

SAGITECH

CYLINDRICAL GRINDING MACHINES

ERGON
TWIN

PASSION FOR GRINDING



DOUBLE EFFICIENCY, SINGLE SOLUTION

Via Luigi Einaudi, 61 – 15121 Alessandria - AL - Italy (I)

+39 0131 033890

info.sagitech@sagitechsrsls.it



www.sagitechsrsls.it

www.instagram.com/sagitech_srl/



ID CARD

ERGON TWIN is a double-carriage cylindrical grinding machine with crossed axes and a work station with single or double workhead, available in both external and internal diameter versions.

TECHNICAL SPECIFICATIONS

GENERAL

Maximum rectifiable length	1200	2000	mm.
Center height (standard / optional)	240 / 350 *		mm.
Maximum rotating diameter	460 / 540 *		mm.
Maximum weight between centers	1000		kg.
Maximum overhang weight	250		kg.
Machine weight plus accessories	11000	14000	kg.

"X1" AND "X2" AXIS - GRINDING CARRIAGES

Axis travel	350	mm.
Maximum axis speed	20	m/min.
Axis resolution	0,0001	mm.
Standard measurement system	absolute optical line	

"Z1" AND "Z2" AXIS - SLIDING TABLE

Axis travel	1700	2800	mm.
Maximum axis speed	20		m/min.
Axis resolution	0,0001		mm.
Standard measurement system	absolute optical line		

UNIVERSAL TORQUE WORKHEAD

Internal centering cone	5 / 8 *	Morse
External centering cone	6 / 8 *	ASA
Maximum speed	800	rpm
Spindle torque	140 / 320 *	Nm.
Standard measurement system	direct encoder	

UNIVERSAL TAILSTOCK

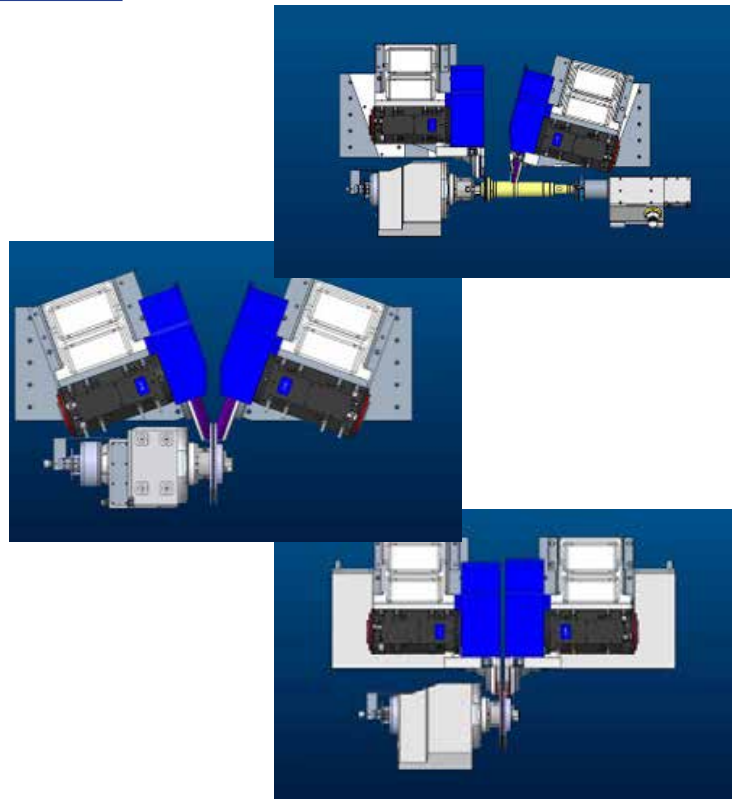
Sleeve diameter	100	mm.
Sleeve stroke	170	mm.
Internal fixing cone	5	Morse

*Option

FLEXIBLE AND DEDICATED

Each of the two transverse axes can be configured based on machining needs and requirements. Grinding capacity reaches up to 2 meters, with 1 ton between centers in the standard configuration.

The crossed arrangement of the X and Z axes, combined with linear motor movement, allows for minimal floor space, combined with the highest speed and precision available on the market.



SIMULTANEOUS PROCESSING



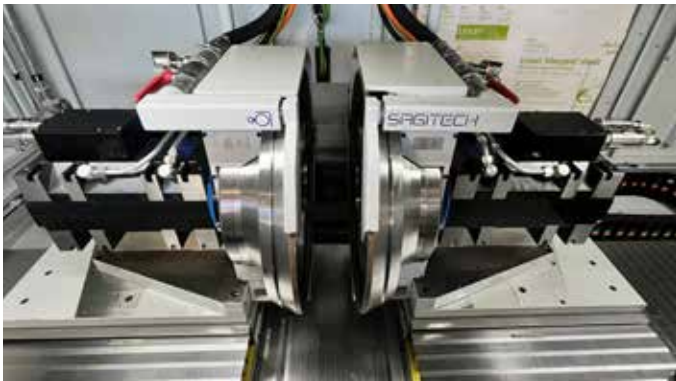
Another truly innovative feature is the design developed by **SAGITECH** for the simultaneous and synchronized machining of grinding wheels, both in angled and straight configurations. The wheels can be brought close enough to almost touch, and the housings are designed to fit inside each other, creating a single, closed chamber with a unique shape.

ULTRA-PERFORMANCE WHEEL UNIT

This “TWIN” configuration allows for extremely high machining performance, which, combined with the implementation of 125 m/s superabrasive wheels and high-power spindles, guarantees the achievement of extremely short machine cycle times and extremely high exports. These removals allow the wheels to operate in self-dressing conditions.



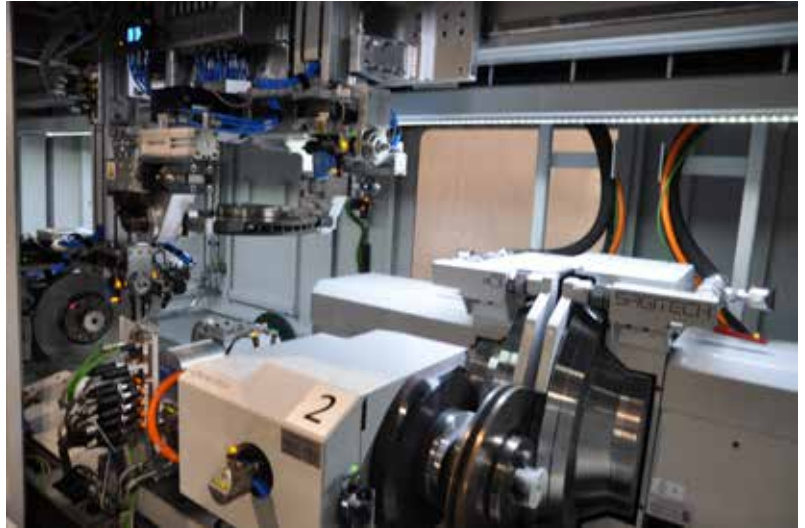
OPTIMAL LUBRICATION



Under these conditions, to dissipate the high heat and avoid burning, the grinding wheel is lubricated with a special system which, thanks to the shape of the coolant distributor, the grinding wheel support and the cooling nozzle, recovers the liquid sent between the grinding wheel and the workpiece and, through a centrifugal system that creates a vortex, retransmits it to the contact area between the grinding wheel and the workpiece.

ZERO SETUP

Ergon Twin offers the option of adding a double workstation to the dual transverse axes, all served by a loading and unloading system integrated into the machine for ease of management. This solution allows us to offer a turnkey process, guaranteeing a stable and dedicated process, with a zero setup time philosophy, as always in the **SAGITECH** style.



INTEGRATED MEASUREMENT

Each station is equipped with a dedicated process-specific measurement and positioning system. This unit manages the work cycle and ensures consistent process performance, while also allowing for part type identification and work program setup, all completely automatically and without the need for operator intervention.



PROCESS CONTROL

The NC package's hardware can be Fagor or Siemens, and includes motors, drives, and machine management peripherals. Digital technology always includes free remote diagnostics, allowing us to be at your side without making you wait even a second. Industry 4.0 has never been so close!



LOADING AUTOMATION



The integrated automatic part loading and unloading system feeds the workstation, picking up finished parts and loading rough parts, while the machine performs grinding at the other station, all simultaneously and in real time. The loader is able to identify the part type, family, and part number for further verification and automatically provides all the data for machine production and productivity statistics.

ERGONOMICS AND ACCESSIBILITY

Ergonomics have been designed to intelligently facilitate all operations required for use, maintenance, and programming. Indeed, we have the ability to rotate and move the CNC display along the entire length of the machine for easy access to the work area that requires the most attention.



CUSTOMER CARE



All these new features complement Sagitech's traditional features. These include a natural granite base, reduced axis height thanks to the use of magnetic linear motors, and, last but not least, the complete elimination of hydraulic power units, further enhancing the machine's eco-friendliness.

HISTORY

SAGITECH was born in Alessandria in 2015 providing technological support in the sector of cylindrical grinding machines. In 2021 it expands with a new operating form and becomes part of a group of companies all operating in the sector of cylindrical grinding machines and special applications. In addition to Sagitech, the group also includes FEF di Concorezzo (www.fefrettificatrici.com) and the company MAR (www.mar.sm). As part of group synergies, SAGITECH operates mainly in the sector of cylindrical grinding machines for turn-key production with high-speed tools and for automotive industries, FEF manufactures customer-specific vertical and tangential grinding machines and MAR covers with its range both internal and external grinding machines with tools conventional. The strategic location of the 3 structures allows a wide territorial coverage that is responsive to market demands.

THE STRATEGY

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

THE TEAM

The team is made up of highly specialized expert technicians who deal with design, construction, revision / re-engineering, and technical assistance of cylindrical grinding machines. SAGITECH strongly believes in value of people, and each of our employees is constantly trained by more experienced technicians to create a cohesive and autonomous group in their skills. Each individual employee, with their own acquired experience, allows SAGITECH to operate on each specific sector of machines, both in the mechanical, electronic and software sectors.

HEADQUARTERS

About 1,500 square meters are allocated to the production area, divided into several areas used for specialized assembly and a tool room equipped with the machine tools necessary to carry out the most important and delicate processes. A large automated spare parts warehouse to meet the needs of our customers and an office area modern and functional for designers, commercial and administrative, complete the location.

CIRCULAR ECONOMY
VALUE DURABLE
INNOVATION
EXCEPTIONAL COMPETENCES
PEOPLE, NOT NUMBERS



📍 Via Luigi Einaudi, 61 – 15121 Alessandria - AL - Italy (I)

☎ +39 0131 033890

✉ info.sagitech@sagitechsrsls.it



www.sagitechsrsls.it

www.instagram.com/sagitech_srl/

