

correa

FOX M

Gantry type milling machine

WARRANTY



La **FOX M** combines traditional roughing capacity with the speed and precision of high performance machining controlling in real time the temperature generated in the Z axis.



HIGH DAMPING CAPACITY

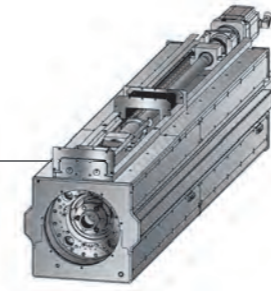
- Vertical axis with water-cooled friction.
- Excellent damping capacity.
- Optimum performance with the ram in the lowest position.



THERMO SYMMETRICAL DESIGN

- Totally symmetric design of vertical axis.
- Improved geometry of the machine.
- Geometry is more stable faced with temperature changes.

Ram Cross Section: 540 mm x 550 mm



Crossbeam Cross Section: 1030 mm x 1305 mm



OVERSIZED STRUCTURAL ELEMENTS



HIGH GEOMETRICAL PRECISION

The biggest cross sections in the market
Roughing capacity
Machine geometry stability

Dynamic performance parametrizable in accordance with:

- ROUGHING OPERATION
- FINISHING OPERATION



MACHINE DYNAMIC ADJUSTMENT



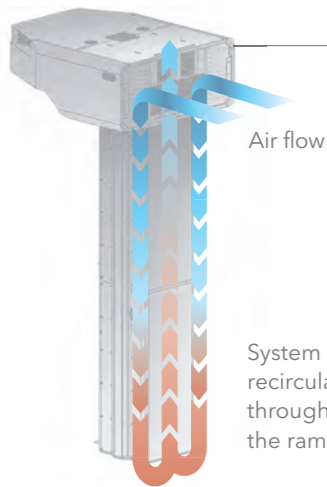
MACHINING SETTINGS



ROUGHING



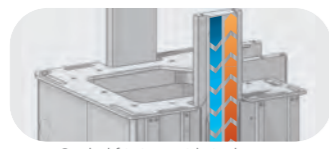
FINISHING



Air flow

System of air recirculation through the ram

MORE ABOUT THE FOX M



Cooled friction guide in the ram



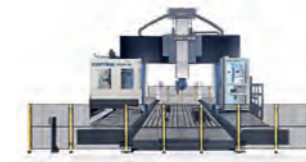
VERTICAL AXIS TEMPERATURE CONTROL

- High feed.
- High precision at tool tip.
- High roughing capacity.
- Geometric stability of ram.

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



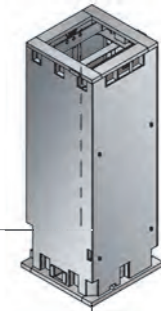
HIGH FEED RATES



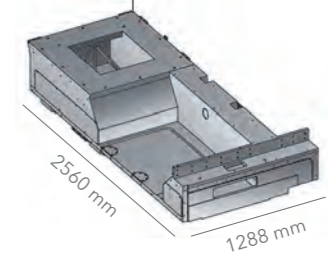
ECO DESIGN

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

Column Cross Section: 1100 mm x 1100 mm



Longitudinal Saddle Cross Section



Technical Features

FOX M 50 FOX M 65 FOX M 80 FOX M 95 FOX M 110 FOX M 125 FOX M 140
15xN

TABLE

| | | | | | | | | |
|---------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----|
| Surface | 1750 / 2500 3000 / 3500 | 1750 / 2500 3000 / 3500 | 1750 / 2500 3000 / 3500 | 1750 / 2500 3000 / 3500 | 1750 / 2500 3000 / 3500 | 1750 / 2500 3000 / 3500 | 1750 / 2500 3000 / 3500 | mm |
|---------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----|

| | | | | | | | | |
|---------------------------|---------|--|--|--|--|--|--|----|
| Maximum load on the table | 10 - 15 | | | | | | | Tm |
|---------------------------|---------|--|--|--|--|--|--|----|

TRAVERSES

| | | | | | | | | |
|------------------|------|------|------|------|-------|-------|-------|----|
| Longitudinal [X] | 5000 | 6500 | 8000 | 9500 | 11000 | 12500 | 14000 | mm |
|------------------|------|------|------|------|-------|-------|-------|----|

| | | | | | | | | |
|-----------|---|--|--|--|--|--|--|----|
| Cross [Y] | Cross: 3000 - 3750 - 4250 - 5000 / DBC: 2500 - 3250 - 3750 - 4500 | | | | | | | mm |
|-----------|---|--|--|--|--|--|--|----|

| | | | | | | | | |
|--------------|--------------------|--|--|--|--|--|--|----|
| Vertical [Z] | 1000 / 1500 / 1750 | | | | | | | mm |
|--------------|--------------------|--|--|--|--|--|--|----|

FEEDS

| | | | | | | | | |
|-------------|----|--|--|--|--|--|--|-------|
| Maximum [X] | 25 | | | | | | | m/min |
|-------------|----|--|--|--|--|--|--|-------|

| | | | | | | | | |
|-------------|----|--|--|--|--|--|--|-------|
| Maximum [Y] | 30 | | | | | | | m/min |
|-------------|----|--|--|--|--|--|--|-------|

| | | | | | | | | |
|-------------|----|--|--|--|--|--|--|-------|
| Maximum [Z] | 30 | | | | | | | m/min |
|-------------|----|--|--|--|--|--|--|-------|

SPINDLE SPECIFICATIONS

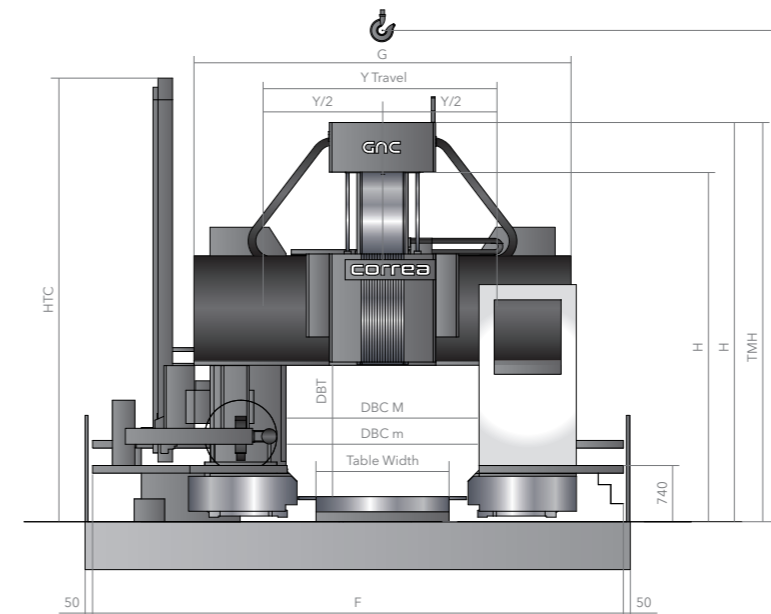
| | | | | | | | |
|--------------|---------------------------|--|--|--|--|--|--|
| Spindle nose | ISO-50 Big Plus / HSK-100 | | | | | | |
|--------------|---------------------------|--|--|--|--|--|--|

| | | | | | | | | |
|--------------------|---------------------|--|--|--|--|--|--|-----|
| Programmable speed | 6000 / 6000 / 10000 | | | | | | | rpm |
|--------------------|---------------------|--|--|--|--|--|--|-----|

| | | | | | | | | |
|---------------|--------------|--|--|--|--|--|--|----|
| Maximum power | 30 / 37 / 52 | | | | | | | kW |
|---------------|--------------|--|--|--|--|--|--|----|

| | | | | | | | | |
|----------------|-------------------|--|--|--|--|--|--|----|
| Maximum torque | 620 / 1300 / 1375 | | | | | | | Nm |
|----------------|-------------------|--|--|--|--|--|--|----|

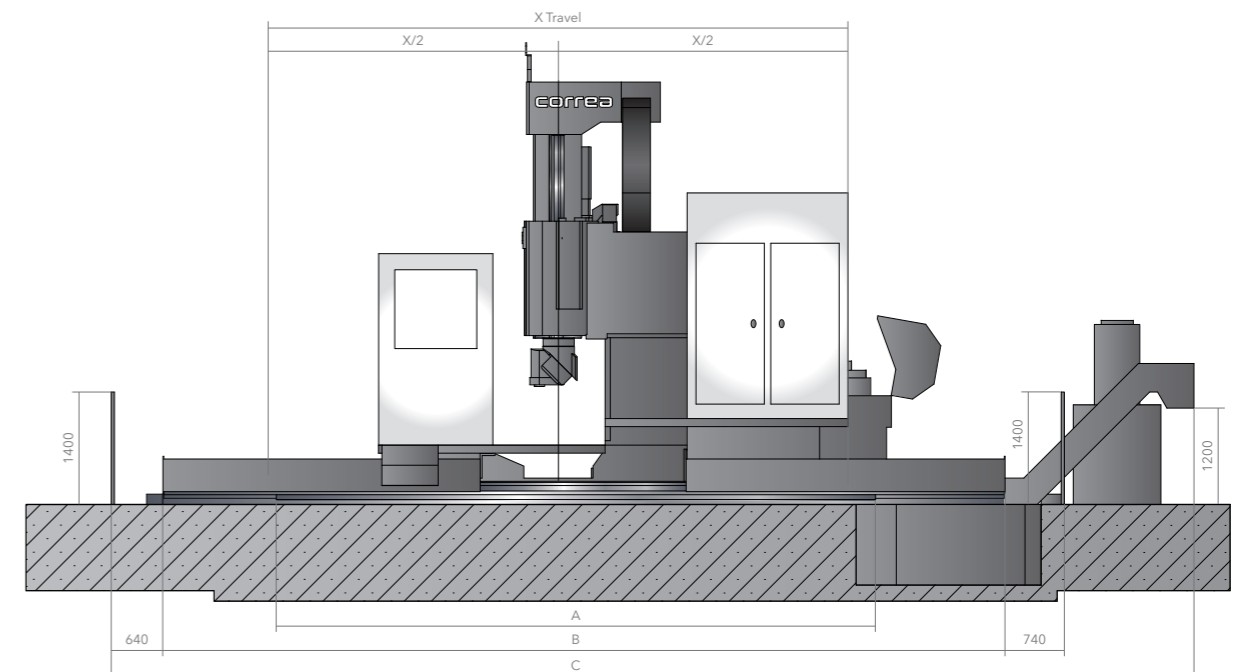
External Dimensions



| X Travel | A | B | C |
|----------|-------|-------|-------|
| 5000 | 6000 | 10530 | 14300 |
| 6500 | 9000 | 12080 | 15850 |
| 8000 | 9000 | 13530 | 17300 |
| 9500 | 12000 | 15080 | 18800 |
| 11000 | 12000 | 16530 | 20300 |
| 12500 | 15000 | 19080 | 22580 |
| 14000 | 15000 | 20530 | 24030 |
| 15500 | 18000 | 22530 | 26030 |
| 17000 | 18000 | 23980 | 27480 |
| 20000 | 21000 | 27480 | 30980 |
| 23000 | 24000 | 30980 | 34480 |
| 26000 | 27000 | 34480 | 37980 |

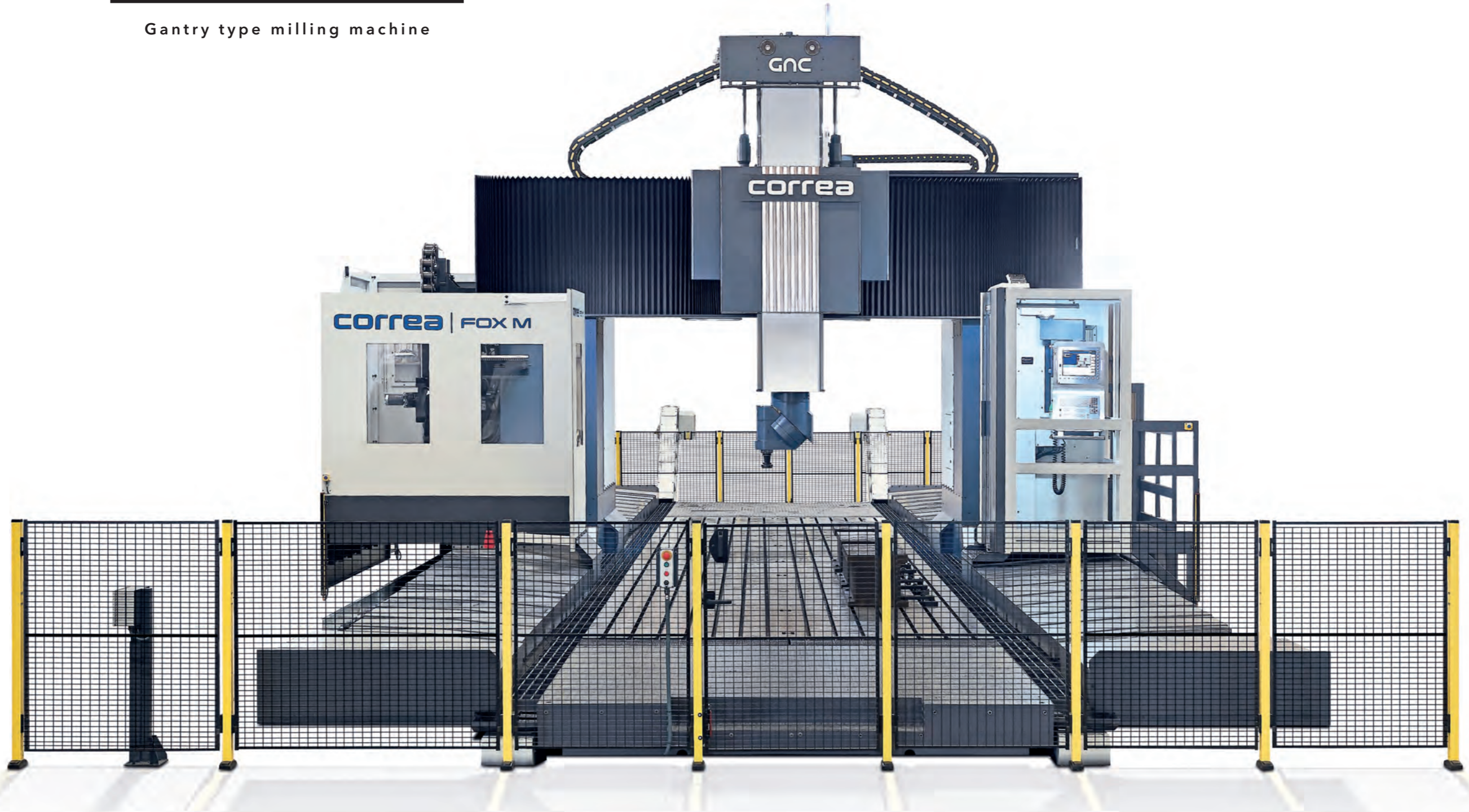
| Y Travel | DBC M | DBC m | F | G | Table Width |
|----------|-------|-------|------|------|-------------|
| 3000 | 2500 | 2250 | 6750 | 5000 | 1750 |
| 3750 | 3250 | 3000 | 7500 | 5750 | 2500 |
| 4250 | 3750 | 3500 | 8000 | 6300 | 3000 |
| 5000 | 4500 | 4250 | 9000 | 7100 | 3500 |

| Z Travel | Vert. capacity | DBT | H | MH | TMH | mHCH | HTC | | |
|----------|----------------|------|------|------|------|------|--------|---------|---------|
| | | | | | | | ATC 80 | ATC 100 | ATC 120 |
| 1000 | A | 1700 | 4680 | 5350 | 5350 | 6575 | - | - | - |
| | A (MBEFL) | 1700 | 4480 | 5150 | 5950 | 6375 | 5560 | - | - |
| | B | 1950 | 4930 | 5600 | 5600 | 6825 | - | - | - |
| | B (MBEFL) | 1950 | 4730 | 5400 | 6100 | 6625 | 5560 | - | - |
| 1500 | C | 2200 | 5180 | 6350 | 6350 | 7075 | 6300 | 6500 | - |
| | C (MBEFL) | 2200 | 4980 | 6150 | 6850 | 6875 | 5560 | 5760 | 6360 |
| | D | 2450 | 5430 | 6600 | 6600 | 7325 | 6300 | 6500 | 7100 |
| | D (MBEFL) | 2450 | 5230 | 6400 | 7100 | 7125 | 5560 | 5760 | 6360 |
| 1750 | D | 2450 | 5430 | 6850 | 6850 | 7400 | 6300 | 6500 | 7100 |
| | D (MBEFL) | 2450 | 5230 | 6650 | 7350 | 7150 | 5560 | 5760 | 6360 |
| | E | 2700 | 5680 | 7100 | 7100 | 7650 | 6300 | 6500 | 7100 |
| | E (MBEFL) | 2700 | 5480 | 6900 | 7600 | 7400 | 5560 | 5760 | 6360 |



FOX M

Gantry type milling machine



Milling Head



UAD 0.02° x 0.02°

Universal Auto-Indexing
Differential Head
37 kW | 1298 Nm | 6000 rpm
52 kW | 1375 Nm | 6000 rpm



OAD 0.02° x 0.02°

Orthogonal Auto-Indexing
Differential Head
37 kW | 1298 Nm | 6000 rpm
52 kW | 1375 Nm | 6000 rpm



FC-30 | 60 | 80

Front Spindle
15 • 37 kW | 1298 Nm | 3000 • 4000 rpm
15 • 52 kW | 1375 Nm | 3000 • 4000 rpm



FCT

High Torque Front Spindle
37 kW | 1893 Nm | 4000 rpm
52 kW | 2005 Nm | 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

Milling Head



FD-30 | 60 | 80

Non-centered front spindle
15 • 37 kW | 1298 Nm | 3000 • 4000 rpm
15 • 52 kW | 1375 Nm | 3000 • 4000 rpm



UT-500 | 630

D'Andrea Head
37 kW | 7788 Nm | 315 • 250 rpm
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

- Automatic Universal Head • 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 • Exterior coolant with adjustable lance nozzles
- Linear guides in the X, Y axes • Internal and external air flow
- Friction guide at Z axis • Guarding
- Lamp in the working area • Tele-service

Optional Equipment

- Other heads • Self cleaning filter
- Automatic head-changer • Air/Coolant cleaning gun
- Pick up station for 6, 8 and 12 tools • Chip conveyors
- Automatic charger for 30, 40, 60 and 120 tools • Perimeter fence
- Probes of measurement, tools and parts • Integral guarding [only in some models]
- Rotary tables • Coolant through the spindle
- Zero-point systems for rapid part change

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