

correa

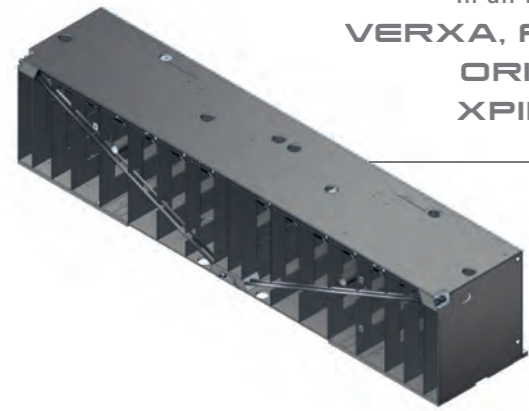
XPIDER

Top gantry milling machine

WARRANTY



The **XPIDER** represents a concept of high-speed "top gantry" machine which incorporates unique structural elements and functions. Temperature stability and high speed combined in this new generation milling machine.



In all families
**VERXA, FOX,
ORIX and
XPIDER**

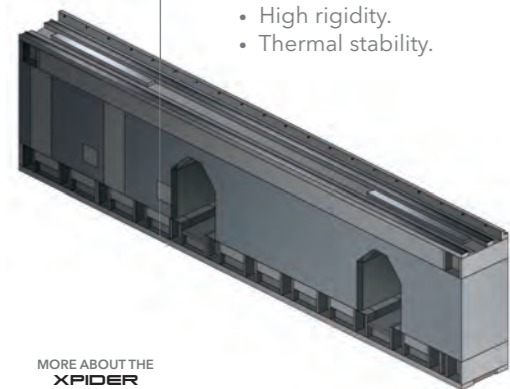
- Steel torsion bars in the crossbeam.
- Minimising the deformation due to crossbeam flexion and torsion.
- Enhancing the geometry of the machine.
- Increasing the roughing capacity.



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

What are the advantages of the "HDC"?

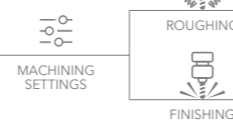
- High damping capacity.
- High rigidity.
- Thermal stability.



MORE ABOUT THE
XPIDER



- 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



Octagonal ram section

Reduced distance between the ram centre and the crossbeam centre. By decreasing the force applied during the movements of the X axis, the precision of the surface finish is improved.

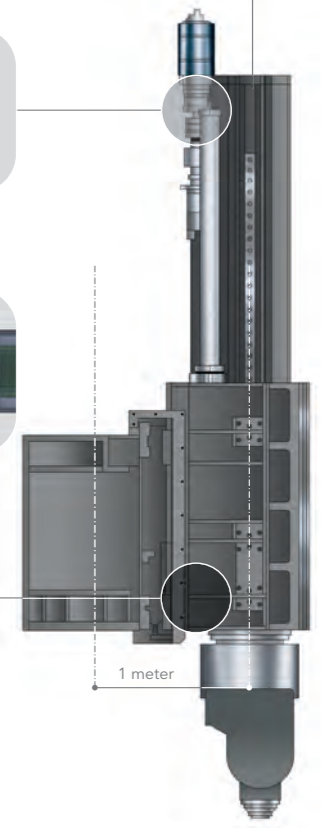
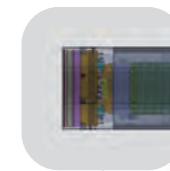
Crossbeam isolation

The crossbeam is composed by three layers of steel-insulation-steel. This system minimises the crossbeam geometrical changes due to the temperature variations in the workshop.

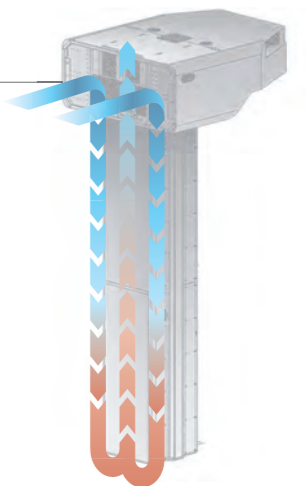
Direct transmission to the drive of the vertical axis, guaranteeing the maximum precision and rigidity.



Direct transmission of the spindle with a cylindrical water-cooled motor.



Air flow



System of air recirculation through the ram. Improving the geometrical stability faced with temperature changes in the workshop.

45 m/min in X, Y and Z axes, with optional 60 m/min in X and Y. Machine of large dimensions and high speed.



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

Technical Features

TABLE

Surface	3500 + 1500N x 1500 - 2500	mm
Maximum load on the table	15000	Kg/m ²

TRAVERSES

Longitudinal [X]	2000 / 3500 / 3500 + 1500 x N	mm
Cross [Y]	2000 3000	mm
Vertical [Z]	1000 / 1500	mm

WORK CAPACITY

Distance between columns	3000 4000	mm
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FEEDS

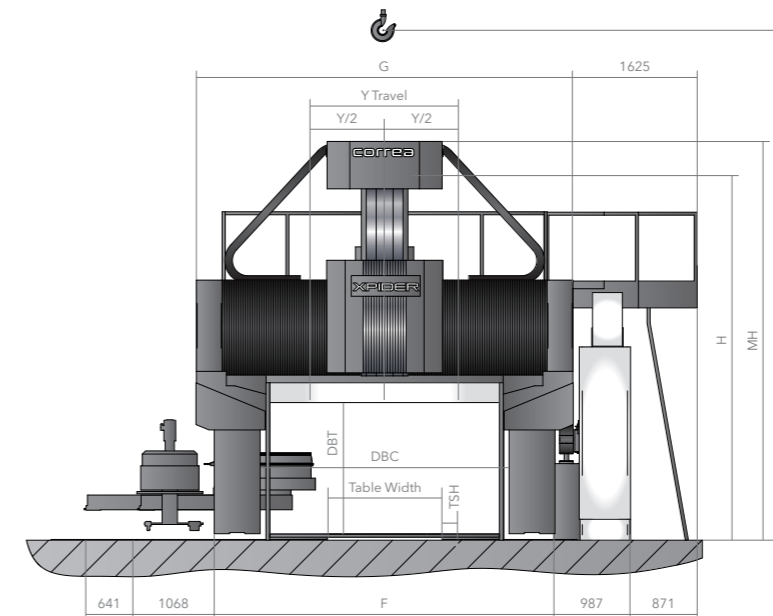
Maximum [X]	45 / 60	m/min
Maximum [Y]	45 / 60	m/min
Maximum [Z]	45 / 45	m/min

SPINDLE SPECIFICATIONS

Spindle nose	ISO-50 Big Plus / HSK-63* / HSK-100	
Programmable speed	6000 / 10000 / 24000*	rpm
Maximum power	30 / 35* / 60*	kW

* Only with Electrospindle.

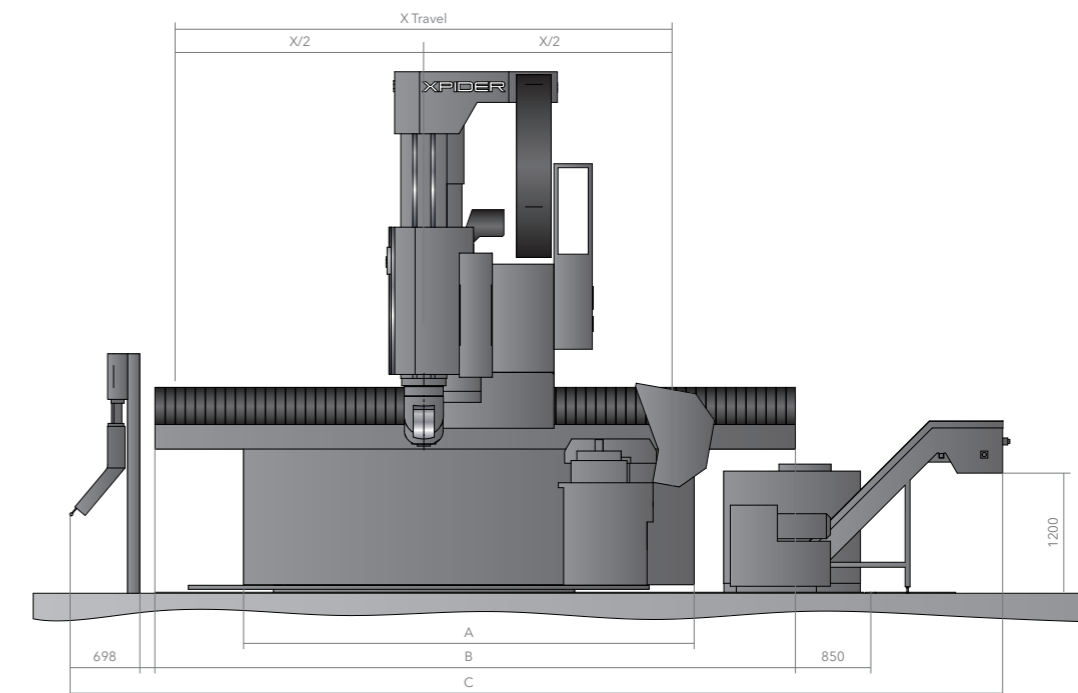
External Dimensions



X Travel	A	B	C
2000	3000	4875	7975
3500	4500	6500	9600

Y Travel	DBC M	F	G	Table Width
2000	3000	4500	4900	1500
3000	4000	5500	5900	2500

Z Travel	Vert. capacity	DBT	H	MH	mHCH	TSH
1000	A	1400	4600	5300	6400	330
	B	1650	4600	5300	6400	80
	C	1900	4850	5800	6900	330
	D	2150	4850	5800	6900	80
1500	C	1900	5600	6200	6900	330
	D	2150	5600	6200	6900	80



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Milling Head

ESE Continuous



2-Axis continuous Milling Head
42 • 60 • 35 kW
15000 • 20000 • 24000 rpm

UCE Universal



Universal continuous Milling Head
20 • 60 kW | 20000 • 24000 rpm

Milling Head

UDX 0.02° x 0.02°



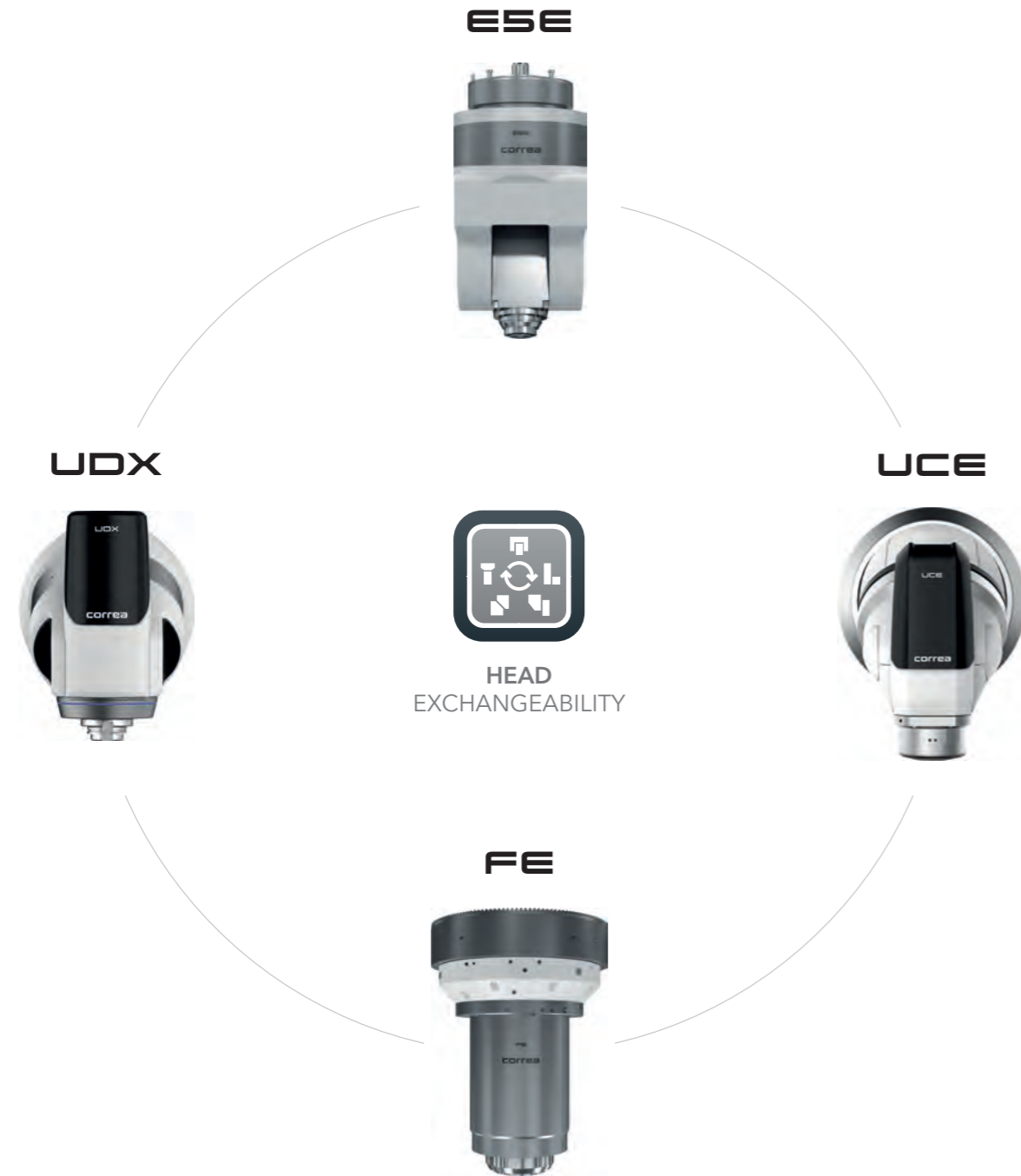
Universal Auto-Indexing Head
30 kW | 620 Nm | 10000 rpm

FE



Front Electrospindle
54 • 60 kW | 12500 • 20000 rpm

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 changer for 30, 40, 60, 120 tools • Perimeter fence
- Tool and parts measurement probes • 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

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