

correa

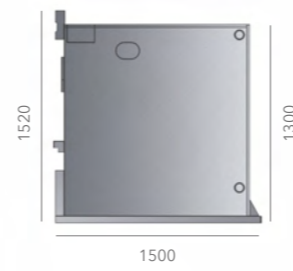
ORIX

Top gantry milling machine

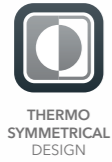
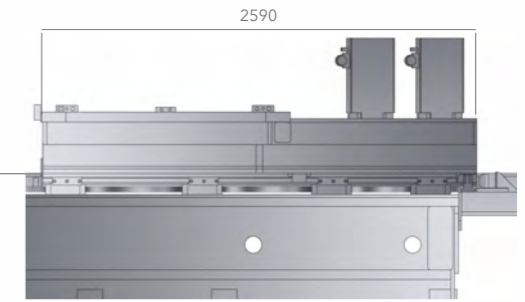
WARRANTY



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.

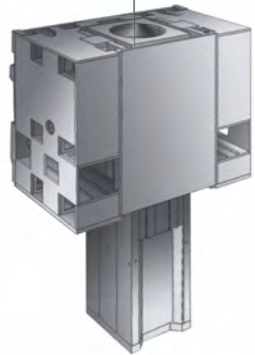


Motor weights evenly distributed over the carriage with regard to beam weight



THERMO SYMMETRICAL DESIGN

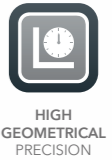
- Symmetrically guided ram.
- Ram symmetrically centred on frame.
- Better geometrical behaviour under temperature changes in the workshop.
- Specific temperature compensation cycle in machine volume.



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

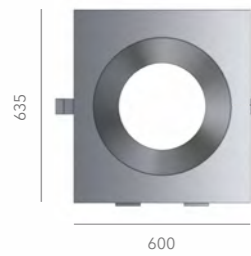


OVERSIZED STRUCTURAL ELEMENTS



HIGH GEOMETRICAL PRECISION

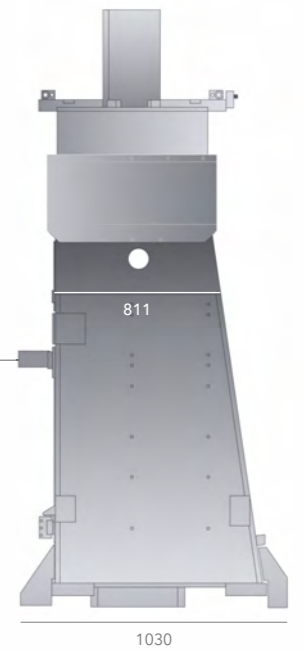
Wide cross sections.
High-speed finishing capacity.
Geometric stability in time.



MORE ABOUT THE ORIX



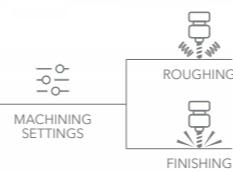
Mixed structure of "HDC" concrete and steel. The "HDC" concrete is a material of high density mixed with micro-fibres developed by Nicolás Correa.



- 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 - 5000	mm
Maximum load on the table	10 / 15	t/m ²

TRAVERSES

Longitudinal [X]	3500 / 24500	mm
Cross [Y]	3250 / 4250 / 5250	mm
Vertical [Z]	1500 / 2000	mm

WORK CAPACITY

Distance between columns	4150 / 5150 / 6150	mm
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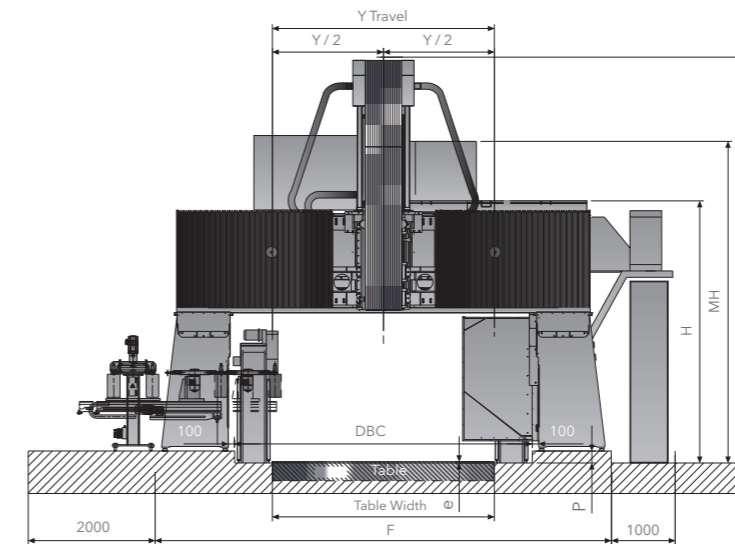
FEEDS

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	42 / 52	kW
Maximum torque	620 / 1375	Nm

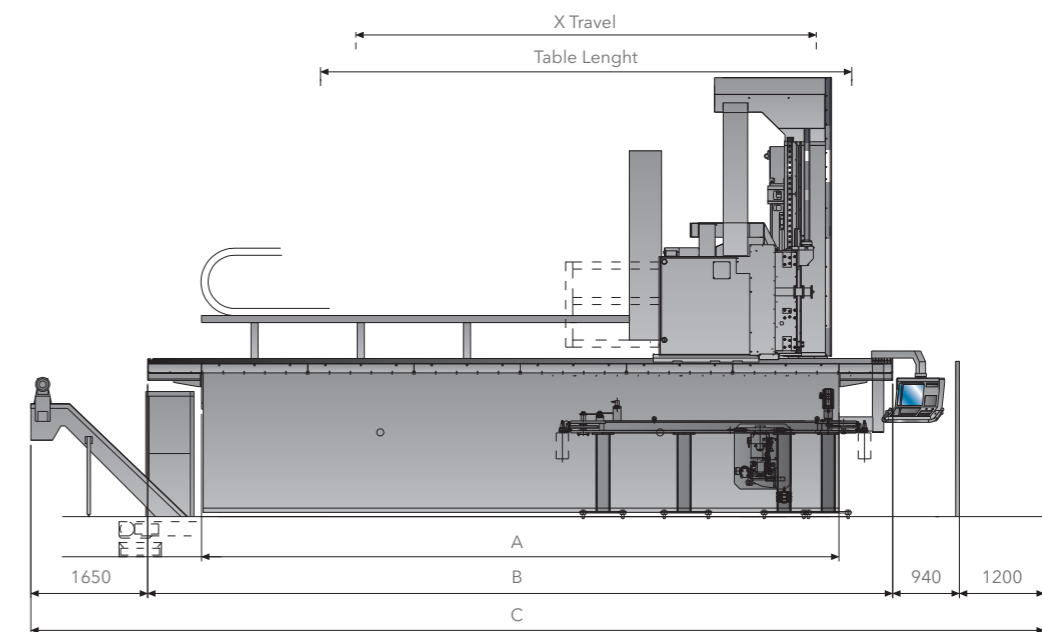
External Dimensions



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	Table Width
3250	4150	6260	3000
4250	5150	7260	4000
5250	6150	8260	5000





Top gantry milling machine



Milling Heads



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 Heads



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

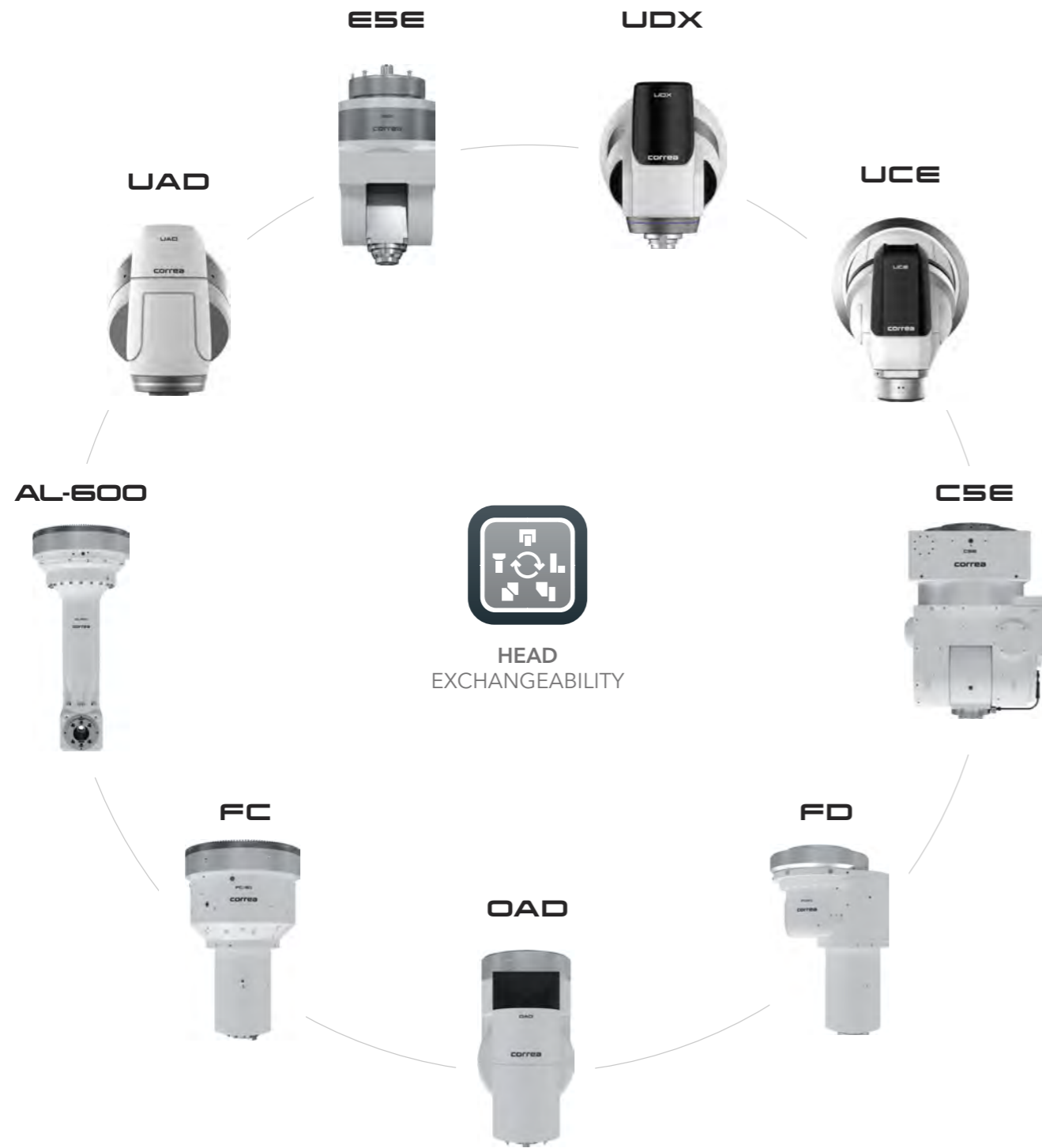
2-Axis continuous Milling Head
35 • 60 kW | 12000 • 24000 rpm



TU 2.5°

Turning and shaping Head

Milling Head Changer



Standard Equipment

- Five-axes twist drill head equipped with electrospindle • Hydraulic and cooling group
- Numerical control Heidenhain or Siemens [operate HMI] • Linear scales in all axes
- Portable handwheel • External Coolant with adjustable nozzles
- Air-conditioned electrical cabinet • Internal and external air flow
- Linear guides in the X, Y and Z axes • Guarding
- Lamp in the working area • Tele-service

Optional Equipment

- Other heads • Vixion 4.0
- Automatic head-changer • Self cleaning filter
- Pick up station for 6, 8, 12 tools • Air/Coolant cleaning gun
- Automatic charger for 30, 40, 60, 120 tools • Chip conveyors
- Probes of measurement, tools and parts • Perimeter fence
- Rotary tables • Different enclosures according to user's needs [only in some models]
- Zero Point Clamping System integrated in the machine • Coolant through spindle 17, 36, 70 bar

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