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Fully automatic cutting system RSO-400N

## Cost-effective assembly of medium- to large-sized workpieces



The RSO-400N automates the assembly of linear guide rails, spindles, pipes and other bar materials using the wet cutting process. High-performance drive technology, intelligent cutting strategies and automated workpiece feeding ensure high process reliability and reproducible results.

This allows you to increase your productivity, reduce manual intervention and ensure consistently high cutting quality.



View of the interior of the cutting chamber:  
Clamping device with cutting disc

### Your benefits at a glance:

- + **High cutting performance**  
thanks to a powerful main drive (10 kW)
- + **Efficient and flexible oscillating cut**  
up to 120 mm cutting width thanks to individually adjustable stroke and continuously variable speed
- + **Automatic cutting disc measurement**  
using a waveguide
- + **Secure workpiece clamping**  
using a pneumatic parallel clamping device
- + **Continuous operation without downtime**  
thanks to automated workpiece feeding
- + **Reliable machining**  
thanks to the thread-cutting function
- + **Additional cutting methods**  
in addition to oscillating cutting
- + **Optimized cooling of the cutting zone**  
through an additional coolant supply via the chilled clamping
- + **High repeatability**  
thanks to programmable cutting programs
- + **Optimized cutting quality and longer tool life**  
thanks to freely adjustable pulse cutting (amplitude and frequency)

## Technical details:

<b>Main drive power</b>	10 kW, optional 15 kW
<b>Max. cutting disc diameter</b>	400 mm
<b>Bore diameter of the cutting disc</b>	32/40 mm
<b>Disc flange diameter</b>	120 mm
<b>Continuously variable cutting speed</b>	30–63 m/sec
<b>Cutting Disc Feed</b>	Servo-controlled electric cylinder
<b>Processing axis cutting unit</b>	Servo-controlled
<b>Max. travel distance of the cutting unit</b>	120 mm
<b>Continuously adjustable oscillation stroke</b>	40–80 mm
<b>Continuously adjustable maximum oscillation speed</b>	80 mm/sec
<b>Workpiece clamping</b>	pneumatic parallel alignment device
<b>2 clamping cylinders</b>	individually controlled, with pressure monitoring
<b>Clamping pressure</b>	continuously adjustable
<b>Chilled clamping</b>	interchangeable for extended clamping ranges
<b>Clamping range</b>	3–80 mm / 33–110 mm

### Optional:

- Inlets and outlets in customer-specified lengths and orientations
- Loading/buffer systems
- Inclined bed loader with separation
- Centrifugal separator for extracting coolant mist from the machine (mounted on the machine roof)
- Magnetic filter or belt magnetic filter unit
- Machine integration into EMS systems
- QR code reader
- Camera systems
- Additional monitoring and automation systems

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