

QUICK GRINDER

easy

MORARA

INTERNAL DIAMETER GRINDING MACHINE

easy QUICK ID 90

easy QUICK ID 120

easy QUICK ID 170

LEADING ITALIAN GRINDER MANUFACTURER



GLOBAL PERFORMANCES
DOMESTIC ATTITUDE

GB

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GLOBAL PERFORMANCES
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EASYQUICK ID

MORE POWER, BETTER PERFORMANCE

Configurable tool

The new internal grinder **MORARA EasyQuick ID** is the ideal solution for all grinding machines whose strong point is manufacturing versatility. **EasyQuick ID** is the configurable tool for the most varied of grinding requirements on joints, sleeves, bushes, spindles, etc. be they single workpieces or small batches, including multi-diameter processing (2 internal spindles with different speed) or interpolations (an internal spindle and a facing one) with single placement. In its **three available versions**, it grinds holes with a max \varnothing of 150 mm (250") for a length of 120 mm (150") and a distance between the **Workhead** and **Carriage** of 900, 1200 and 1700 mm.

From Quick Grinder's success the evolution of the species

The **EasyQuick** range is founded on the success of the **Morara Quick Grinder**, from which it inherits its configurability and flexibility, preserving its concept and adding sophisticated innovations to it, such as the system to monitor maintenance (it signals any maintenance that needs to be performed) or the **ENERGY SAVING** system to lower electrical energy consumption: all by just simply pressing a button. **EasyQuick ID** is **suited** for a number of **sectors**: **reducers, precision general mechanics, hydraulics, moulds**, etc. Thanks to its broad range of accessories, it allows users to identify the best manufacturing modes, ensuring satisfaction of even the most demanding customers.

Multi-brand synergies

Designed with the most modern technology, the new **Morara EasyQuick ID** combines an incredibly short cycle time with a fast re-tooling process, which is the fruit of upgrades introduced in the new and intuitive software. The new **Morara EasyQuick ID** uses a technological platform born out of the team work of engineers of the entire IMT Group and which is shared in common by its marketed brands, ensuring an ideal price: quality ratio and brief delivery times.

Success guaranteed

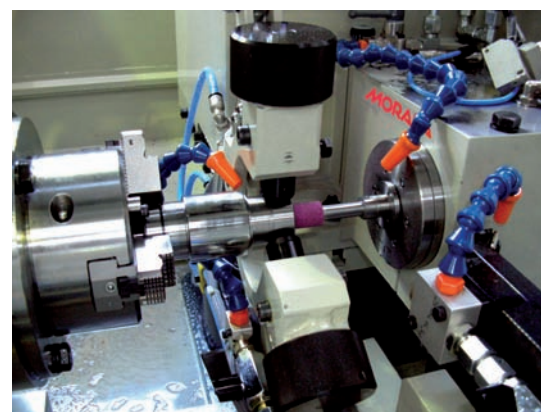
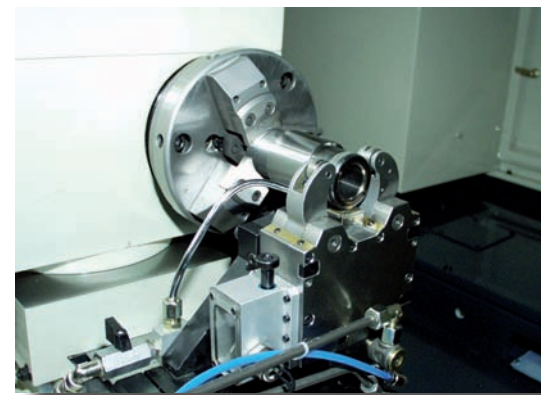
Improved surfaces, improved dimensional tolerances, improved repeatability. With the **new X axis grinding wheel carriage** made of stabilized iron castings and sliding movement on roller recirculating sliders along tempered guides, mechanism which ensures greater stiffness and better slide. With **direct drive transmission** thanks to preloaded, **high precision recirculating ball screws** built-in to the brushless engine (which lowers the need for extraordinary maintenance operations while making them easier). With control via absolute optical linear encoders.

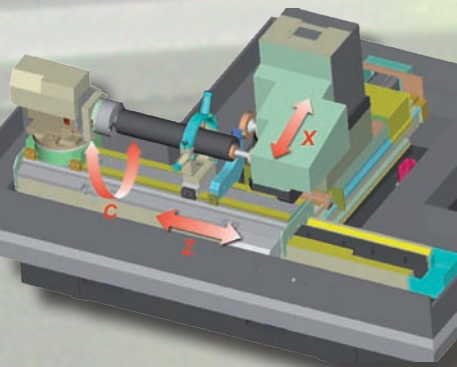
Minimized set-ups

The new interactive operator interface "**Tool Operator Package**" installed on the digital SIEMENS CNC simplifies the part-program creation process, making any adjustments that need to be made easier and more accessible. Moreover, all the accessories of the series (post-process, vibration sensors, self-centering rests, automation) are directly managed by the interface.

Quick & Easy

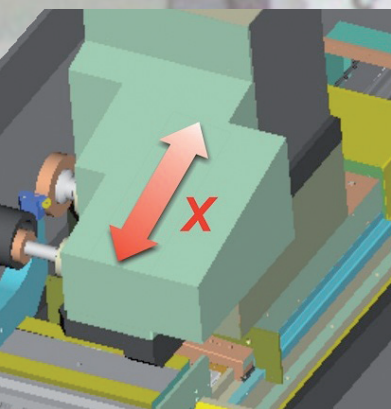
To limit consumptions means to achieve eco-sustainability or, simply put, to safeguard the environment. With the **ENERGY SAVING** system to lower electrical energy consumptions, all you have to do is "press a button". But replacing a filter at the right moment is also important, and with the **Maintenance Operator Package**, it's easier. This is the new driving concept behind the **EasyQuick** series.





BED

A single structure in stabilized iron casting, widely ribbed, fit to host the grinding wheel unit and the worktable.



GRINDING WHEEL CARRIAGE (X axis)

The grinding wheel carriage slides on tempered guides with preloaded roller sliders. Movement ensured by means of high precision recirculating ball screw directly coupled to the AC BRUSHLESS engine with digital adjustment. Movement control with absolute optical linear encoder measuring system.

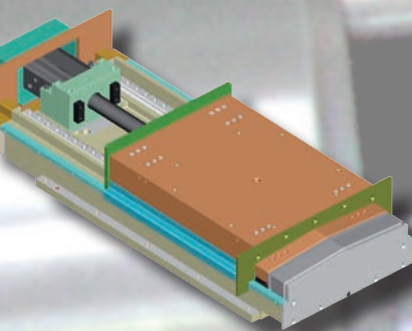
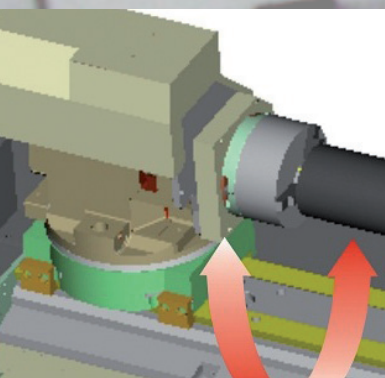


TABLE (Z axis)

The table slides on prismatic-plane guides with interposed anti-friction material (SKC), with improved features to get rid of stick-slip phenomena. Movement ensured via recirculating ball screw coupled with a co-axial joint to the AC BRUSHLESS engine with digital adjustment. Movement control with absolute optical linear encoder measuring system (optional feature).



WORKHEAD

Adjustable base with micrometric correction device, table locked tight with self-aligning system to make cross-wise repositioning operations easier. Rotating spindle on extra-precision bearings, with ASA connections for the workpiece-gripping tools. Continuous speed variation controlled by digital AC BRUSHLESS engine.

THE UNITS

REDUCERS

EasyQuick ID easily and quickly grinds holes and surfaces of sprockets and gears, and the holes of screws.



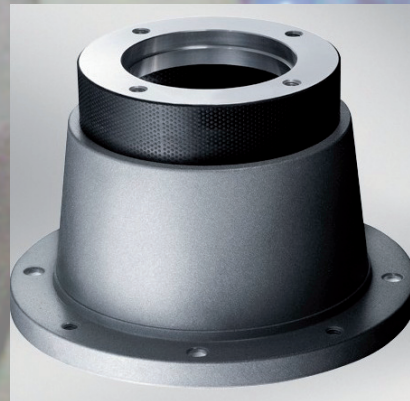
MOULDS

EasyQuick ID easily and quickly grinds holes of guide and normalized rings, and bushings.



HYDRAULICS

EasyQuick ID easily and quickly grinds holes and surfaces of lanterns and cylinders.



GENERAL MECHANIC

EasyQuick ID easily and quickly grinds holes and surfaces pieces in the field of General Mechanical precision.



APPLICATIONS

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MORARA



IMT GRINDING GROUP

TECHNICAL SPECIFICATIONS				
	VERSIONS			
CHARACTERISTIC DATA	90	120	170	unit
MAX distance between WORKHEAD surface and internal carriage	900	1200	1700	mm
MAX rotating diameter	340			mm
Height of tips (optional)	180 (230)			mm
Max weight on chuck (including equipment) [¹]	50			kg
MAX weight between WORKHEAD and rest	100	120	150	kg
Max. diameter of grindable hole (*)	150	150(250*)	150(250*)	mm
Max. length of grindable hole (*)	120 (150 *)			mm
MAX length of workpiece + equipment (*)	500	800	1300	mm
Total weight of grinder, accessories excluded (aprox)	6000	6500	7100	kg
Total power installed, accessories excluded (aprox)	25	25	25	kW
“X” Axis				
MAX Travel	400			mm
MAX speed in rapid mode	12	12	12	m/min
Resolution	0.1	0.1	0.1	μ
Brushless motor torque	8	8	8	Nm
“Z” Axis				
MAX Travel	900	1300	1800	mm
MAX speed in rapid mode	12	12	12	m/min
Resolution	0.1	0.1	0.1	μ
Brushless motor torque	8	8	8	Nm
Slope manual adjustability	0°-9°	0°-9°	0°-7°	°
Standard Workhead				
External/internal connection	ASA5/M5			/
Bar passage	32			mm
MAX speed (adjustable on CNC)	1-1000			rpm
MAX torque to spindle	36			Nm
Manual adjustability on horizontal level	0°-15°			°
Optional Workhead				
External/internal connection		ASA6/M5	ASA6/M5	/
Bar passage		50	50	mm
MAX speed (adjustable on CNC)		1-900	1-900	rpm
MAX torque to spindle		35	35	Nm
Manual adjustability on horizontal level		0°-15°	0°-15°	°
Optional facing unit				
MAX diameter of grinding wheel	150			mm
Electrospindle power	8			kw
Machine dimensions				
B	3000	3860	4860	mm
C	870			mm
D	2100			mm
E	3160			mm
H	1960			mm

(*) After a technical check. ⁽¹⁾ 100 mm from spindle nose Workhead.

MORARA

MORARA at a glance

- Our Business: precision.
- The Market: all companies which perform grinding processes, small and large grinders alike.
- The market sections: - Vehicles with 4 or 2 wheels, Off-road vehicles, railway, naval, aviation industry. Transmissions and drive reducers. Machine tools, textile machines. Electrical household appliances, electrical tools (light and heavy industrial, do-it-yourself). Tool sets, dressing, tool holder (hard metal and ceramics).
- The activities: internal and external grinders for cylinder-shaped and polygonal surfaces, for cam and goose-neck shafts.
- Our driving principles: top value for the customer, state-of-the-art technology, modularity, assembly options.
- The most valuable asset: Expertise in the grinding process.
- Our history: **MORARA** is the no. 1 company in Italy when it comes to grinding.
- The **location**: Italy, Emilia Romagna, and Bologna with its 900-year-old university are a district of excellence for machine tools.

IMT GRINDING GROUP, the industrial group that gathered under the same banner into one **Morara, De.Ci.Ma., Tacchella, Meccanodora, Favretto**, is controlled by **PARITEL Corporation**. **PARITEL HOLDING** is an industrial investment company founded in Bologna in 1989.

paritelspa.it



Metallo in movimento

IMT

www.morara.it

www.imtgrindinggroup.com

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