escomatic D₃/D₆ CNC **3 TURNING TOOLS FOR MORE PRODUCTIVITY AND FLEXIBILITY**



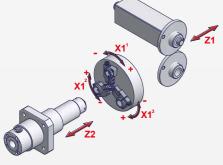
The escomatic concept

Unlike conventional lathes, escomatic lathes are based on a unique concept. The material, which is coil stock or bar, does not rotate. The cutting tools mounted onto the spinning tool head rotate around the material. This concept equally qualified for the manufacturing of small, medium and large lot size parts, contributes to the extremely high performance and cost savings achieved with escomatic machines.

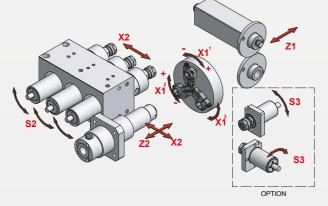
Very high profitability thanks to:

- Unrivaled productivity of the escomatic principle
- Very short turning times thanks to the proximity of tools
- 24 hours production facilitated by coil feeding
- No lost time due to bar loading
- Man-hour gain in material feeding
- Limited waist of material ends
- Low maintenance costs

Kinematics D3



Kinematics D6



TECHNICAL DATA

Turning		
Maximum part diameter	4	mm
Standard workpiece length	80	mm
Number of cutting tools	3	
Max. tool head speed	12'000	min-1
Material feed rate	8	m/m
	-	1,
Redressage		
Straightening unit		
Maximum straightening length	80	mm
Rotation speed of straightening unit	600-3'400	min-1
		1
D3 CNC		
Counter collet unit		
Over gripping counter collet	yes	
Counter collet unit mobile	option	
		1
D6 CNC		
Front machining unit DUF		
Axial powered spindle	3	
Radial powered spindle	option	
Max. drilling speed	18'000	t/min
Max. drilling diameter	3	mm
Max. drilling length	20	mm
Max. tapping/threading diameter	M3	
Max. tapping/threading speed	6'000	t/min
Back machining unit DUAL		
Axial powered spindle	1	
Max. drilling speed	18'000	t/min
Max. drilling diameter	3.5	mm
Max. drilling length	20	mm
Max. tapping/threading diameter	M3	
Radial powered spindle	1	
Max. speed	18'000	t/min
Max. drilling diameter	3.5	mm
Technical features		
Coolant/cutting fluid	oil	
Tank capacity	70	1
Flow rate of the pump	n	l/min
Max. system pressure	10	bar
Chips container capacity	20	1
Installed Power	4	kVA
Compressed air consumtion	7	m³/h
Compressed air pressure	5	bar
Dimensions & weight		
•	1′360 x 750 x 1′560	
Length x Width x Height L x W x H with coil reel	2'400 x 1'000 x 1'560	mm
	850	mm
Net weight Groce weight	1'050	kg
Gross weigth		kg

Modifications reserved





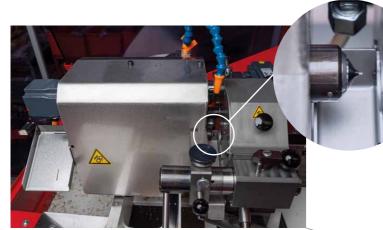
escomatic D₃/D₆ CNC



PRODUCTIVITY AND FLEXIBILITY OF THE CNC

escomatic D₃/D₆ CNC **3 TURNING TOOLS** FOR MORE PRODUCTIVITY AND FLEXIBILITY

escomatic by ESCO SA



D3 CNC MOBILE COUNTER COLLET

Before cutting off of the finished part from the stock material, the work piece is clamped by the counter collet. After cut-off the part is pushed by the following work piece across the counter collet and ejected into a container.



D6 CNC **DEVICE OF FRONTAL MACHINING (DUF)**

The counter collet of the machine D2 has been replaced by a system for the front machining which consists of a cross table with 2 axes supporting: 2 drilling spindles, 1 threading / tapping spindle and 1 counter collet with programmable positioning.

While the material is held by a guide bush, the turning and chip removal is performed by the unique escoma tic principle. This consists of having the cutting tools rotating around the material with a speed up to 12'000 rpm. When cutting off, the counter collet holds the machined part for a perfect flatness and a cutoff tip free end.

> The new tool head 3 is extended reliability. The tools can be controlled individually. Different types of guide bushes can be mounted, the tool holders remain identical for the all-D machine series.

D6 CNC **DEVICE OF BACK MACHINING** (OPTION DUAL)

For the back machining unit, in counter operations, 1 axial spindle and 1 cross spindle are standard. Optionally, a vertically mounted spindle could be mounted for milling.



MATERIAL FEEDING

The material is clamped between a set of grooved rollers and their rotation controls the feeding. The clamping pressure is adjustable and the grooves have the shape of the wire. With this principle and the closeness of the guide bush, very small wire can be machined without bending or whipping (down to 0.30 mm).

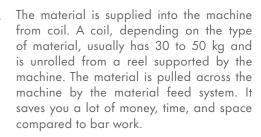


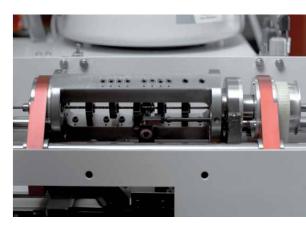
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TURNING



MATERIAL FEED





MATERIAL STRAIGHTENING

The material is fed into the machine from a coil which becomes bar stock after the straightening process. It produces a bar with a straightness quality equivalent to standard bar stock.

