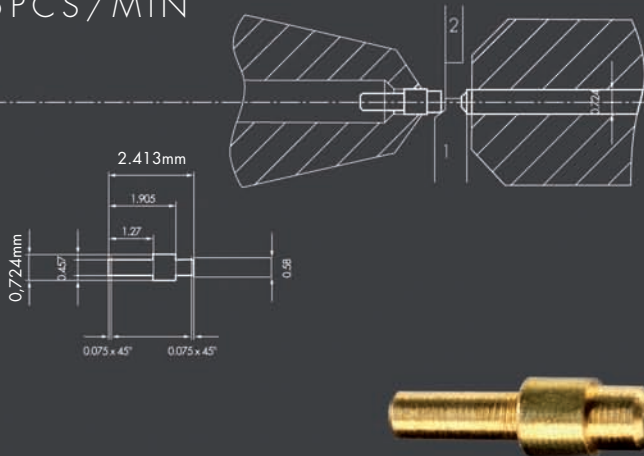




escomatic **D2** CNC

65 PCS / MIN

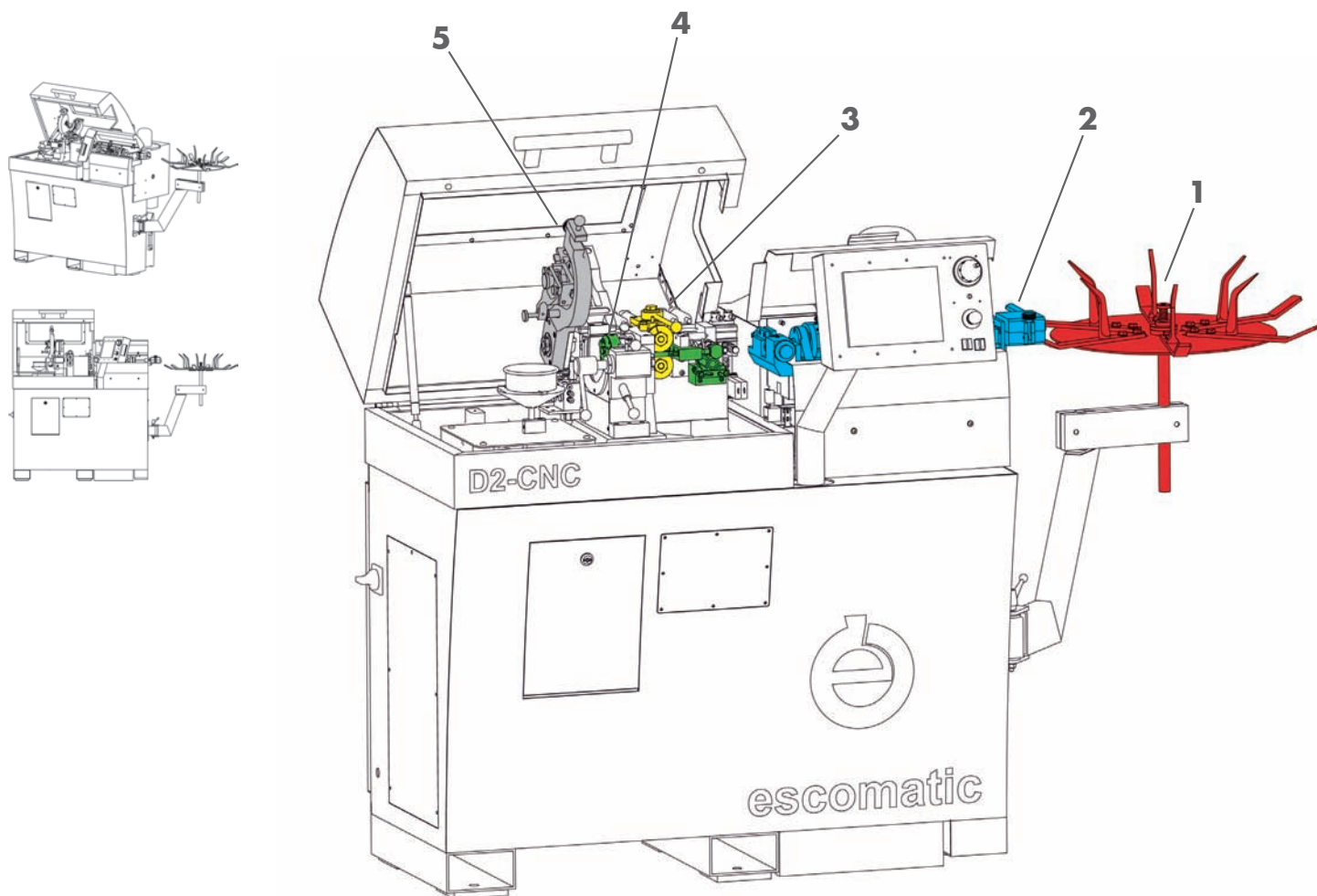


THE LEGEND WITHOUT CAM
AT 100 PCS / MIN.

escomatic CONCEPT

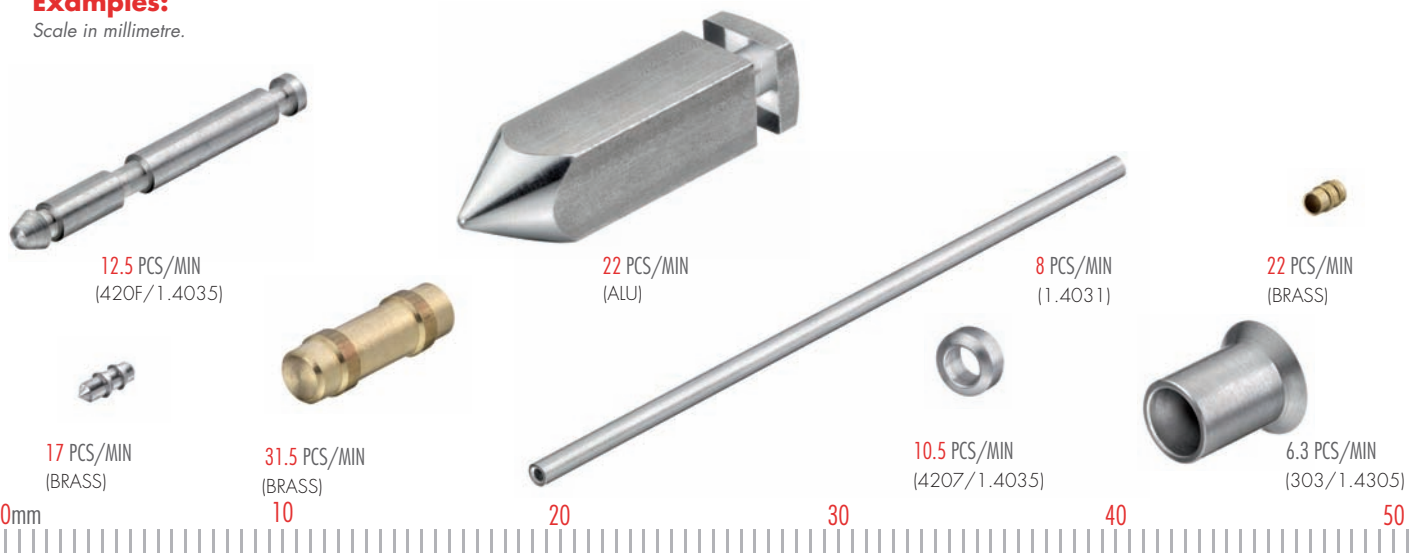
escomatic.ch

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.



Examples:

Scale in millimetre.



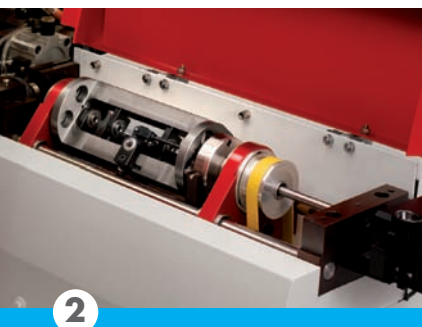
escomatic D2 CNC:

THE LEGEND WITHOUT CAMS AT 100 PCS/MIN.



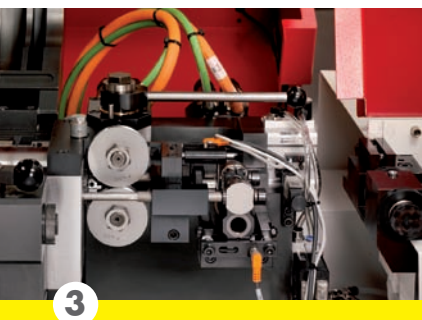
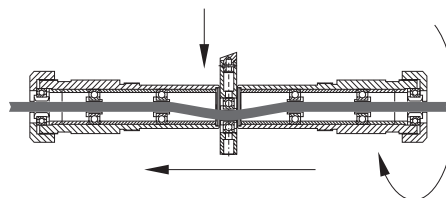
MATERIAL FEED

The material is supplied into the machine from coil. A coil, depending on the type of material, usually has 30 to 50 kg and is unrolled from a reel supported by the machine. The material is pulled across the machine by the material feed system.



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.



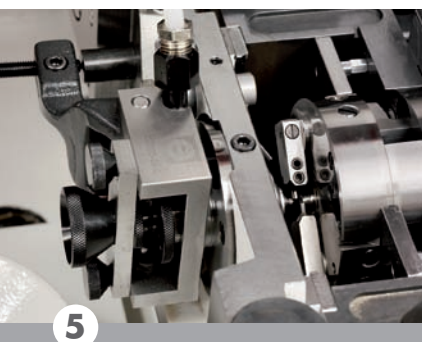
MATERIAL FEEDING

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).



TURNING

While the material is held by a guide bush, the turning and chip removal is performed by the unique escomatic 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 cut-off tip free end.



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 small container.

escomatic D2 CNC:

THE LEGEND WITHOUT CAMS



The **escomatic D2 CNC** is the revolutionary and innovative evolution of the fastest automatic turning machine for precise and economic manufacturing of simple parts up to 4.0 mm diameter in large and small lot sizes. The D2 with CNC control allows for flexible optimized manufacturing of turned parts without cycle time loss. The advantages of cam driven machines are maintained. The set up and the operation are much easier due to the absence of cams and change over from one part to the other is simple and very fast. Thanks to the menu guided CNC control, turning speeds, feed rates and cutting speeds are freely programmable. Due to evolution and innovative solutions in the tool head, speeds up to 12'000 RPM and enhanced precision are possible. The result is a significant improvement in the quality of the parts produced, both in meeting tolerances and in surface finish without the loss of time and the cost for cam calculation and manufacturing.

Application Profile:

- Parts with very high production
- Turning operations with two cutting tools
- Safe 24 hours production
- Material diameter up to 4.0mm
- Simple, precise parts
- Large and small batch sizes
- Machining from coil

Features:

- Proven escomatic technology with menu guided CNC control system (no cams necessary any more)
- Menu guided programming / set up and quick process adaptation
- Escomatic standard tools from older tooling sets can be used
- Tool head speed up to 12'000 RPM
- Fast cycles and short machining times at enhanced precision
- Optimized price / performance ratio for the production of small parts
- Reduction of labour costs due to fewer machine stops by using material from coil, real 24h operation
- Economy of floor space due to compact design of the unit „machine & coil stand“

TECHNICAL DATA

Turning:

Maximum part diameter	4	mm
Maximum workpiece length	80	mm
Number of cutting tools	2	
Max. tool head speed	12'000	min-1
D2 tooling can be used		
Material feed rate (Z1)	8	m/min
D2 centering microscope compatible		

Straightening:

D2 Straightening unit		
Straightening Speed	35	min-1
Rotation speed of straightening unit	600 - 3400	min-1

Technical features:

Coolant / cutting fluid	Oil	
Tank capacity	70	liter
Flow rate of the pump	7	l/min
Max. system pressure	4,5	bar
Chips container capacity	15	liter
Installed Power	4	kVA
Compressed air consumption	7	m ³ /h
Compressed air pressure	5	bar

Dimensions & weight:

Length x Width x Height	1350 x 770 x 1380	mm
L x W x H with coil reel	2200 x 770 x 1380	mm
Net weight	850	kg
Gross weight	1050	kg

Modifications reserved

Representation:

