



CYLINDRICAL GRINDING MACHINES

PYTHON

PASSION FOR GRINDING



THE SOLUTION FOR COMPLEX HOLES

IDENTITY CARD

PYTHON is a modular cylindrical grinding machine for internal diameters and shaving suitable for machining workpieces with rotating diameter up to 260 or 460 mm. The length of the mountable part can be up to 500 mm. and the continuous Torque turret (B-axis) can accommodate up to 4 electrospindles.

TECHNICAL CHARACTERISTICS

GENERAL

VERSION	260	460	
Maximum rotating diameter on drawstring	260	460	mm.
Maximum length rectifiable	150	250	mm.
Workhead distance and drawstring fulcrum	250 / 500 *	450	mm.
Maximum cantilever weight (including tool)	200	300	kg.
Machine weight plus accessories	4500	6000	kg.

"X" AXIS - WHEEL WAGON

Axis stroke	350	mm.
Maximum axis speed	12	m/min.
Axis resolution	0,0001	mm.
Standard measuring system	absolute optical scale	

"Z" AXIS - LONGITUDINAL TABLE

Axis stroke	400	500	mm.
Maximum axis speed	12		m/min.
Axis resolution	0,0001		mm.
Standard measuring system	absolute optical scale		

CANTILEVER WORKHEAD

External cone of centring	4 / 5 *	6 / 8 *	ASA
Internal cone of centring	4 / 5 *	5 / 6 *	Morse
Bar passage	38	40	mm.
Maximum speed	900	1100	rpm
Torque to the spindle	85	120	Nm.
Standard measuring system	encoder		

*Option

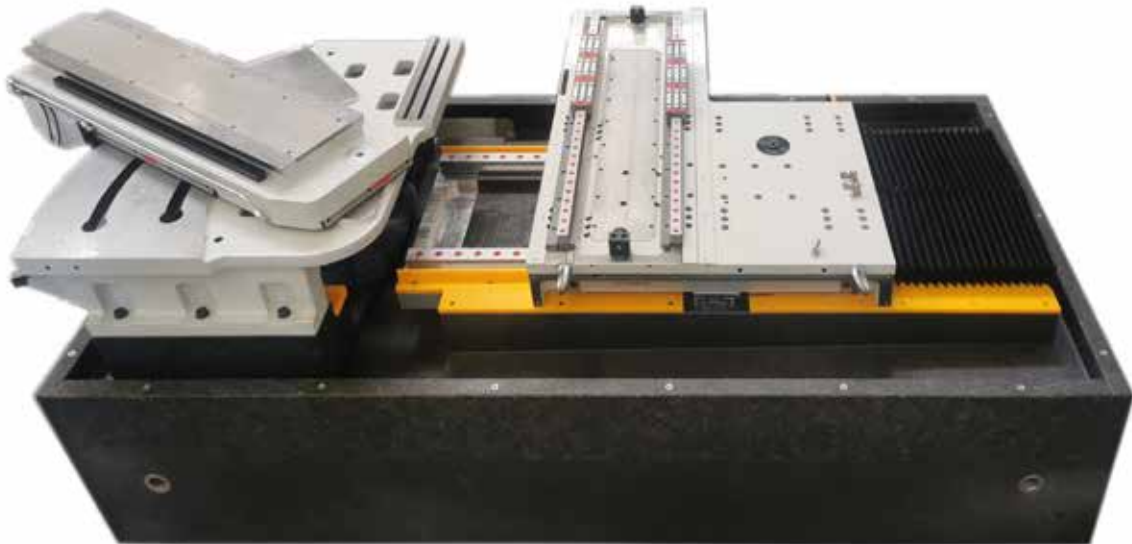
THE STARTING BLOCK

The natural granite base, in addition to ensuring maximum stability over time, is equipped with only 3 points of levelling, to always be in support on every flooring.

The granite is worked in Italy with precisions identical to those of the most precise and accurate counters, while ensuring a long durability.



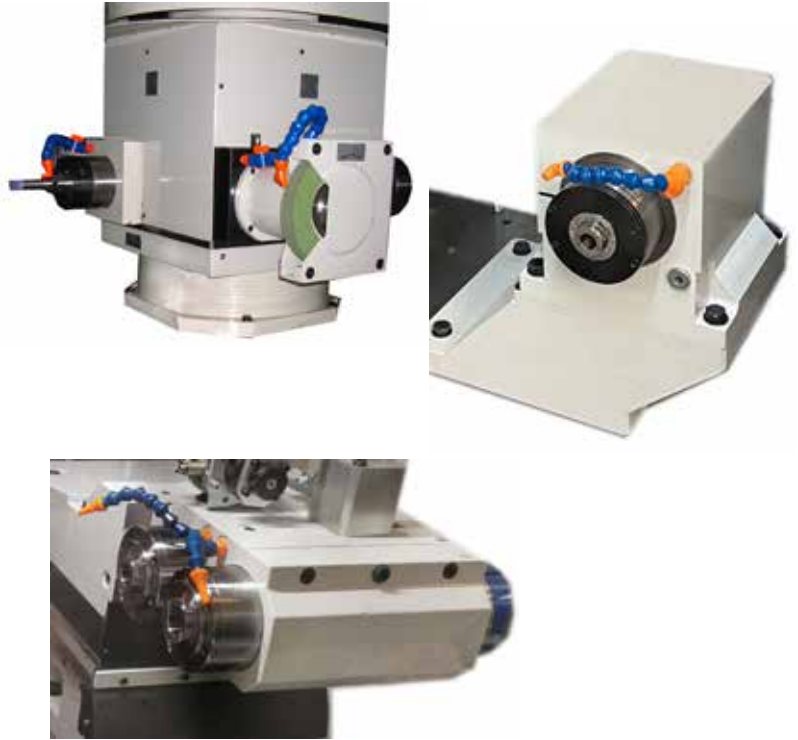
THE ESSENCE OF PRECISION



Linear motion axes X and Z slide on ultra precise recirculating roller guideways and are driven by the latest generation of linear motors. The absolute and pressurized optical scales are mounted inside the movement structure and the quick connections allow easy maintenance to all machine groups.

LIMITLESS MODULARITY

The PYTHON grinding wheel unit allows the assembly of different grinding units for each type of workpiece. From the single spindle carriage, to the double parallel support up to the multi-spindle B axis with continuous Torque rotation, on PYTHON every machining is possible.



ADVANCED ROTATION



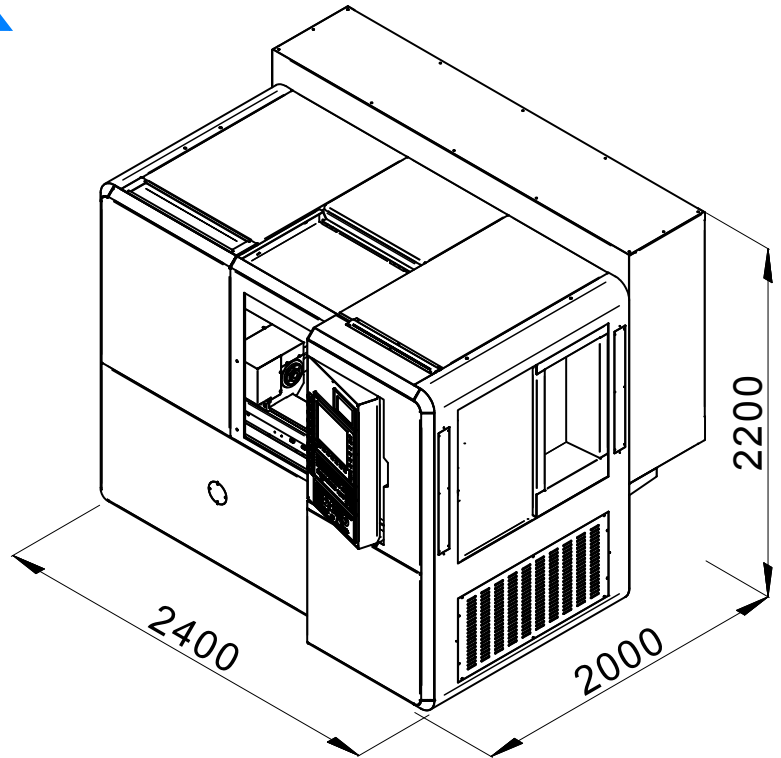
Among the available accessories, the A axis for the angular workhead positioning allows the operator to perform cylindrical and conical diameters in a single placement.

The system, with its game recovery and automatic unlocking, eliminates long machine placements without having to change the setup positions.

COMPACT FOOTPRINT

Despite its extreme configurability, PYTHON occupies a very small ground space: 2400 x 2000 x 2200 mm in which are included all the groups necessary for its operation.

The hydraulic unit, the pneumatic part and the electrical cabinet are integral to the machine so as to make PYTHON a complete and independent grinding island.



EXTREME ACCESSIBILITY

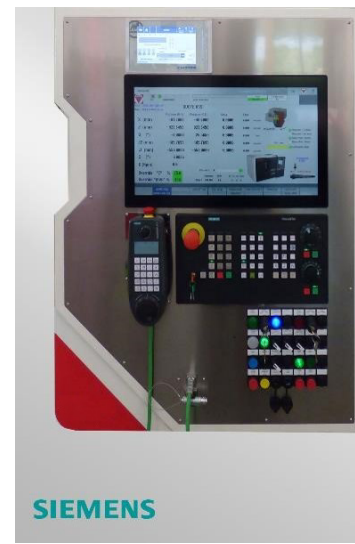
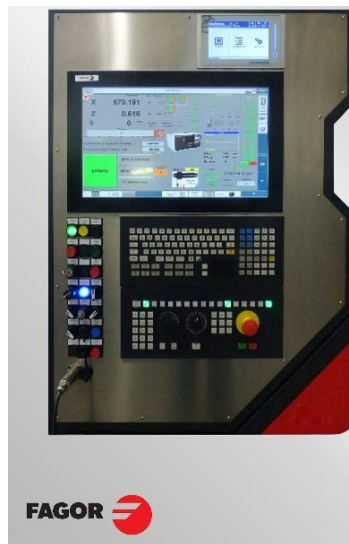


As per tradition, PYTHON collects the experience of SAGITECH in cylindrical grinding machines field maintenance: for this reason, the fairing and the arrangement of the components are designed to allow the end user maximum accessibility and maintainability, thanks to convenient doors and the position of the machine assembly.

THE CONTROL OF THE PROCESS

The hardware of the CN package can be Fagor or Siemens, and includes engines, drives and peripherals of machine management.

Digital technology always integrates free remote diagnosis, so that we can be at your side without making you wait even a second. Industry 4.0 has never been closer!



THE PROGRAMME FOR EVERYONE



At SAGITECH we have fully developed our control software in order to offer you a simple, complete and reliable user experience.

To use PYTHON you'll need exactly your mechanical skills. Moreover, with the touch screen interface of the SAGITECH software the programming of the working cycles is simple and intuitive.

ACCESSORIES FOR ANY NEED

SAGITECH collaborates with the most important companies in the field in order to provide you with all the customizations that make the difference.

Whether it's integrated measurement systems, piece gripping equipment or loading processes, PYTHON has room for everything.



CUSTOMER CARE

On PYTHON, the attention to the customer comes from several points: a pleasant and simple design, a great inspectability of the machine and a simple and clear arrangement of all the components. In addition to this we continuously implement the best technologies on the market, with the intent to free the customer from complex and confusing operations. Thanks to fields and diagnostics at



board we can communicate in real time with the customer to identify and correct any problem of use. We also offer a scheduled maintenance service to maintain the quality of your machine over time.

THE HISTORY

SAGITECH was founded in Alessandria in 2021 and is part of a group of companies all operating in the field of cylindrical grinding machines and special applications. In addition to Sagitech, also FEF of Concorezzo (www.fefrettirici.com) and MAR (www.mar.sm) are part of the group. As part of the group synergies, SAGITECH operates mainly in the field of production cylindrical grinding machines with high-speed tools and Turn-key projects, FEF manufactures customer-specific vertical and tangential grinding machines and MAR covers with its range both indoor and outdoor grinding machines with conventional tools. The strategic location of the 3 structures allows a wide and responsive territorial coverage to market demands.

THE STRATEGY

Democratic precision. Maximize customer satisfaction by providing adjustments designed to ensure high quality and rapid return of the investment, made with excellent skills, innovation and design, always supporting the customer, also in the re-engineering of the installed machinery.

THE TEAM

The team is composed of highly specialized expert technicians who deal with the design, construction, overhaul/ re-engineering, and technical assistance of cylindrical grinding machines. SAGITECH strongly believes in the value of people, and each one of our employees is constantly trained by more experienced technicians to create a cohesive and autonomous group in their skills. Every single employee, with their acquired experience, allows SAGITECH to operate in every specific machine sector, both in the mechanical, electronic and software fields.

THE HEADQUARTER

There are about 1,500 square meters for the production area, divided into several areas used for specialized fittings and a tool room equipped with the machine tools necessary to perform the most important and delicate processes. A large automated spare parts warehouse to meet the needs of our customers and a modern and functional office area for designers, salespeople and administrative employees, complete the location.

CIRCULAR ECONOMY
LASTING VALUE OVER TIME
INNOVATION
EXCELLENT SKILLS
PEOPLE, NOT NUMBERS

