

## ANODIZING AND HARD ANODIZING

Main Process	Variant	Plant	Max. size in mm	Max. weight in kg	
(Color) Anodizing	blue, green, grey, red, gold and others	Kaufbeuren (DE)	2000x700x400	500	
	Color anodizing on titanium	Berlin (DE)	300x300x300	10	
	red	Helpfau-Uttendorf (AT)	600x400x600	5	
(Technical) Anodizing	black	Berlin (DE)	1200x800x300	300	
		Burg (DE)	2000x850x500	300	
		Göppingen-Voralb (DE)	2000x1300x700	500	
		Helpfau-Uttendorf (AT)	3000x1250x700	1000	
		Kaufbeuren (DE)	3400x1100x400	500	
		Kerpen (DE)	1900x900x650	1000	
		Kirkby-in-Ashfield (UK)	2900x900x900	400	
	colorless	Berlin (DE)	1200x800x300	300	
		Burg (DE)	2000x850x500	300	
		Dzierżoniów (PL)	2450x1300x600	350	
		Göppingen-Voralb (DE)	2000x1300x700	500	
		Hangzhou (CN)	3000x1200x600	1000	
		Helpfau-Uttendorf (AT)	3000x1250x700	1000	
		Kaufbeuren (DE)	3400x1100x400	500	
		Kerpen (DE)	2000x1000x650	1000	
		Kirkby-in-Ashfield (UK)	2900x900x900	400	
		München (DE)	2800x1380x800	1500	
	Weiterstadt (DE)	2300x1350x650	1000		
	colorless (only cold)	München (DE)	2800x1380x800	1500	
	Weiterstadt (DE)	2300x1350x650	1000		
Chromic acid anodizing	colorless	Kirkby-in-Ashfield (UK)	1900x900x900	400	
CompCote® (Color) Anodizing	blue, green, grey, red, gold and others	Kaufbeuren (DE)	2000x700x400	500	
CompCote® (Technical) Anodizing	colorless, black		3400x1100x400	500	
CompCote® (Hard anodizing)	H + H-Gd black, grey, colored H, H-Gd		2000x700x400 2000x1100x500	500 500	
HART-COAT® (hard anodizing)	black	Berlin (DE)	1200x800x300	300	
		Burg (DE)	2000x850x500	300	
		Göppingen-Voralb (DE)	2000x1300x700	500	
		Helpfau-Uttendorf (AT)	3000x1250x700	1000	
		Kaufbeuren (DE)	2000x700x400	500	
		Kerpen (DE)	1900x1000x650	1000	
		Kirkby-in-Ashfield (UK)	2900x900x900	400	
		Berlin (DE)	1200x800x300	300	
		Burg (DE)	2000x820x500	300	
		Dzierżoniów (PL)	2450x1300x600	350	
	colorless	Göppingen-Voralb (DE)	2910x1300x1200	1500	
		Hangzhou (CN)	3000x1200x600	1000	
		Helpfau-Uttendorf (AT)	3000x1250x700	1000	
		Kaufbeuren (DE)	2000x1100x500	500	
		Kerpen (DE)	7700x1800x1000	5000	
		Kirkby-in-Ashfield (UK)	2900x900x900	400	
		München (DE)	2800x1380x800	1500	
		Weiterstadt (DE)	2300x1350x650	1000	
		Göppingen-Voralb (DE)	2910x1300x1200	1500	
		Hangzhou (CN)	3000x1200x600	1000	
HC-GL	Kerpen (DE)	2000x650x1000	1000		
	München (DE)	2800x550x1300	1500		
	Weiterstadt (DE)	2300x1350x440	1000		
	Tartaric Sulphuric Anodizing	colorless	Kirkby-in-Ashfield (UK)	1900x900x400	400

## ANTI-FRICTION COATINGS

Coating Process	Plant	Type	Max. size in mm	Max. weight in kg
Antifricor®	Deurne (NL)	Dip Spin	L150	0.35
Berucoat	Deurne (NL)	Dip Spin	L150	0.35
	Obrigheim (DE)	Spray	1000x1300x250	120
Miscellaneous	Lüneburg (DE)	Spray	6000x1800x800	2500
	Obrigheim (DE)	Spray	1000x1300x250	120
GLISS-COAT®	Solingen (DE)	Spray	1700x800x500	10
GLISS-COAT® FLOCK	Solingen (DE)	Spray	1300x600x100	10
HMF®	Eindhoven (NL)		2100x1000x500	1000
KLUBERTOP®	Deurne (NL)	Dip Spin	L150	0.35
	Obrigheim (DE)	Dip Spin	L200	0.55
		Spray	1000x1300x250	120
MOLYKOTE®	Deurne (NL)	Dip Spin	L150	0.35
	Obrigheim (DE)	Spray	1000x1300x250	120
PECVD (PACVD)	Lübeck (DE)	DLC (a-C:H)	900x900x900	150
		DLC (a-C:H:X)	900x900x900	150
WHITFORD	Deurne (NL)	Dip Spin	L150	0.35
	Landsberg (DE)	Spray	6000x2500x2450	6000
	Obrigheim (DE)	Dip Spin	L200	on request
		Spray	1000x1300x250	120

## CATHODIC DIP PAINTING (KTL BLACK)

Coating Process	Plant	Max. size in mm	Max. weight in kg
BASF CathoGuard CG 570 F	Solingen (DE)	1000x1000x600	250
Axalta Aqua EC 3000	Tatabánya (HU)	2100x1050x790	500

## CHROME AND CADMIUM SUBSTITUTE

Coating Process	Plant	Max. size in mm	Max. weight in kg
Bonderite 2040 R3	Dzierżoniów (PL)	2450x1300x600	350
Bonderite M NT 4595 (Alodine)	Lüneburg (DE)	850x1900x2500	50
IVD Ion Vapor Deposition	Kirkby-in-Ashfield (UK)	2900x1200x400	50
SURTEC® 650	Burg (DE)	2000x850x500	300
	Dzierżoniów (PL)	2450x1300x600	350
	Kaufbeuren (DE)	3400x1100x400	500
	Kirkby-in-Ashfield (UK)	1900x900x900	400

## DRUM SPRAYING

Main Process	Plant	Max. size in mm	Max. weight in kg
TempCoat®	Lüneburg (DE)	50x50x50	2500

## ELECTROLESS NICKEL PLATING

Main Process	Variant	Plant	Max. size in mm	Max. weight in kg	P rate
DURNI-COAT® Electroless Nickel on aluminum	DNC 450-AL	Kerpen (DE)	1300x1100x600	800	high
	DNC 471-AL lead-free	Weiterstadt (DE)	1500x1100x600	1500	high
	DNC 520-AL	Berlin (DE)	900x800x300	300	mid
		Eindhoven (NL)	1900x750x500	500	mid
		Göppingen-Voralb (DE)	1000x800x600	1000	mid
		Kerpen (DE)	1300x1100x600	800	mid
		München (DE)	1200x1000x600	250	mid
	DNC 571-AL lead-free	Göppingen-Voralb (DE)	1000x800x600	1000	mid
		Kerpen (DE)	1300x1100x600	800	mid
		München (DE)	1200x1000x600	250	mid
PTFE-DURNI-DISP	Weiterstadt (DE)	1500x1100x600	1500	mid	
	Kerpen (DE)	1300x1100x600	800	mid	
SIC-DURNI-DISP	Weiterstadt (DE)	1500x1100x600	1500	mid	
SIC-9	Eindhoven (NL)	600x180x650	500	mid	
DURNI-COAT® Electroless Nickel on ferrous & non-ferrous metals and stainless steel	DNC 450	Kerpen (DE)	1300x1100x600	800	high
	DNC 471 lead-free	Weiterstadt (DE)	1500x1100x600	1500	high
		Berlin (DE)	1200x1050x450	300	mid
	DNC 520	Berlin (DE)	2200x1100x450	300	mid
		Eindhoven (NL)	2100x1000x500	1000	mid
		Kerpen (DE)	1300x1100x600	800	mid
	DNC 571 lead-free	München (DE)	1300x1300x620	1000	mid
		Berlin (DE)	1200x1050x450	300	mid
		Göppingen-Voralb (DE)	2100x1650x1000	4000	mid
		Kerpen (DE)	1300x1100x600	800	mid
DNC 771 lead-free	München (DE)	1300x1300x620	1000	mid	
	Weiterstadt (DE)	1500x1100x600	1500	mid	
	Göppingen-Voralb (DE)	1200x1400x600	1000	low	
PTFE-DRUNI-DISP	Weiterstadt (DE)	1500x1100x600	1500	low	
	Kerpen (DE)	1300x1100x600	800	mid	
SIC-DURNI-DISP	Weiterstadt (DE)	1500x1100x600	1500	mid	
SIC-9	Eindhoven (NL)	600x180x650	500	mid	
DURNI-COAT® Electroless Nickel on titanium and other exotic materials	DNC 520	Eindhoven (NL)	800x700x500	200	mid
		Eindhoven (NL)	2100x1000x500	500	mid
NEDOX®	Eindhoven (NL)	2100x1000x500	500	mid	

## ELECTROPLATING

Main Process	Variant	Plant	Max. size in mm	Max. weight in kg
Copper plating	cyanide and cyanide free	Eindhoven (NL)	1900x750x500	500
		Lübeck (DE)	on request	on request
	cyanidic (in drum) cyanidic (on rack)	Zwönitz (DE)	50   filling volume 1200x670x300	100 100
Gold plating	Gold	Eindhoven (NL)	750x750x350	200
	Gold/Kobalt	Eindhoven (NL)	750x400x350	200
Nickel plating	semi-glossy (on rack)	Zwönitz (DE)	1200x670x300	100
	semi-glossy (in drum)	Zwönitz (DE)	50   filling volume	100
	SIC-12	Eindhoven (NL)	600x180x650	500
	Nickel Sulphamate	Eindhoven (NL)	2100x1000x500	1000
Silver plating		Eindhoven (NL)	1900x750x500	500
Tin-nickel coating	70 (Sn)/30 (Ni) wt%, +/- 5 wt%	Eindhoven (NL)	650x800x330	200
Tin plating	matt	Eindhoven (NL)	2100x1000x500	1000
	bright	Eindhoven (NL)	1900x750x500	500
	glossy (in drum) glossy (on rack)	Zwönitz (DE)	50   filling volume 1200x670x300	100 100
Zn coating	acidic (in drum) blue/thick film-passivated sealer, lubricant	Zwönitz (DE)	90   filling volume	130
	acidic (in drum) blue/thick film-passivated sealer	Zwönitz (DE)	2300x1200x450	350
	akaline (in drum) blue/black/thick film-passivated sealer, lubricant	Zwönitz (DE)	180   filling volume	280
	akaline (on rack) blue/black/thick film-passivated sealer	Zwönitz (DE)	2300x1200x450	350
ZnFe coating	akaline (on rack) black/thick film-passivated sealer	Zwönitz (DE)	2300x1200x450	300
ZnNi coating	akaline (in drum) clear/black/thick film-passivated sealer, lubricant	Brzotín-Bak (SK)	D440x760	100
		Zwönitz (DE)	180   filling volume	300
	akaline (on rack) clear/thick film-passivated sealer, lubricant	Brzotín-Bak (SK)	2500x1200x350	200
		thick film-passivated + sealer, lubricant	Zwönitz (DE)	2000x670x290

## NANO COATINGS

Coating Process	Plant	Max. size in mm	Max. weight in kg
NANOFINISH®	Landsberg (DE)	3300x900x900	500
Optical clear coatings (Dip coating)	Tamworth OCT (UK)	650x295x200	20
Optical clear coatings (Flow)	Tamworth OCT (UK)	1200x800	20
Optical clear coatings (Spray)	Tamworth OCT (UK)	900x900	20

## PLASMA CHEMICAL PROCESSES

Main Process	Variant	Plant	Max. size in mm	Max. weight in kg
KEPLA-COAT®	black	Berlin (DE)	2000x1100x450	300
	white		2000x1100x450	300
MAGOXID-COAT®	black	Berlin (DE)	500x500x400	10
	white		2200x1100x450	300
PLASMA CHEMICAL PROCESSES		Beuningen (NL)	on request	on request

## POLYMER COATINGS

Coating Process	Plant	Max. size in mm	Max. weight in kg
MagnaCoat®	Beuningen (NL)	4000x2000x1500	2500
	Landsberg (DE)	6000x2500x2450	6000
	Lüneburg (DE)	6000x1800x1800	2500
	Nidda (DE)	10000x3000x3000	20000
	Pulversheim (FR)	5000x2500x5000	2000
	Tamworth (UK)	6000x2500x2000 D900xL5000	3000
	Tatabánya (HU)	1500x800x400	90
TempCoat®	Beuningen (NL)	4000x2000x1500	2500
	Landsberg (DE)	6000x2500x2450	6000
	Lüneburg (DE)	6000x1800x1800	2500
	Nidda (DE)	10000x3000x3000	20000
	Pulversheim (FR)	5000x2500x2500	2000
	Tamworth (UK)	6000x2500x2000 D900xL5000	3000
	Tatabánya (HU)	1500x800x400	90

## POWDER COATINGS

Coating Process	Plant	Max. size in mm	Max. weight in kg
Diverse Powder	Pulversheim (FR)	5000x2500x2500	2000
	Zwickau (DE)	12000x1500x1500	1500
FlexiColor®	Lüneburg (DE)	6000x1800x1500	2000
	Tatabánya (HU)	1500x850x400	90
Polyester	Tamworth (UK)	6000x2500x2000	2000
Epoxy / Zinc phosphating	Zwickau (DE)	200x100x100	5

## SELECTIVE COATINGS

Main Process	Variant	Werk	Max. size in mm	Max. weight in kg
LASOX-COAT®		Kerpen (DE)	on request	on request
SELGA-COAT®	Gold/NiP galvanic, Silver, KEPLA, others	Faulquemont (FR)	on request	on request
SELGA-COAT® Cr(VI)		Dzierżoniów (PL)	on request	on request
SELGA-COAT® CR(VI)-free		Faulquemont (FR)	on request	on request
SELGA-COAT® CHROM			Prototype station	

## THERMAL SPRAYING

Coating Process	Plant	Max. size in mm	Max. weight in kg
Arc spraying	Lüneburg (DE)	2002x1500x500 D1400xL6000	2500
	Moers (DE)	D1500xL10000 D3250xL3000	18000
	Pulversheim (FR)	6000x800x800	1000
	Tamworth (UK)	6000x2500x2000 D900xL5000	3000
Flame spraying and fusing	Moers (DE)	D300xL3350 D2000xL1000	2000
High velocity flame spraying (HVOF)	Moers (DE)	D1500xL10000 D3250xL3000	18000
	Pulversheim (FR)	1500x1000x250	500
PlasmaCoat® (*additional polymer coating possible)	Beuningen (NL)	4300x1800x2100*	2500
	Lüneburg (DE)	2002x1500x500 D1400xL6000	2500
	Pulversheim (FR)	6000x800x800	1000
	Tamworth (UK)	6000x2500x2000 D900xL5000	3000
powder flame spraying	Lüneburg (DE)	2002x1500x500 D1400xL6000	2500
	Moers (DE)	D1500xL10000 D3250xL3000	18000
	Pulversheim (FR)	D1000xL4000	1000
	Tamworth (UK)	6000x2500x2000 D900xL5000	3000

## WET PAINTING

Coating Process	Plant	Max. size in mm	Max. weight in kg
Dip coating	Obrigheim (DE)	on request	on request
Epoxy	Tamworth (UK)	6000x2500x2500	3000
color	Zwickau (DE)	18000x3000x3000	20000
	Pulversheim (FR)	5000x2500x2500	1000
FlexiColor®	Lüneburg (DE)	6000x1800x1800	2500
	Solingen (DE)	on request	10
	Tatabánya (HU)	1500x800x400	90
2 K paints	Obrigheim (DE)	on request	on request

## VACUUM DEPOSITION

Main Process	Variant	Plant	Max. size in mm	Max. weight in kg
Gold / Copper		Tamworth OCT (UK)	750	20
PVD	AlTiN	Lübeck (DE)	900x600x600	250
	cerid® Multi-Ox		1000x700x120	250
	cerid® V5		500x500x500	250
	cerid® V-TEC (TiCN/TiAlN)		900x600x600	250
	cerid® Duplex V-TEC (Duplex/TiCN/TiAlN)		500x500x400	250
	CrAlN		900x600x600	250
	CrN		1900x900x200	250
	CrWN		900x600x600	250
	DLC (a-C:H:Cr)		1900x900x200	250
	TaC		500x500x500	250
	TiAlN		900x600x600	250
	TiCN		900x600x600	250
	TiN		900x600x600	250
	TiNb		1000x700x120	250
	TiNbN		1000x700x120	250
	TiZrO		500x500x500	250
ZrN	900x600x600	250		

## OTHER COATINGS AND SERVICES

Main Process	Variant	Plant	Max. size in mm	Max. weight in kg
Alcrom1200S / Alodine1200S / Bonderite M-CR ALCRM 1200	colorless or gold	Kirkby-in-Ashfield (UK)	1900x900x900	400
Aluminum oxide / Glass bead blasting		Tamworth (UK)		3000
Anti-sout coating	PVD	Lübeck (DE)	500x500x500	250
Bonded coating dip spin	all well-known manufacturers	Obrigheim (DE)	on request	on request
		Deurne (NL)	L150	0.35
Cleaning and packaging under cleanroom conditions		Eindhoven (NL)	on request	15
Destructive material research		Eindhoven (NL)	on request	on request
Gardomer (wax)	transparent	Lüneburg (DE)	1200x1000x1000	150
Mangan phosphating	thin/thick film-passivated/oily (on rack)	Zwönitz (DE)	1200x670x350	150
	thin/thick film-passivated/oily (in drum)		90   filling volume	150
Hard anodizing / electroless nickel plating META-COAT® / HD		Berlin (DE)	1200x800x300	300
Screw locking - retainer	Precote, Loctite, all common variants	Obrigheim (DE)	M4-M30	on request
Screw locking - torque adjustment	Precote, Loctite, all common variants	Obrigheim (DE)	on request	on request
Screw locking - gas and oil seal	Precote, Loctite, all common variants	Obrigheim (DE)	M4-M30	on request
Shot blast - drum	corundum	Obrigheim (DE)	on request	500
Shot blast - through band	corundum	Obrigheim (DE)	on request	500
Shot blas- suspended conveyor system	steel balls	Obrigheim (DE)	1100x1100x1100	150
SILA-COAT® 5000		Kerpen (DE)	1000x600x600	500
Surface marking / partial component decoating		Helpfau-Uttendorf (AT)	680x500x700	on request
Vestamelt	transparent	Lüneburg (DE)	850x1900x2500	50
Waxes in drum		Obrigheim (DE)	on request	on request
Zinc phosphating	Fe//ZnPH8 and Fe//ZnPH4 with or without oil	Solingen (DE)	1000x1000x600	250
	thin-/thick-layer + oil (in drum)	Deurne (NL)	L300	0.5
	thin/thick film-passivated/oily (on rack)	Zwönitz (DE)	960x450x450	200
	thin/thick film-passivated/oily (in drum)		80   filling volume	200
		Zwickau (DE)	200x100x100	5

## ZINC FLAKE COATINGS

Coating Process	Plant	Type	Max. size in mm	Max. weight in kg	
DELTACOLL®	Shanghai (CN)	Dip Spin	200x36x36	3	
DELTAPROTEKT®	Deurne (NL)	Dip Spin	L150	0.35	
	Landsberg (DE)	Spray	6000x2500x2450	6000	
	Lüneburg (DE)	Dip Spin	L200	0.18	
		Spray	6000x1800x1800	2000	
	Nidda (DE)	Spray	10000x3000x3000	20000	
	Obrigheim (DE)	Dip Spin	L200	0.55	
		Spray	1000x1300x250	120	
	Pulversheim (FR)	Dip Spin	300x300x300	1	
		Spray	5000x2500x2500	180	
	Shanghai (CN)	Dip Spin	200x36x36	3	
		Dip Spin	600x200x200	5	
	Tatabánya (HU)	Dip Spin	L200	0.5	
		Spray	1500x850x400	90	
	DELTASEAL®	Deurne (NL)	Dip Spin	L150	0.35
		Landsberg (DE)	Spray	6000x2500x2450	6000
		Lüneburg (DE)	Dip Spin	L200	0.18
Spray			6000x1800x1800	2000	
Nidda (DE)		Spray	10000x3000x3000	20000	
Obrigheim (DE)		Dip Spin	L200	0.55	
		Spray	1000x1300x250	120	
Pulversheim (FR)		Dip Spin	300x300x300	1	
		Spray	5000x2500x2500	180	
Shanghai (CN)		Dip Spin	200x36x36	3	
		Dip Spin	600x200x200	5	
Tatabánya (HU)		Dip Spin	L200	0.5	
		Spray	1500x800x400	90	
DELTATONE®		Deurne (NL)	Dip Spin	L150	0.35
		Landsberg (DE)	Spray	6000x2500x2450	6000
		Lüneburg (DE)	Dip Spin	L200	0.18
	Spray		6000x1800x1800	2000	
	Nidda (DE)	Spray	10000x3000x3000	20000	
	Pulversheim (FR)	Dip Spin	300x300x300	1	
		Spray	5000x2500x2500	180	
	Tatabánya (HU)	Dip Spin	L200	0.5	
Spray		1500x800x400	90		
Magni	Tatabánya (HU)	Dip Spin	L200	0.5	
		Spray	1500x800x400	90	
Magni, Dörken	Deurne (NL)	Dip Spin	L150	0.35	
Magni, Dörken, Atotech	Obrigheim (DE)	Dip Spin	L200	0.55	
		Dip Spin (on rack)	D900xL750	200	
		Spray	1000x1300x250	120	

You can find more information about the processes on our website: