

1 | Tool Shop Machinery

NC Milling machines	· Mecof CS 50 Unica	Heidenhain TNC 426 with automatic tool charger	4000 x 1800 x 1000
	· Mecof CS 500 Agile	Heidenhain TNC 430 [21000 rot/min]	4000 x 1000 x 1700
	· Mecof CS 105	Heidenhain TNC 430	4300 x 1700 x 1000
	· Anayak 2000 VH	Heidenhain TNC 430 M	2000 x 1200 x 1050
	· Soraluce TA-25	Heidenhain TNC 430 with automatic tool charger and internal cooling	2500 x 1200 x 1250
	· DMU 50T [3+2 axis]	with automatic tool charger	500 x 400 x 400
High speed milling	· Matsuura MC- 800 VF		[15000 min.-1] 800 x 440
	· Ops-Ingersoll High Speed Eagle v9		[45000 min.-1] 800 x 600 x 500
	· Hermle C400 5 axis milling		[18000 min.-1] 850 x 700 x 500
Test presses	· EAGLE	clamping force: 250 T	max. mould dimensions: 3700 x 2000 x 2300
	· Reis TUS 160	clamping force: 200 T	max. mould dimensions: 1600 x 2000 x 1600
Deephole drilling	· Deephole drilling IXION TL 1000 S CNC3		max. diameter deep: 32 x 1200 range: 2000 x 1000
Spark erosion machines	· Ingersoll - Gantry 2000		2000 x 3200 x 1350
	· Ops-Ingersoll Gantry Eagle 800		550 x 850 x 450
Jig grinding machines	· Hauser 5 SM		700 x 500 x 650
Cylindrical grinding machines	· Jones & Shipman 1300X		diameter: 300 x 1300
Surface- & profile grinding machines	· Blohm	HFS 512	1200 x 500
	· Jung	JF400	400 x 150
	· G+H Schleiftechnik	FS 420 Z CB	400 x 200
Lathes diam. x l	· Yamazaki Mazak		460 x 1000
	· Weiler Praktikant		
Measuring room	· Wenzel software supported measuring equipment		2000 x 1500 x 1800
Heat treatment shop	· Snijstaal heat treatment station		350 x 250 x 750
Hot Runner Controller	· PSG profiTemp	48 channels	
Saw Machine	· 2 x Wagner band saw		cap. 550 x 450

Conventional Welding

- 2x Cebora
- Lastek

Inverter 200 A
400 A

Mobile laser welding

- 2 x Alphalaser ALM ISOww

Unigraphics NX12

- Catia V4
- Catia V5
- DXFDWG
- IGES
- STEP
- PARASOLIDS

Lifting capacity [Bridge Cranes]

- 2 x 1 x 4 T
- 1 x 1 x 12 T
- 2 x 2 x 15 T
- 2 x 1 x 16 T
- 1 x 2 x 16 T
- 2 x 2 x 20 T
- 1 x 1 x 30 T
- 3 x 2 x 50 T

Internal Transport

- Morello 40T self moved electronic trailer

Transportation - Logistics

- 4 x Fully equipped intervention vehicles



2 | Surface Technology

SURCO Texturising equipment

Mobile SURCO treatment facility

Roughness, profile and gloss measurement devices

SURCOLUBE coating facility



3 | Trials and Process Optimization

Plastic injection machinery

- **Krauss Maffei KM 2300 / 17200MX**
max. mould dimensions (LxWxH):
Robot SEPRO: clamping force: 2300T
2020 x 1680 x 1800 mm
7X – 100XL (TE ER)
- **Krauss Maffei KM 1000 – 14700 MC**
max. mould dimensions (LxWxH):
Robot SEPRO: clamping force: 1000 T
1400 x 1120 x 1330 mm
S7-45 TE Axial
- **Battenfeld HM 4500/2800**
max. mould dimensions (LxWxH):
clamping force: 450 T
900 x 800 x 770 mm
- Other clamping forces on request

