

correa

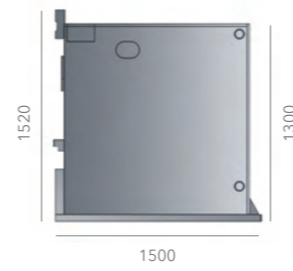
**ORIX**

Top gantry milling machine

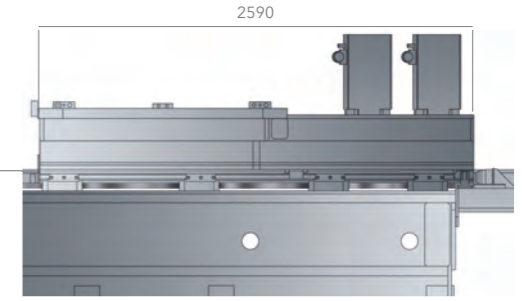
WARRANTY



The **ORIX** is a "Top Gantry" milling machine designed specifically for super-finishes of surfaces while maintaining good dynamics and geometric precision at the tip of the tool.

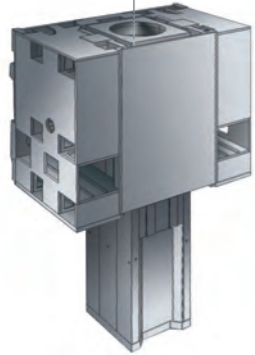


Motor weights evenly distributed over the carriage with regard to beam weight



THERMO SYMMETRICAL DESIGN

- Symmetrically guided ram.
- Ram symmetrically centred on frame.
- Better geometrical behaviour under temperature changes in the workshop.
- Specific temperature compensation cycle in machine volume.



Long lengthwise carriage that guarantees optimal bench support via 8 extra-long skids.

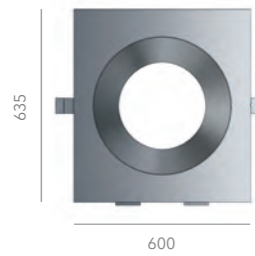


OVERSIZED STRUCTURAL ELEMENTS



HIGH GEOMETRICAL PRECISION

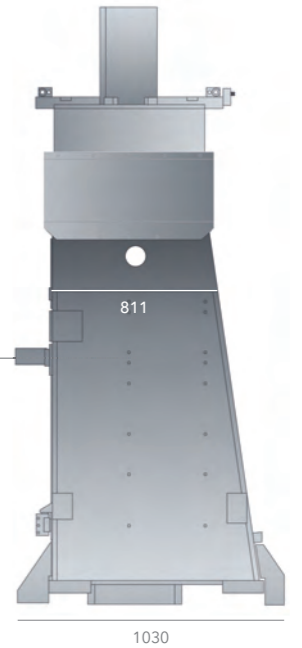
Wide cross sections.  
High-speed finishing capacity.  
Geometric stability in time.



MORE ABOUT THE ORIX



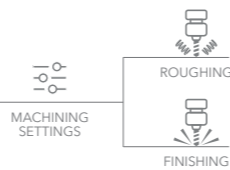
Mixed structure of "HDC" concrete and steel. The "HDC" concrete is a material of high density mixed with micro-fibres developed by Nicolás Correa.



- Specific electrospindle designed to obtain finishes at high rpms.
- Machine designed to obtain superb quality surface finishes.
- Dynamic performance parametrizable in accordance with:
  - ROUGHING OPERATION
  - FINISHING OPERATION



MACHINE DYNAMIC ADJUSTMENT



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

### TABLE

Surface	6000 - 27000 x 3000 - 4000	mm
Maximum load on the table	10 / 15	Tn/m <sup>2</sup>

### TRAVERSES

Longitudinal [X]	3500 - 24500	mm
Cross [Y]	3500   4500	mm
Vertical [Z]	1500 / 2000	mm

### WORK CAPACITY

Distance between columns	4700   5700	mm
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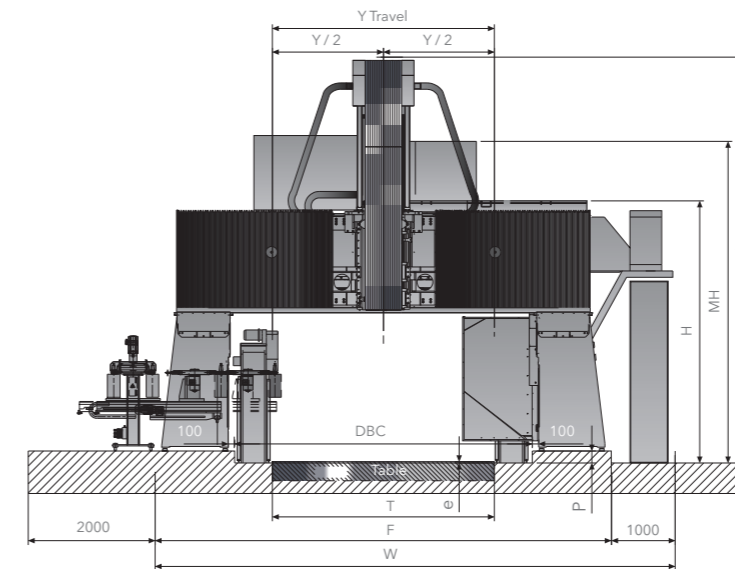
### FEEDS

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	10000 / 6000	rpm
Maximum power	30 / 52	kW
Maximum torque	620 / 1375	Nm

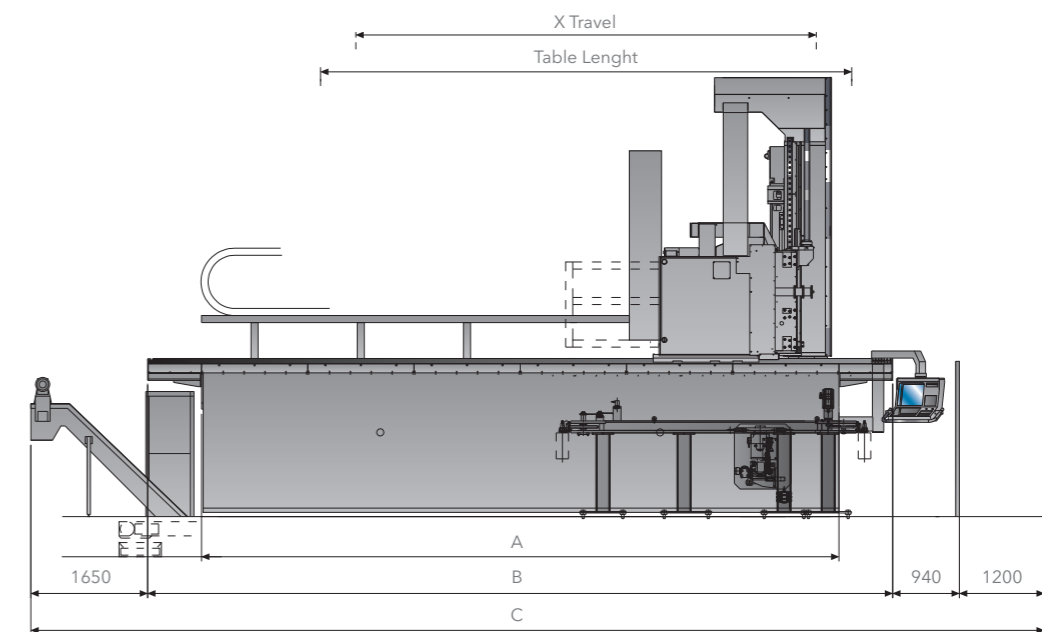
## External Dimensions



X Travel	A	B	C
3500	6000	7520	11310
5000	9000	9000	12790
6500	9000	10520	14310
8000	12000	12000	15790
9500	12000	14300	18090
11000	15000	15000	18790
12500	15000	18000	21790
15500	18000	21700	25490
18500	21000	25400	29190
21500	24000	29100	32890
24500	27000	32800	36590

Z Travel	Vert. capacity	DBT	e	P	H	MH	TMH
1500	A	2165	330	0	3850	5215	6800
	B	2595	20	120	3970	5645	6920
2000	C	2695	20	190	4040	5745	7490
	D	3095	20	620	4470	6145	7920

Y Travel	DBC	F	W	T
3500	4700	7200	8200	3500
4500	5700	8200	9200	4500





Top gantry milling machine



## Milling Head



### UAD 0.02° x 0.02°

Universal Auto-Indexing  
Differential Head  
52 kW | 1375 Nm | 6000 rpm



### OAD 0.02° x 0.02°

Orthogonal Auto-Indexing  
Differential Head  
52 kW | 1375 Nm | 6000 rpm



### FC-30 | 60 | 80

Front Spindle  
15 • 52 kW | 1375 Nm | 3000 • 4000 rpm



### CSE

2-Axis continuous Milling Head  
37 kW | 371 • 707 Nm | 4000 rpm



### UDX 0.02° x 0.02°

Universal Auto-Indexing Head  
30 kW | 620 Nm | 10000 rpm



### UCE Universal

Universal continuous Milling Head  
24000 rpm

## Milling Head



### FD-30 | 60 | 80

Non-centered front spindle  
15 • 52 kW | 1375 Nm | 3000 • 4000 rpm



### UT-500 | 630

D'Andrea Head  
52 kW | 8000 Nm | 315, 250 rpm



### AL-600 2.5°

Reach-out Angle Milling Head  
25 kW | 800 Nm | 1500 rpm



### ESE Continuous

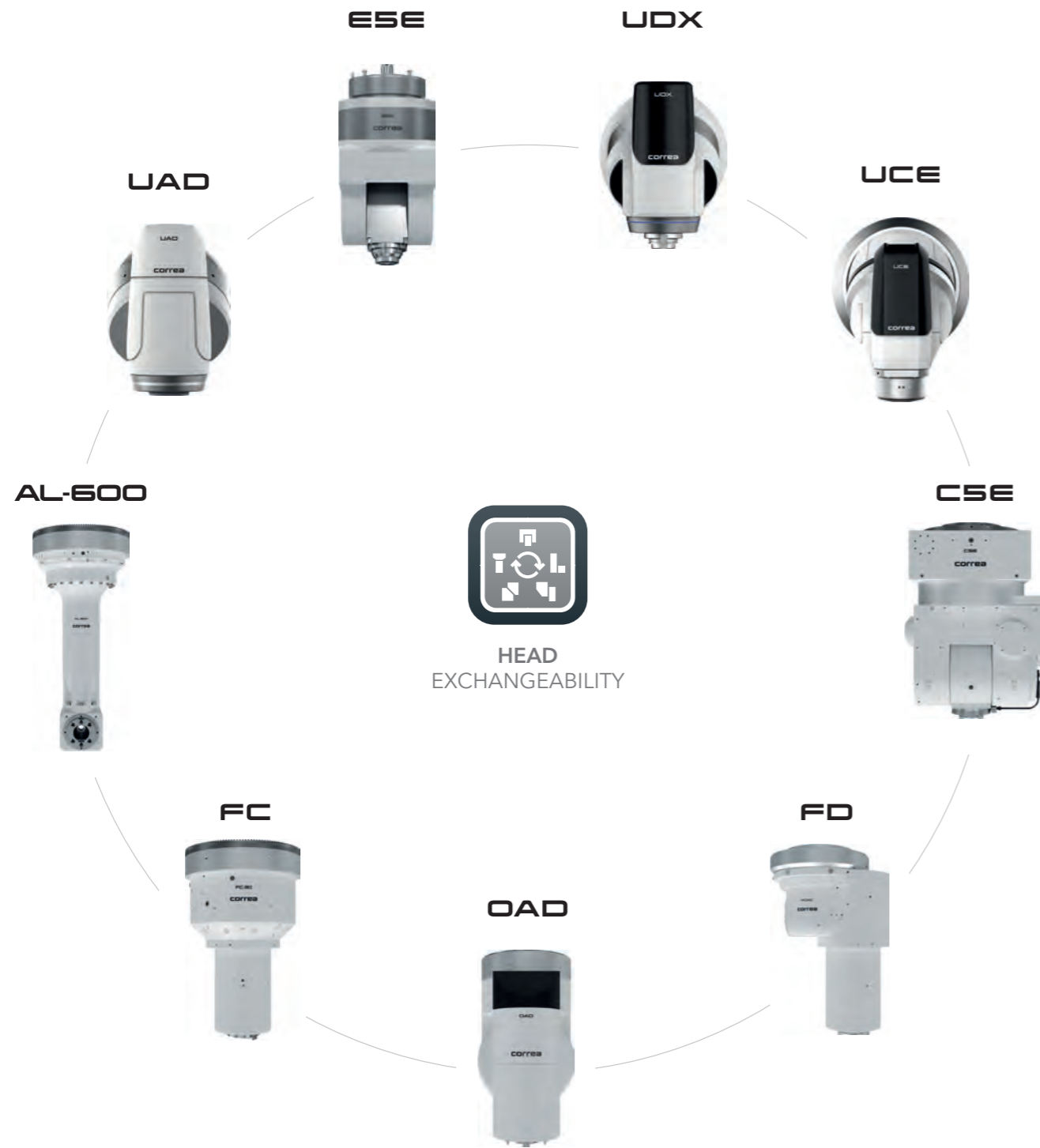
2-Axis continuous Milling Head  
35 • 60 kW | 12000 • 24000 rpm



### TU 2.5°

Turning and shaping Head

## Milling Head Changer



## Standard Equipment

- Five-axes twist drill head equipped with electrospindle • Vixion 4.0
- Numerical control Heidenhain or Siemens [operate HMI] • Hydraulic and cooling 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 • Internal and external air flow
- Lamp in the working area • Guarding
- Tele-service

## Optional Equipment

- Other heads • Self cleaning filter
- Automatic head-changer • Air/Coolant cleaning gun
- Pick up station for 6, 8, 12 tools • Chip conveyors
- Automatic charger for 30, 40, 60, 120 tools • Perimeter fence
- Probes of measurement, tools and parts • Different enclosures according to user's needs [only in some models]
- Rotary tables • Coolant through spindle 17, 36, 70 bar
- Zero Point Clamping System integrated in the machine

# correa

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

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