

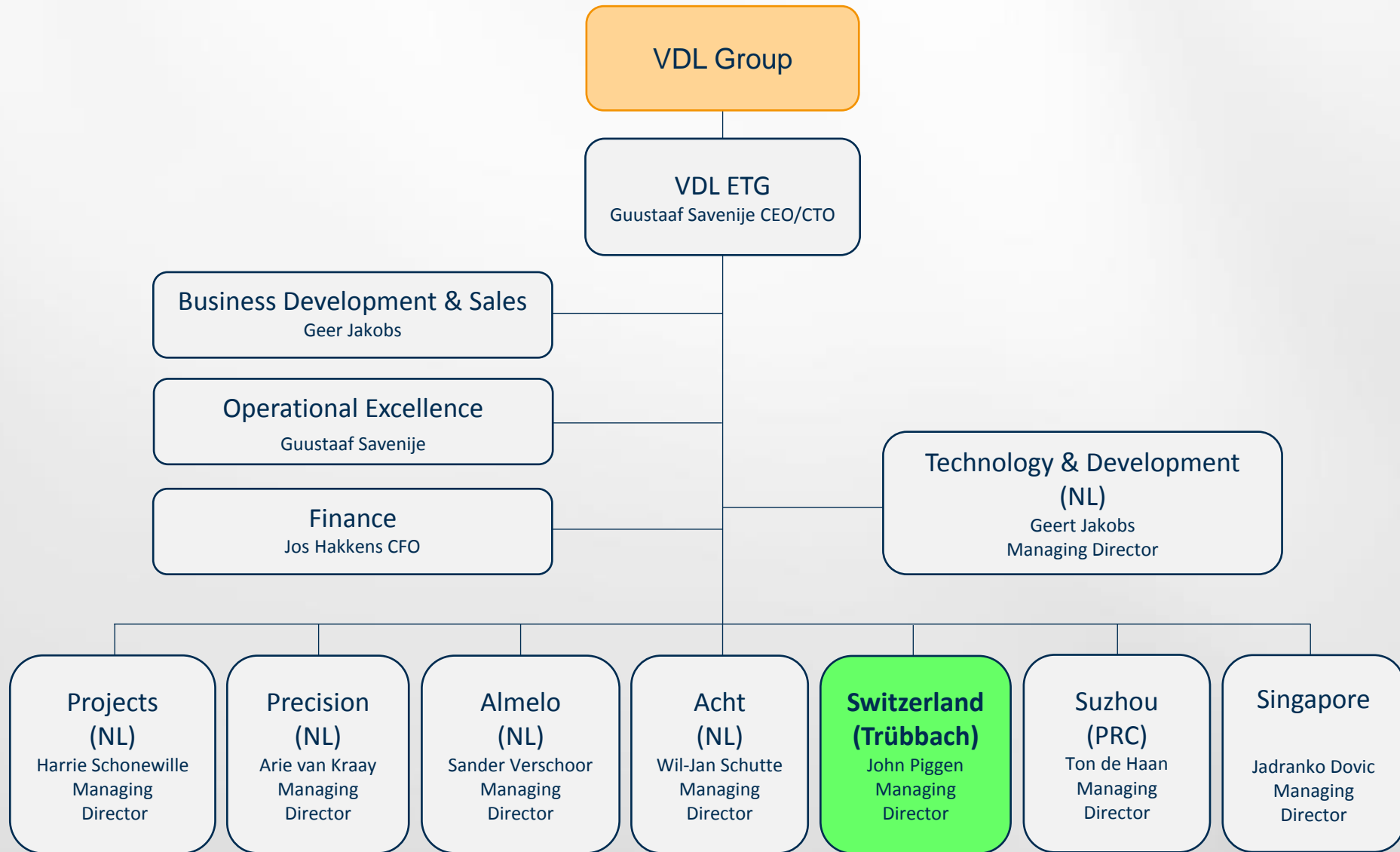


VDL ETG Switzerland

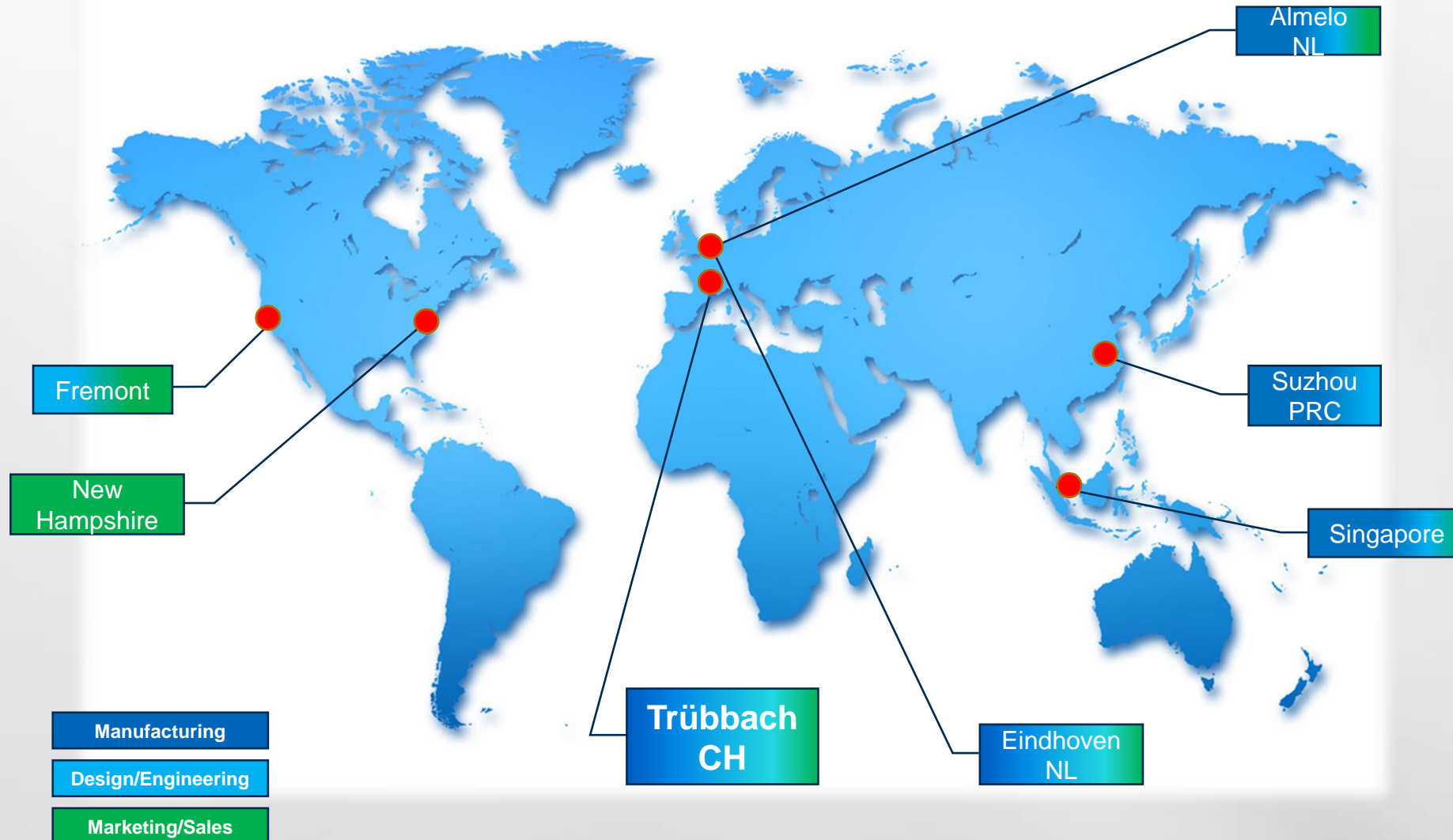




VDL ETG Organization structure



VDL ETG World Wide Locations



VDL ETG Switzerland



VDL ETG Switzerland

an innovative Swiss company located in the “Vacuum Valley”

**VDL ETG
Switzerland**



**Trübbach
Switzerland**



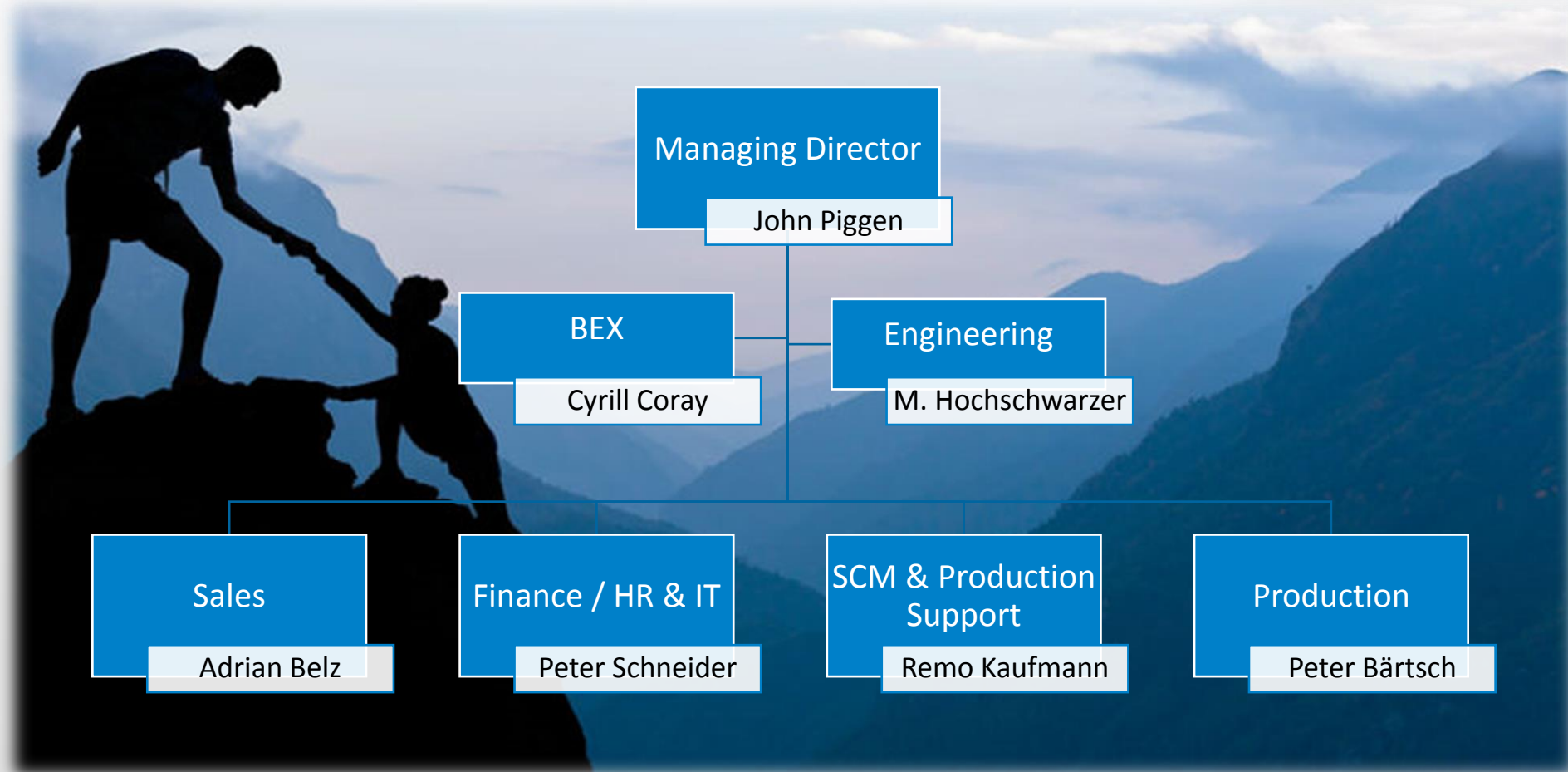
**Driver of innovation
for > 70 years**



130 employees



Organization Structure



High-Tech Industry and Long-Term Relationships

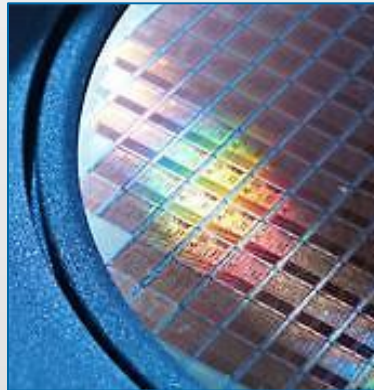
Provider of components, modules and assemblies for.....



Vacuum
Technologies



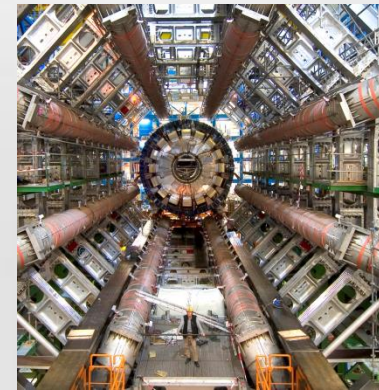
Semiconductor
EUV



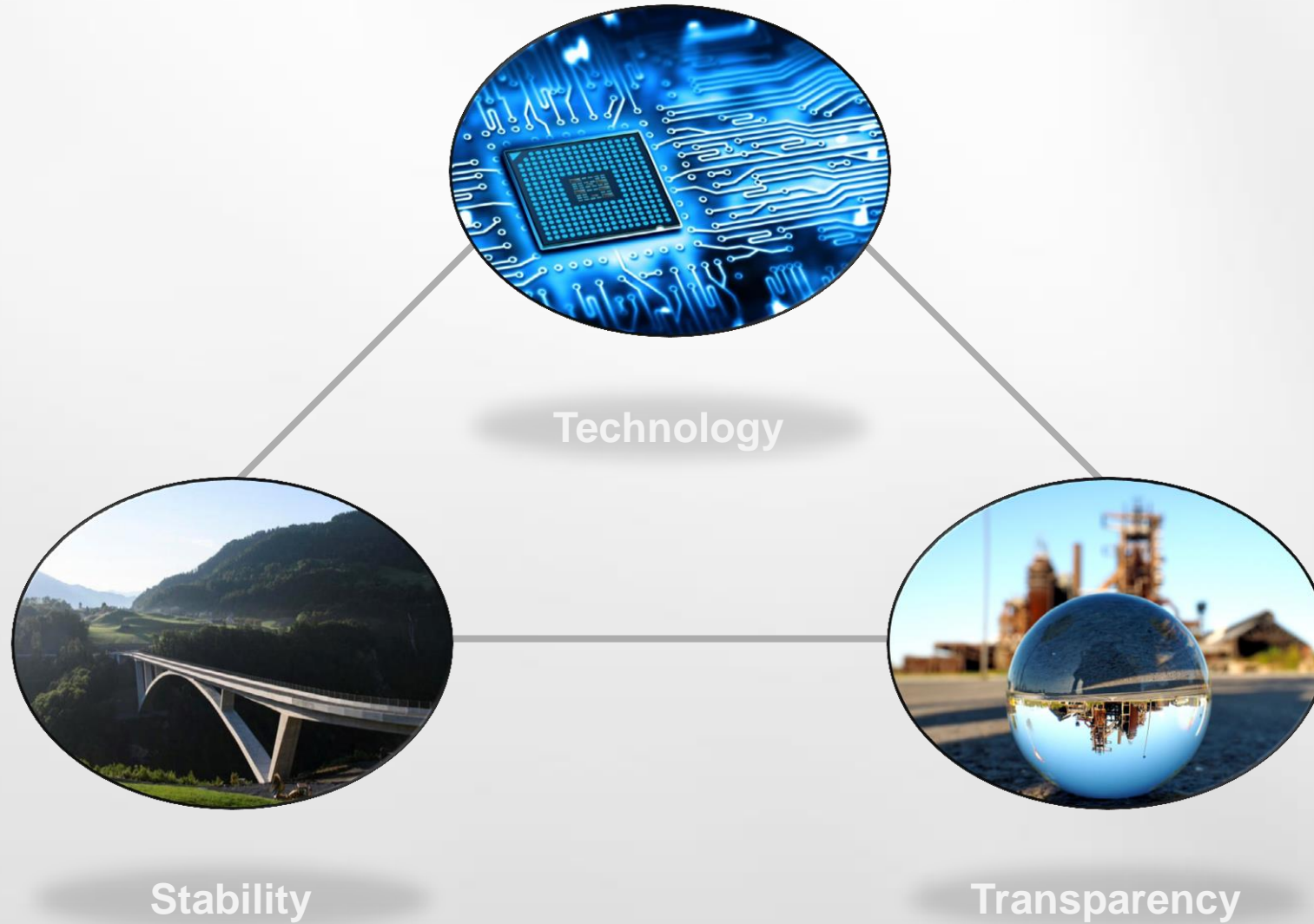
Coating
Technologies



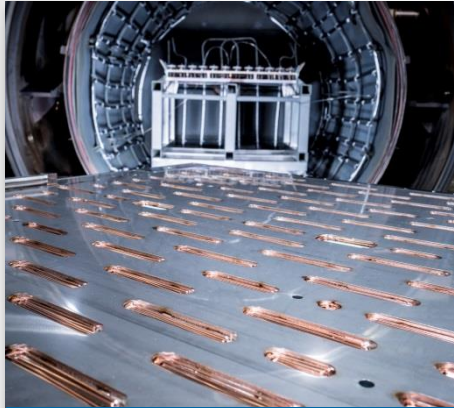
Research Institutes



Our Approach



Our Core Competences



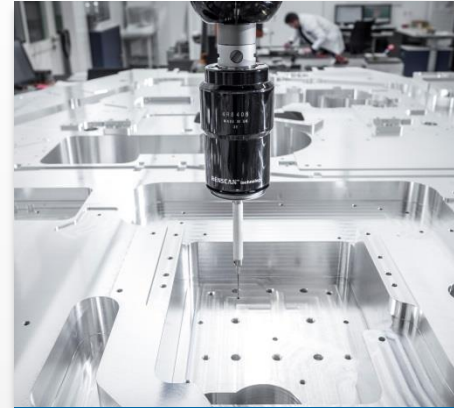
Vacuum Brazing



Welding



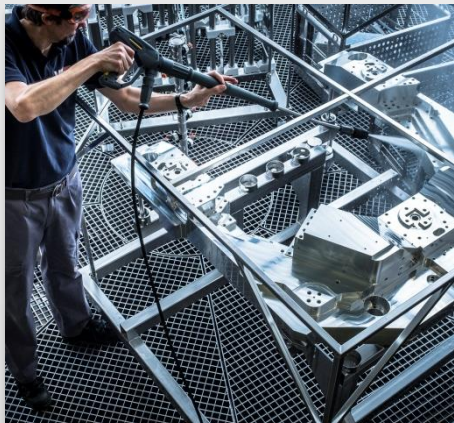
Turning & Milling



Metrology



Surface Treatment



Cleaning



Cleanroom Assembly



Testing & Qualification

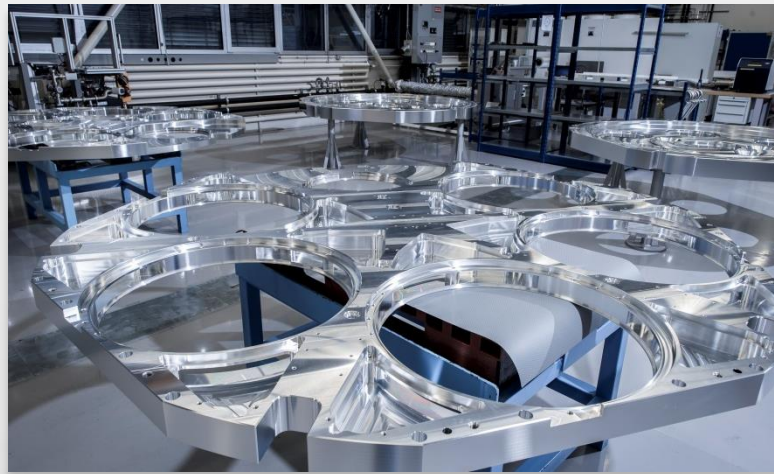


Engineering



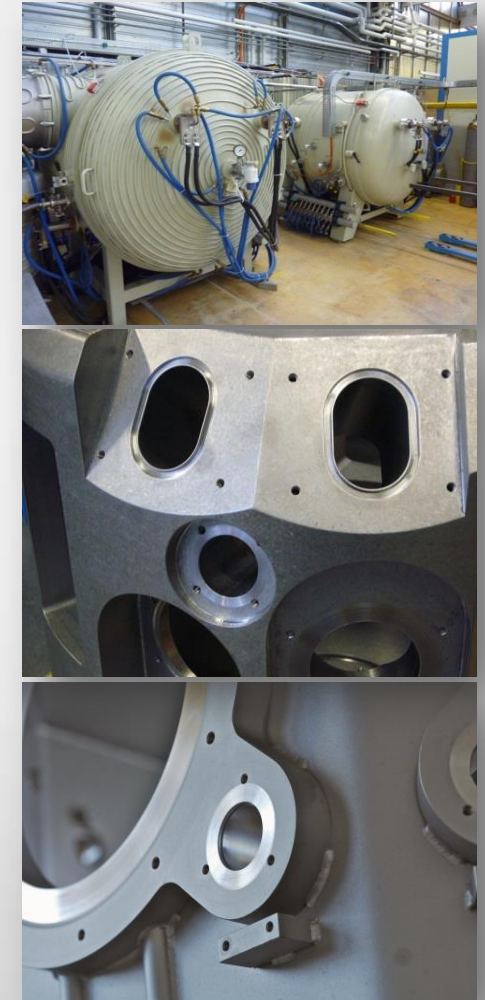
Procurement & Logistics

Products



Equipment

Blasting - Blasting equipment				
	SGT 5000	Schlick 3000	SGT 800	SGT 800
Heigth (mm)	3600	2900	500	500
Width (mm)	5000	3000	600	600
Length (mm)	6000	5500	800	800
Remarks	Glass bead blasting	Glass bead blasting	Glass bead blasting	Corundum blasting
Cleaning - Cleaning equipment				
	AMSONIC		AMSONIC	
Heigth (mm)	3380		1680	
Width (mm)	3200		2150	
Length (mm)	4500		2150	
Remarks	Acid- & Alkaline cleaning		Acid- & Alkaline cleaning	
Drilling - Radial boring equipment				
	Muller SR 30		Mikron WF 3SA	
Spindle nose/ bed /footplate	260 / 635 / -		380	
Max. stroke spindle (mm)	125		100	
Clamping surface up (mm)	1120 x 390		800 x 450	
Power (kW)	0.8 / 1		2.6	
Revolutions (RPM)	200 - 2400		50 -2240	
Heat-treatment Ovens / Vacuum Brazing				
	PVA TePla MOV1600		PVA TePla MOV 600	
Diameter (mm)	900		190	
Length (mm)	900		300	
Max temperature (°C)	1200		1200	
	PVA TePla MOV 3			



Equipment

MEASURING - equipment					
	Brown & Sharp Hexagon Global Advantage	Leitz Infinity	Brown & Sharp DEA Scirocce	Leitz Reference	Tesa Gage 2000
Range X (mm)	2000	1200	1500	700	458
Range Y (mm)	4000	1000	1000	1000	510
Range Z (mm)	1500	600	900	650	406
Measuring force (N)	-	0,01 - 0,03	-	0,03 - 0,06	-
Measuring inaccuracy (µm)	4,5µm + L/200	0,3µm + L/1000	3,8µm +4,5xL/1000	1,3µm + L /350	4µm + L /200

MARKING - Marking equipment	
	Trumpf VectorMark Compact 800F
Range X (mm)	350
Range Y (mm)	700
Range Z (mm)	380

MILLING- Machining centers & large milling equipment							
	Waldrich MultiTec 4000 HC	DMG DMC 200FD	Mandelli Spark 1600AT	DMU 100-T	DMU 70 eVolution	DMU 70	DMC 60-U
Range X (mm)	4000	2000	1600	1150	750	750	600
Range Y (mm)	4000	1800	1400	710	600	600	700
Range Z (mm)	4000	1100	1400	710	520	520	600
Pallet size (mm)	3500 x 2500 (12x)	Ø 1850 (5x)	Ø 1030 (6x)	Ø 800	Ø 800 x 620	Ø 800 x 620	630 x 500 (48x)
Power (kW)	45	32	70	32	13	13	16
Revolutions (RPM)	9000	10000	14000	12000	18000	14000	18000
Product change	Aut. Pallet	Aut. Pallet	Aut. Pallet	standart	standart	standart	Aut. Pallet
Roundtable	Autom.	Autom.	Autom.	Autom.			Autom.
Tilting table		-	-	-	Yes -10° +95°	Yes -10° +95°	
Special remarks	Linear pallet portal	-	HSM	Swivel head +30° - 120°	HSM	HSM	HSM

Equipment

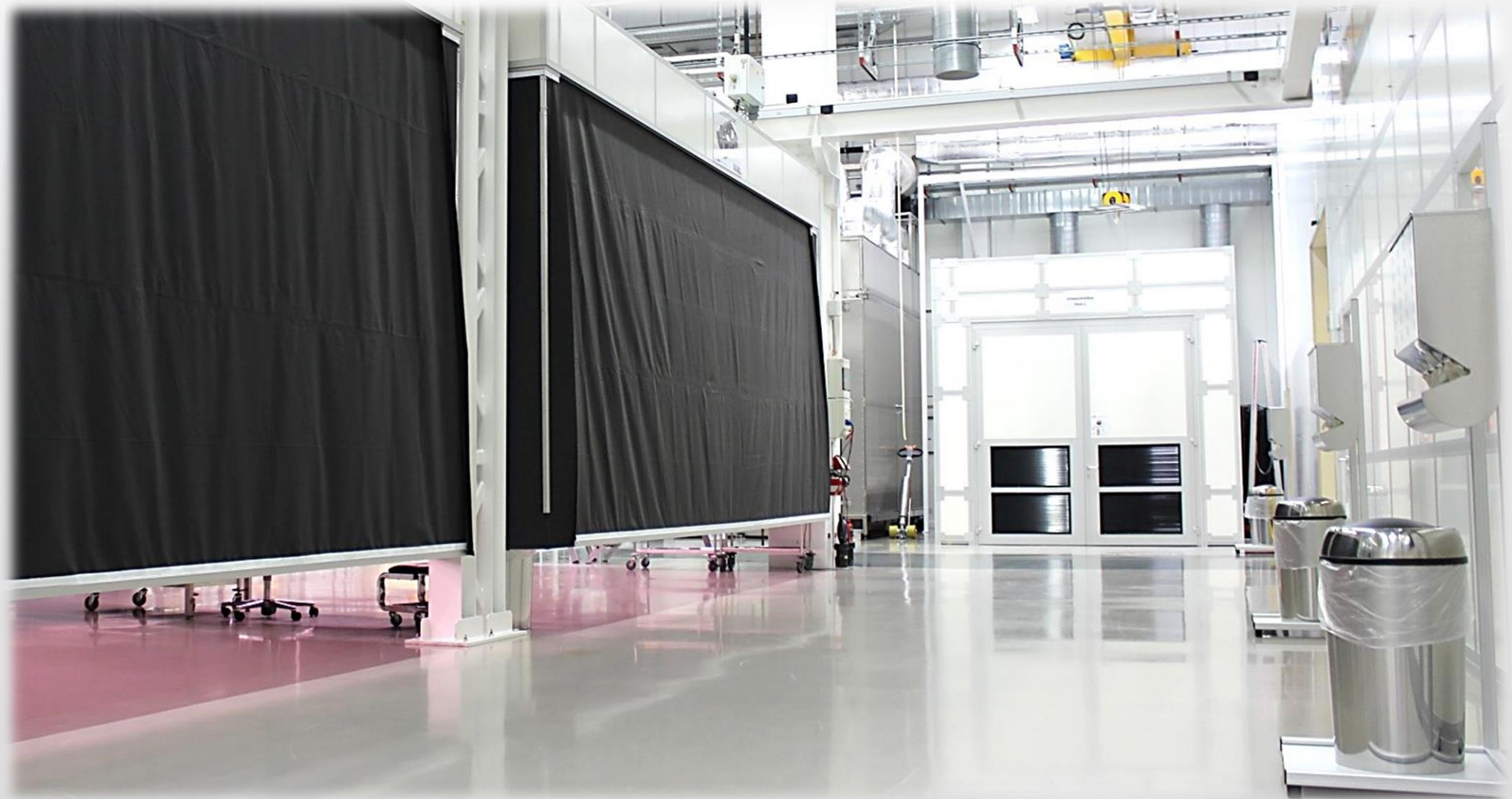
Welding - Welding equipment						
	Fronius Wave 5000	Fronius Wave 2200	Fronius Wave 450	Trans Plus Synergetic 5000	Arc Machines Inc. 207 A	Manipulator
Welding current (A)	3 - 500	3 - 220	450	500		
Remarks	TIG Welding	TIG welding	TIG welding	MIG MAG	Orbital welding Ø 6 - Ø 20	max 7 tons

TURNING - equipment d > 200 mm and / or length > 1000 mm		
	Gildemeister CTX 420L	CTX Alpha 500
Max.swing over bed (mm)	Ø 210	Ø 240
Dist.between centers (mm)	635	470
Power (kW)	25	20
Revolutions (RPM)	5000	6000

MILLTURN- Equipment		
	WFL M65	WFL M40-G
Nominal width	1500	1500
Stoke x-axis	670	670
Stoke y-axis	600	300
Positioning angle b-axis	-110° till +90°	-110° till +90°
Max chuck speed (rpm)	3500	3500
Power at spindel (kW)	40	33
Revolutions (RPM)	Okt 00	Okt 00
Remarks	tailstock / steady rest	counter spindle



Cleanroom



Cleanroom Equipment



UVR

Interior dimensions:	
Diameter	1470 mm
Height	440 mm
Chamber surface according to D&M	55000 cm²
Required surface for measurement	20000 cm²

NGQ 250

Interior dimensions:	
Length	700 mm
Width	700 mm
Height	500 mm
Chamber surface according to D&M	23400 cm²
Required surface for measurement	8000 cm²



Cleanroom Equipment



XXL 1

Interior dimensions:

Length	2560 mm
Width	1930 mm
Height	1195 mm
Chamber surface according to D&M	215000 cm ²
Required surface for measurement	40000 cm ²

XXL 2

Interior dimensions:

Length	2560 mm
Width	1930 mm
Height	1420 mm
Chamber surface according to D&M	215000 cm ²
Required surface for measurement	40000 cm ²





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