

PRIMNER

Alpha Center V15L



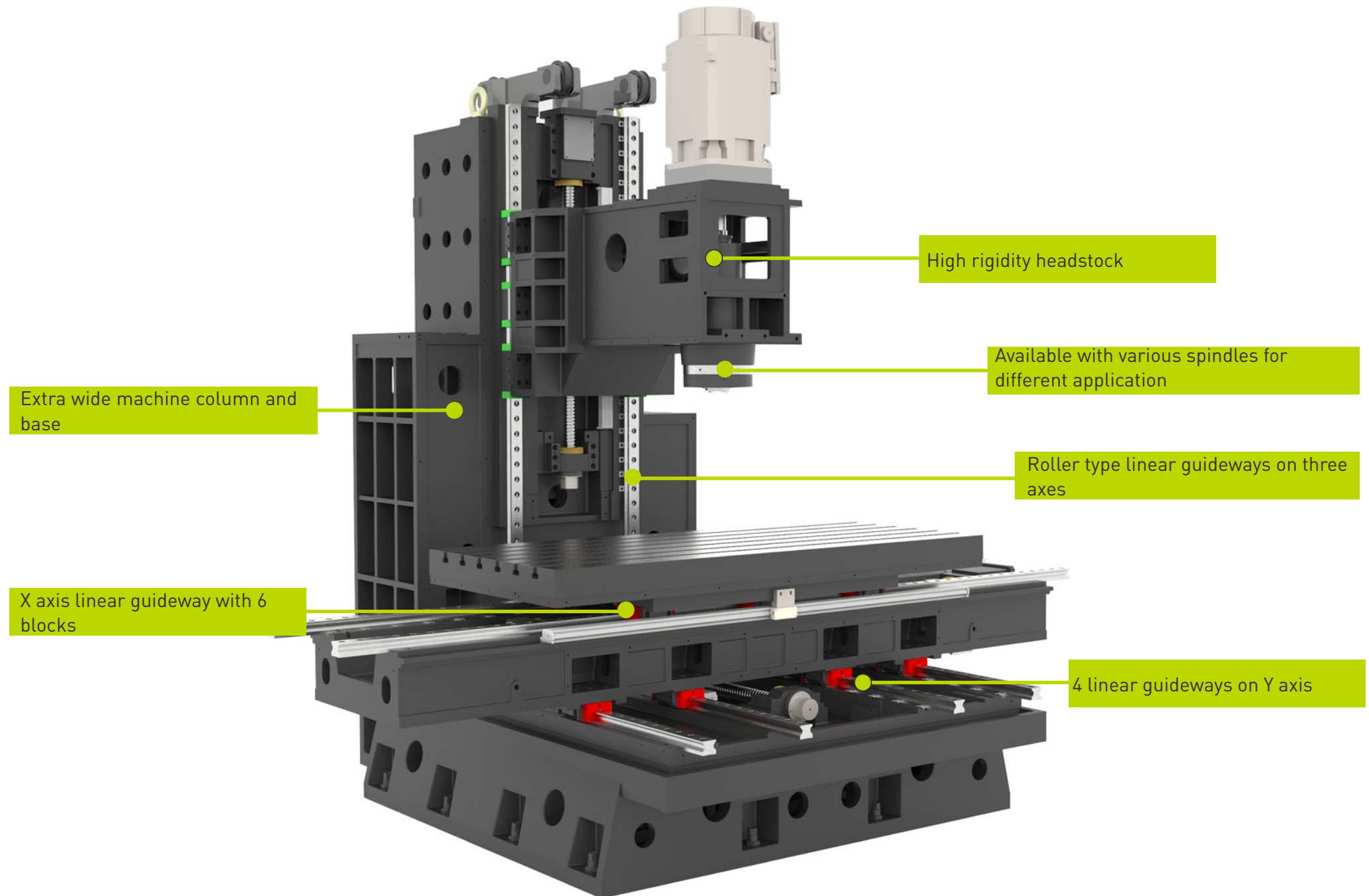
V15L

- 4 linear guideways on Y axis
- Cast iron is tempered for stress relief to ensure structural stability without deformation
- C3 class ballscrews ensure the highest accuracy and durability
- Pre-tension on all axis minimize thermal distortion

Technical Specifications	V15L	
Worktable size	700×700 mm	
X/Y/Z Travel	1500/760/700 mm	
Rapid feed X / Y / Z	24/24/24 m/min	
Spindle taper	Taper 40	Taper 50
Spindle speed	12000/15000 rpm	6000/8000/10000 rpm



HIGH RIGIDITY MACHINE STRUCTURE





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

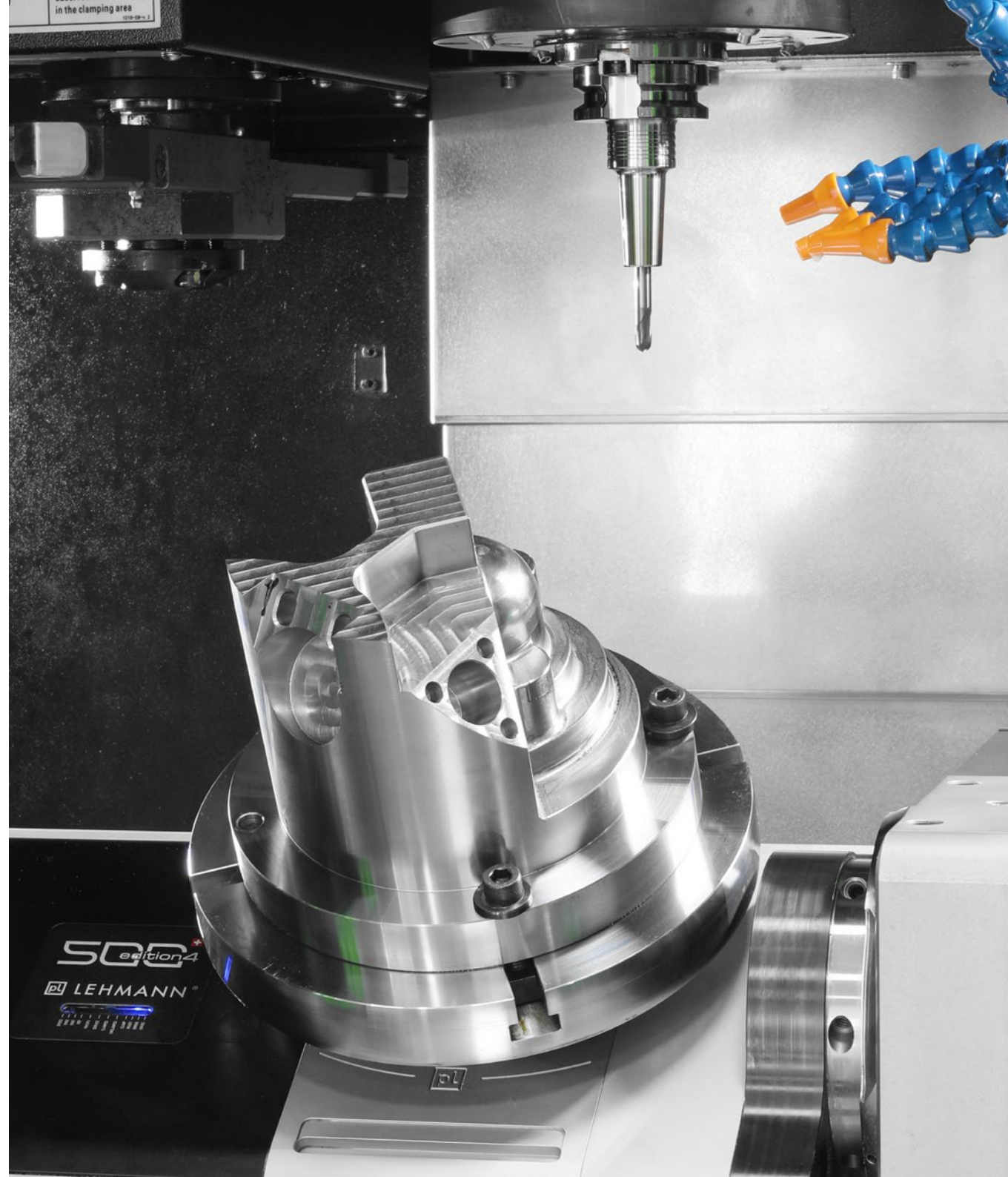
- ✓ Feed torque up to 850 Nm

Adaptability

- ✓ Multifunctional spindle HSK

Precision

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



BLUM MEASURING SYSTEM

Universal High-Speed touch probe with multidirectional measuring mechanism

- ✓ Detection of workpiece position
- ✓ Correction of workpiece orientation
- ✓ Thermal compensation of the machine tool
- ✓ Contour measurement

Your benefit:

- ✓ Measuring speed up to 3 m/min
- ✓ Precise, non-lobing touch characteristics
- ✓ No-wear, optoelectronic measuring mechanism
- ✓ Use of two measuring systems with one IR receiver
- ✓ Extended battery life
- ✓ Precise measurement even with coolant
- ✓ Proven and robust design

Highlights

- ✓ Proven high-precision laser measuring system;
- ✓ Non-contact, optical tool measurement;
- ✓ 100 % reliable due to BLUM protection system



HEIDENHAIN TNC 620 / 640

The TNC contouring control for milling and milling-turning machines

Key features:

Intelligent-Dynamic Precision Machining

- ✓ Dynamic Collision Monitoring (DCM)
- ✓ Dynamic Efficiency
- ✓ Active Chatter Control (ACC)
- ✓ Adaptive feed control (AFC)
- ✓ Machine any contour slot with trochoidal milling

Fast and reliable machining at high contour fidelity

- ✓ Optimal tool guidance by the TNC 640

Programming, Editing, Testing and Automated machining

- ✓ A full range of possibilities with the TNC 640
- ✓ Graphical support in any scenario
- ✓ Straightforward function keys for complex contours
- ✓ Programming free contours and Data Matrix codes
- ✓ Easy calibration of rotary axes with KinematicsOpt

Tool measurement and Workpiece measurement

- ✓ Measuring length, radius, and wear inside the machine
- ✓ Setup, preset setting, and measuring with touch trigger probes
- ✓ Machining and measuring 3-D contours
- ✓ The TNC 640 makes setup easy

Open to outside information

- ✓ Processing CAD files with the TNC 640
- ✓ The TNC 640 programming station
- ✓ Uniformly digital job management with Connected Machining
- ✓ Machining and measuring 3-D contours
- ✓ The TNC 640 makes setup easy



SIEMENS SINUMERIK 828D

The perfect solution for all performance classes

New Panel Processing Unit

- ✓ Higher processor performance
- ✓ Digital Input with higher voltage stability
- ✓ 1GB Ethernet interface X130
- ✓ Pull-relief for the DRIVE-CLiQ and PN cables
- ✓ More robust touch-operation 15,6" PPU290.4

Features for milling Cogging torque compensation and 2nd channel for milling

- ✓ System integrated function
 - Drive-based function SINAMICS
- ✓ Automatic measure of the cogging torque
- ✓ Pre-control of periodic repetitive torque ripple
- ✓ Function available for rotative-, linear- and torque motors
- ✓ 2nd Channel Milling
 - For both machining and handling & robot purpose

Nodding Compensation ECO/Advanced and Advanced Position Control ECO

- ✓ Intelligent control based compensation
 - New developed compensation algorithm
- ✓ System integrated function
 - As a CNC and HMI feature
- ✓ Scalable function in 3 steps
 - ECO
 - Advanced
 - Compile Cycle
- ✓ Commissioning support with HMI masks
 - Additional input mask from SINUMERIK Operate

Higher speed, more accurate for the entry level

Tool Ident Connection

Jerk Adaption

Top Speed plus

Intelligent Load Control (ILC)

Intelligent Dynamic Control (IDC)



FANUC Series 0i-MODEL F Plus

New World-Standard CNC

As a successor to the Series 0i-MODEL F, the FANUC Series 0i-MODEL F Plus has been released with renewed design, enhanced basic functions and the pursuit of ease of use.

It is equipped with the latest control technology for fine surface machining and reducing cycle time, and with customizable functions that can flexibly create screens.

- ✓ Reduced cycle time
- ✓ High-Speed, Fine Surface Machining
- ✓ Renewed design
- ✓ Equipped with +HMI (Type 0)
- ✓ Equipped with FANUC's latest CNC and servo technologies
- ✓ Comes standard with customizability functions
- ✓ Extended memory capacity
- ✓ Consistent Support at Shop Floor
- ✓ Easily use memory cards as high-capacity program memory devices
- ✓ Supported Industrial Ethernet/Field Networks
- ✓ Improvement of the safety of machine tool and machining line



TECHNICAL SPECIFICATION

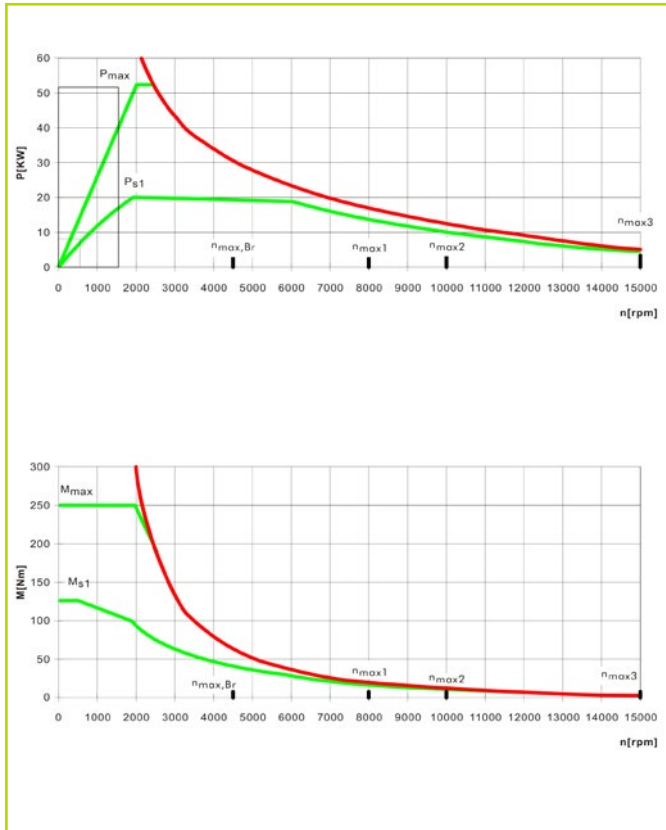
TECHNICAL SPECIFICATION	V15L
TABLE	
Table size	1700 x 700 mm
T slot(width×numer×distance)	18 x 6 x 100 mm
Max.load	1500 kg
TRAVEL	
X/Y/Z Travel	1500/760/700 mm
Spindle nose to table	130 - 830 mm
Spindle center to column	802 mm
SPINDLE	
Spindle taper	SK40/BT40/CAT40
Spindle speed	12000 rpm
Spindle motor power and torque	20/53kW; 126/250Nm (SIEMENS) ; 11/18.5kW; 52.5/118Nm (FANUC)
TOOL CHANGER(STANDARD)	
Number of tools	24 pcs
Max. tool length	300 mm
Max. tool diameter	Φ78/Φ125 mm
Max. tool weight	8 kg
FEED	
Rapid feed X/Y/Z	24/24/24 m/min
Cutting speed	1-12000 mm/min
ACCURACY (VDI 3441 /full travel)	
Positioning accuracy	0.010 mm
Repeatability repeatability	0.006 mm
DIEMENSION & WEIGHT	
Dimension	5180x2365x3170 mm
Weight	10000 kg

STANDARD /OPTIONAL CONFIGURATION

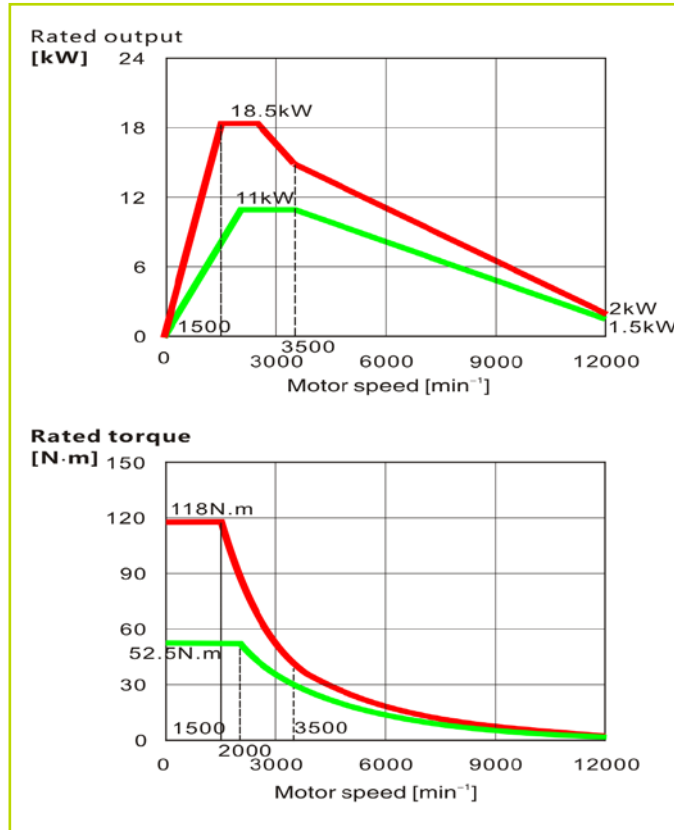
● Standard ○ Optional

Configurations	Standard	Optional
Fully enclosed splash guard	●	
Direct drive spindle 12000 rpm	●	
24 pockets arm tool changer	●	
Chain type chip conveyor	●	
Spindle oil cooler	●	
Air-conditioned electrical cabinet	●	
Ethernet, CF card and USB interface	●	
Automatic lubrication system	●	
Direct drive spindle 15000rpm, taper 40(SIEMENS)		○
Direct drive spindle 8000rpm_15/20.3kW, BBT50(FANUC)		○
Direct drive spindle 10000 rpm_20/53kW_BBT50(SIEMENS)		○
Belt drive spindle 6000 rpm_15/20.3kW, BT50/SK50(FANUC)		○
Belt drive spindle 6000 rpm_20/53kW, BT50/SK50(SIEMENS)		○
Belt drive spindle with BF gearbox 6000 rpm		○
28 pockets arm tool changer ,taper 40		○
40 pockets chain type tool changer ,taper 40		○
CTS Coolant through spindle + ATS		○
Oil skimmer		○
Workpiece probe		○
Tool probe		○
4 th axis		○
4/5 th axis		○
Extra 200GB SSD program memory (Only available on SIEMENS Control)		○
Coolant system	●	
LED working lamp	●	
End of program light	●	
Electronic handwheel (MPG)	●	
Tool box	●	
Leveling bolts and blocks	●	
Air blast during cutting	●	
Coolant gun	●	
Air gun	●	
User Manual	●	

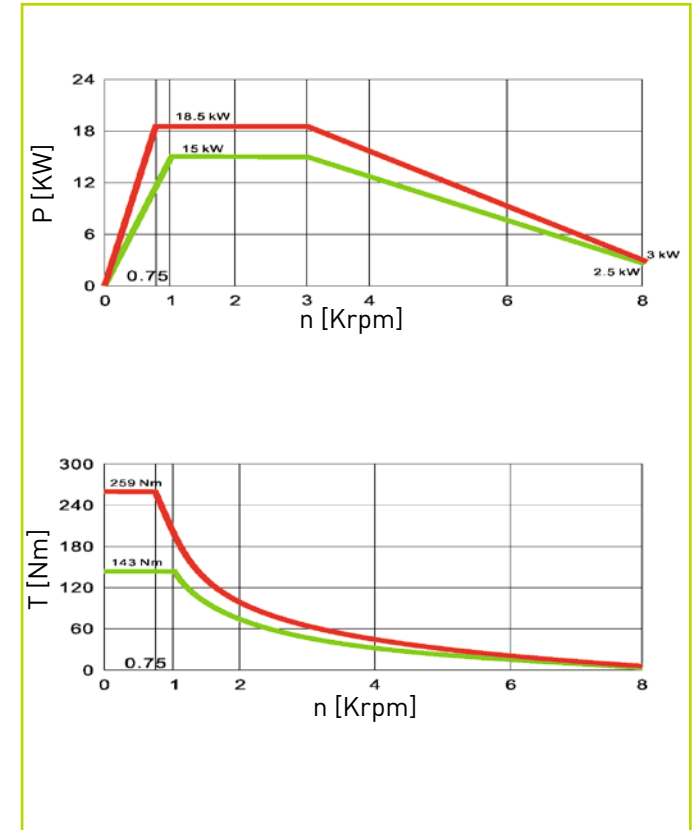
TORQUE DIAGRAM



SIEMENS, 6000/12000/15000 rpm

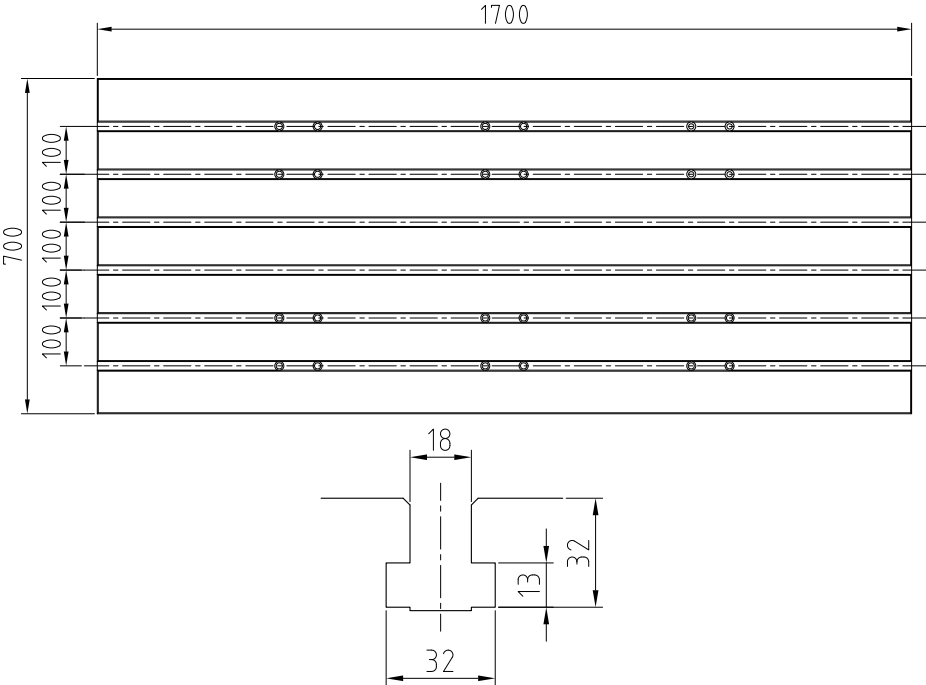
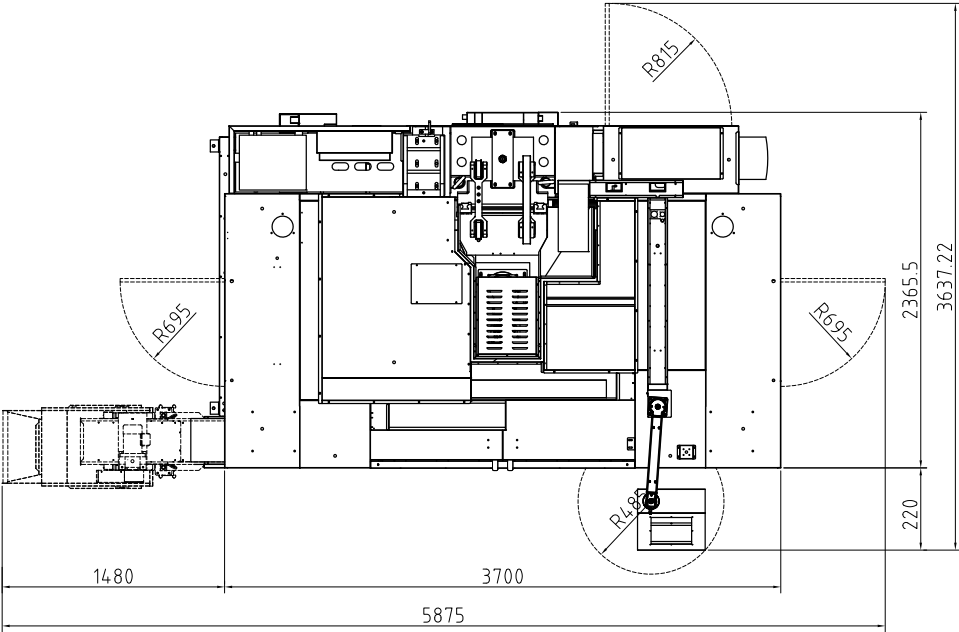
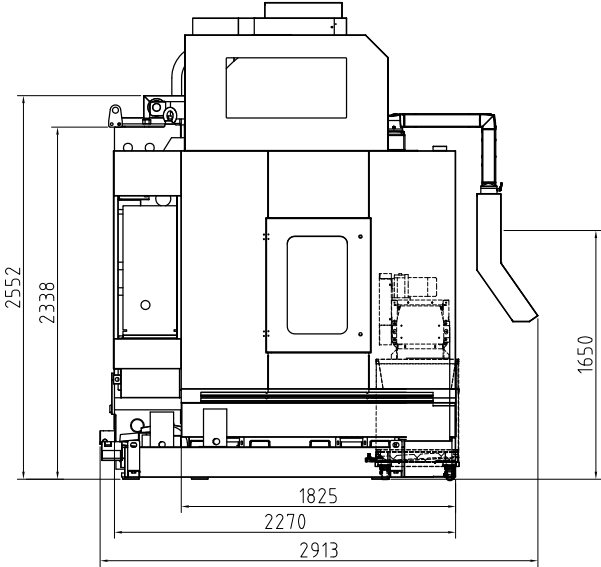
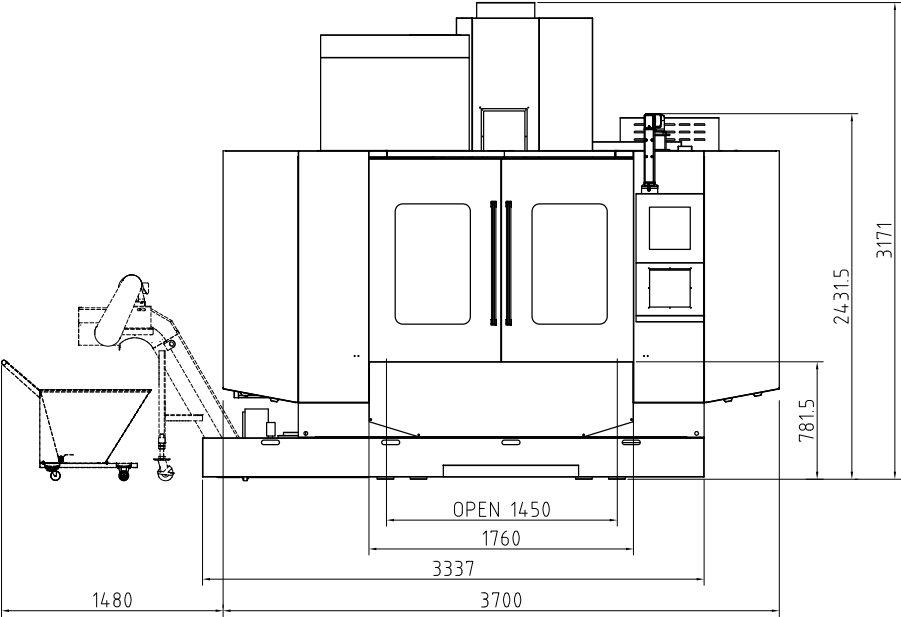


FANUC, 12000 rpm



FANUC, 6000/8000 rpm

DIMENSIONS





PRIMINER



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.

PRIMINER Global TEAM



PRIMINER Solutions



hyperMILL
SolidCAM
The Leaders in Integrated CAM



DIJET **NS** TOOL
GÜHRING



PL LEHMANN



SCHUNK



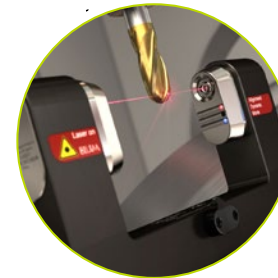
HAIMER



Blaser.
SWISSLUBE



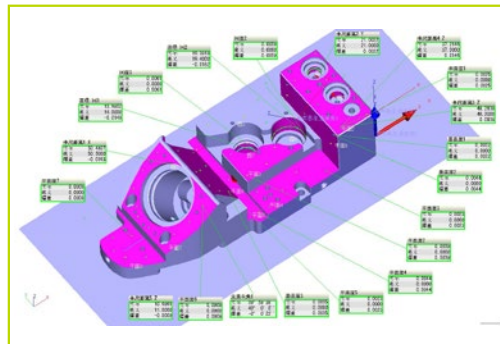
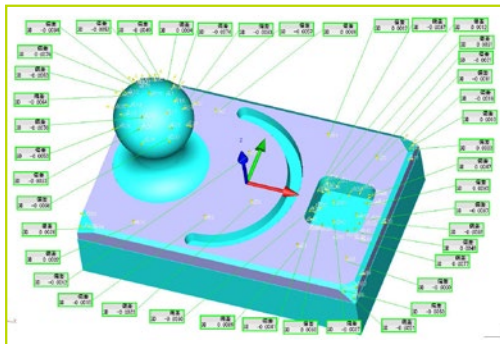
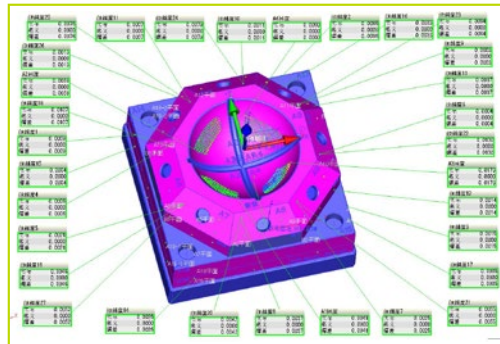
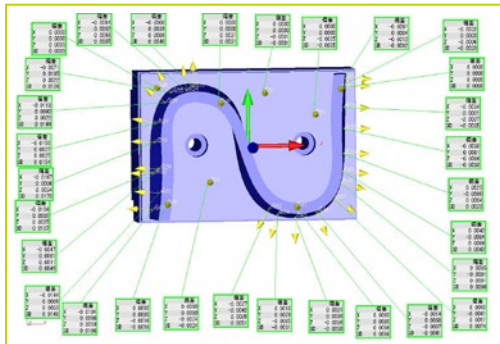
REGO-FIX

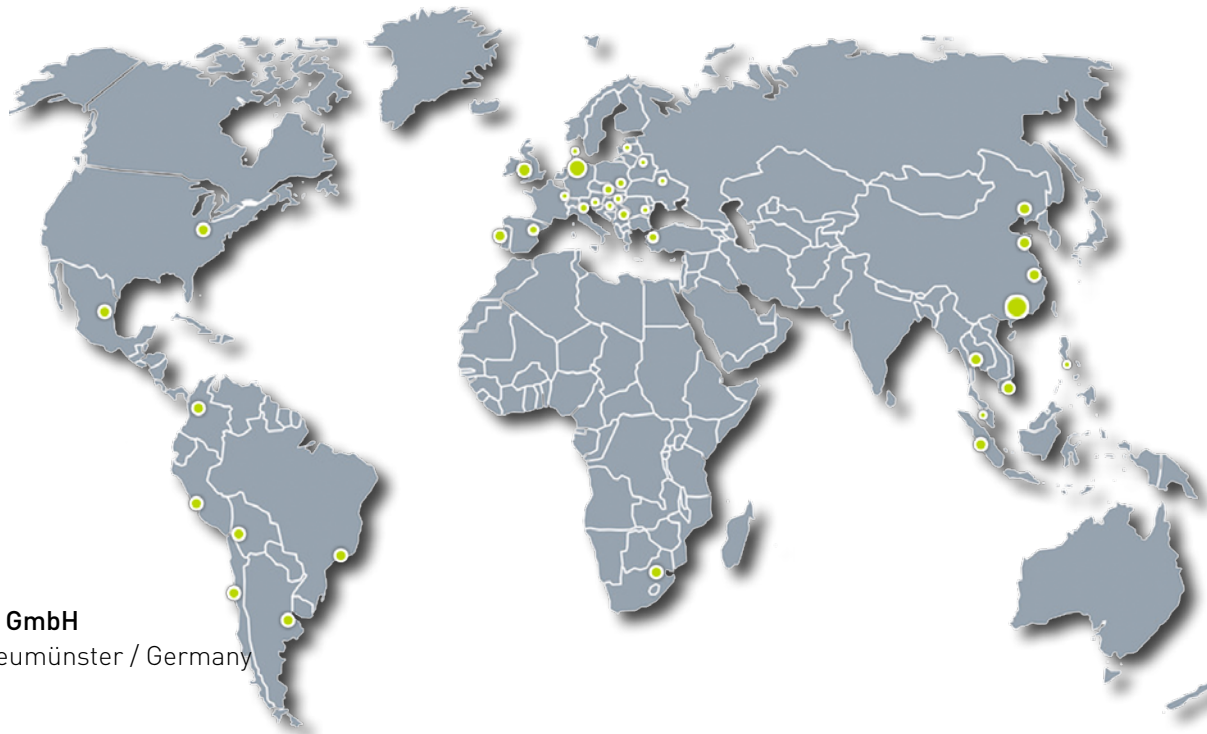


BLUM
focus on productivity



Workpiece measuring by CMM





PRIMINER Werkzeugmaschinen GmbH

Tungendorfer Str.10 · D-24536 Neumünster / Germany

Tel: +49 (0) 4321-53 9946 -0

Fax: +49 (0) 4321-25 2003 -90

E-mail: info@priminer.de

PRIMINER SOUTH EAST EUROPE · PRIMINER d.o.o. BEOGRAD

Vladimira Popovica 38-40 · GTC - 11070 Beograd / Srbija

Tel: +381 69 702 705

Fax: +381 11 715 69 00

E-mail: office@priminer.de

PRIMINER MACHINE TOOLS DONGGUAN CO., LTD

XinRuYi Industrial Park, Fuxing Road, Xingguang Village, Huangjiang Town, Dongguan, P.R.China

Tel: +86 769 838 490 61

Fax: +86 769 838 490 62

E-mail: sales@priminer.de

www.priminer.de