

# SAGITECH

## CYLINDRICAL GRINDING MACHINES

TFLEX

PASSION FOR GRINDING



UNIVERSAL FOR EVERY NEEDS

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## 'IDENTITY CARD'

TIFLEX is a cylindrical grinding machine for external or internal diameters with a mobile table, modular in size and suitable for machining pieces up to 1,000, 1,500 or 2,000 mm. in length and a rotating diameter of 360 or 460 mm.

## TECNICAL FEATURES

### GENERAL

Max grinding length	1000	1500	2000	mm.
Centers height	180 / 230*			mm.
Max rotating diameters	360 / 460*			mm.
Max loading between centers	200 / 300*			kg.
Max cantilevered loading	150 / 250*			kg.
Machine heavy	8000	8500	9000	kg.

### AXIS "X"

Stroke	420	mm.
Max speed	12	m/min.
Resolution	0,0001	mm.
Standard measuring system	optical line	

### AXIS "Z"

Stroke	1330	1830	2330	mm.
Max speed	12			m/min.
Resolution	0,0001			mm.
Standard measuring system	optical line			

### WORKHEAD TORQUE UNIVERSAL

Inner taper	5 / 6*	Morse
External taper	5 / 6*	ASA
RPM Max	1100	rpm
Torque to the spindle	80 / 120*	Nm.
Standard measuring system	encoder	

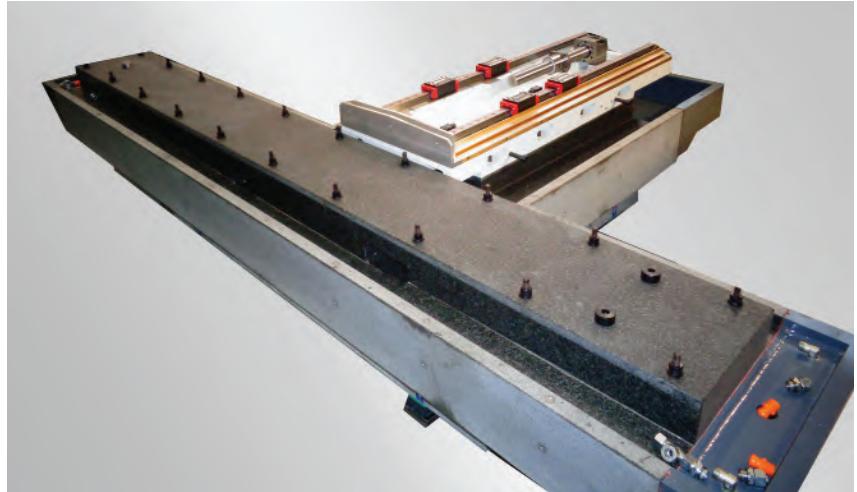
### UNIVERSAL TAILSTOCK

Spindle Diameter	60 / 80*	mm.
Stroke	60 / 120*	mm.
Internal taper	4 / 5*	Morse
Max pushing power	85 (spring) / 300 (Hydraulic)*	kg.
Taper correction	+ / - 0,15	mm.

\*Option

## IL BLOCCO DI PARTENZA

The **TFLEX** base is made from a block of natural granite, worked in Italy with the same precision as the best test benches. Only by starting from here can we obtain the best precision and durability over time.



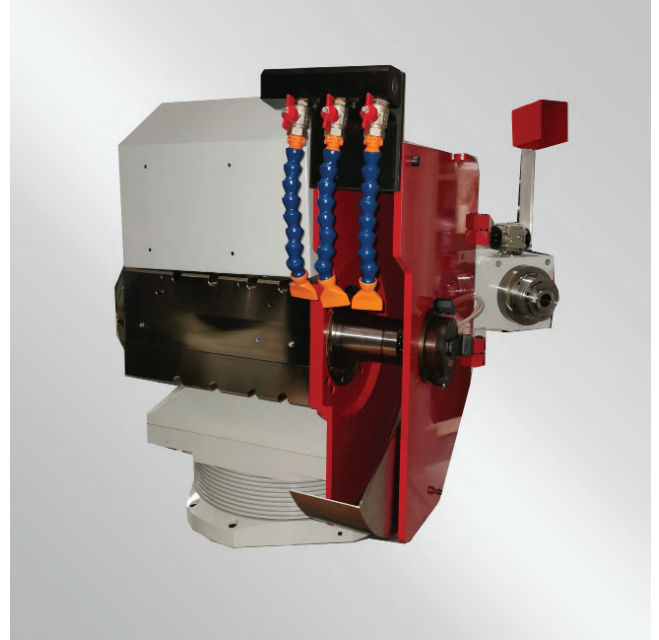
## RETTIFICA MODULARE



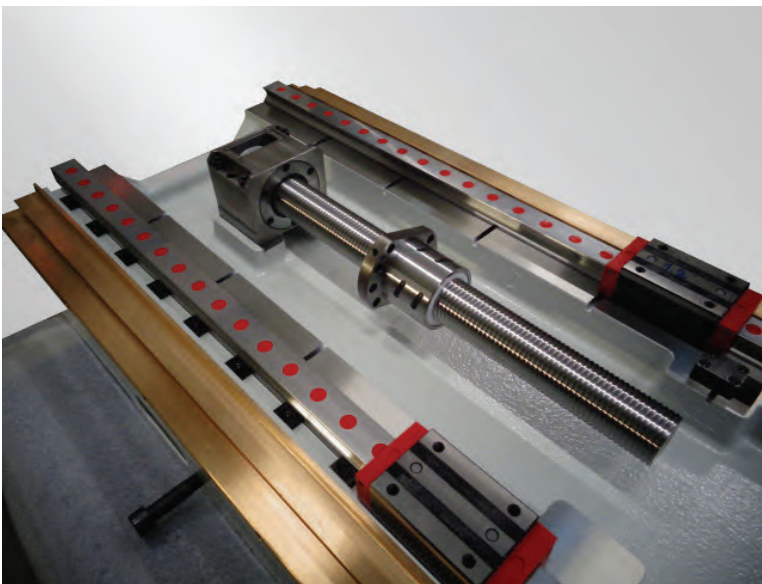
3 length sizes available (1000 -1500 - 2000) to realize all your projects. In each version the base is amply sized to accommodate all **TFLEX** configurations.

## FLEXIBLE WHEEL HEAD

The grinding wheel axis is equipped with a Torque rotating turret with micrometric angular movement. It could be equipped by internal and external tools for complex machining and particular profiles.



## LINEAR OR BALL SCREW



Both the transverse (X) axis and the longitudinal (Z) axis can be equipped with a brushless motor coupled to a ball screw or with linear motors controlled by an absolute optical scale. Support groups are in place for use of the customer's preferred system.

## WORK HEAD

**TFLEX** was born with a universal Torque workhead with integrated angular position control. This allows continuous positioning of the spindle to tackle all possible processes. The two available heights (180 and 230 mm.) allow the rotation of pieces up to 460 mm. in diameter and 150 kg cantilevered.



## TAILSTOCK ALL-IN-ONE

The tailstock unit has everything you need: controlled movement manually by lever or automatically by pedal; pushing on the piece adjustable by spring or hydraulic. The cylindricity adjustment of the pieces is done with a practical front knob equipped with an optical scale.

The movement of the group along the fixed bench takes place via a rack which facilitates the operator in setup operations.





## CNC CONTROL UNIT

The hardware of the CN package can be Fagor or Siemens, and includes motors, drives and peripherals of machine management. Digital technology always integrates free remote diagnosis, so as to allow us to be at your side without making you wait even a second. Industry 4.0 is not has never been so close!



## SAGITECH INTERFACE SFW



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

To use **TFLEX** you need exactly your mechanical skills. Furthermore, with the touch screen interface of the **SAGITECH** software, programming the work cycles is simple and intuitive.

## MULTIPLE OPTIONS AVAILABLE

**SAGITECH** cooperate with the most important companies in the sector to be able to provide you with all the customizations that make the difference. Whether integrated measuring systems, workpiece holding equipment or loading processes, there is room for everything on **TFLEX**.



## CUSTOMER CARE

Su **TFLEX** attention to the customer passes through several points: a pleasant and simple design, great inspectionability 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 aim of freeing the customer from complex and confusing operations. Thanks to fieldbuses and



diagnostics a on board we can communicate in real time with the customer to identify and correct any usage problems.

We also offer a scheduled maintenance service to maintain the quality of your machine over time.

## 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](http://www.fefrettificatrici.com)) and the company MAR ([www.mar.sm](http://www.mar.sm)). As part of group synergies, SAGITECH operates mainly in the sector of cylindrical grinding machines for production with high-speed tools, 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 1,900 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



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