

AUTOMATIC SCREWING SPINDLE TYPE AZ



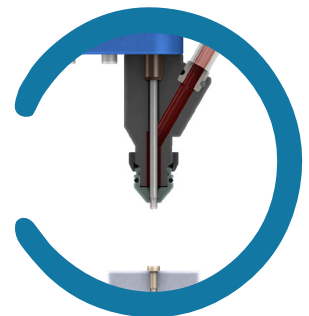
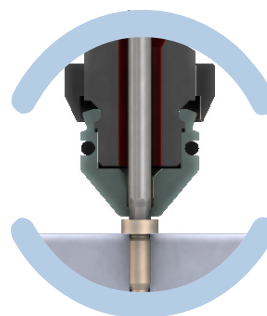
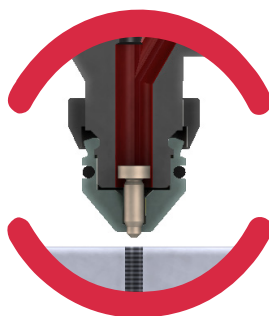
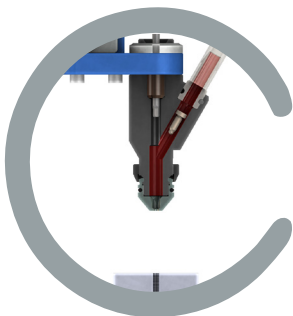
DESCRIPTION

Tecnimodern Automation's screwdriving spindles are renowned for their reliability and our technical services continue to develop them by adapting their performance to the latest technologies.

- Blade with hexagonal drive 1/4" and standard length 150 ou 200mm for a AZ 2
- Control of torque, positioning, presence of screws, etc.
- Small footprint, width of 60 mm
- Easily replaceable motor
- Management of torque or screwing depth
- Autonomous and independently regulated pneumatic feed movement
- Small footprint for access in the most difficult areas
- Automatic ejection of loose screws
- High reliability of operation
- Multi-jaw screwing nose (according to the screw : 2, 3, 4)
- Vertical, horizontal or bottom-up work
- Standard design with ISO cylinder
- Screwing capacity for workpieces with a reduced center distance of up to 40 mm (for an AZ 2)
- Easy maintenance

FUNCTIONING

- 1 *Waiting for a screw, resting position*
- 2 *Blowing a screw, mouthpiece advance*
- 3 *Screwing phase, the blade moves forward*
- 4 *Mouthpiece return (automatic ejection screw not screwed)*



MOTORIZATION VERSION

Pneumatic and electric motorization

Possibility of all types of engines :

Atlas Copco, DSM, Kolver, Deprag, Fiam, Dessouter

IMPLEMENTATION VERSION

- With pneumatic approach
- On a robot (without Z-stroke approach)
- On a cobot (with casing and weight optimization)
- On a manual assembly station
- Turntable with safety and positioning

Specificities

- ▶ Complete study of special screwdriver up to 180 Nm, stroke up to 200 mm
- ▶ Study of a complete assembly station

OPTIONS & ACCESSORIES

- Detection of the screw passage
- Control of the tightening torque
- Deep screwing : the screwing stops on a pre-determined position without contact with the head
- Equipment with your suppliers' material
- Integration of your motors
- Solutions for difficult access : screwing at the bottom of the box, at the seam edge, suction on the screwing blade
- Control of the screwing torque
- Pneumatic or electric spindle translation block
- High and low position information
- Screwing of nuts
- Independent and soundproofed vibrating bowl or balancing movement distribution unit



TYPE OF PRODUCT

Metric screw



Headless screw



Pin installation



Wood screws



Nut

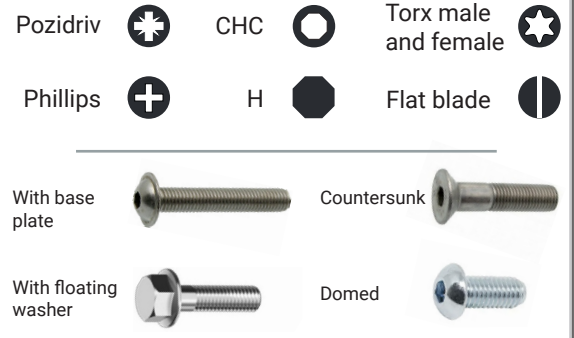


Self-tapping screw



**Screw size XXL
up to 150 mm**

FOOTPRINT TYPE



TECHNICAL CHARACTERISTICS

Range of automatic screwing spindle type AZ

	Size 0	Size 1	Size 2	Size 3	Size 4	Size 5
Cadence	Up to 50 screws/min					
Screws	M2 to M2.5	M3 to M4	M5 to M6	M8	M10	M12
Maximum length under head	20mm	30mm	30mm	50mm	60mm	80mm
Screwing torque			20 Nm	50 Nm	100 Nm	180 Nm
Rotation speed	300 to 3000 t/mn (according couple)					
Power supply	220 Volts single-phase 50hz / 6 bars					

We continue to produce our historical range of Titanium Screwdriver Spindles

