

CERGIL INDUSTRY S.r.l.

Sede legale: Via Fieno 3 – 20123 Milano

Sede operativa e stabilimento: Via degli Artigiani 2/4 27010 Localita' Prado Cura Carpignano (Pavia)

www.cergil.it tel. 0382/ 465089 fax 0382/461468

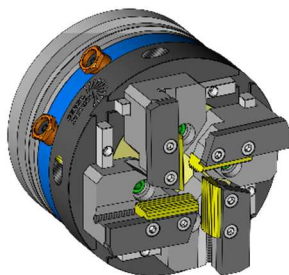
E-mail info@cergil.it

Codice fiscale e partita IVA 08295050960



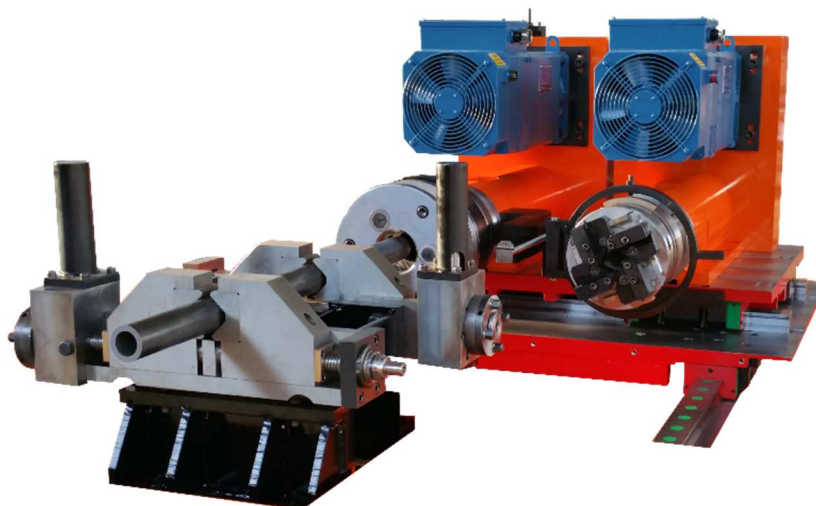
## Threading machine RB Evol

We can realize it and **evolve** it according to your production needs.



**CNC production machine** for the realization of threads by machining or deformation without rotation of the pieces to work.

**The length of the bar to be threaded is no longer a problem because that is fixed!**





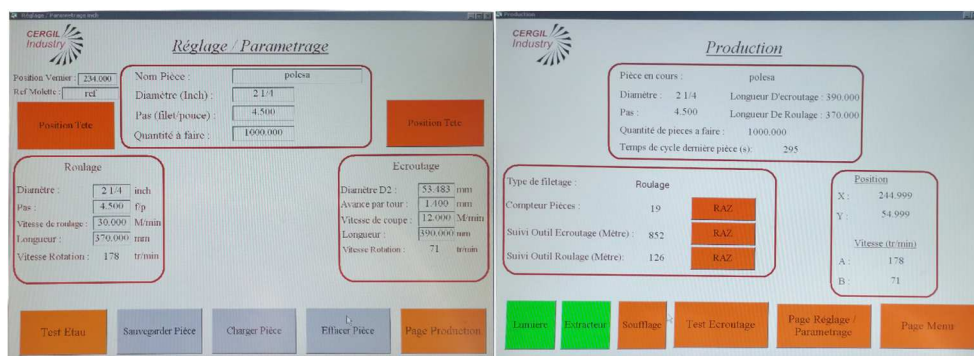
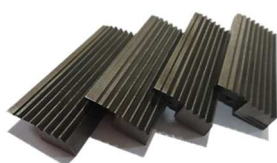
## General principles

Two work spindles on a cross-table enable the transfer of different tools to the axis of one or more self-centering clamps.

Stop of the pieces between the pins and automatic adjustment of its position depending on the length of thread to be produced.

## Human-machine Interface

The interface for the control and the management of the machine does not require programming skills.



- 4 basic languages (Italian, English, French, Spanish).
- Industrial PC Touch-Panel of 15 inches on articulated arm.
- USB port.
- Remote control of the CNC and of the automatism (by networking).
- Management of tool wear.
- Backup of manufacturing settings.
- Management of threads in inches or millimeters.
- Three levels of data protection (administrator, trimmer, operator).
- General and production counters.
- Launch of production cycle from pedal.
- Stop cycle from pedal, with rapid recovery of the production cycle.

## Possible configurations and options

- Bar turning peeling with either carbide tools or sintered steel tools with opening and closing of the peeling head (according to the choice of model and mark of peeling head).
- Management of the begin of the machining on the tip of the bar, in order to protect tools.
- Rolling of the bars already at pitch diameter of the thread with automatic opening and closing of the rolling head.
- Threading by cutting with tangential chasers with clearance chamfer of threads at the end of the bar.
- Turning peeling at the pitch diameter before threading and then transfer of the spindle and thread rolling.
- Three spindles.... is you that tell us your needs!



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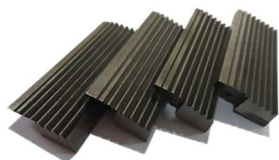
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## **Basic features**

- 2 machining spindles, 2 linear axes.
- Pneumatic clamping(s) pneumatic self-centering with a clamping force of 2 tons into 8 Bars
- Maximum machining or threading length: 400 mm.
- Maximum diameter for thread by rolling 2 ½ " 4.5 UNC.
- Maximum diameter for threading with tangential chasers: M56
- Maximum movement speed of the linear axes: 10 meters / minute
- Couples to spindle: 368 Nm to 1080 Nm depending on your achievements.
- Speed of Spindle: depending on production needs.
- CNC 4-axis or more.
- Brushless motors on linear axes.
- Planetary gear and ball screw.
- Linear roller guide on precision rail.
- Vector Engine 10 to 20 KW to spindles.
- Transmission and reduction by toothed belt width 90 mm.
- Opening and closing of the heads by pneumatic cylinder.
- Pneumatic clamping of the machining tables (if needed).
- Lubricant pump with magnetic filter.
- Carters and safeties.
- CE Machine
- Basis Weight 4500 kg
- Maximum installed power 55 KW
- Voltage 400 V 50 Hz
- Air: 8 Bars



## **Options**

- Chip Conveyor
- Tables for working and handling
- Take-off heads with carbide tools
- Rolling heads FETTE (depending of threads diameters)
- A second vise
- A work spindle more ...
- Voltage and frequency on request
- Special tools .....

