

 [®] **ALGRA**

 **SUMEC**



**QUALITY, RIGIDITY AND
RAPIDNESS WITH NO EQUAL**



THE INNOVATION THAT MAKES OUR HEART BEAT

The motorised slotter is designed to carry out machining operations on CNC lathes ranging from keyway seatings to internal or external tooth profiles.

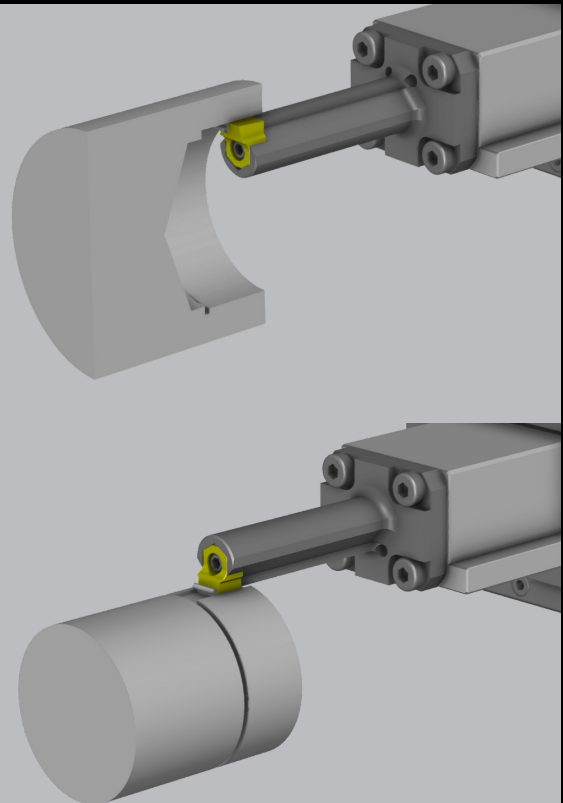
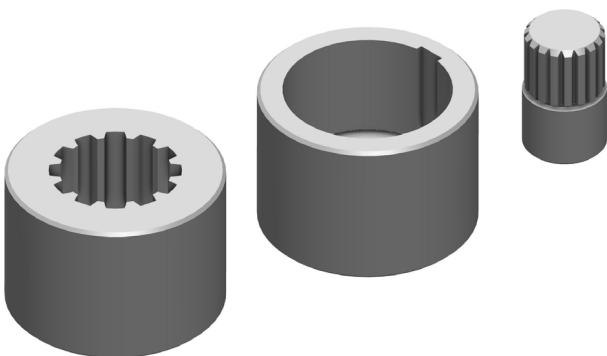
Its rigidity allows a prolonged use of the insert and an optimal finishing degree of the machined surface.

The slotter carries out both internal and external processing operations fastly and does not require the transfer of the workpiece to other machines. This leads to increased machining precision, drastic reduction of the processing times and execution of all machining operations on the same machine tool.

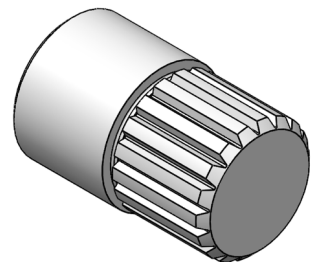
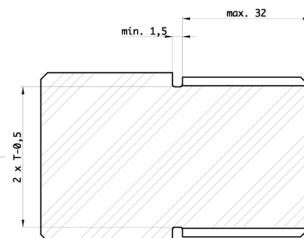
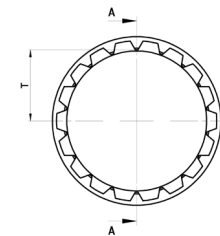
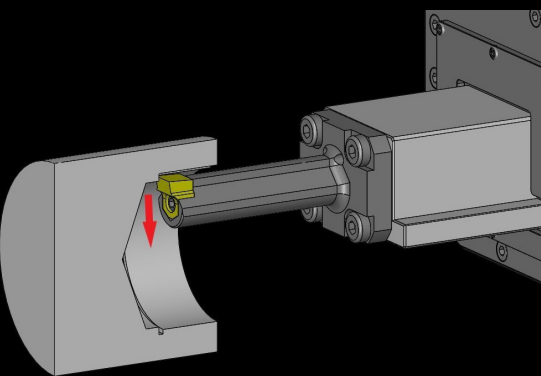
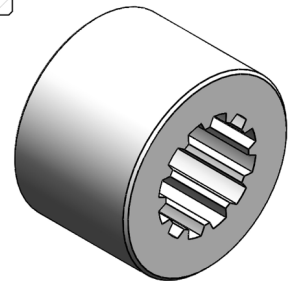
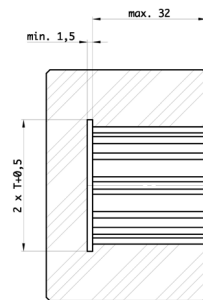
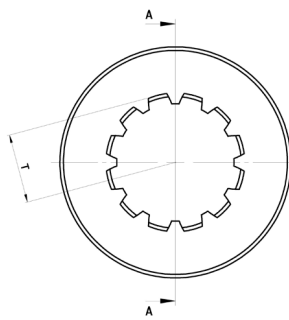
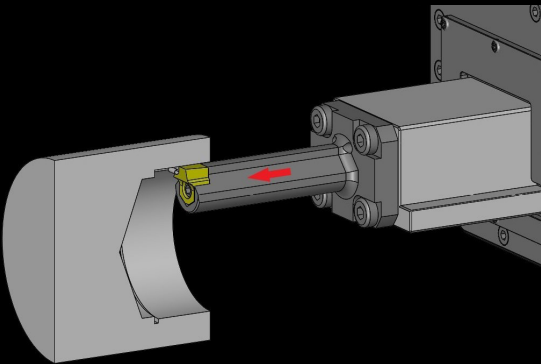
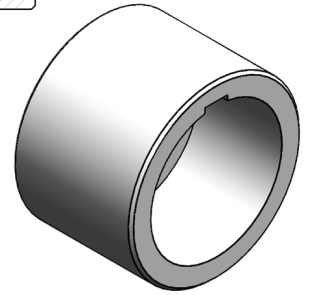
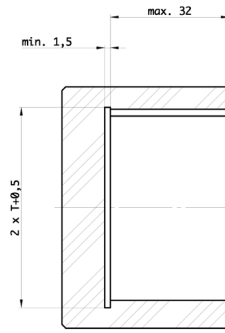
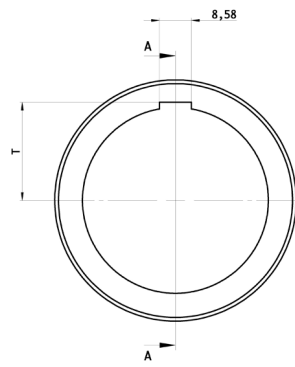
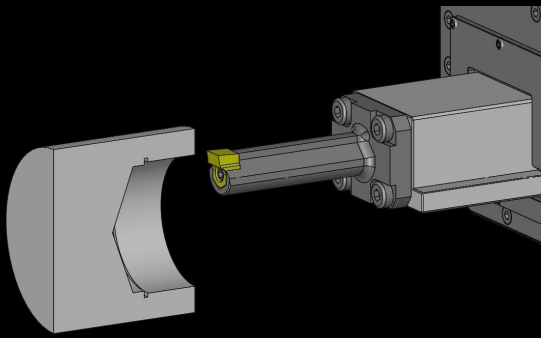
DIFFERENT MACHINING OPERATIONS

The standard machining operation that can be carried out is broaching single or multiple timed keyway or feather key seatings, on cylindrical or conical holes with or without chamfer.

In this case, a relief groove is needed. Furthermore, it is possible to manufacture PTOs as well as to execute square and hexagonal holes by using special tools.



EXAMPLES OF MACHINING OPERATIONS



Slot broaching, internal and external tothing carried out in a complete and position-oriented manner

The slot broaching device ALGRA Plus is driven by the tool holder turret of the machine.

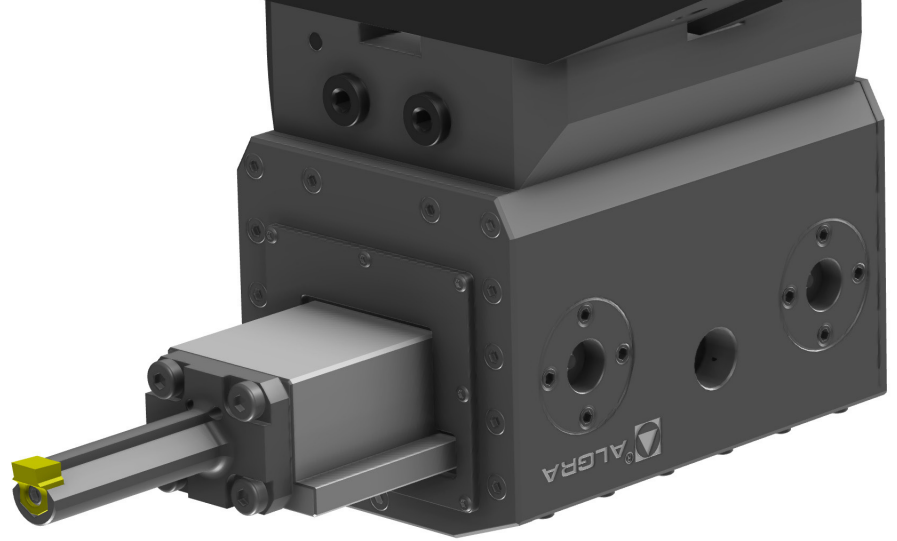
This makes programming very easy. The slotting unit is positioned in the prepared hole so that the extended piston is located in the final position on the Z-axis.

The slot depth is carried out through a constant X feed movement that varies between 0.04-0.15 mm/stroke, according to the version.

The spindle speed ranges from 400 rpm to 1.200 rpm.

A revolution corresponds to a complete stroke.

So, for example, the execution of a keyway with 6 mm width and 5 mm depth takes 7.5 seconds (800 rpm and 0.05 mm feed/revolution).

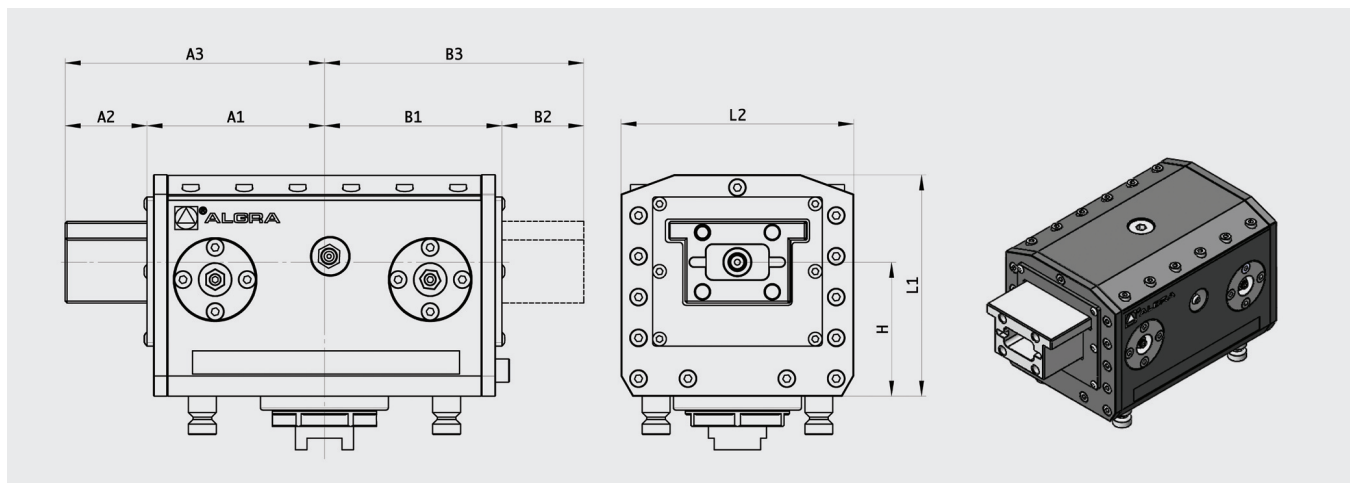


Function

- This new slotting device ALGRA Plus converts the rotary motion from the turret driving to a translatory motion with integrated lifting function during the return stroke.
- Internal or external lubrication (8 bar MAX).
- X/Y-axis regulation option.
- The manufacturing process becomes convenient from an economic, time and execution point of view, while carrying out high-tech internal and external profiles of keyways or slots.
- The slotting devices can reach up to 1200 rpm.

DIFFERENT SIZES

SLOTTER NUMBER	STROKE (mm)	A1 (mm)	A2 (mm)	A3 (mm)	B1 (mm)	B2* (mm)	B3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)
ALST-25	25	50	27	77	46	27	73	52	63	30
ALST-35	35	76	35	111	76	35	111	95	100	58
ALST-50	50	91	50	141	76	50	126	95	110	58
ALST-65	65	106	65	171	76	65	141	97	125	57.5



* Dimension to consider during machining



WE LOOK TO THE FUTURE

The revolutionary **eltimon system** (electronic live tool integrated monitoring) is designed to **real-time digitalisation of the status of toolholders**, angle heads within machining centers and motorised toolholders within CNC lathes.

- **Data storage** in the eltimon-core
- **Sinchronisation** through the eltimon-cloud
- **Analysis, trends and status** in real time
- **Maximum life cycle** for your motorised toolholders





TECHNOLOGY AND INNOVATION

Passion, curiosity and
audacity are our precision
tools

We want to keep up with the times to
achieve high levels of technology and
innovation.

We do this by using ELTIMON:
a digitalized monitoring system for
rotating tool holders.

It allows you to control in real time
the machining parameters of the tool
holder (temperature, loading cycle,
revolutions per minute), and its life cycle
(temperature, load cycle, rpm), reducing
consumption of production materials
and the frequency of bearing and gear
replacement.

**Listening to the needs of the
market allows us to “hit the
target”.**





SAFETY

Greater opportunities also come through **precise reliability**

We develop technologies to facilitate manufacturing processes and **guarantee maximum safety at work** both for the operator and the tool.

Our latest **patent for utility model VIS 1.0** reduces operational risks during the handling of tool holders.

The **locking key spindle** reduces and facilitates the set-up of the machine.



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