Generously sized and properly ribbed structural parts, strong milling heads, machines in perfect geometry... have always been the distinctive features of NICOLÁS CORREA since its foundation in 1947.

We are convinced Robustness is a good bet for our customers, a sensible investment that will result in the following benefits/values:

RELIABILITY

In NICOLÁS CORREA, we extend the concept of robustness to the whole production process of the machine, always choosing technical solutions of the highest quality. For this reason, we offer as standard 5 year warranty on our milling machines.

PRECISION

The milling machine is stable and maintains geometry values longer.

DURABILITY

Our machines are designed and assembled to last for decades. Tireless workers that maintain their chip removal capacity in good condition for years.

MILLING HEADS

Unique robust milling head technology with superb repeatability, flexible to perform roughing and finishing operations.
What makes the difference in the ORIX?

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.

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

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

- Machine designed to obtain superb quality surface finishes
- Specific electrospindle designed to obtain finishes at high rpms
- Dynamic behaviour with parameter settings for:
  - Surface quality
  - Part geometrics
  - Machining time

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

- Machine designed to obtain superb quality surface finishes
- Specific electrospindle designed to obtain finishes at high rpms
- Dynamic behaviour with parameter settings for:
  - Surface quality
  - Part geometrics
  - Machining time

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

- High-speed finishing capacity
- Geometric stability in time

- Wide cross sections
- Long lengthwise carriage that guarantees optimal bench support via 8 extra-long skids
- Bench structure: Steel and concrete, guaranteeing greater sturdiness and optimal buffering capacity
- Motor weights evenly distributed over the carriage with regard to beam weight
Technical Features

**ORIX**

**Surface**
- mm: 4,000 - 16,000 x 2,500 - 3,500

**Maximum load on the table**
- Tm/m²: 15

**Traverses**

| Longitudinal | X mm | 3,500 - 24,500 |
| Cross | Y mm | 3,000 - 4,500 |
| Vertical | Z mm | 1,250, 1,500, 2,000 |

**Work Capacity**
- Distance between columns: mm
  - X: 4,200
  - Y: 4,700
  - Z: 5,200, 5,700

**Feeds**
- X m/min: 30
- Y m/min: 30
- Z m/min: 30

**Spindle Specifications**
- Spindle nose: ISO-50 | HSK-63 | HSK-100
- Programmable speed: rpm
  - 6,000 / 12,000 / 24,000
- Maximum power: kW
  - 52 / 35 / 60
- Maximum torque: Nm
  - 1,375 / 120 / 60

**External Dimensions**

<table>
<thead>
<tr>
<th>X Travel</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,500</td>
<td>6,000</td>
<td>7,500</td>
<td>11,500</td>
</tr>
<tr>
<td>6,500</td>
<td>9,000</td>
<td>9,000</td>
<td>12,790</td>
</tr>
<tr>
<td>8,000</td>
<td>12,000</td>
<td>12,000</td>
<td>15,790</td>
</tr>
<tr>
<td>9,500</td>
<td>12,000</td>
<td>14,300</td>
<td>18,090</td>
</tr>
<tr>
<td>11,000</td>
<td>15,000</td>
<td>15,000</td>
<td>18,790</td>
</tr>
<tr>
<td>12,500</td>
<td>15,000</td>
<td>18,000</td>
<td>21,790</td>
</tr>
<tr>
<td>15,500</td>
<td>18,000</td>
<td>21,700</td>
<td>25,490</td>
</tr>
<tr>
<td>16,500</td>
<td>21,000</td>
<td>25,400</td>
<td>29,190</td>
</tr>
<tr>
<td>21,500</td>
<td>24,000</td>
<td>29,100</td>
<td>32,890</td>
</tr>
<tr>
<td>24,500</td>
<td>27,000</td>
<td>32,800</td>
<td>36,590</td>
</tr>
</tbody>
</table>

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

**External Dimensions (Continued)**

<table>
<thead>
<tr>
<th>Y Travel</th>
<th>X Travel</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,250</td>
<td>1,200</td>
<td>840</td>
<td>1,200</td>
<td></td>
</tr>
</tbody>
</table>

**External Dimensions (Table Length)**

<table>
<thead>
<tr>
<th>X Travel</th>
<th>Y Travel</th>
<th>Table Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,250</td>
<td>1,200</td>
<td>840</td>
</tr>
</tbody>
</table>
**FLEXIBILITY**

Axis C rotation, from -200° to +200°
Axis B rotation, from -110° to +110°
3 configurable electrospindles on the same boring head!
Cutting fluid and/or air through the spindle, which can be adjusted from 17 to 70 bar
Cutting fluid and/or outside air with integrated adjustable nozzles

**PRICING**

Superior quality Kessler or Fischer electrospindle

**RELIABILITY**

Head designed and manufactured in NCSA
Head assembled in white room at 22°C
Kessler / Fischer electrospindle
More demanding cutting tests
Automatic lubrication

**PRODUCTIVITY**

C axis rotation speed: 45 rpm
C axis acceleration: 10 rev / sec²
B axis rotation speed: 25 rpm
B axis acceleration: 10 rev / sec²

**ROBUSTNESS**

C axis working torque: 2200 Nm (Motor-Torque)
C axis braking torque: 4000 Nm
B axis working torque: 2026 Nm (Motor + reduction + gears)
B axis braking torque: 4000 Nm

Superior quality Kessler or Fischer electrospindle

**FLEXIBILITY**

Axis C rotation, from -200° to +200°
Axis B rotation, from -110° to +110°
3 configurable electrospindles on the same boring head!
Cutting fluid and/or air through the spindle, which can be adjusted from 17 to 70 bar
Cutting fluid and/or outside air with integrated adjustable nozzles

**PRICING**

Superior quality Kessler or Fischer electrospindle

**RELIABILITY**

Head designed and manufactured in NCSA
Head assembled in white room at 22°C
Kessler / Fischer electrospindle
More demanding cutting tests
Automatic lubrication

**PRODUCTIVITY**

C axis rotation speed: 45 rpm
C axis acceleration: 10 rev / sec²
B axis rotation speed: 25 rpm
B axis acceleration: 10 rev / sec²

**ROBUSTNESS**

C axis working torque: 2200 Nm (Motor-Torque)
C axis braking torque: 4000 Nm
B axis working torque: 2026 Nm (Motor + reduction + gears)
B axis braking torque: 4000 Nm

Superior quality Kessler or Fischer electrospindle

**FLEXIBILITY**

Axis C rotation, from -200° to +200°
Axis B rotation, from -110° to +110°
3 configurable electrospindles on the same boring head!
Cutting fluid and/or air through the spindle, which can be adjusted from 17 to 70 bar
Cutting fluid and/or outside air with integrated adjustable nozzles

**PRICING**

Superior quality Kessler or Fischer electrospindle

**RELIABILITY**

Head designed and manufactured in NCSA
Head assembled in white room at 22°C
Kessler / Fischer electrospindle
More demanding cutting tests
Automatic lubrication

**PRODUCTIVITY**

C axis rotation speed: 45 rpm
C axis acceleration: 10 rev / sec²
B axis rotation speed: 25 rpm
B axis acceleration: 10 rev / sec²

**ROBUSTNESS**

C axis working torque: 2200 Nm (Motor-Torque)
C axis braking torque: 4000 Nm
B axis working torque: 2026 Nm (Motor + reduction + gears)
B axis braking torque: 4000 Nm

Superior quality Kessler or Fischer electrospindle

**FLEXIBILITY**

Axis C rotation, from -200° to +200°
Axis B rotation, from -110° to +110°
3 configurable electrospindles on the same boring head!
Cutting fluid and/or air through the spindle, which can be adjusted from 17 to 70 bar
Cutting fluid and/or outside air with integrated adjustable nozzles

**PRICING**

Superior quality Kessler or Fischer electrospindle

**RELIABILITY**

Head designed and manufactured in NCSA
Head assembled in white room at 22°C
Kessler / Fischer electrospindle
More demanding cutting tests
Automatic lubrication

**PRODUCTIVITY**

C axis rotation speed: 45 rpm
C axis acceleration: 10 rev / sec²
B axis rotation speed: 25 rpm
B axis acceleration: 10 rev / sec²

**ROBUSTNESS**

C axis working torque: 2200 Nm (Motor-Torque)
C axis braking torque: 4000 Nm
B axis working torque: 2026 Nm (Motor + reduction + gears)
B axis braking torque: 4000 Nm

Superior quality Kessler or Fischer electrospindle
### Optional Equipment

- **Milling Head Changer**

<table>
<thead>
<tr>
<th>Milling Head</th>
<th>Automatic Head Exchange</th>
<th>Built-in</th>
</tr>
</thead>
<tbody>
<tr>
<td>UAD</td>
<td>UAD</td>
<td></td>
</tr>
<tr>
<td>UGA</td>
<td>UGA</td>
<td></td>
</tr>
<tr>
<td>OAD</td>
<td>OAD</td>
<td></td>
</tr>
<tr>
<td>E5E Continuous</td>
<td>E5E Continuous</td>
<td></td>
</tr>
<tr>
<td>TU</td>
<td>TU</td>
<td></td>
</tr>
</tbody>
</table>

- **Other heads**

- **Automatic head-changer**

- **Probes of measurement, tools and parts**

- **Automatic charger for 30, 40, 60, 120 tools**

- **Pick up station for 6, 8, 12 tools**

- **Air/Coolant cleaning gun**

- **Self cleaning filter**

- **Rotary tables**

- **Chip conveyors**

- **Perimeter fence**

- **Different enclosures according to user’s needs (only in some models)**

- **Coolant through spindle 17, 36, 70 bar**

- **Zero Point Clamping System integrated in the machine**
Applications

LEATHER FINISHES

INJECTION MOLD FINISH

AERONAUTIC MOLD MACHINING

LEATHER FINISHES

DIE MACHINING

DIE MACHINING

CAST MOLD MACHINING

LARGE STRUCTURAL PART MACHINING (AERONAUTIC)

DIE MACHINING

DIE MACHINING
NICOLÁS CORREA, S.A.

Founded in 1947 and dedicated to the design and fabrication of medium and large size milling machines, is the headquarters of the Group NICOLÁS CORREA also formed by 4 other industrial affiliates:

GNC HYMATA
Design and fabrication of CORREA milling machines of small size, as well as accessories for the tool machine industry such as ATCs and milling heads.

GNC KUNMING
Fabrication and distribution of milling machines for the local chinese market.

GNC ELECTRÓNICA
Design and fabrication of electrical assemblies.

GNC CALDERERÍA
Welded structures, sheet parts, and machine guarding systems.

Some critical components are supplied inside the group to assure quality and fulfill the flexibility requirements of our customers.

In 2006 NICOLÁS CORREA and INDUSTRIAS ANAYA merged, what gave us the chance to offer one of the widest milling machine ranges on the market including: bed type (Also T-Configuration), Travelling column (Also T-Configuration), Portal milling machines. The design and manufacture are entirely made in Europe.

It quotes in the Madrid Stock Exchange since 1989.

In order to guarantee service and personal assistance to our customers, we have a wide sales and service network all over the world, being present through subsidiaries or agents in most of the countries.