

IBARMIA . **OPENTUNITY**



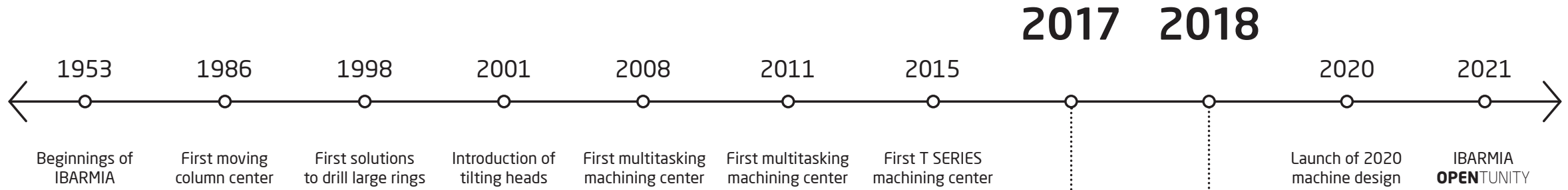
STAR EDITION MOVING COLUMN MACHINING CENTERS

IBARMIA's "ready to go" standard configuration.

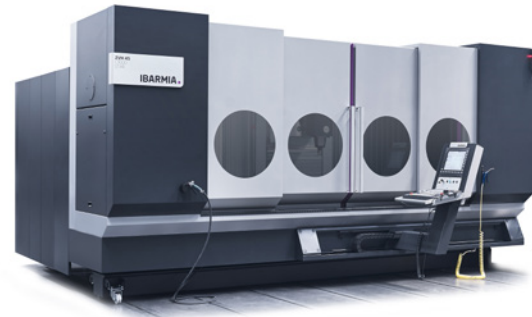
INTRO

All the IBARMIA high quality components, know-how and technology put into one configuration that meets the requirement of a high percentage of the standard market. A PREMIUM machine with the price and availability of a standard machine.





Over 65 years
experience_



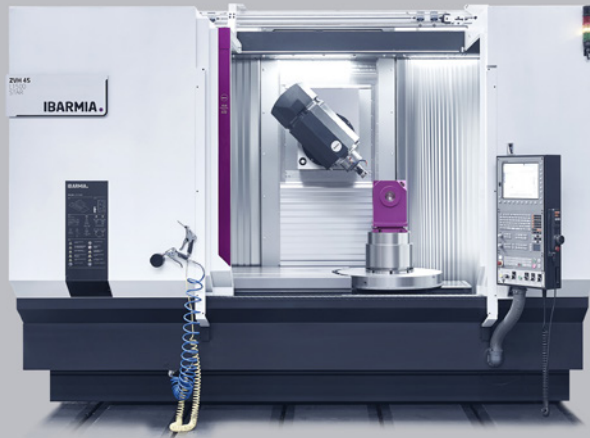
Origin of the machine
STAR L3000



Origin of the machine
STAR L1500

01

ZVH 45/L1500 STAR EDITION



5 axis* moving column machining center

Table dimensions

1700 x 850 mm

Axis travels

X • 1500 mm / Y • 800 mm / Z • 800 mm

*ZV 45_ Vertical headstock 3 axis option for basic machining operations at an affordable price.

02

ZVH 45/L3000 STAR EDITION



5 axis* moving column machining center

Table dimensions

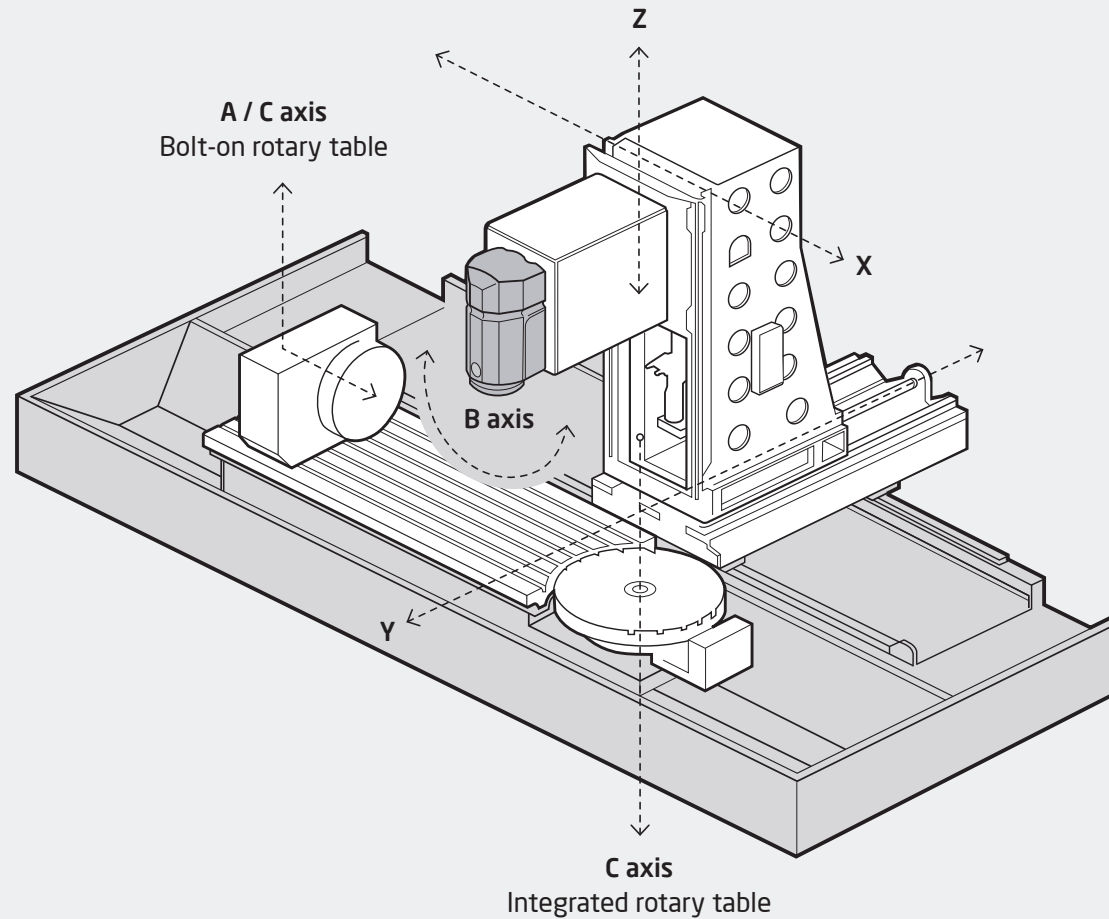
3000 x 850 mm

Axis travels

X • 3000 mm / Y • 800 mm / Z • 800 mm

*ZV 45_ Vertical headstock 3 axis option for basic machining operations at an affordable price.

POSSIBLE CONFIGURATIONS_ 3 axis / 4 axis / 5 axis / 6 axis (L3000) Machining centers.



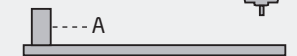
ZV 45_3 axis machine.

3_X / Y / Z



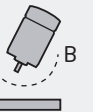
ZV 45_4 axis machine.
Add bolt-on rotary table.

4_X / Y / Z / A



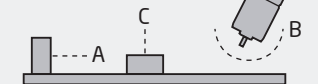
ZVH 45_4 axis machine.
Add B axis tilting head.

4_X / Y / Z / B



ZVH 45_5 axis machine.
Add B axis tilting head and
A-C axis bolt-on rotary table.

5_X / Y / Z / B / A or C



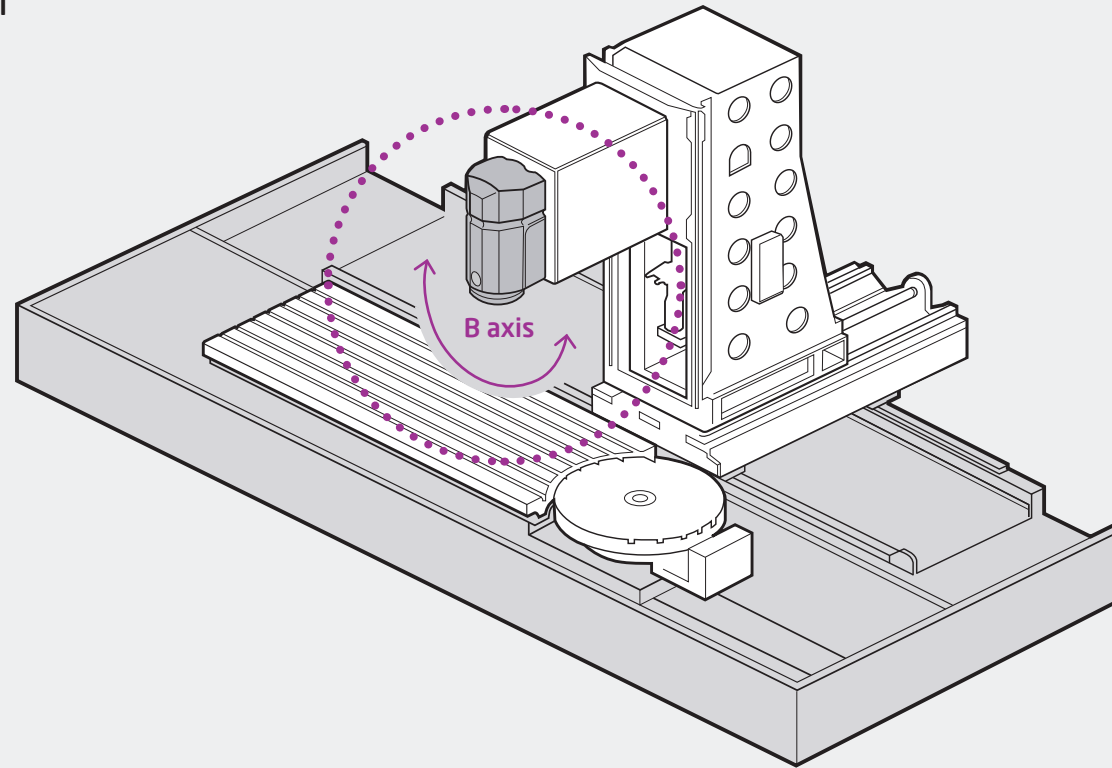
ZVH 45_6 axis machine.
Add B axis tilting head,
A-C axis bolt-on rotary table
and C integrated rotary table.

6_X / Y / Z / B / A / C

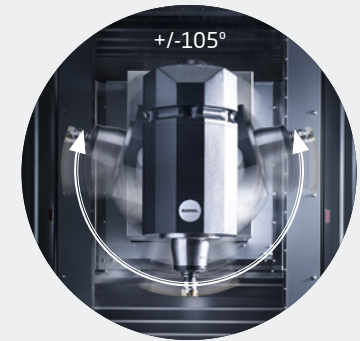


B AXIS HEADSTOCK

Head tilting range $\pm 105^\circ$.
Transmission by a torque motor
installed on the rotating shaft
and direct measuring
on the axis.



ZVH SPINDLE HEAD
B axis 4 movement.
Continuous tilting head / Torque motor. $\pm 105^\circ$



STAR EDITION B AXIS HEADSTOCK

IBARMIA.

B AXIS HEADSTOCK

Superior technology

TORQUE MOTOR technology

Turning torque: S1: 628 Nm

Turning torque peak value: 1038 Nm

Max load over the table: 1500 Kg/m²

Fast continuous and accurate movements measured by glass scale

Tilting range: +/-105°

Positioning accuracy: 8"

6000 Nm clamping force



ELECTROSPINDLE

The definite spindle

Spindle taper: ISO 40-SK 40 (Option: HSK A-63)

Power in service: S1 (100%): 30 kW

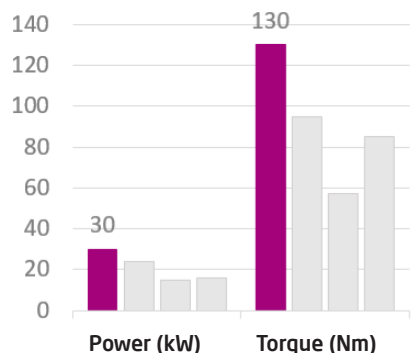
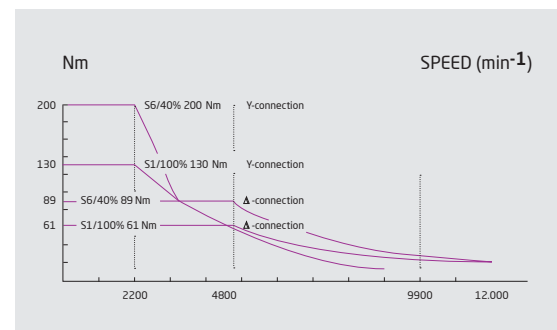
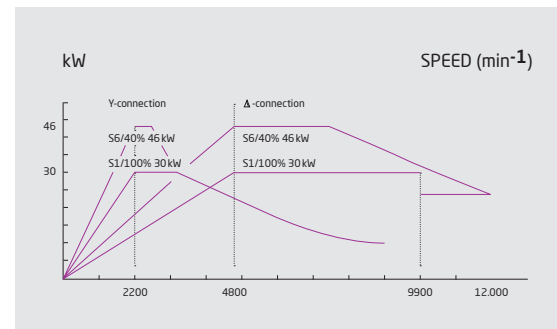
Power in service S6: (40%): 46 kW

Total available power from: 2000 rpm

Torque in service S1: (100%): 130 Nm

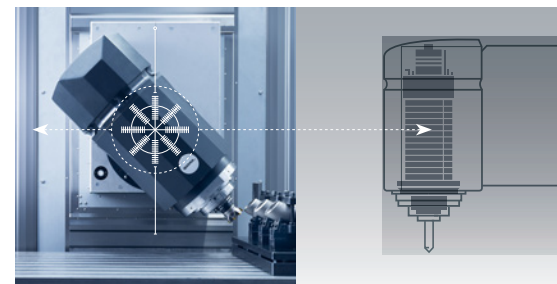
Torque in service S6: (40%): 200 Nm

Maximal rotation speed: 12.000 rpm (Option 15.000 rpm)



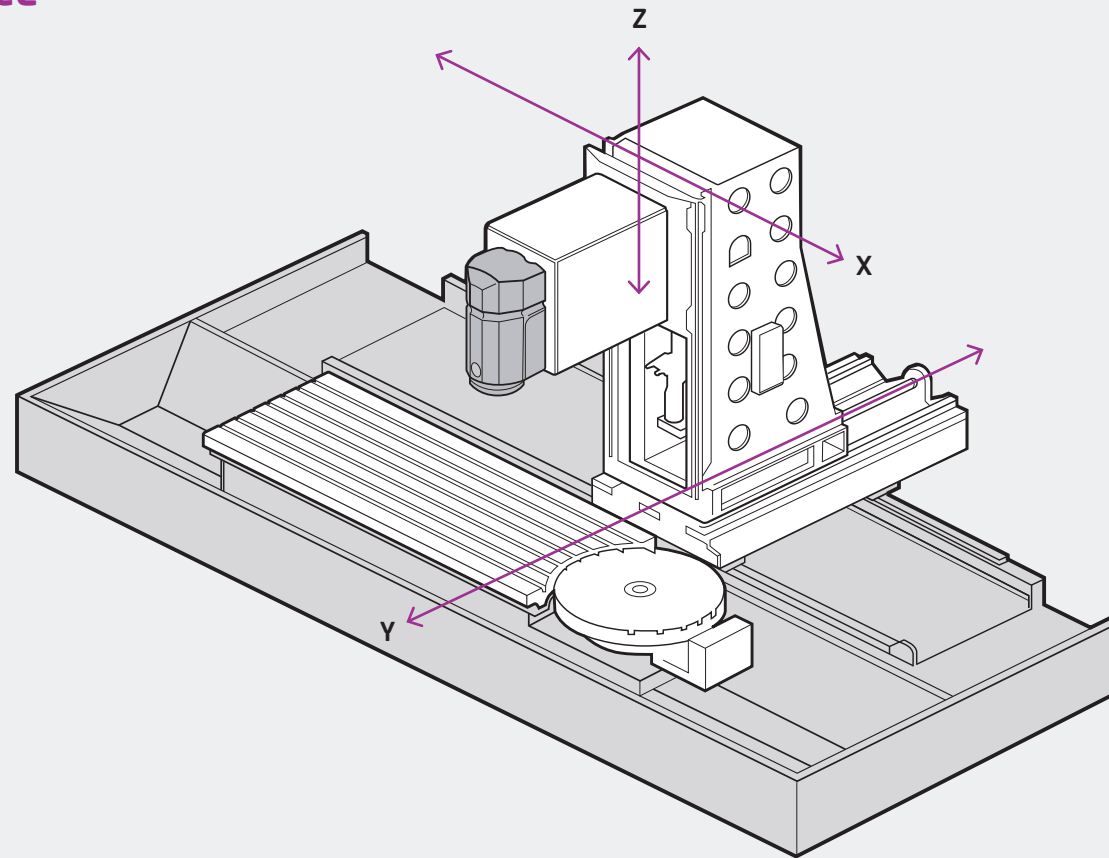
IBARMIA has the **most** powerful electrospindle

IBARMIA
OTHERS

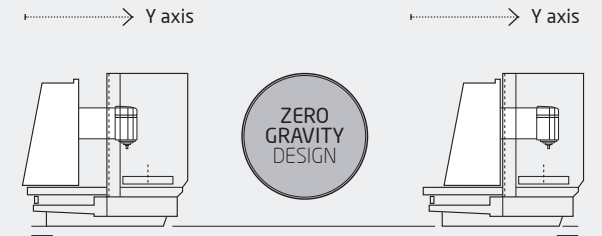


IBARMIA; A WORLD REFERENCE IN HIGH PRODUCTIVITY MOVING COLUMN MACHINING CENTERS_

Monoblock machine bed, everlasting stability in moving column architecture. High dynamic performance, lineal rapid movements at 40 m/min with high accelerations. Movements on X / Y / Z axis over linear guides with preloaded rolling shoes with two rows of circulating rollers.

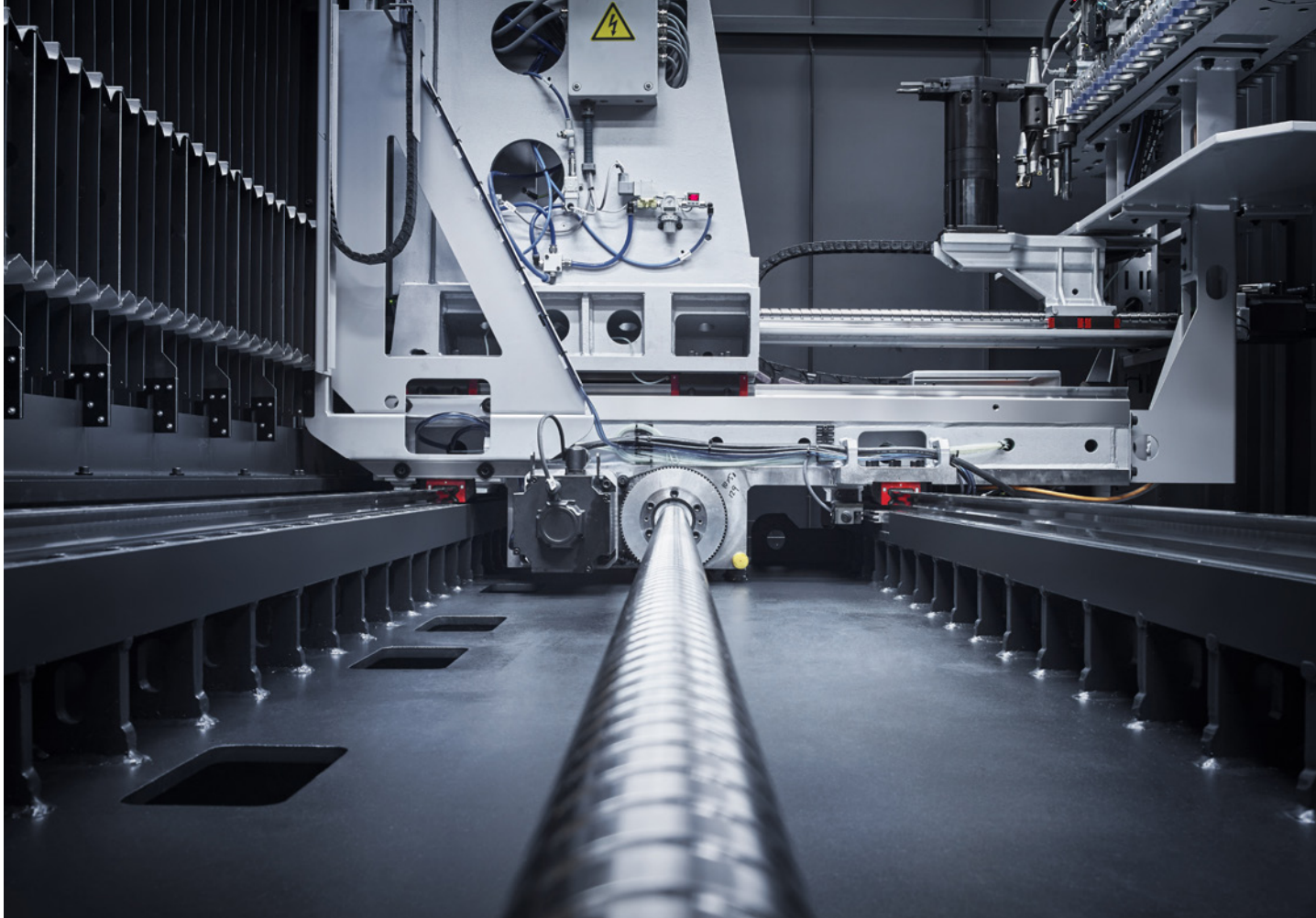


Zero Gravity Design on Y axis

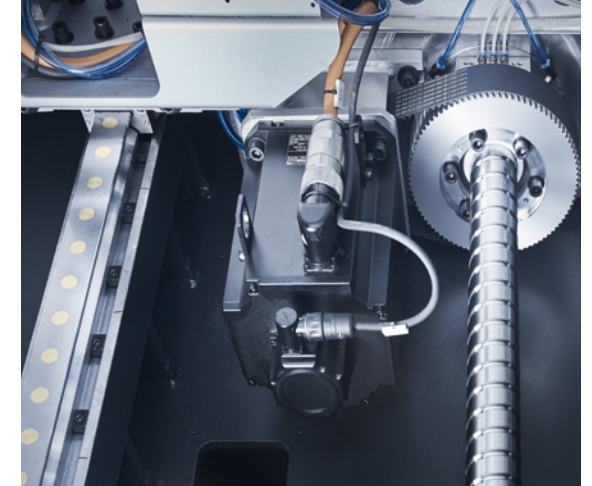


STAR EDITION MOVING COLUMN DESIGN

IBARMIA.



Guides and ballscrew
for the moving column
X axis travel.

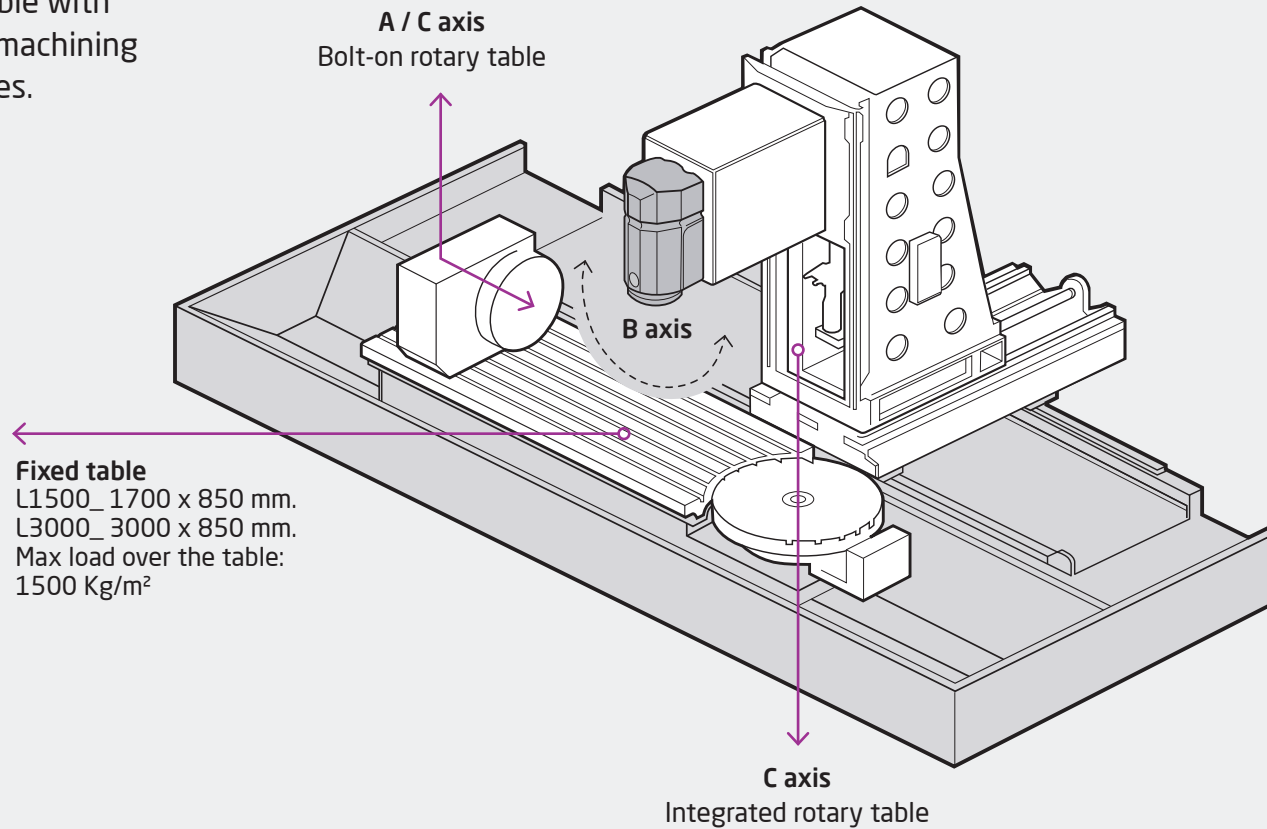


Guides for the moving
column Y axis travel.



STAR EDITION ROTARY TABLES A LA CARTE_

Combine the working fixed table with 3 options of rotary tables for machining up to 5 axes simultaneous axes.

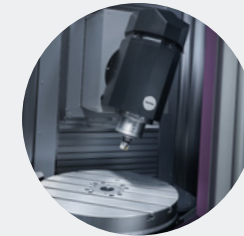


INTEGRADET ROTARY TABLE
C axis 5° movement.

Available for ZVH 45 L1500 and L3000 models.

BOLT-ON ROTARY TABLE
A-C axis. 4°-5° movement.

Available for ZV-ZVH 45 L3000 models.



STAR EDITION INTEGRATED ROTARY TABLE ZVH 45 /L1500-3000

Number of T slots: 5

Size of T slots: 1x18(H7) / 4x18(H12)

Distance between T slots: 125 mm

Max load over the table: 1500 Kg/m²

Diameter of integrated rotary table: 800 mm

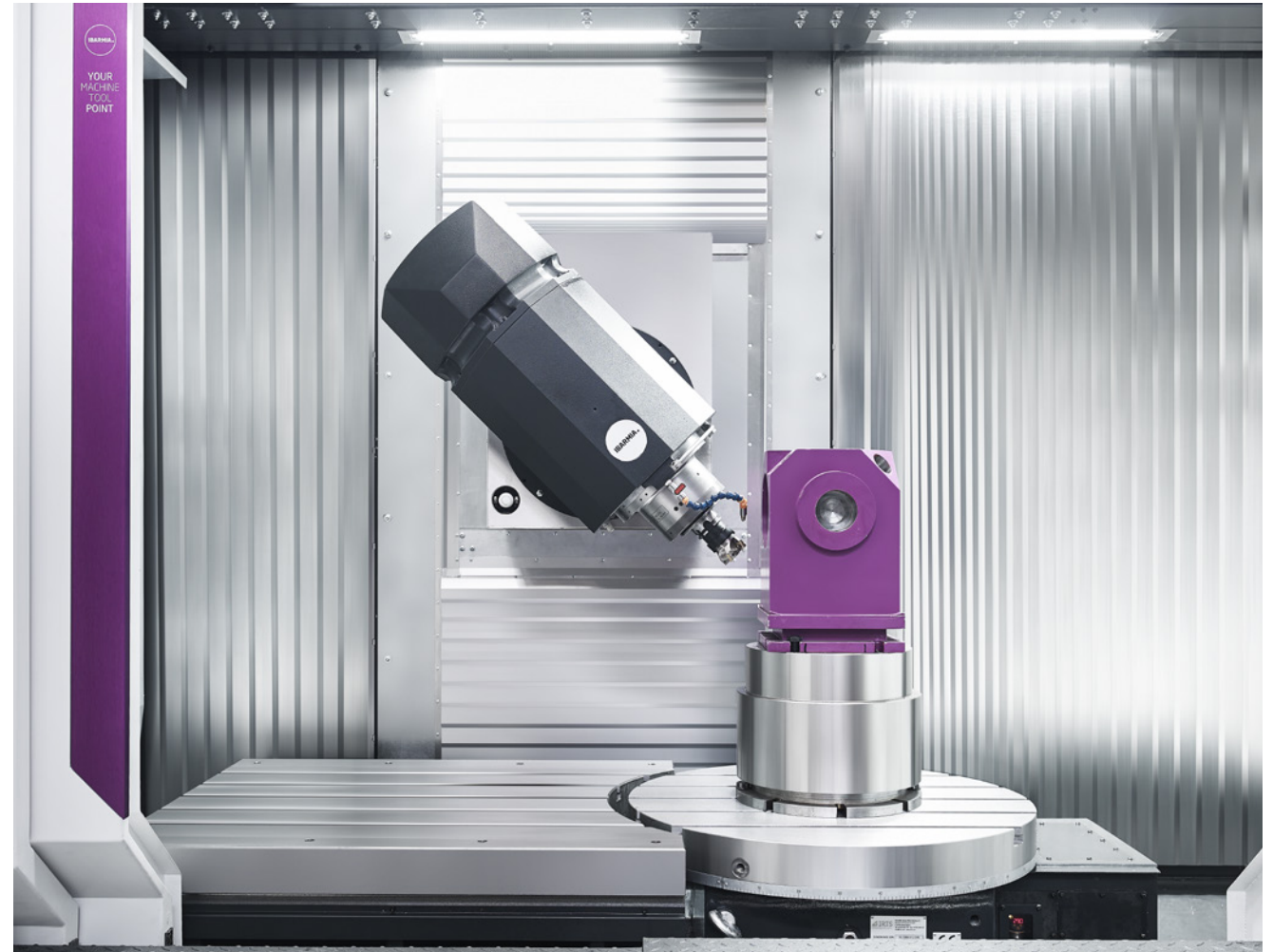
Max swing: 1100 mm

Distance from table surface to spindle nose:

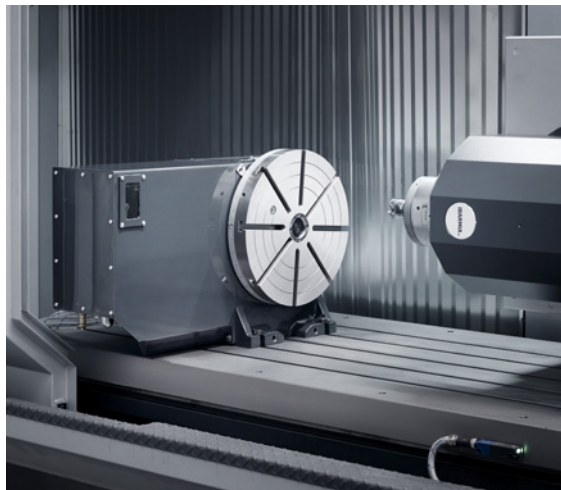
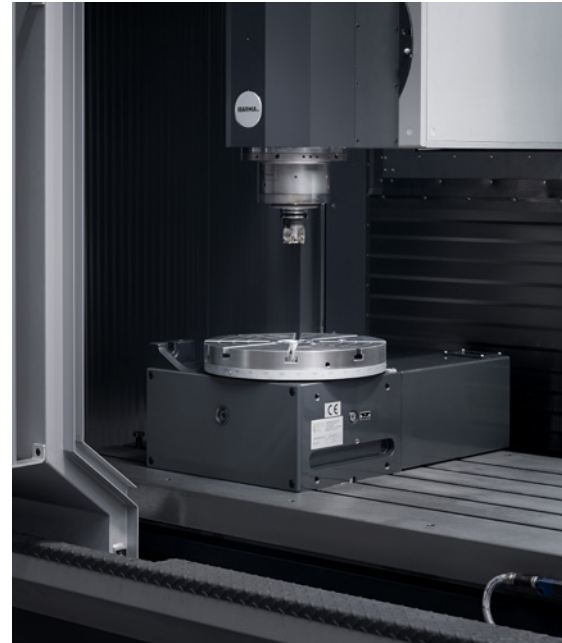
V (min./max.): 0/800 mm

H (min./max.): 360/1160 mm

Positioning accuracy: +/-4s

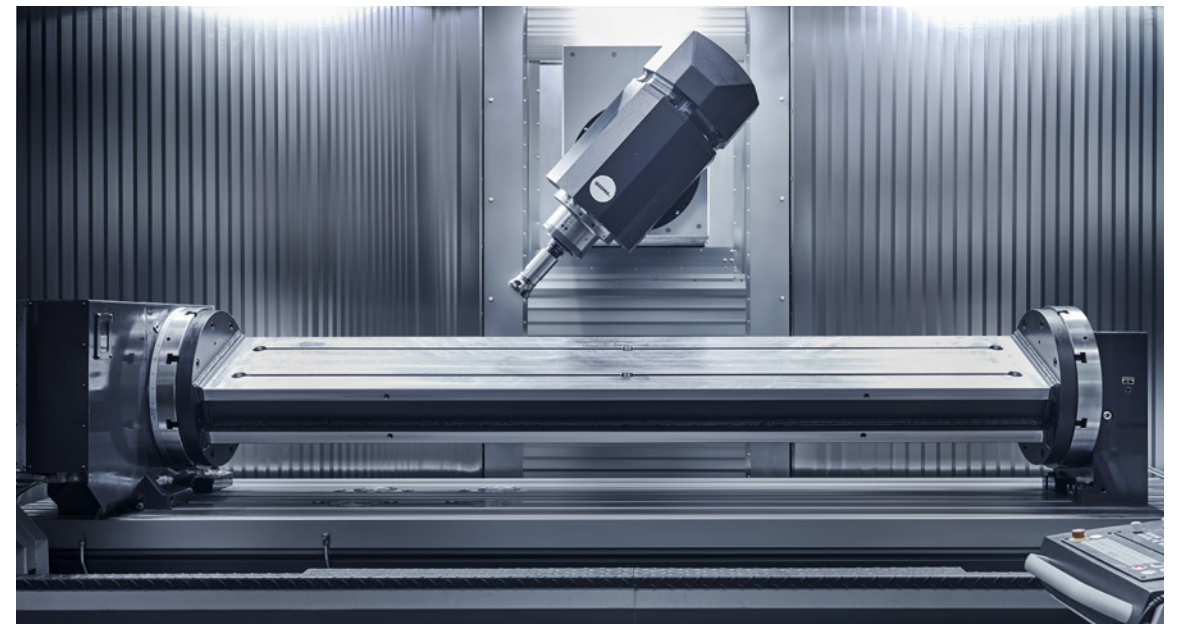


STAR EDITION BOLT-ON ROTARY TABLE ZV-ZVH 45 /L3000

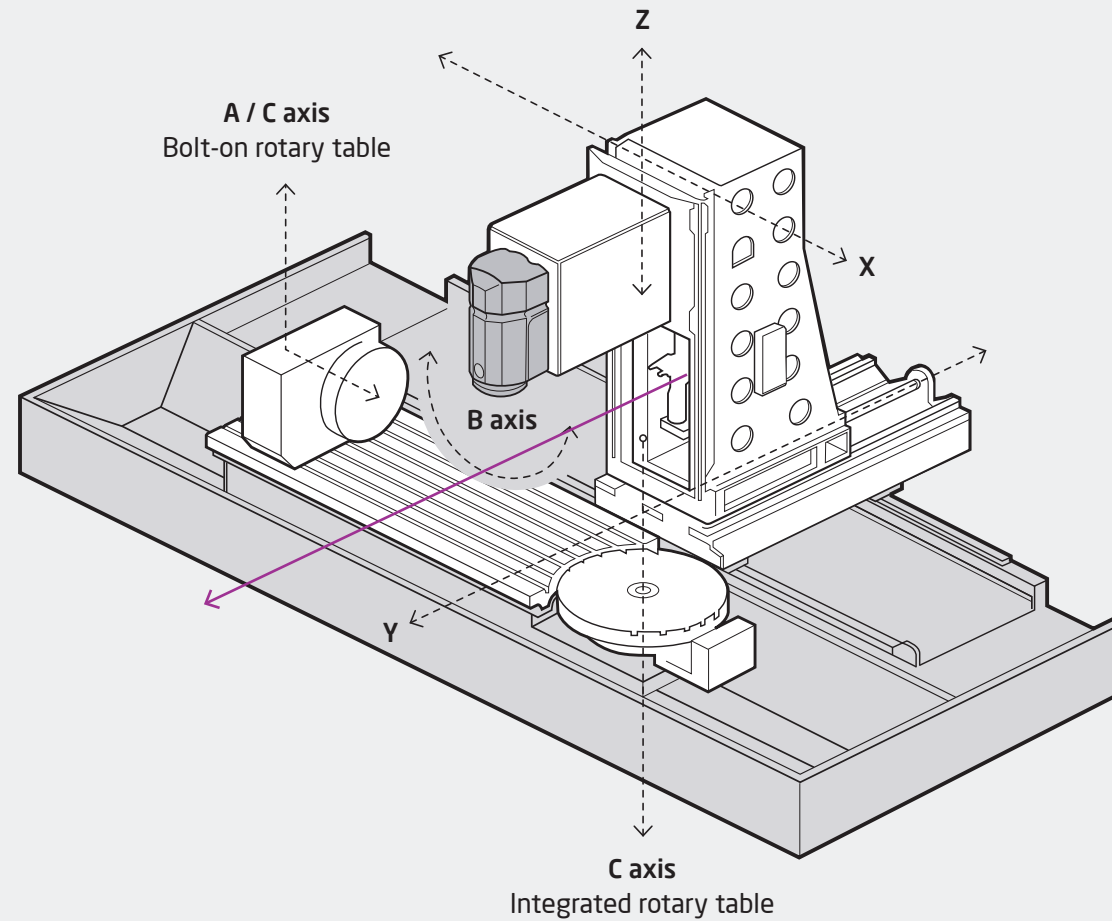


Bolt-on rotary table to be used either in horizontal or vertical axis.

Bolt-on rotary tables as horizontal axis for trunnion fixtures.



OTHER COMPONENTS



STAR 3000 TOOL MAGAZINE & ATC

Separated from column to avoid vibration interference, the tool magazine travels with the carriage that makes the longitudinal movement, allowing the tool change at any position on the X axis. The tools are protected, away from the working area so you can change tools without interferences.

Number of positions: 40 Positions (Option. 60)

Maximum tool diameter:

Previous & Posterior taken position: 90 mm

Previous & Posterior free position: 150 mm

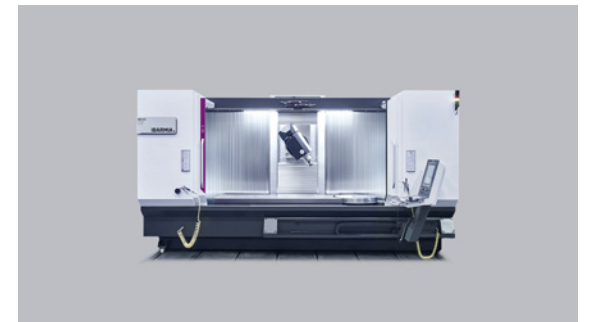
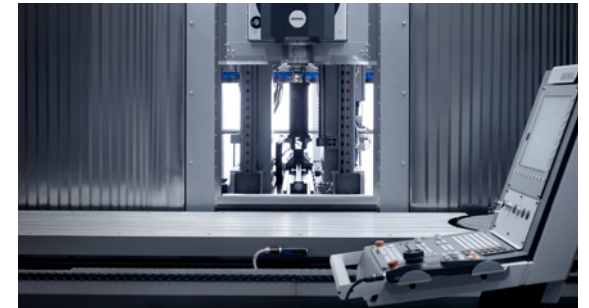
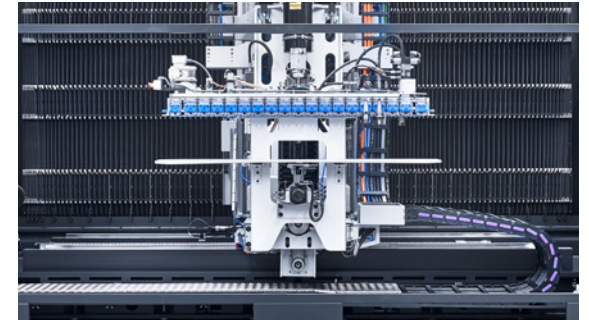
Maximum tool length: 350 mm

Maximum tool weight: 8 kg

Tool changing time: 8"

Chip to chip time: 10"

Tool management system: Random



STAR 1500 TOOL MAGAZINE & ATC

The STAR 1500 machine design has been optimized to house an optimal number of tools in a reduced space. Located in the right side of the machine, the disk type tool magazine with automatic tool changer is separated from the working area, away from chips and coolant so you can change tools without interferences.

Number of positions: 60

Maximum tool diameter:

Previous & Posterior taken position: 75 mm

Previous & Posterior free position: 127 mm

Maximum tool length: 300 mm

Maximum tool weight: 7 kg

Tool changing time: 8"

Chip to chip time: 10"

BIG PLUS tapers without any restriction



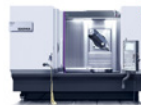
STAR EDITION EQUIPED WITH THE LATEST CNC SYSTEM

A workshop orientated control, especially suited for high speed milling and five axis machining. An optimized user interface to make your job even easier.

**HEIDENHAIN
FANUC**



ZVH 45/L1500 STAR



Heidenhain TNC 640 HSCI (Option: Fanuc 31iB)

Control screen: Touch screen 19"

Control panel: Vertical fixed panel

Electronic handwheel



ZVH 45/L3000 STAR



Heidenhain TNC 640 HSCI (Option: Fanuc 31iB)

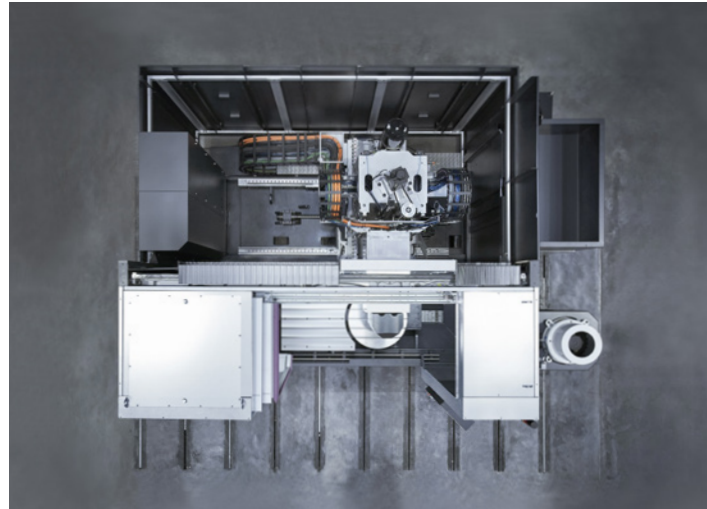
Control screen: Touch screen 19"

Control panel: Moving panel

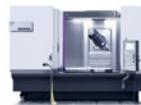
Electronic handwheel

STAR EDITION OPTIMAL FLOOR SPACE OCCUPATION

An efficient design for a machine with this working area. Chip evacuation, tool magazine and the electric cabinet are designed to take the minimum space on your floor.

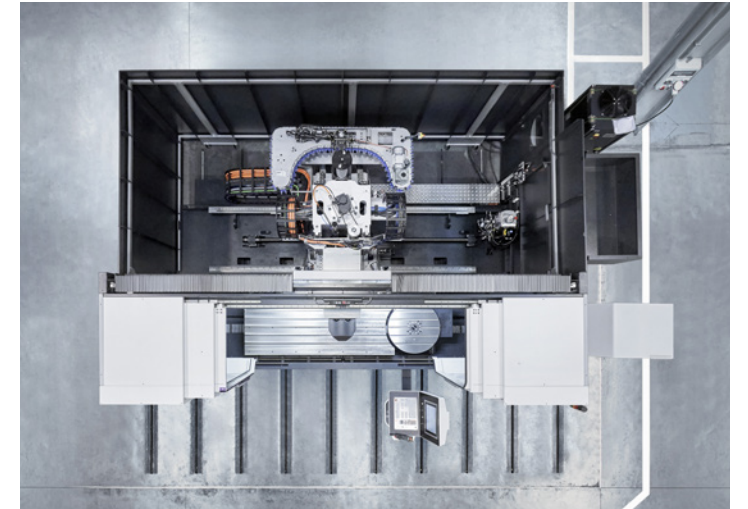
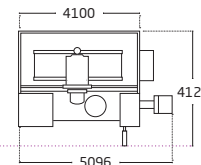


ZVH 45/L1500 STAR

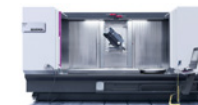


Floor plant

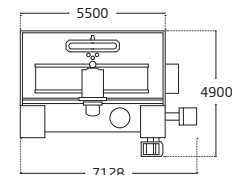
STAR 1500, 790 mm less



ZVH 45/L3000 STAR

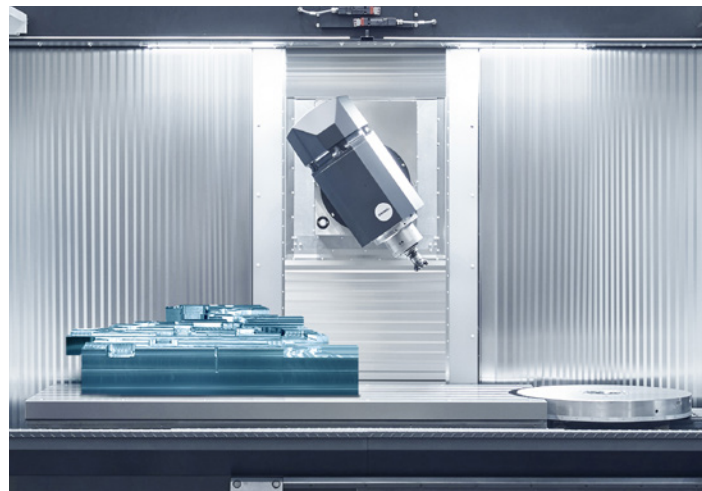
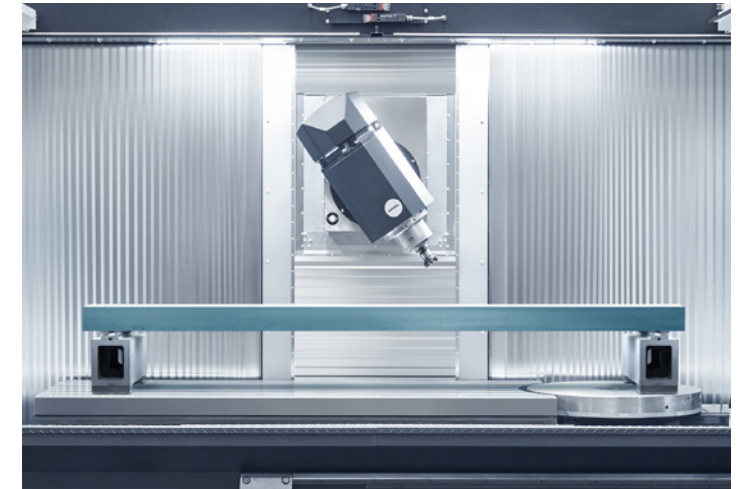
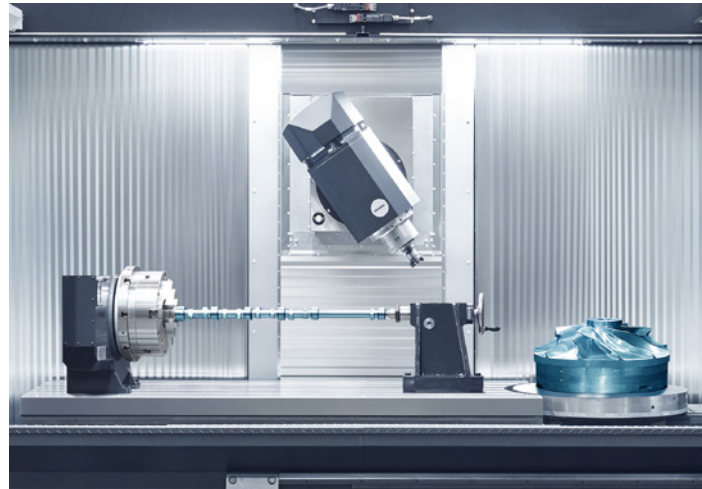
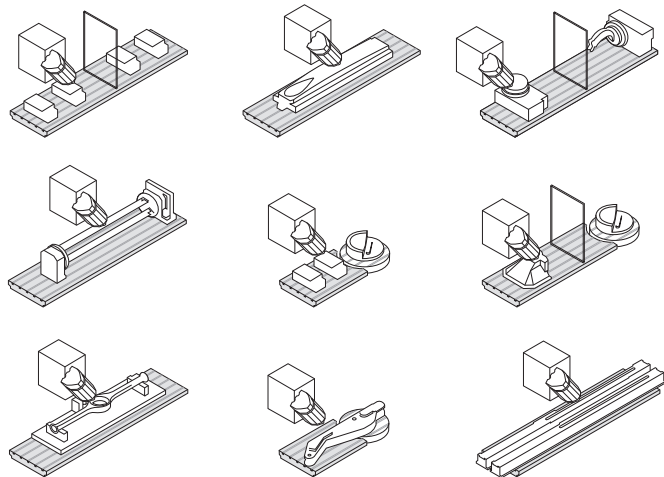


Floor plant



STAR 1500 / 3000 ONE STAR FOR ALL YOUR MACHINE REQUIREMENTS

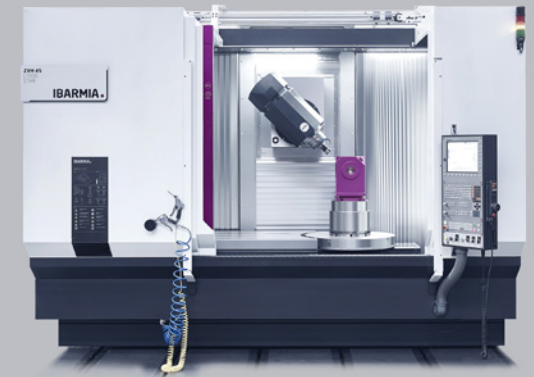
Capacity to machine a wide range of size and shapes in various materials. The high configurability and the combination of axes and rotary tables provide an unlimited field of work which ensures an efficient return of the investment.



STAR EDITION

IBARMIA.

A PREMIUM MACHINE WITH THE PRICE AND AVAILABILITY OF A STANDARD MACHINE



YOUR MACHINE TOOL POINT



www.ibarmia.com