

correa

# NORMA L

Travelling column milling machine

WARRANTY

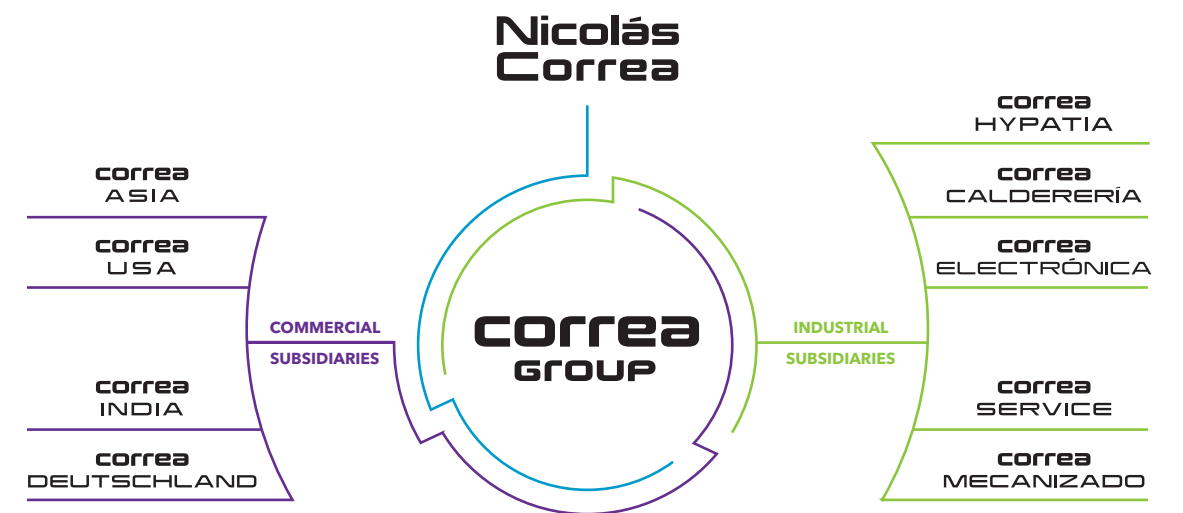




**75** YEARS ANNIVERSARY  
1947 - 2022

**Nicolás Correa**, founded in Spain in 1947, is one of world's leading companies in the manufacturing of large milling machines. With over 900 bridge type machines, 1000 floor type machines and 3500 bed type machines installed all over the world, offers milling solutions designed for the most demanding production environments, such as the power generation, automotive, aerospace and railway industries. **Nicolás Correa** is the mother company of the **Correa Group** which is made up of more than 450 employees. Belonging to the group provides **Nicolás Correa** with access to top quality critical supplies and offers tailored solutions specially designed for each customer's needs.

Thousands of customers around the world place their trust in **correa** range of milling machines. **Correa Group** currently exports around 90% of its production to over 30 different countries. To guarantee a high-quality service to our customers, we have an extensive international commercial and technical service network in most of the world's countries. **Correa Group** offers the widest range of milling solutions on the market, including bed type machines, gantry, floor type machines, bridge type machines, it also has a several options of multi-tasking machines. The entire range is designed and manufactured in Spain. **Nicolás Correa, S.A.** has been listed on the Madrid Stock Exchange since 1989.



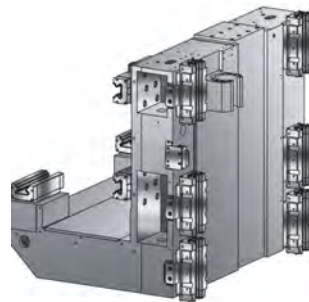
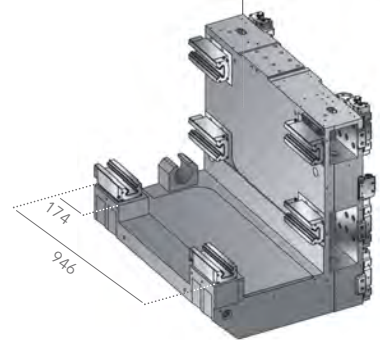


The **NORMA L** represents a new concept in mobile column machine with lateral ram. Very sturdy thanks to the L-shaped ram guide and triple X-axis guide. Precision thanks to the mechanical ram droop correction system. A flexible machine suitable for machining and finishing operations.



L GUIDE-WAY SYSTEM CONFIGURATION

- L-shaped guide system:
  - Greater rigidity and stability during machining.
  - Greater geometrical precision.
  - Less ram droop effect.
- 6 vertical movement sliders ensuring good machine behaviour.



MORE ABOUT THE **NORMA L**

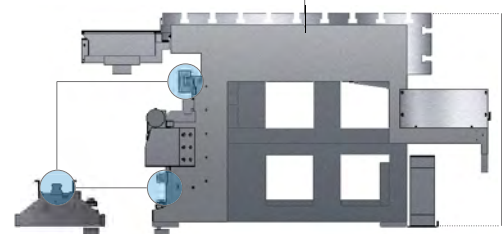
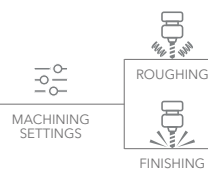


Dynamic performance parametrizable in accordance with:

- ROUGHING OPERATION
- FINISHING OPERATION



MACHINE DYNAMIC ADJUSTMENT

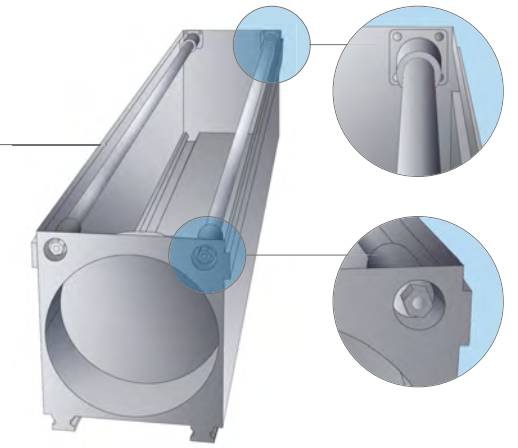


3 moving X-axis guides to ensure stability and good geometrical precision.



MECHANICAL COMPENSATION SYSTEM

Traction bars to eliminate the angular error of the ram droop effect.



The largest cross-sections on the market.

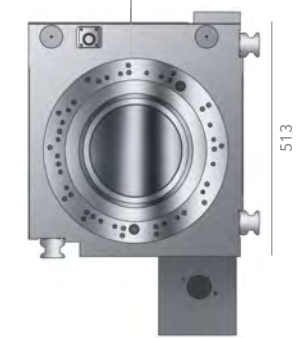
High machining capacity + geometrical stability over time.



OVERSIZED STRUCTURAL ELEMENTS



HIGH GEOMETRICAL PRECISION



30 m/min in X, Y and Z axes, thanks to its V-Shaped linear guide-ways in all axes.



HIGH FEED RATES



ECO DESIGN

Stand-by function and Auto Switch off function, saving 20% of the total energy machine consumption.

## Technical Features

NORMAL 45

NORMAL 60

NORMAL 80

### TABLE

Table width	4300 - 5800 - 7300 - 8800 - 10300 / 1250 - 1500 - 1750	mm
Maximum load on the table	6	t/m <sup>2</sup>

### INTEGRATED ROTARY TABLE [OPTIONAL]

Diameter	MILLING: 1000 / 1250 / 1500	TURNING: 1000 / 1250 / 1500	mm
Maximum load	MILLING: 4000 / 4000 / 6500	TURNING: 1000 / 1000 / 2500 (300 rpm) 2000 / 2000 / 4000 (100 rpm)	kg

### TRAVERSES

Longitudinal [X]	4000 / 5500 / 7000 / 8500 / 10000	mm
Cross [Y]	1250 / 1500	mm
Vertical [Z]	1500 / 2000	mm

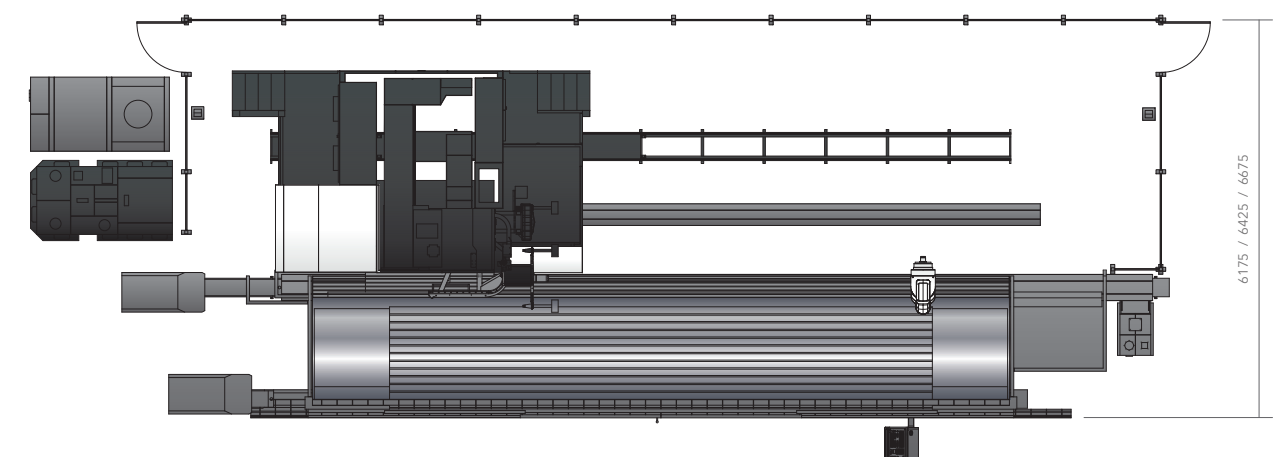
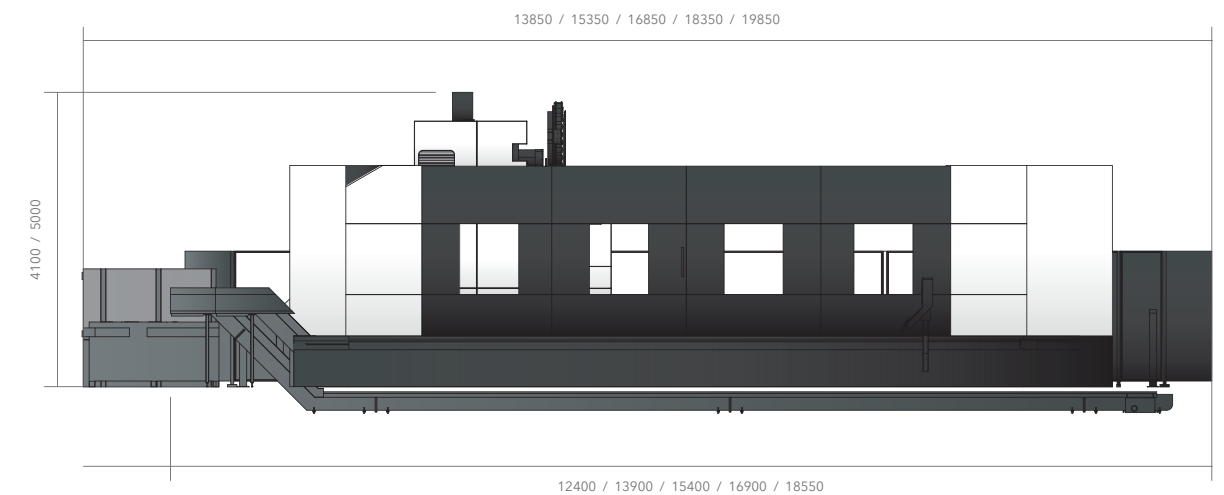
### FEEDS

Maximum [X]	30	m/min
Maximum [Y]	30	m/min
Maximum [Z]	30	m/min

### SPINDLE SPECIFICATIONS

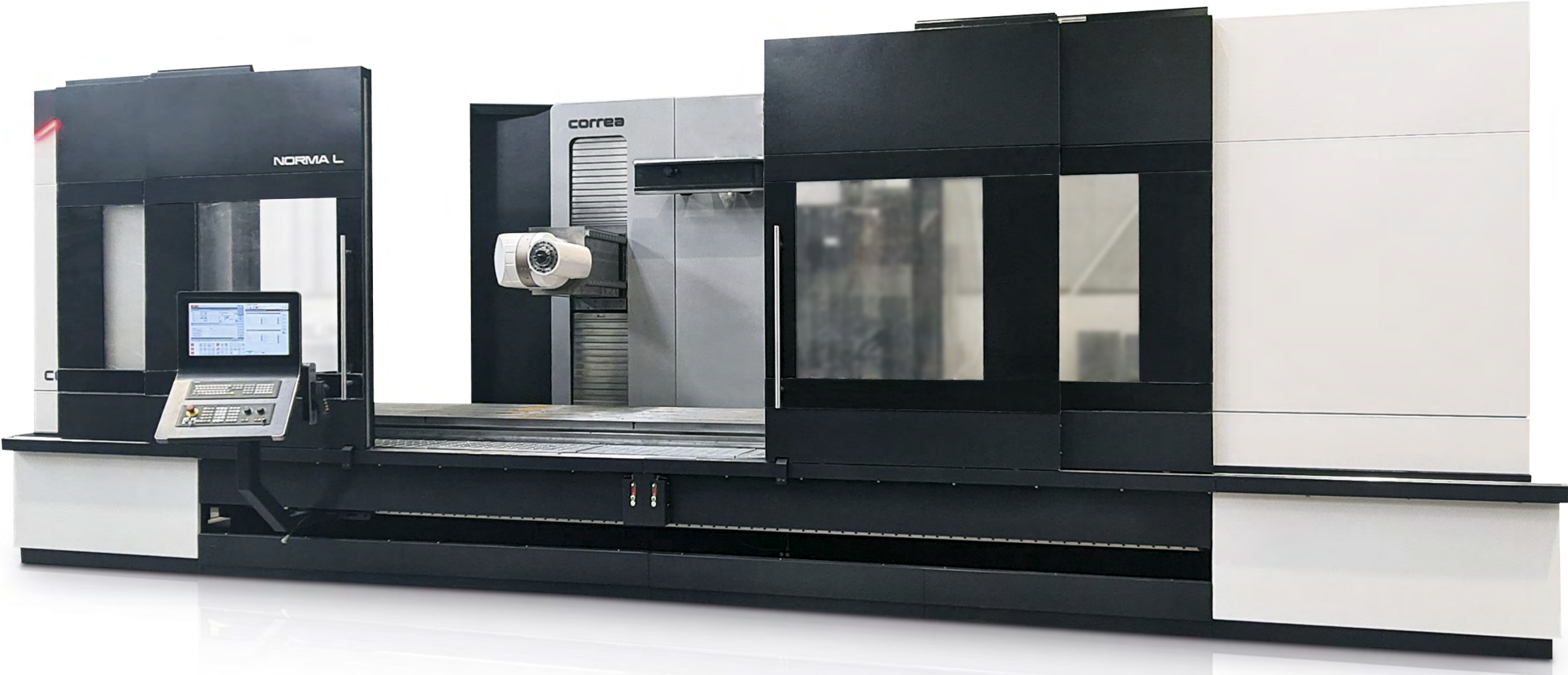
Spindle nose	ISO-50 Big Plus / HSK-100	
Programmable speed	4000 / 6000 / 10000	rpm
Maximum power	24 / 33 / 30	kW
Maximum torque	840 / 990 / 620	Nm

## External Dimensions



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## Milling Heads

### UAD UAD T 0.02° x 0.02°

3+2 INDEXING TECHNOLOGY



Universal auto-indexing  
differential head  
24 kW | 840 Nm | 6000 rpm  
33 kW | 990 Nm | 6000 rpm

### OAD 0.02° x 0.02°

3+2 INDEXING TECHNOLOGY



Orthogonal auto-indexing  
differential head  
24 kW | 840 Nm | 6000 rpm  
33 kW | 990 Nm | 6000 rpm

## Milling Heads

### UDX 0.02° x 0.02°

3+2 INDEXING TECHNOLOGY



Universal auto-indexing head  
30 kW | 620 Nm | 10000 rpm

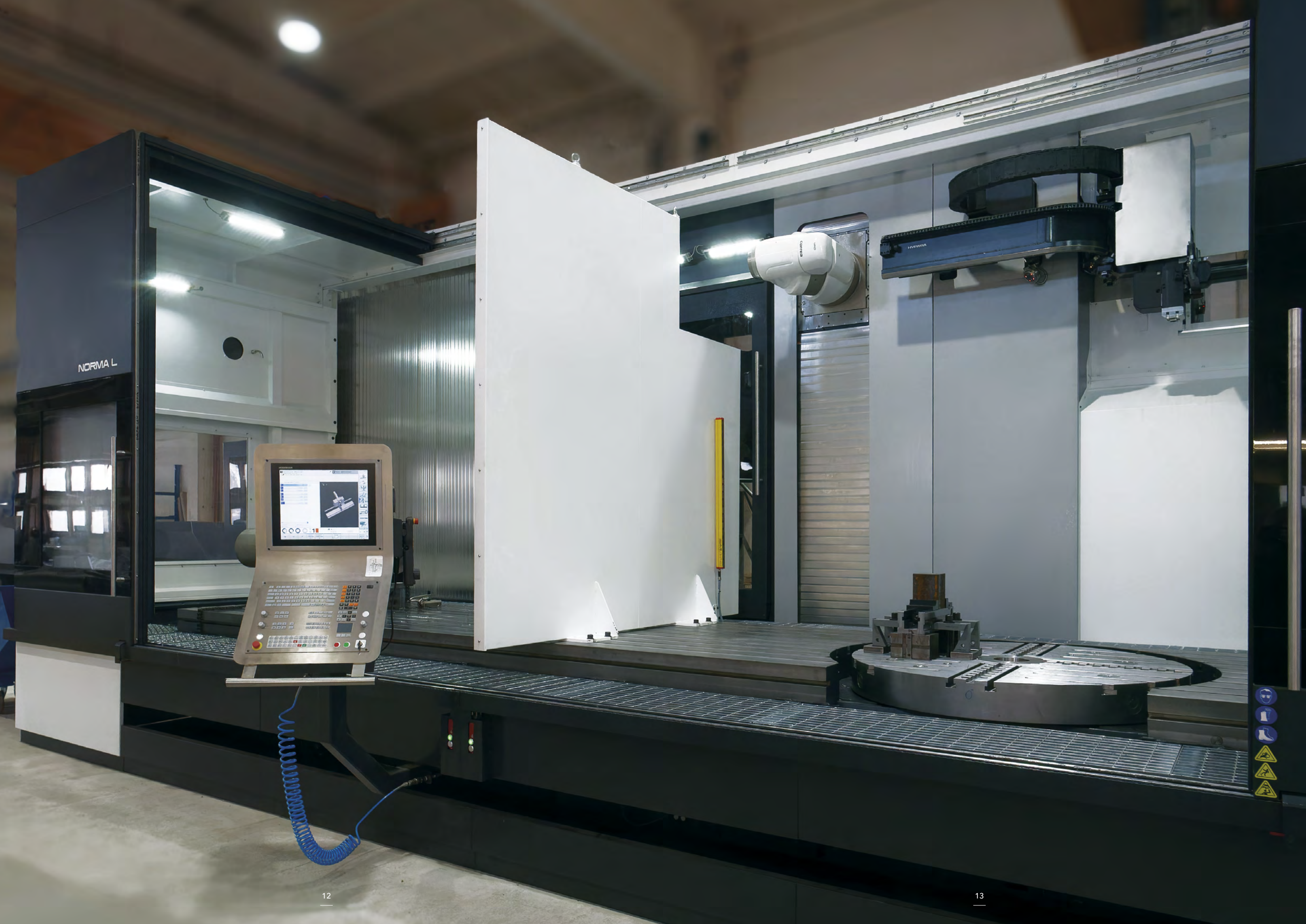
### UDG 2.5° x 2.5°

3+2 INDEXING TECHNOLOGY



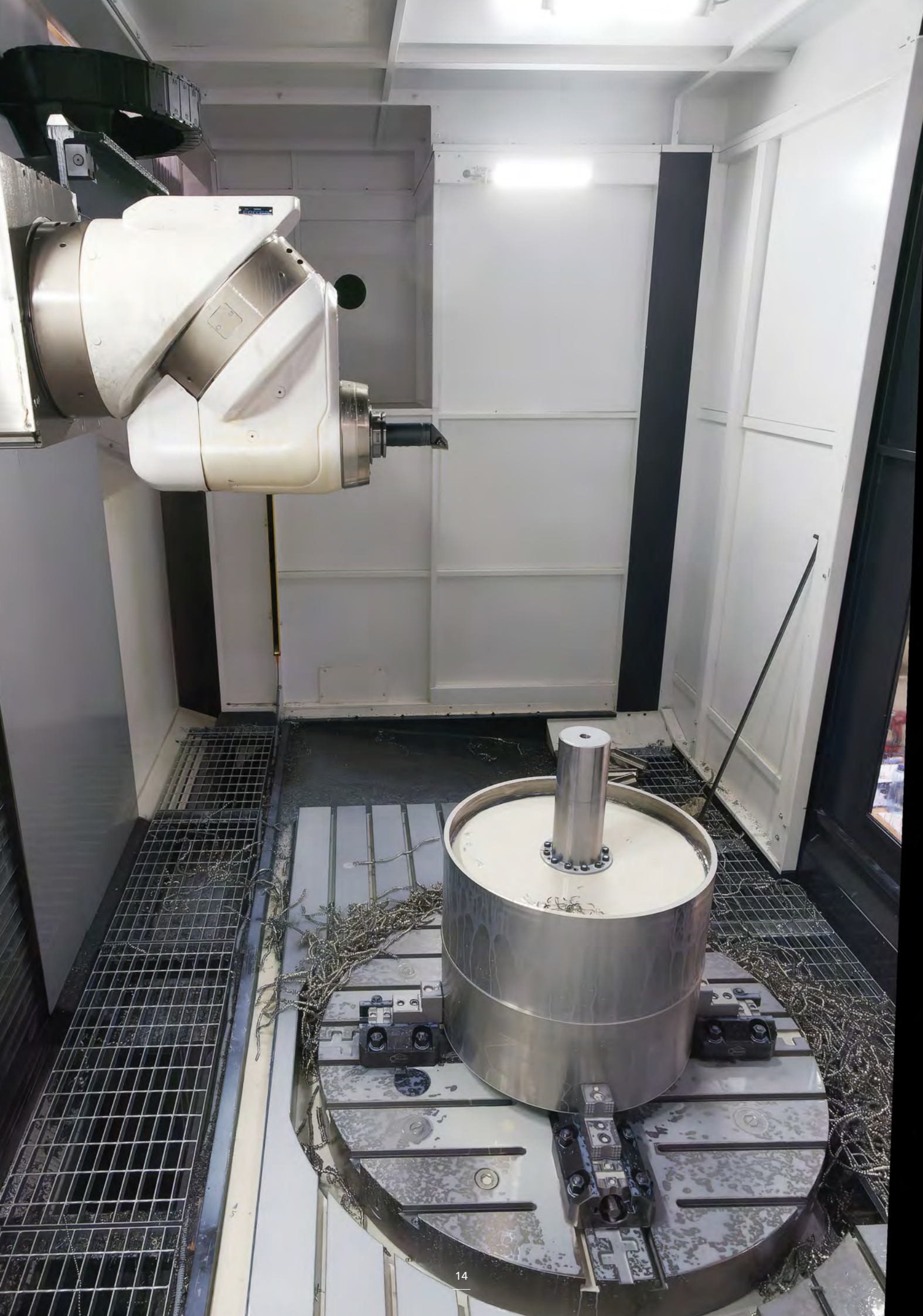
Universal  
automatic head  
24 kW | 840 Nm | 4000 rpm  
33 kW | 990 Nm | 4000 rpm





NORMA L





## Standard Equipment

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- Automatic Universal Head • Gearbox
- Numerical control Heidenhain TNC 640 • Hydraulic group
- Portable handwheel • Linear scales in all axes
- Air-conditioned electrical cabinet • External Coolant with adjustable nozzles
- Linear guides in the X, Y and Z axes • Perimeter fence
- Lamp in the working area • Direct Tele-service

## Optional Equipment

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- Other heads • Vixion 4.0
- Pick up station for 8 tools • Air or oil cleaning gun with motor pump
- Automatic charger for 30, 40 and 60 tools • Coolant through spindle to high and medium pressure
- Probes of measurement, tools and parts • Centrifugal filter in cutting fluid tank
- Rotary tables • Chip conveyors
- Integrated rotary tables • Integral guarding
- Pendular working system • Operator cabinet



**UAD T**



The universal head **UAD T** incorporates a spindle internal brake to lock the spindle axis. This solution allows to rotate the turning tool to any position and lock the spindle accordingly. This is a mechanical transmission head providing a perfect integration between milling and turning.

**General Specifications**

**Taper:** HSK-100 for both milling and turning tools. In case of turning tools HSK-100T is required.

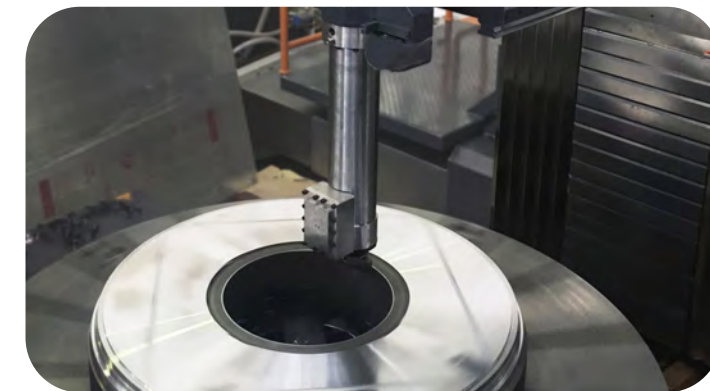
**Milling mode:** 6000 rpm and rotation every 0.02° in both bodies.

**Turning mode:** Rotation every 0.02° in both bodies.

	Material	Ø (mm)	Ap (mm)	Vc (m/min)	F (mm/min)	Q (cm³/min)
Medium Duty Roughing	Ck-45 (60 kg/mm²)	1090	4.5	210	0.5	471

**TUB**

For internal turning operations in deep parts, Nicolás Correa has specifically designed a manual extension which includes a tuned mass absorber (TMA) internally for a better cutting performance.

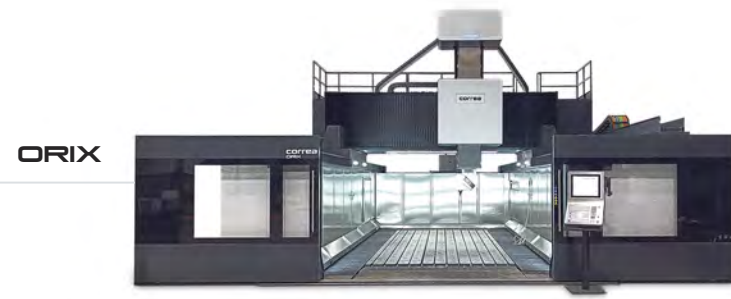


**TURNING ROTARY TABLE**

	Ø 1250 - 1500 mm	Ø 1750 mm	
Maximum load	1000 - 2000	2500 - 4000	kg
Speed	300 - 100	300 - 100	rpm



# Range of Equipment



ORIX

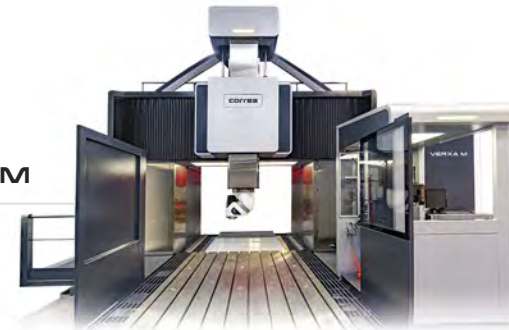


XPIDER

TOP GANTRY TYPE



FOX M | MW



VERXA M



VERXA MW

GANTRY

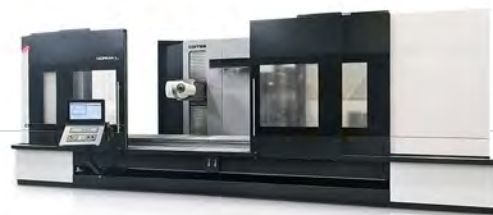


FOX | W



VERXA | W

BRIDGE TYPE



NORMA L



FENIX



AXIA

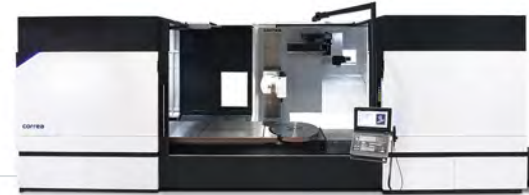


MAGNA

TRAVELLING COLUMN



XPERTA



NORMA



NORMA MG

BED TYPE



# CORREA GROUP

[www.nicolascorrea.com](http://www.nicolascorrea.com)

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