

# PRIMINER

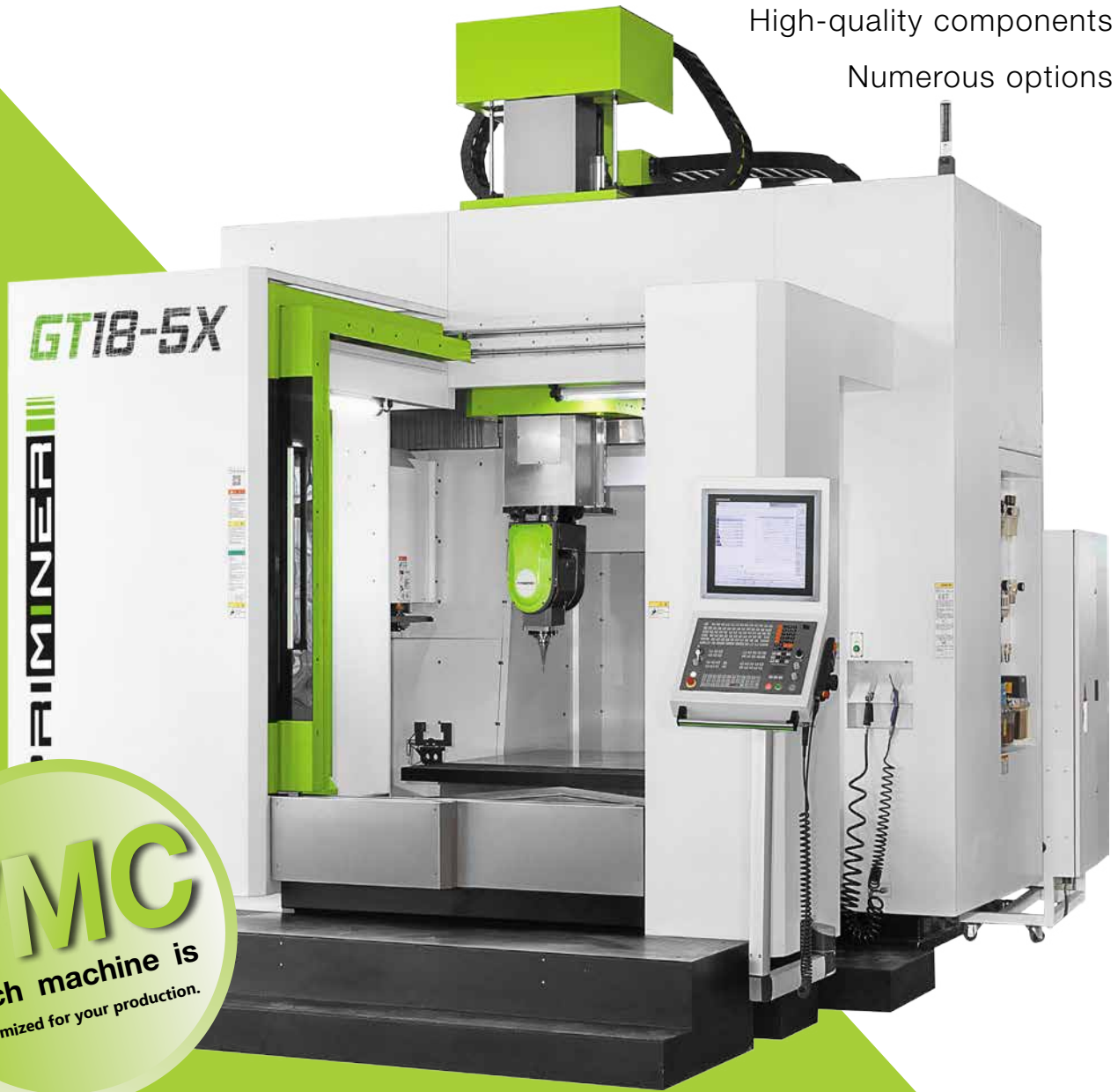
## VERTICAL MACHINING CENTERS

PRECISE · DYNAMIC · RELIABLE

Top price/performance ratio

High-quality components

Numerous options



**VMC**  
Each machine is  
customized for your production.





# PRIMINER

## The Company



Jack Chen | CEO Priminer Company Group  
Benjamin Kaehlcke | General Manager, Germany





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## We stay up to date

“Only employees which are regular trained and involved in the development of our production process can understand the requirements of present and future as a whole.” According to Mr. Kaehlcke GF of Priminer Germany. “This is the case for our German and China team members. We have an intensive exchange program between our two major spots, additional to our permanent training course at our global leading sub-suppliers.”





# HOW WE DO IT

Consequent QC-management according to international norms, a highly motivated team of specialists, advantages of serial production and reliable top sub-suppliers with global leading positions are columns of our success. An open and result-oriented company culture through all levels is the basement for a permanent high level of our reliability and products.





## Our Team

International, competent, highly motivated and always open for new ideas... This is our team. The cooperate culture is a mirror of these attitudes. Our management has got a "open ear" from bottom to top and we are and we practise flat hierarchy.

# PRIMIN



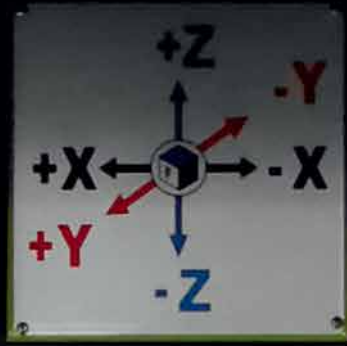


PRIMINER



# ER Global TEAM





# OUR KNOW-HOW FOR YOUR BUSINESS

## Technology & Know-how

We think and plan the future already now. A growing in-house R&D department with experienced engineers which develop our machine concepts are our warrantor that we are prepared for the upcoming trends of the machine tools business. We are listening to the market. Flexibility in the matter of CNC controllers is for us a must, here we only go with the market leaders. Without any compromise!







# UHP Center VF900 · 1100 · 1300 · 1500

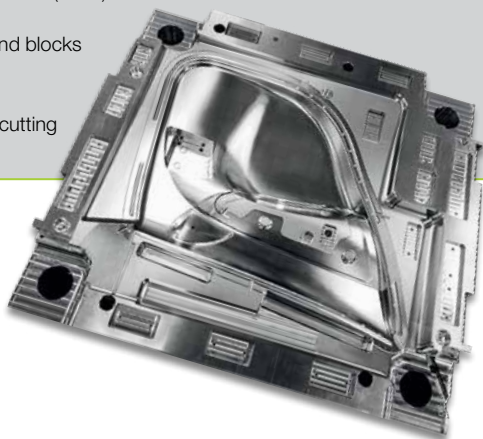


- VF series ultra high performance center is specially designed for high speed and high efficiency machining applications
- Advanced design with reinforced body structure through FEM analysis. VF series offers superb cutting performance and reduced vibration to meet the highest machining demands
- Extra wide machine column and base design ensures the high rigidity during high speed movement
- Motor seat cooling circuit (VF1100 & VF1300)
- Oil cooling through ballscrew(Only available on VF1100)
- Linear scales (option)



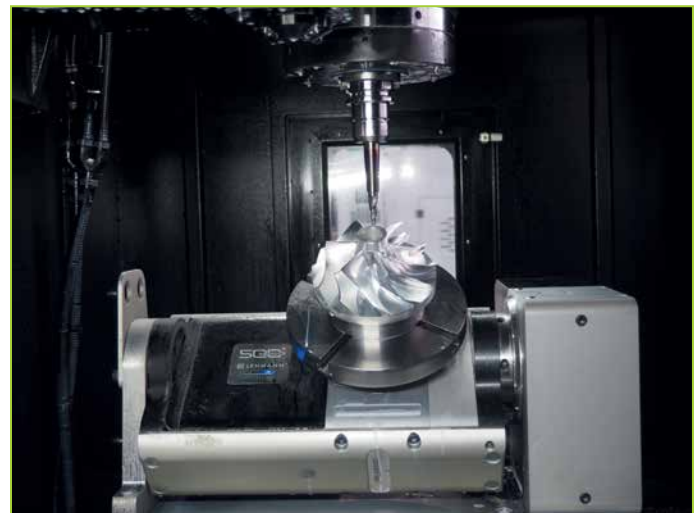
## Standard configuration:

- ✓ Fully enclosed splash guard
- ✓ Direct drive spindle 12000 rpm (VF900)
- ✓ Direct drive spindle 15000 rpm (VF1100, VF1300, VF1500)
- ✓ 24 pockets arm tool changer
- ✓ Two screw type and one chain type (VF 1100, VF1300)
- ✓ Chain type chip conveyor (VF900, VF1500)
- ✓ Spindle oil cooler
- ✓ Air-conditioned electrical cabinet
- ✓ Motor seat cooling circuit (VF1100, VF1300, VF1500)
- ✓ Rigid tapping
- ✓ Ethernet, CF card and USB interface
- ✓ Automatic lubrication system
- ✓ Coolant system
- ✓ LED working lamp
- ✓ End of program light
- ✓ Electronic handwheel (MPG)
- ✓ Tool box
- ✓ Leveling bolts and blocks
- ✓ Coolant gun
- ✓ Air gun
- ✓ Air blast during cutting
- ✓ User Manual



## Optional configuration:

- Built-in motor spindle HSK A63 20000rpm
- CTS coolant through spindle + ATS
- Oil cooling through ballscrew(Only available on VF1100)
- Oil skimmer
- Linear scales on X/Y/Z
- 4<sup>th</sup> axis
- 4/5<sup>th</sup> axis
- Workpiece probe
- Tool probe



Lehmann 4<sup>th</sup> & 5<sup>th</sup> axis

\* The above specifications are subject to change without prior notice, no liability for mistakes. Machines may be shown with optional equipment.





Cast iron tempered for stress relief to ensure structural stability without deformation



Two screw type chip conveyors in Y-axis (VF1100 & VF1300)



External tool cooling



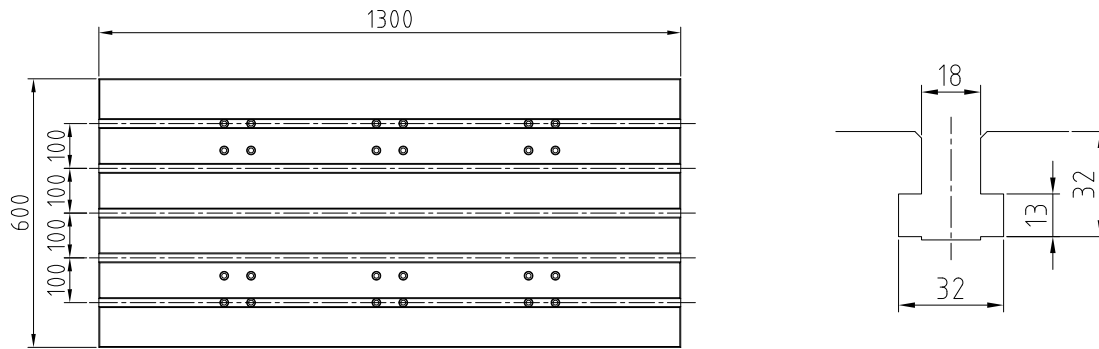
High rigidity spindle



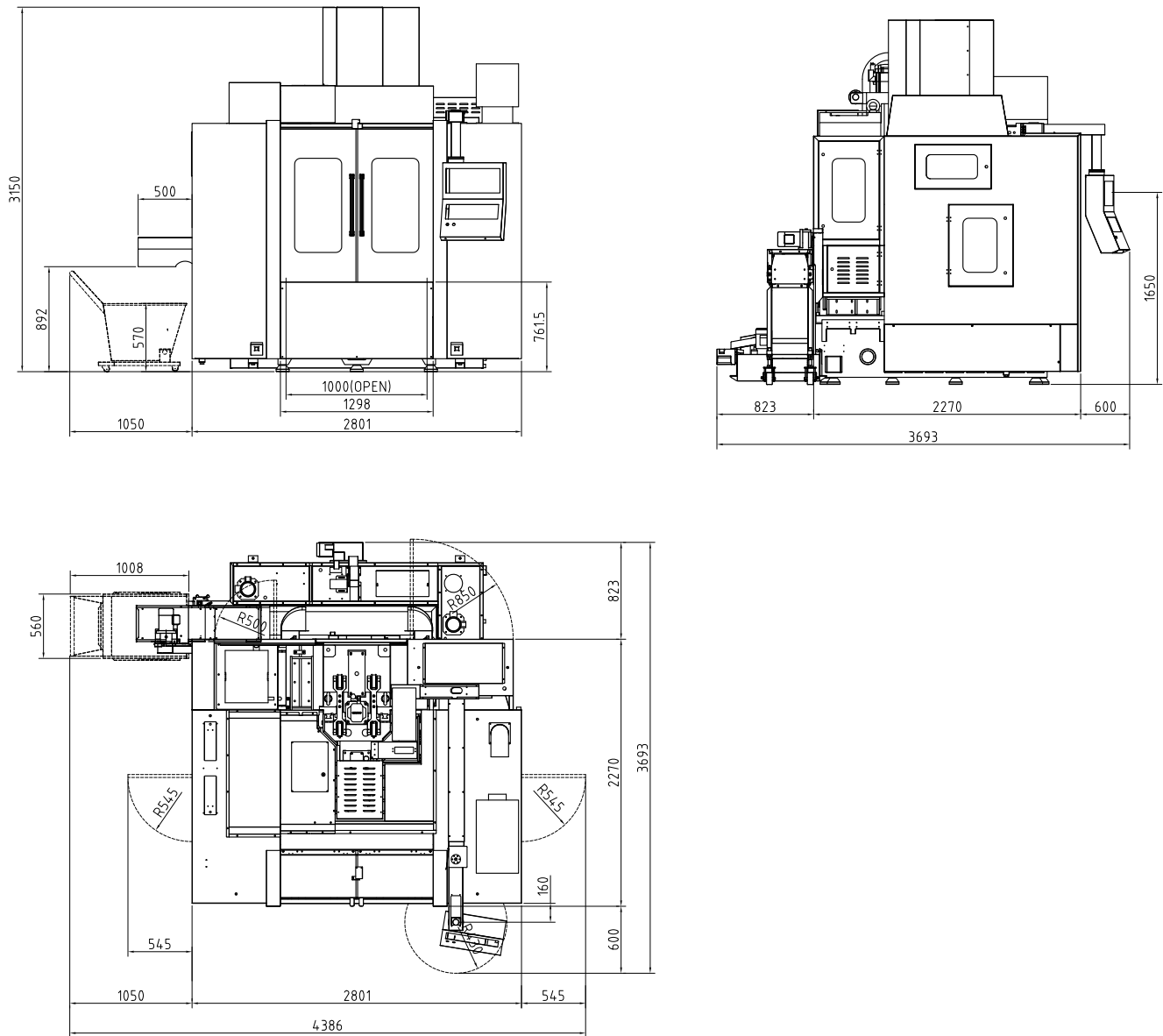
Oil cooling through ballscrew(Only available on VF1100)

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## Worktable (VF1100)



## Dimensions (VF1100)





## Technical Specifications

Technical Specifications		VF900	VF1100	VF1300	VF1500
<b>Table</b>					
Table size	mm	1060 x 600	1300 x 600	1500 x 650	1700 x 700
T-slot (width x number x distance)	mm	18 x 5 x 100		18 x 6 x 100	
Max. load	kg	800	1000	1200	1500
<b>Travel</b>					
X/Y/Z Travel	mm	900 / 600 / 600	1100 / 650 / 600	1300 / 650 / 600	1500/760/700
Spindle nose to table	mm	150 - 750		130 - 830	
Spindle center to column	mm	652	697		802
<b>Spindle</b>					
Spindle taper	-	SK40 / BBT40 / CAT 40			
Spindle motor power/torque	-	9/22kW; 63/135Nm(SIEMENS) 11/18.5kW; 52.5/118Nm(FANUC)		20/53kW; 126/250Nm(SIEMENS) 15/30kW; 95.5/191Nm(FANUC)	
Spindle speed	rpm	12000		15000 Siemens, 12000 Fanuc	
Spindle(option 1)	-	HSK A63, 20000rpm			
Motor power/torque	-	20/24kW; 35/42Nm			
Spindle(option 2)	-	/		HSK A63, 20000rpm	
Motor power/torque	-	/		25/28kW; 87/96Nm	
<b>Feed</b>					
Rapid feed X/Y/Z	m/min	36			24
Cutting feed	mm/min	1 - 12000			
<b>Tool changer</b>					
Number of tools	pcs	24			
Max. tool length	mm	300			
Max. tool diameter	mm	Φ78 / Φ125			
Max. tool weight	kg	8			
<b>Accuracy (VDI 3441 Full travel)</b>					
Positioning accuracy (without linear scales)	mm	0.008		0.010	
Positioning repeatability (without linear scales)	mm	0.006		0.006	
Positioning accuracy (with linear scales)	mm	0.006		0.008	
Positioning repeatability (with linear scales)	mm	0.004		0.006	
<b>Dimensions &amp; Weight</b>					
Dimensions	mm	3850x2340x3000	3850x3100x3185	4025x3090x3185	5180x2365x3170
Weight	kg	6500	7500	8000	10000



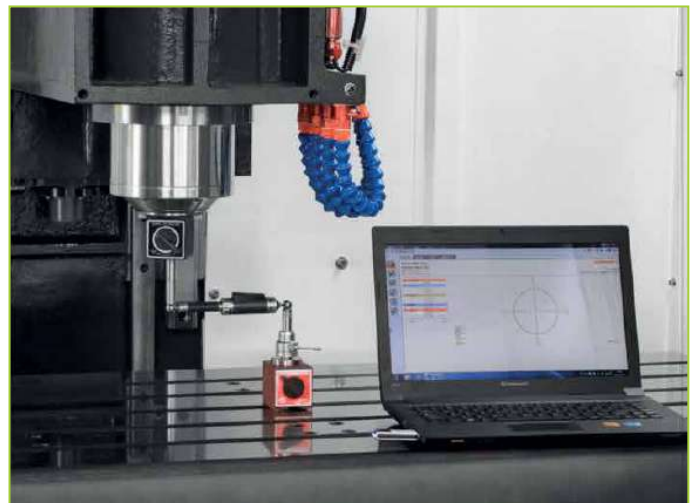
Cooling unit with chip conveyor



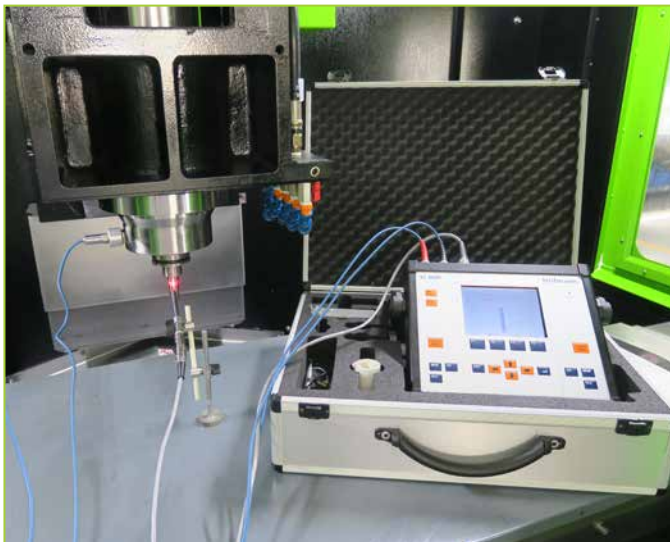
Keyarrow telescopic covers in all axes

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## Measurements control during the production



## Spindle unit final unbalancing inspection



## Hand scraping





pl LEHMANN®



## Swiss Rotary Table Technology

### High speed

- ✓ Up to 210 rpm
- ✓ up to 0.21 sec / 90°

### More space

- ✓ Extended travel in Z- and X-direction

### Heavy duty

- ✓ High spindle load, heavy-duty bearing

### High torque

- ✓ Feed torque up to 850 Nm

### Adaptability

- ✓ Multifunctional spindle HSK

### Precision

- ✓ On the workpiece, as precise as 2µm / 100 mm



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SIEMENS



HEIDENHAIN

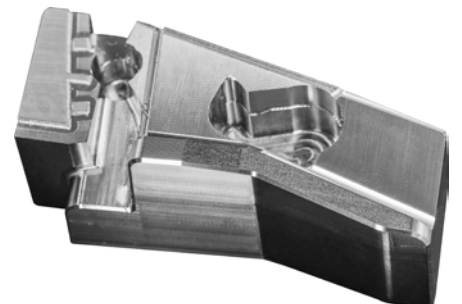
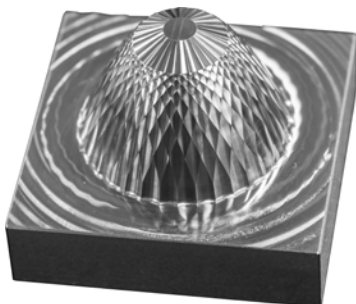
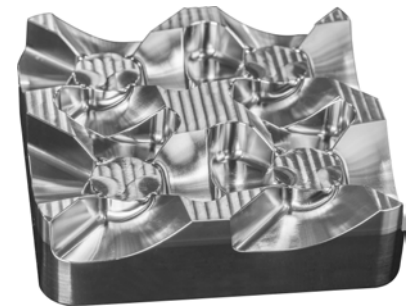
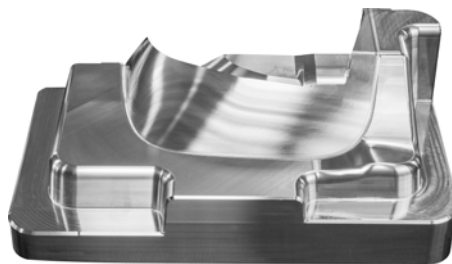
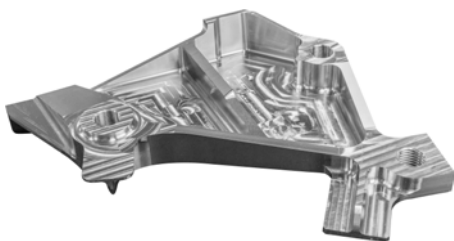
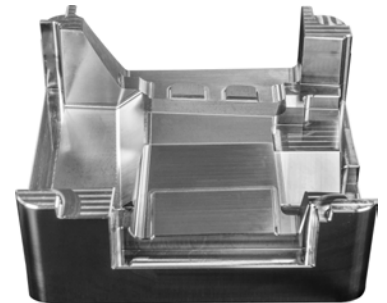
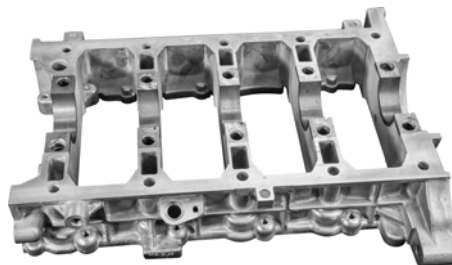
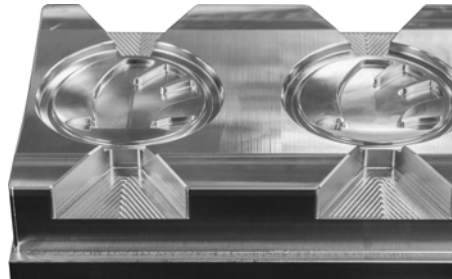


FANUC



FAGOR





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**hyperMILL**  
**SolidCAM**  
 The Leaders in Integrated CAM



**DIJET NS TOOL**  
**GÜHRING**



**LEHMANN**



**MST**



**SCHUNK**



**Blaser.**  
 SWISSLUBE



**REGO-FIX**

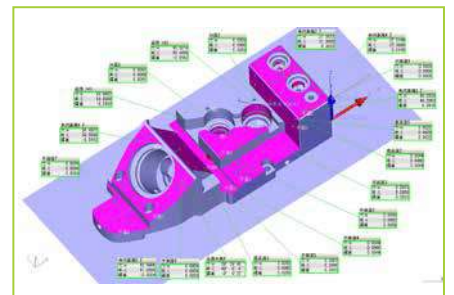
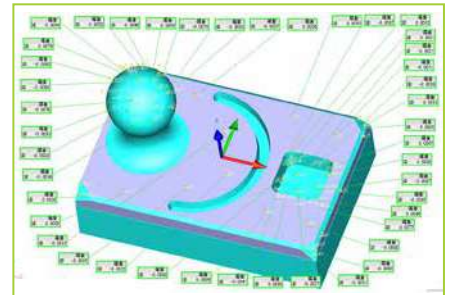
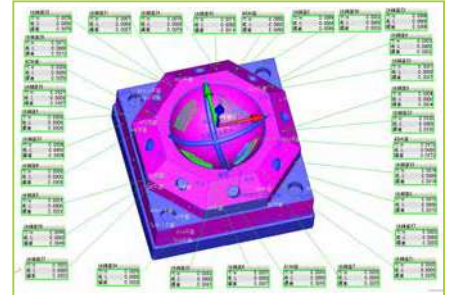
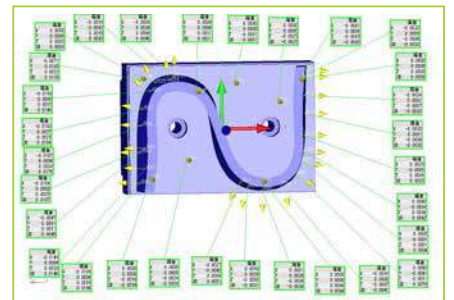


**BLUM**  
 focus on productivity



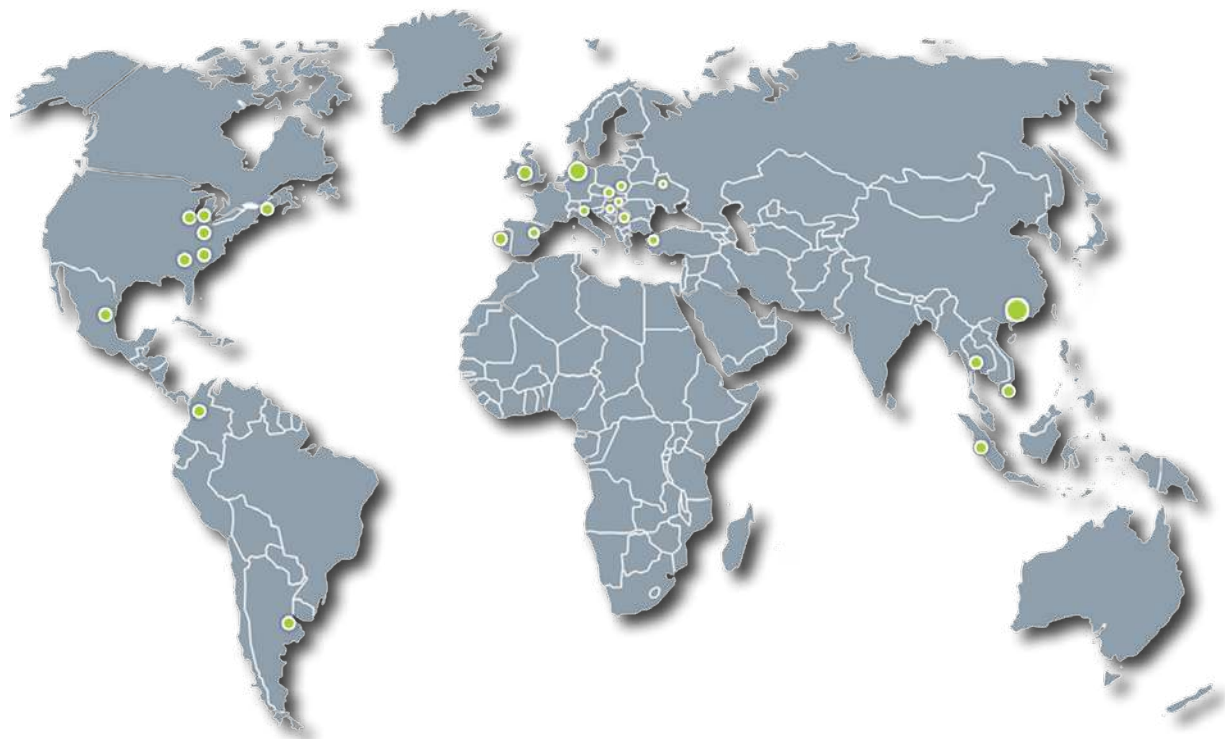


Workpiece measuring by CMM



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