medium components: roughness Rz < 0.8 μm, evenness< 0.002 mm, parallelism < 0.004 mm; deep grinding, profile and flat grinding, CNC-controlled dividing head							
Belt grinding								
Polishing, super-finishing	Rmax <0.05 μm							
Turning/milling/drilling								
Blasting (corrundum, glass beads)	Freely definable curves							

Corrosion protection*

x Guaranteed (x) Guaranteed under certain conditions

n conditions * Guide values under optimal conditions

** Available with STI Perform (+) support layer for tools exposed to extreme conditions and complying with top quality and service life requirements

ling rings, piston rods and pump pistons, cavitation protection for wear

steel sheeting < 1.5 mm; components such as strips, shafts etc.; not

ols for black plate < 1.8 mm (maximum glide performance); diecasting moulding, improved wear resistance, anti-adhesive); precision components;

cker and thinner than 2 mm; for thick and high-strength materials combined rotection, improved demoulding); all diecast moulds

rrly stainless steel and aluminium sheeting with thickness of < or > 2 mm, es (excellent anti-adhesive effect)

d extreme cold welding tendencies (steel and non-ferrous metals), for thick m (+); injection moulding and diecasting moulds (excellent protection for

ents

Beak and any and any	STI Group capacities	Process		STI Switzerland	STI China	STI France	STI Germany
Main and composed #3011 2000 mm. ft #1011 2000 mm. ft #1011 2000 mm. ft Sead any goals #2011 1000 mm. ft #2011 2000 mm. ft #1012 2000 mm. ft Pathone down goals #2011 2000 mm. ft #1012 2000 mm. ft #1012 2000 mm. ft Pathone down goals #1011 1000 mm. ft #1011 2000 mm. ft #1011 2000 mm. ft Pathone for down goals #1011 1000 mm. ft #1011 2000 mm. ft #1011 2000 mm. ft Pathone for down goals #1011 1000 mm. ft #1011 2000 mm. ft #1011 2000 mm. ft Pathone for down goals #1011 1000 mm. ft #1011 2000 mm. ft #1011 2000 mm. ft Pathone for down goals #1011 1000 mm. ft #1011 2000 mm. ft #1011 2000 mm. ft Pathone for down goals #1011 1000 mm. ft #1011 2000 mm. ft #1011 2000 mm. ft Pathone for down goals #1011 1000 mm. ft #1011 2000 mm. ft #1011 2000 mm. ft Pathone for down goals #1011 1000 mm. ft #1011 2000 mm. ft #1011 2000 mm. ft Pathone for down goals #1011 1000 mm. ft #1011 1000 mm. ft #1011 2000 mm. ft Pathone for down goals #1011 1000 mm. ft #	Galvanic treatments	Hard chrome plating	Large components	ø 4'500, L 12'000 mm, 64 t		2'200 x 1'200 x 2'500 mm	
Interval 90/100m/1 Interval 90/2000/1 Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation Notation <td></td> <td></td> <td>Medium-sized components</td> <td>ø 500, L 3'000 mm, 5 t</td> <td>ø 1'400, L 3,200 mm, 5 t</td> <td></td> <td>ø 1′200, L 4′000 mm, 5 t</td>			Medium-sized components	ø 500, L 3'000 mm, 5 t	ø 1'400, L 3,200 mm, 5 t		ø 1′200, L 4′000 mm, 5 t
International of a long of a lon			Small components	ø 250, L 1′000 mm, 1 t			ø 5 - 250, L 2'500 mm, 1 t
<form> Image: Image:</form>			Continuous chrome plating	ø 50, L 12'000 mm			
Paired Reserved Paired Re			Piston crowns	ø 1'000, L 1,000 mm, 2 t			
Main 2000			Hartchrom Teikuro Process				5'000 x 2'700 x 1'500 mm, 2
<form>ReadingIndex or any set of the set of th</form>		Alodine 1200				600 x 400 x 800 mm 2'500 x 1'400 x 800	
<form> Indersion 000000000000000000000000000000000000</form>		Nanochrome					
biosugni Drogent scalas skill vig/siz scill vig/si		Diamond chrome		ø 1'000, L 1,000 mm, 5 t			
Beaker and Payer >		Chrome ceramic		On request			
Bernian sindel log-F 0 000.000 x1100 nm, 00 Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 000.000 x000 nm 000.000 x000 nm Galaria sindel number 0 0000.000 x000 nm		Electroless nickel high-ph	105				ø 600 - 800, L 2'600 mm, 2 t
<form>Bane on only provide interprotectat 200, 1352 ma, 2***Bit 200, 200, maSecond Second Second</form>		Electroless nickel low-ph	OS				400 x 600 x 1'150 mm, 0.5 t
		Galvanic nickel (matt nick	(el)	ø 1'000, L 3'500 mm, 3 t***		600 x 400 x 300 mm	
Sine paing Sine p		Cadmium plating				550 x 700 x 800 mm	
<table-container>InsideIndexIndexIndexIndexIndexAnalysing LAG NoNon-Net Non-Net Net Non-Net Net Net Non-Net Net Net Net Net Net Net Net Net Net</table-container>		Silver plating				600 x 400 x 300 mm	
Acada ing TaX, 045		Tin plating				600 x 400 x 300 mm	
Idealing taking takin		Anodising TSA, OAS				500 x 500 x 1'000 mm	
Thermal spraying Thermal spraying Thermal spraying Item as spray spr		Galvanising (white, bichro	omate)			4'000 x 370 x 1'000 mm	
The coating STI Plank/STI Glide e880, L1080 mm, 21 e e880, L1080 mm, 21 e e1300, L1300 mm, 21 e STI Dur/STI	Thermal spraying	Thermal spraying		ø 1'100, L 3,500 mm, 6 t***			
STI Dur/STI DurDx #1300,11500 mm,21 STI DurDx STI DurDx #1300,11500 mm,21 STI DurDx STI DurDx #1300,11500 mm,21 STI DurDx STI DurDx STI DurDx #2000,12500 mm, 31 polishing Polishing and passiveting of sta inless steel 10000,4500,800 mm #2000,12500 mm, 31 Conversion layers Chanical humishing (on steel and intox) 1000,4500,800 mm 1000,4500,800 mm Meansies phosphating 11000,4500,800 mm 1000,4500,800 mm 1000,4500,800 mm Misia 11000,4500,800 mm 4500,850,1500 mm 1000,1500 mm Painting Ant-static painting 4000,47000,87000 mm 1000,4500,800 mm Painting a1000,12000 mm,31 10000,1000,81500 mm 1000,1000,81500 mm Painting a1000,1200 mm,31 1000,1000,81500 mm 1000,1000,81500 mm Weight painting a1000,1200 mm,31 1000,1000,81500 mm 1000,1000,81500 mm Weight painting a1000,1200 mm,31 a680,13000 mm,251 e1000,1300 mm,51 Meashanical processing painting,4500,13000 mm,31 a6800,13000 mm,21 e100,1300 mm,51	Thin coating	STI Planit/STI Glide					ø 850, L 1'050 mm, 2 t ø 70
STD LongLC STD LongLC Sector Sector <th< td=""><td></td><td>STI Dur/STI DurOx</td><td></td><td></td><td></td><td></td><td>ø 1′300, L 1′500 mm, 2 t</td></th<>		STI Dur/STI DurOx					ø 1′300, L 1′500 mm, 2 t
Betching, pickling, selective Electropolishing Electropolishing Selectropolishing selectropolishing<		STI DurDLC					
pilsihing Pilsihing and passivating of stail less steel Image: Stail less	Etching, pickling, electro-	Electropolishing				550 x 500 x 300 mm	ø 2'000, L 2'500 mm, 3 t
Nial '1300 x 400 x 400 mm Conversion layers Chemical bunishing (on steel and inox) Image and inox inox inox inox inox inox inox inox	polishing	Polishing and passivating	of stainless steel			1′0000 x 500 x 900 mm	
Chewical burnishing (on steel and linox) Image: Chemical		Nital				1'300 x 400 x 400 mm	
Marganese phosphating 1'000 x 450 x 1500 mm Riksan 450 x 450 x 400 mm Andi-static painting 4'000 x 4'000 x 2'500 mm High temperature painting (MCAC) 0'000, 12'000 mm, 3 t High temperature painting (MCAC) 0'1000, 12'000 mm, 3 t Verious painting 0'1000, 12'000 mm, 3 t Poluethane, Eposid, Aviox 0'1000, 12'000 mm, 3 t Various paintings 0'1000, 12'000 mm, 3 t Cleaning Decontaminating (up to class "A" components) Mechanical processing Turning/milling/drilling Medium-sized components e 30 o '5'000, L3''000 mm, 2.5 t External circular grinding Earge components e 30 o '5'000 mm, 1.2 t Medium-sized components e 100 o'1000, U.10 o'3'000 mm, 2.5 t o'1000, L3''3'''''''''''''''''''''''''''''''''	Conversion layers	Chemical burnishing (on s	steel and inox)			ø 370 x 1'000 x 1'500 mm	
Rilsan Image Image <t< td=""><td></td><td>Manganese phosphating</td><td></td><td></td><td></td><td>1′000 x 450 x 1′500 mm</td><td></td></t<>		Manganese phosphating				1′000 x 450 x 1′500 mm	
Paintings Antistatic painting 4'000 x 2'000 mm 4'000 x 2'500 mm High temperature painting (MCAC) 0 1'000 x 1000 x 1'500 mm 0 Wet painting 0 1'000, L 2'000 mm, 3 t 1'000 x 1000 x 1'500 mm 0 Polyurethane, Epoxid, Aviox 0 1'000 x 1000 x 1'500 mm 0 0 Various paintings 0 1000 x 1000 x 1'500 mm 0 0 0 0 Various paintings 0 Econtaminating (up to class 'A' components) 0 650, L 3'000 mm, 3.8 t 0 840, L 3'000 mm, 2.5 t 6000 x 600 x 400 mm 0 0 Mechanical processing Turning/rinilling (arging in Large components) 0 6500, L 2'000 mm, 64 t 0 500, L 3'000 mm, 2.5 t 0 500, L 3'000 mm, 5.5 t 0 500, L 3'000 mm, 2.5 t 0 500, L 3'000 mm, 5.5 t 0 1'000, L 3'500 mm, 5.5		Rilsan				450 x 450 x 400 mm	
High temperature painting (MCAC) I/000, L2'000 mm, 3 t 1'000 x 1000 x 1500 mm Wet painting # 1000, L2'000 mm, 3 t 1'000 x 1000 x 1500 mm Polyurethane, Epoxid, Aviox I/000 x 1000 x 1500 mm 1'000 x 1000 x 1500 mm Various paintings 5'000 x 6'000 x 1500 mm I'000 x 1000 x 1500 mm Cleaning Decontaminating (up to class "A" components) I/000 x 1000 mm, 3.8 t # 840, L3'000 mm, 2.5 t Mechanical processing Turning/milling/drilling a 650, L3'000 mm, 3.8 t # 840, L3'000 mm, 2.5 t I/000 x 1000 x 1500 mm Mechanical processing Turning/milling/drilling a 30 - 6'500, L2'000 mm, 64 t I/000 x 10'000 mm, 2.5 t I/000 x 10'000 mm, 2.5 t Faterinal circular grinding Large components # 10 - 1'000, L10 - 3'000 mm, 1.2 t I/000 x 10'000 mm, 2.5 t I/000 x 10'000 mm, 2.5 t Small components # 10 - 1'000, L10 - 3'000 mm, 1.2 t I/000 x 10'000 mm, 2.5 t I/000 x 10'000 mm, 5 t I/000 x 10'000 mm, 5 t Flat grinding Large components # 10 - 1'000, L10 - 3'000 mm, 1.2 t I/000 x 10'000 mm, 4 t I/000 x 10'000 mm, 5 t Flat grinding Large components # 10'000 x 110'000 mm, 64 t I/000 x 10'000 x 15'00 mm	Paintings	Anti-static painting				4'000 x 4'000 x 2'500 mm	
$ \begin{array}{ c c c c c } \hline \begin ting & $$ 0100, L2000 m, 3 t & $$ 1000 x 1500 m $$ 1000 x 1500 m $$ 0100 x 1500 m $$ 01000 x 1500 m $$ 01000 x 1500 m $$ 01000 x 1500 m $$ 0100 x 1500 m $$ 0100 x 1500 m $$ 0100 x 1500 m $$ 01000 $		High temperature paintin	g (MCAC)			1'000 x 1000 x 1'500 mm	
Polyurethane, Epoxid, Aviox Include 1000 x 1000 x 1500 mm Include Inc		Wet painting		ø 1'000, L 2'000 mm, 3 t		1'000 x 1000 x 1'500 mm	
Various paintings 5'000 x 6'000 x 1'500 mm Cleaning Decontaminating (up to class "A" components) Image: Components of the component of the components of the components of t		Polyurethane, Epoxid, Avi	iox			1'000 x 1000 x 1'500 mm	
Decontaminating (up to class "A" components) Image: main of the processing Source main of the processing Turning/milling/drilling e 650, L 3'000 nm, 3.8 t e 840, L 3'000 nm, 2.5 t Mechanical processing External circular grinding Large components ø 30 - 6'500, L 27'000 nm, 64 t ø 650, L 3'000 nm, 2.5 t ø 500, L 3'000 nm, 2.1 t ø 500, L 3'000 nm, 2.5 t ø 500, L 3'000 nm, 2.1 t ø 500, L 3'000 nm, 0.1 t ø 1'000, L 3'500 nm, 0.1 t ø 1'000, L 3'5000 nm, 0.1 t ø 1'000, L 3'500 nm, 0.1 t		Various paintings				5'000 x 6'000 x 1'500 mm	
Mechanical processing Turning/milling/drilling ø 660, L 3'000 mm, 3.8 t ø 840, L 3'000 mm, 2.5 t Ketrnal circular grinding Large components ø 30 - 6'500, L 2'000 mm, 64 t Ø 650, L 3'000 mm, 2.5 t ø 500, L 3'000 mm, 2 t Ø 1200, L 3'500 mm, 5 t Medium-sized components ø 10 - 1'000, L 10 - 3'000 mm, 1.2 t Ø 650, L 3'000 mm, 2.5 t Ø 500, L 3'000 mm, 2 t Ø 1200, L 3'500 mm, 5 t Flat grinding Earge components Ø 10 - 520, L 10 - 3'000 mm, 1.2 t Ø 650, L 3'000 mm, 2.5 t Ø 500, L 3'000 mm, 2 t Ø 50 - 250, L 2'500 mm, 0 Flat grinding Earge components Ø 10 - 520, L 10 - 3'000 mm, 64 t 5 - 2'200 x 5 - 700 x 1 - 890 mm, 4 t 5 - 2'200 x 5 - 700 x 1 - 890 mm, 4 t Belt grinding Large components Ø 4'500 x L 12'000 mm, 64 t 5 - 2'200 x 5 - 700 x 1 - 890 mm, 4 t 5 - 2'200 x 5 - 700 x 1 - 890 mm, 4 t Polishing/superfinishing Large components Ø 4'500 x L 12'000 mm, 64 t 5 - 2'200 x 5 - 700 x 1 - 890 mm, 4 t 5 - 2'200 x 5 - 700 x 1 - 890 mm, 4 t Polishing/superfinishing Large components Ø 4'500 x L 12'000 mm, 64 t 5 '000 x 2'900 x 1'500 mm Ø 1'000 x 1'900 mm, 5t Ø 1000 x 1'900 m	Cleaning	Decontaminating (up to c	lass "A" components)			600 x 600 x 400 mm	
External circular grinding Large components Ø 30 - 6'500, L 2'000 mm, 64 t Ø 650, L 3'000 mm, 2.5 t Ø 500, L 3'000 mm, 2 t Ø 10 - 1'000, L 10 - 3'000 mm, 1.2 t Ø 650, L 3'000 mm, 2.5 t Ø 500, L 3'000 mm, 2 t Ø 10 - 200, L 3'500 mm, 5 t Ø 10 - 520, L 10 - 3'000 mm, 1.2 t Ø 500, L 3'000 mm, 2 t Ø 500, L 3'000 mm, 2 t Ø 10 - 200, L 3'500 mm, 6 t Ø 10 - 520, L 10 - 3'000 mm, 1.2 t Ø 500, L 3'000 mm, 2 t Ø 500, L 3'000 mm, 5 t I 1000, L 3'000, mm, 5 t I 1000, L 3'000, mm, 5 t <td>Mechanical processing</td> <td>Turning/milling/drilling</td> <td></td> <td>ø 650, L 3'000 mm, 3.8 t</td> <td>ø 840, L 3'000 mm, 2.5 t</td> <td></td> <td></td>	Mechanical processing	Turning/milling/drilling		ø 650, L 3'000 mm, 3.8 t	ø 840, L 3'000 mm, 2.5 t		
Medium-sized components Ø 10 - 1'000, L 10 - 3'000 mm, 1.2 t Ø 650, L 3'000 mm, 2.5 t Ø 500, L 3'000 mm, 2 t Ø 1'200, L 3'500 mm, 5 t Small components Ø 10 - 520, L 10 - 3'000 mm, 1.2 t Ø 650, L 3'000 mm, 2.5 t Ø 500, L 3'000 mm, 2 t Ø 500, 2 3'000 mm, 2 t Ø 500, 2 3'000 mm, 5 t Flat grinding S - 2'200 x 5 - 700 x 1 - 890 mm, 4 t S - 2'200 x 5 - 700 x 1 - 890 mm, 4 t S - 2'200 x 5 - 700 x 1 - 890 mm, 4 t S - 2'200 x 5 - 700 x 1 - 890 mm, 4 t Image: Components Ø 1'000, L 3'000 mm, 6 t Image: Components Ø 1'000, L 3'000 mm, 6 t Image: Components Ø 1'000, L 3'000 mm, 6 t Image: Components Ø 1'000, L 3'000 mm, 6 t Image: Components Ø 1'000, L 3'000 mm, 6 t Image: Components Ø 1'000, L 3'000 mm, 6 t Image: Components Ø 1'000, L 3'000 mm, 6 t Image: Components Ø 1'000, L 3'000 mm, 5 t Image: Components Ø 1'000, L 3'000 mm, 5 t Image: Components Ø 1'000, L 3'000 mm, 5 t Image: Components Ø 1'000, L 3'000 mm, 5 t Image: Components Ø 1'000, L 3'000 mm, 5 t Image: Components Ø 1'000, L 3'000 mm, 5 t Image: Components Ø 1'000, L 3'000 mm, 5 t Image: Components Ø 1'000, L 3'000 mm, 5 t Image: Components Ø 1'000, L 3'000 mm, 5 t Image: Components		External circular grinding	Large components	ø 30 - 6'500, L 27'000 mm, 64 t			
Small components Ø 10 - 520, L 10 - 3'000 mm, 1.2 t Ø 50 - 250, L 2'500 mm, 0 Flat grinding 5 - 2'200 x 5 - 700 x 1 - 890 mm, 4 t 5 - 2'200 x 5 - 700 x 1 - 890 mm, 4 t Belt grinding Large components Ø 4'500 x L 12'000 mm, 64 t Image: Components Ø 1'000 x L 3'000 mm, 54 t Polishing/superfinishing Large components Ø 4'500 x L 12'000 mm, 64 t Image: Components Ø 1'000 x L 3'000 mm, 54 t Polishing/superfinishing Large components Ø 4'500 x L 12'000 mm, 64 t Image: Components Ø 1'000 x L 3'000 mm, 54 t Polishing/superfinishing Large components Ø 1'000 x L 3'000 mm, 54 t Image: Components Ø 1'000 x L 3'000 mm, 54 t Polishing/superfinishing Large components Ø 1'000 x L 3'000 mm, 54 t Image: Components Ø 1'000 x L 3'000 mm, 54 t			Medium-sized components	ø 10 - 1'000, L 10 - 3'000 mm, 1.2 t	ø 650, L 3'000 mm, 2.5 t	ø 500, L 3'000 mm, 2 t	ø 1'200, L 3'500 mm, 5 t ø
Flat grinding 5 - 2'200 x 5 - 700 x 1 - 890 mm, 4 t 5 - 2'200 x 5 - 700 x 1 - 890 mm, 4 t Belt grinding Large components ø 4'500 x L 12'000 mm, 64 t Image: Components ø 1'000 x L 3'000 mm, 5t Medium-sized components ø 4'500 x L 12'000 mm, 64 t Image: Components ø 4'500 x L 12'000 mm, 64 t Image: Components ø 1'000 x L 3'000 mm, 5t Medium-sized components ø 1'000 x L 3'000 mm, 5t Image: Components ø 1'000 x L 3'000 mm, 5t Image: Components ø 1'000 x L 3'000 mm, 5t Medium-sized components ø 1'000 x L 3'000 mm, 5t Image: Components ø 1'000 x L 3'000 mm, 5t Image: Components ø 1'000 x L 3'000 mm, 5t			Small components	ø 10 - 520, L 10 - 3'000 mm, 1.2 t			ø 50 - 250, L 2'500 mm, 0.5
Belt grindingLarge componentsØ 4'500 x L 12'000 mm, 64 tØ 1'000 x L 3'000 mm, 54Ø 1'000 x L 3'000 mm, 50Medium-sized componentsØ 1'000 x L 3'000 mm, 64 tØ 1'000 x L 3'000 mm, 64 tØ 1'000 x L 3'000 mm, 64 tPolishing/superfinishingLarge componentsØ 1'000 x L 3'000 mm, 64 tØ 1'000 x L 3'000 mm, 50Medium-sized componentsØ 1'000 x L 3'000 mm, 50Ø 1'000 x L 3'000 mm, 50 tPlasting (superfinishing slage bade steel)Ø 1'000 x L 12'000 mm 64 tØ 1'000 x L 3'000 mm, 50 t		Flat grinding		5 - 2′200 x 5 - 700 x 1 - 890 mm, 4 t	5 - 2′200 x 5 - 700 x 1 - 890 mm, 4 t		
Medium-sized components Ø 1'000 x L 3'000 mm, 5t Ø 1'000, L 3'500 mm, 5t Polishing/superfinishing Large components Ø 4'500 x L 12'000 mm, 64 t 5'000 x 2'900 x 1'500 mm Medium-sized components Ø 1'000 x L 3'000 mm, 54 t 5'000 x 2'900 x 1'500 mm 5'000 x 2'900 x 1'500 mm Medium-sized components Ø 1'000 x L 3'000 mm, 5t Ø 1'000, L 3'500 mm, 5t Ø 1'000, L 3'500 mm, 5t		Belt grinding	Large components	ø 4'500 x L 12'000 mm, 64 t			
Polishing/superfinishing Large components Ø 4'500 x L 12'000 mm, 64 t 5'000 x 2'900 x 1'500 mm Medium-sized components Ø 1'000 x L 3'000 mm, 5t Ø 1'000, L 3'500 mm, 5t Ø 1'000, L 3'500 mm, 5t			Medium-sized components	ø 1'000 x L 3'000 mm, 5t			ø 1'000, L 3'500 mm, 5 t
Medium-sized components Ø 1'000 x L 3'000 mm, 5t Ø 1'000, L 3'500 mm, 5t Blasting (annundum place based steel) g 4'E00 x L 12'000 mm, 64 t 1'000 x 1'E00 mm 600, C'E00 x 600, 2'E00		Polishing/superfinishing	Large components	ø 4′500 x L 12′000 mm, 64 t			5'000 x 2'900 x 1'500 mm, 2
Disting (servindum alsos baseds stack) a 4/500 x 1/200 mm C/ t 1/000 x 1/500 mm C/ t			Medium-sized components	ø 1'000 x L 3'000 mm, 5t			ø 1'000, L 3'500 mm, 5 t
blasting (continuum, glass beaus, steel) 04 500 x L 12 000 mm, o4 L		Blasting (corrundum, glas	ss beads, steel)	ø 4'500 x L 12'000 mm, 64 t		1′000 x 1′000 x 1′500 mm	600 - 6'500 x 600 - 3'500 x

* Components made of steel, nonferrous metal and brass ** Components made of aluminium, aluminium alloys, magnesium *** Further dimensions on request

	STI USA
	ø 2'000, L 10'000 mm, 30 t
	ø 1'200, L 4'500 mm, 5 t
Dt	
11'000 x 1'500 x 2'600 mm 2 t	
1 600 x 800 x 2'600 mm 1 t**	
1000 x 000 x 2 000 mm, 1 t	
0 1 4/000 0 1	
U mm, L I 900 mm, 2 t	
	. 4/000 4/500 000
	Ø T 300, L T 500 mm, 300 kg
900 mm, L 4′000 mm, 3 t	
t	
D t	
00 - 3'000 mm	