

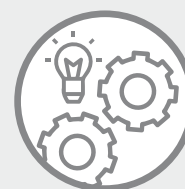
**SAMPAS**

**SILVERCUT**

*PRECISION CUTTING MACHINES*



# *Product catalogue*



# SAMPAS SILVERCUT

Special purpose and production machines for wet and dry cut-off

Special purpose machines for test cuts and metallography

QUALITY  
MADE  
IN GERMANY

Special machines  
for your production

VERY LARGE  
PARTING SPACE

For more than 45 years SilverCut is a reliable partner in the field of cutting technology. In Mosbach special and production machines are developed and built for the assembly of guides, tubes, spindles, implants, etc. as well as special machines for test cuts and metallography.

SilverCut machines impress through minimal set-up times, easy operation, clean cuts and adaptability to customer-specific requirements.

To date, there are more than 2,800 SilverCut systems successfully in use. That speaks for itself.

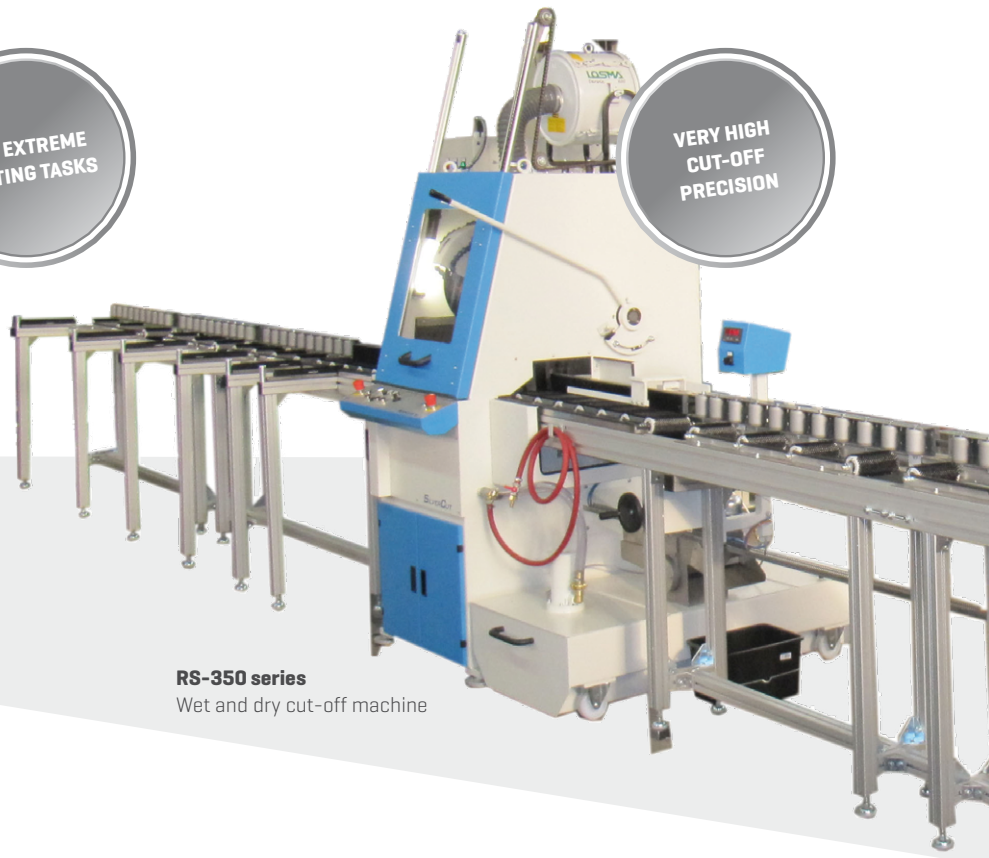


**VN-300 series**  
Table cut-off machines





**CN-432 series**  
Partial or fully automatic parting system  
for wet cut-off grinding procedure



**RS-350 series**  
Wet and dry cut-off machine

## OUR SERVICES – YOUR BENEFITS:

- + Individual cutting wheel selection
- + Intelligent clamping means
- + On-site consulting
- + Extensive reference portfolio
- + Large vertical range of manufacture
- + Design of special purpose machines  
according to customer-specific  
requirements
- + Adaptation to existing  
manufacturing processes
- + Extensive accessories portfolio

The machines shown here are only a small excerpt from our extensive product portfolio. If you have any questions or require further information, please do not hesitate to contact us. We are happy to create a tailor-made offer to you. Sample part processing or demonstrations with your parts in our technical centre are possible at any time. Please do not hesitate to contact us for a personalised conversation at your site.

### METALLOGRAPHY

In the field of destructive material testing we offer wet cutting machines for cutting hardened steel, ceramic and composite materials.

Large cross sections can be reliably separated by the different cut-off modes. With the product range in the areas of polishing, embedding and hardness testing we offer the complete spectrum of metallography.

Special clamping devices, special workpiece holders and special solutions in the area of metallographic parting technology are possible as well.

All machines with CE label are in accordance with VDE and UVV directives.



## Good reasons for ...



- + **More than 45 years** of experience in the field of separation technology
- + **Tailor-made machines:** Development of individual solutions and adaptability to customer-specific requirements
- + **Broad product range** of laboratory and precision cutting machines
- + Combination of **solid mechanical engineering** and the **latest control technology**
- + **Fast, efficient and safe processing** of different material, **minimum set-up times and clean cuts**
- + **Test lab** is always available for tests and demonstrations with customer workpieces
- + **Certified** to ISO 9001: 2015
- + **Service and remote maintenance**
- + **Synergy effects** (assembly, design, software, commissioning) through integration into the Pütz Group



- + Established in 1988, approximately 90 employees
- + Many years of industrial experience
- + Central capital base / local flexibility with the greatest degree of freedom and responsibility



### Processing of different materials:

High-strength steels  
Composite materials  
Glass fibre materials  
Carbide  
Casting  
Stainless steel  
Aluminum  
and many more ...



### Our portfolio:

Cutting machines  
Investment casting  
High performance cutting machines (wet and dry)  
Machines for metallographic test cuttings  
Machines for the steel and tube industry

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## Compact tabletop cutting machine – series CN-205 M



This compact tabletop cutting machine of the **series CN-205** has a large workload area. All machines have a sturdy welded design made of powder coated steel. To be used for Corundum-, Rubber-, Diamond- or CBN-cutting wheels.



### CN-205 M

*Handlever cutting machine  
with fixed table.*

### CN-205 M2

*Handlever cutting machine  
with cross table.*



All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### Characteristics:

- + **1 Big workload area** with hood and macrolon window
  - + **2 Integrated water box** V= 16 l, Pump 10 l/min
  - + **3 Hand lever with clamping** for longitudinal cut
  - + **4 Compact control panel with automatic voltage detection** 230/380/400/460 V–50/60 Hz
  - + **5 Side openings for bar material**
  - + **6 Corrosion protected aluminium T-slot table** W x L = 210 x 210 mm; CN-205 M2 cross table equipped with stainless steel labyrinth
- Optional:**  
Infinitely variable speed control, collection basket for small parts, different clamping devices, cutting wheels

Compact tabletop cutting machine – series CN-205 M

**Technical details:**

	CN-205 M	CN-205 M2
<b>Main drive</b>	1.5 kW	1.5 kW
<b>Max. cutting wheel size</b>	200 x 1.5 x 25.4 mm	200 x 1.5 x 25.4 mm
<b>Cutting speed fix</b>	4,300 1/min 45 m/s	4,300 1/min 45 m/s
<b>Cutting speed variable*</b>	2,400 – 4,800 1/min 25 – 60 m/s	2,400 – 4,800 1/min 25 – 60 m/s
<b>T-Slot table</b>	<b>Width x Depth</b> 210 x 210 mm <b>5 T-Slots</b> 8 mm DIN 650	210 x 210 mm 8 mm DIN 650
<b>Z-axis-cutting wheel adjustable by hand lever</b>	200 mm	200 mm
<b>X-axis-longitudinal table adjustable by hand wheel</b>	–	220 mm
<b>Y-axis-cross table adjustable by hand wheel</b>	–	40 mm
<b>Max. Clamping (Width x Height x Depth)</b>	200 x 300 x 200 mm	200 x 300 x 200 mm
<b>Coolant pump</b>	10 l/min	10 l/min
<b>Water box</b>	approx. 16 l	approx. 16 l
<b>Interior lighting 24 VDC</b>	LED 5 W	LED 5 W
<b>Machine dimension with hood closed (Width x Height x Depth)</b>	745 x 1015 x 650 mm	745 x 1015 x 650 mm
<b>Weight</b>	115 kg	115 kg
<b>Electrical connections</b>	1.8 kW / 16 A	1.8 kW / 16 A

\*optional

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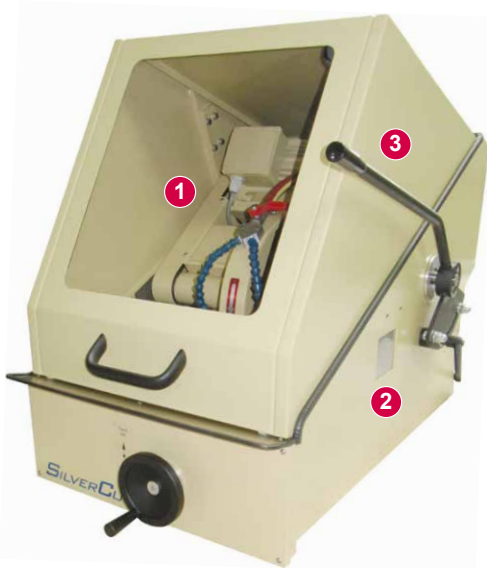
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## Tabletop cutting machine with a very big inside space – series VN-300 M

The machines of the **Series VN-300 M** are built with a very big inside space. The machine stand is sturdy machine design, all machines are completely powder coated. To be used for Corundum-, Rubber-, Diamond- or CBN-cutting wheels.



### VN-300 M

*Hand lever machine with fixed table.*

### VN-300 M2

*Hand lever machine with longitudinal- and cross table.*



All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### Characteristics:

- + **1 Big workload area** with hood and macrolon window
- + **Main power drive 4,0 kW**
- + **Max. cutting wheel diameter 300 mm**
- + **2 Side openings for bar material**
- + **3 Hand lever with clamping** for longitudinal cut

- + **External, mobile water tank with dirt filter**  
V = 80 l, special design with mist filter
- + **4 Compact control panel with automatic voltage detection**  
230/380/400/  
460 V–50/60 Hz
- + **Corrosion protected aluminium T-slot table**  
W x L = 350 x 250 mm;  
VN-300 M2 cross table equipped with stainless steel labyrinth

#### Optional:

- Infinitely variable speed control
- Laser device
- Collection basket for small parts
- Base cabinet
- Belt filter and magnetic filter
- Mist filter
- Side movement with scale wheel
- Different clamping devices
- Cutting wheels

**Tabletop cutting machine with a very big inside space – series VN-300 M**

**Technical details:**

	<b>VN-300 M</b>	<b>VN-300 M2</b>
<b>Main drive with electronic brake</b>	4.0 kW	4.0 kW
<b>Max. cutting wheel size</b>	300 x 2.8 x 32 mm	300 x 2.8 x 32 mm
<b>Circumferential fixed speed</b>	2,865 1/min 45 m/s	45 m/s
<b>Circumferential variable speed*</b>	1,590 – 3,200 1/min 25 – 63 m/s	25 – 70 m/s
<b>T-Slots Machine table</b>	<b>Width x Depth</b> 350 x 250 mm 14 mm DIN 650	<b>Width x Depth</b> 350 x 250 mm 14 mm DIN 650
<b>5 T-slots</b>		
<b>Z-axis-cutting wheel shift by hand lever</b>	200 mm	200 mm
<b>X-axis-longitudinal table of machine shift by servo-axis by hand wheel</b>	–	285 mm
<b>Y-axis-longitudinal table of machine shift by hand wheel</b>	–	40 mm
<b>Max. material dimension (Width x Height x Depth)</b>	350 x 300 x 350 mm	350 x 300 x 350 mm
<b>Coolant pump</b>	50 l/min	50 l/min
<b>water box</b>	approx. 80 l	approx. 80 l
<b>Interior lighting 24 VDC</b>	LED 7 W	LED 7 W
<b>Machine dimension with hood closed (Width x Height x Depth)</b>	778 x 1,560 x 850 mm	778 x 1,560 x 850 mm
<b>Weight</b>	225 kg	225 kg
<b>Electrical supply data</b>	4.5 kW / 16 A	4.5 kW / 16 A

\*optional

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## Wet cutting machines for small and medium sized workpieces – series VN-300 A



The wet cutting machines in **Series VN-300 A** are characterised by their very large cutting area. All machines are designed in powder-coated welded structure. To be used for Corundum-, Rubber-, Diamond- or CBN-cutting discs.



### VN-300 A1

*Wet cutting machine for small and medium-sized workpieces with lift top, cutting disk adjustment with hand lever.*

### VN-300 A2

*Wet cutting machine for small and medium-sized workpieces with lift top, cutting disk adjustment using servo axis.*

All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### Characteristics:

- + Low-maintenance, long-life servo drives, stageless regulation
- + Clamping table with manual cross travel (Y-axis)
- + Fixed table
- + Side openings to insert longer workpieces
- + Chop, longitudinal and oscillation cut
- + Easy operation using touch display up to 10 programmes storable per cutting mode

### Optional:

- Magnetic filter or belt magnetic filter unit
- Laser display of the cutting line, infeed and outlet and removal units
- Clamping equipment and side feed opening for long parts
- Base cabinet, infinitely variable speed control

Wet cutting machines for small and medium sized workpieces – series VN-300 A

**Technical details:**

	VN-300 A1	VN-300 A2
Main motor 400 V, 50 Hz, 3-phase rotary current	4.0 kW	4.0 kW
Max. cutting disc size	300 x 2.5 x 32 mm	300 x 2.5 x 32 mm
Circumferential speed fixed	45 m/s	45 m/s
Circumferential speed variable*	25 – 70 m/s	25 – 70 m/s
Clamping surface table	Width x Depth 5 T-slots	
	350 x 250 mm 14 mm DIN 650	350 x 250 mm 14 mm DIN 650
Z-axis-cutting disk adjustment	Hand lever 200 mm	Servo axis 200 mm
X-axis-longitudinal machine table adjustment using servo axis	285 mm	285 mm
Y-axis-cross machine table adjustment using hand lever	40 mm	40 mm
Coolant pump	25 l/min	25 l/min
Coolant container	approx. 80 l	approx. 80 l
Interior lighting 24VDC	LED 9 W	LED 9 W
Machine dimension with hood closed (Width x Height x Depth)	1,000 x 800 x 1,000 mm	1,000 x 800 x 1,000 mm
Weight	280 kg	280 kg
Electrical connections 230/400 V, 50 Hz	4.6 kW / 16 A	4.6 kW / 16 A

\*optional

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## Fully automatic cutting system with manual workpiece infeed and outlet – series VN-300 Z



Fully automatic cutting system **series VN-300 Z** with manual workpiece infeed and outlet.

*Suitable for the trimming of:*

- Hard metal bars with a length of up to 300 mm and a diameter of 30 mm
- Pipes and other bar materials in wet cutting mode



*Prism clamping*

All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### Characteristics:

+ **Digital measuring unit** for stageless length measurement

+ **Clamping device** with two parallel vices

+ **Prism clamping** with 2 pneumatic swing clamps and digital workpiece arrester

+ **Adjustable 3-zone cutting area**

#### Optional:

- Magnetic filter or belt magnetic filter unit
- Laser display of the cutting line, infeed and outlet and removal units
- Openings for longer parts
- Base cabinet, infinitely variable speed control

Fully automatic cutting system with manual workpiece infeed and outlet – series VN-300 Z

## Technical details:

		VN-300 Z
Main motor 400 V, 50 Hz, 3-phase rotary current		4.0 kW
Max. cutting wheel size		300 x 2.5 x 32 mm
Circumferential speed fixed		45 m/s
Circumferential speed variable*		25 – 70 m/s
Clamping surface table	Width x Depth 7 T-slots	350 x 250 mm 14 mm DIN 650
Z-axis-cutting wheel adjustment using servo axis		200 mm
X-axis-longitudinal machine table adjustment using servo axis		285 mm
Y-axis-cross machine table adjustment using hand wheel		40 mm
Coolant pump		25 l/min
Water box		approx. 80 l
Interior lighting 24 VDC		LED 9 W
Machine dimension with hood closed (Width x Height x Depth)		1,000 x 800 x 1,000 mm
Weight		280 kg
Electrical connections 230/400 V, 50 Hz		4.6 kW / 16 A

\*optional

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## Manual wet cutting system – series MN-350 M



The machines of the **series MN-350 M** are built with a big inside space.



- 1 With side openings for long material.
- 2 Mobile water tank with dirt filter.

### **MN-350 M**

*Hand lever machine with longitudinal shift (x-axis).*

### **MN-350 M2**

*Hand lever machine, with manual lowering of the cutting wheel by hand lever and by hand wheel of y-axis and x-axis. Chop- and longitudinal cutting possible.*



*Big inside space with long axes movement.  
Alu-table for good corrosion resistance.*

All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### **Characteristics:**

- + Sturdy, welded machine design
- + Machine completely powder coated
- + Main drive 7.5 kW
- + Max. dimension cutting wheel Ø 350 mm
- + Table with longitudinal X-axis movement
- + Chop- and longitudinal cutting possible
- + Side openings for long material

#### **Optional:**

- Laser indicating of cutting line
- Collection basket for small parts
- Band or magnetic filter
- Side movement by hand wheel
- Centrifugal separator
- Different clamping devices
- Cutting wheels



Manual wet cutting system – series MN-350 M

## Technical details:

	MN-350 M	MN-350 M2
Main drive 400 V, 50 Hz, 3 Phases current	7.5 kW	7.5 kW
Max. cutting wheel size	350 x 3.0 x 32 mm	350 x 3.0 x 32 mm
Circumferential fixed speed	45 m/s	45 m/s
Circumferential variable speed*	15 – 70 m/s	15 – 70 m/s
Tool table Width x Depth 5 T-slots	400 x 400 mm 14 mm DIN 650	400 x 400 mm 14 mm DIN 650
Z-axis-cutting wheel shift by hand lever	255 mm	255 mm
X-axis-longitudinal table of machine shift by hand wheel	Fixed table	400 mm
Y-axis-cross table of machine shift by hand wheel	Fixed table	100 mm
Coolant pump	64 l/min	64 l/min
Water box	approx. 115 l	approx. 115 l
Interior lighting 24 VDC	24 V – LED 9 W	24 V – LED 7 W
Machine dimension with operating display (Width x Height x Depth)	820 x 1,810 x 1,560 mm	820 x 1,810 x 1,560 mm
Weight	650 kg	680 kg
Electrical connections	9.5 kW / 32 A	9.5 kW / 32 A

\*optional

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## Semi-automatic or fully automatic wet cutting machine – series MN-350 A



Semi-automatic or fully automatic wet cutting machines of the series **MN-350 A1-A3** are designed with a very sturdy way.



- 1 Operating interface with joysticks and touchscreen panel for all servo axes.
- 2 Big inside space with extremely long movement of the table and of the cutting wheel.
- 3 Mobile water tank with dirt filter, inside machine stand or at side. Optional with magnetic filter.

### **MN-350 A1**

Hand lever machine with servo driven x-axis and manual y-cross axis. For automatically longitudinal and pulse cutting.

### **MN-350 A2**

Fully automated machine with servo driven x-axis and manual y-cross axis and servo driven z-axis. Automatically longitudinal-, puls- and oscillation cutting.

### **MN-350 A3**

Additionally with servo driven cross-axis movement (y-axis).

All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

## Characteristics:

- + Control panel with touchscreen display and joystick for all servo axes
- + Fixed table with T-slots
- + Wet parting mechanism, special clamping device
- + Swiveling worktable
- + Laser for positioning the table to the cutting wheel

- + Lateral feedthroughs left and right
- + Automatic crop cut and pulse cut function
- + Integrated water box V= 100 l, pump 60 l/min
- + Drive power 7.5 kW
- + Max. cutting wheels Ø 350 mm

### Optional:

- Infinitely variable speed control
- Laser device
- Collection basket for small parts
- Band or magnetic filter, filter bag holder
- Centrifugal separator
- Different clamping devices
- Cutting wheels

**Semi-automatic or fully automatic wet cutting machine – series MN-350 A**

**Technical details:**

	<b>MN-350 A1</b>	<b>MN-350 A2</b>	<b>MN-350 A3</b>
<b>Main drive 400 V, 50 Hz, 3 Phases current</b>	7.5 kW	7.5 kW	7.5 kW
<b>Max. cutting wheel size</b>	350 x 3.0 x 32 mm	350 x 3.0 x 32 mm	350 x 3.0 x 32 mm
<b>Circumferential fixed speed</b>	45 m/s	45 m/s	45 m/s
<b>Circumferential variable speed*</b>	25 – 63 m/s	25 – 63 m/s	25 – 63 m/s
<b>Tool table</b> <b>Width x Depth</b> <b>5 T-slots</b>	400 x 400 mm 14 mm DIN 650	400 x 400 mm 14 mm DIN 650	400 x 400 mm 14 mm DIN 650
<b>Z-axis-cutting wheel</b>	Hand lever 255 mm	Hand lever 255 mm	Servo axis 255 mm
<b>X-axis-longitudinal table of machine</b>	Servo axis 400 mm	Servo axis 400 mm	Servo axis 400 mm
<b>Y-axis-cross table of machine</b>	Hand wheel 100 mm	Hand wheel 100 mm	Servo axis 100 mm
<b>Rate of feed</b>	0.05 – 9.9 mm/s	0.05 – 9.9 mm/s	0.05 – 9.9 mm/s
<b>Greatest speed – rapid traverse</b>	85 mm/s	85 mm/s	85 mm/s
<b>Coolant pump</b>	60 l/min	60 l/min	60 l/min
<b>Water box</b>	approx. 100 l	approx. 100 l	approx. 100 l
<b>Interior lighting 24 VDC</b>	24 V – LED 7 W	24 V – LED 7 W	24 V – LED 7 W
<b>Machine dimension with operating display (Width x Height x Depth)</b>	820 x 1,810 x 1,560 mm	820 x 1,810 x 1,560 mm	820 x 1,810 x 1,560 mm
<b>Weight</b>	620 kg	650 kg	680 kg
<b>Electrical connections</b>	9.5 kW / 32 A	9.5 kW / 32 A	9.5 kW / 32 A

\*optional

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## Test cut parting machine – series MN-350 A1



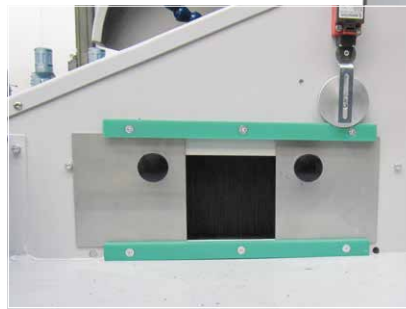
**MN-350 A1** test parting machines are designed for cutting hardened or partially hardened workpieces.

The process is carried out either by manual feed or partially or fully automated.

With chop and cut function.



Special clamping device



Lateral passage left or right



All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### Characteristics:

- + Control panel with touchscreen display and joystick for all servo axes
- + Fixed table with T-slots
- + Wet parting mechanism, special clamping device
- + Swiveling worktable
- + Laser for positioning the table to the cutting wheel

- + Lateral feedthroughs left and right
- + Automatic crop cut and pulse cut function
- + Integrated water box V= 100 l, pump 60 l/min
- + Drive power 7.5 kW
- + Max. cutting wheels Ø 350 mm

#### Optional:

- Infinitely variable speed control
- Laser device
- Collection basket for small parts
- Band or magnetic filter, filter bag holder
- Centrifugal separator
- Different clamping devices
- Cutting wheels

Test cut parting machine – series MN-350 A1

## Technical details:

		MN-350 A1
Main motor 400 V, 50 Hz, 3-phase		7.5 kW
Cutting wheel size	min.	250 x 2.0 x 32 mm
	max.	350 x 3.5 x 32 mm
Circumferential speed fixed		–
Circumferential speed variable*		25 – 63 m/s
Tool table	Width with cross table	400 mm
	Depth	400 mm
	5 T-slots	14 mm DIN 650
Height middle cutting wheel over table		420 mm
Cutting wheel height adjustment via servo drive		320 mm
Fixed table with special clamping device		–
Table transverse travel manually with hand wheel		–
Rate of feed		0.05 – 6 mm/s
Lowest speed		0.05 mm/s
Greatest speed – rapid traverse		85 mm/s
Coolant pump		60 l/min
Water box		approx. 100 l
Interior lighting 24 VDC		LED 7 W
Dimensions of machine without installation elements*	Height	1,810 mm
	Width	1,284 mm
	Depth	1,560 mm
Weight		620 kg
Electrical connections 230/400 V, 50 Hz		8 kW / 32 A

\*optional

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## Semi-automatic or fully automatic wet cutting machine – series MN-400 A



The series MN-400 A1-A3 is characterized by a sturdy construction.



- 1 Control panel with touchscreen display and joysticks for all servo axes.
- 2 Big inside space with extremely long movement of the table and of the cutting wheel.
- 3 Mobile water tank with integrated screen for coarse dirt, inside or at side of the machine.

### MN-400 A1

Hand lever machine with cross table (longitudinal: servo-controlled; cross: manual). Automatically longitudinal and puls cutting.

### MN-400 A2

Full-automatic machine with servo controlled longitudinal and lowering of cutting wheel; manual cross movement. Automatically longitudinal, chop cut; pulse cut and oscillation cut.

### MN-400 A3

Additional with servo driven cross table movement.

All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### Characteristics:

- + Sturdy, welded machine design
- + Machine completely powder coated
- + Main drive 10 kW
- + Max. dimension cutting wheel Ø 400 mm

- + Movement of axes stepless by joystick
- + Storable cutting programs
- + All servo-axes with full-automatic speed control
- + Side openings for long material

#### Optional:

- Infinitely variable speed control
- Laser device
- Collection basket for small parts
- Band or magnetic filter, filter bag holder
- Centrifugal separator
- Different clamping devices
- Cutting wheels

**Semi-automatic or fully automatic wet cutting machine – series MN-400 A**

**Technical details:**

	<b>MN-400 A1</b>	<b>MN-400 A2</b>	<b>MN-400 A3</b>
<b>Main drive 400 V, 50 Hz, 3 Phases current</b>	10 kW	10 kW	10 kW
<b>Max. cutting wheel size</b>	400 x 4.0 x 32 mm	400 x 4.0 x 32 mm	400 x 4.0 x 32 mm
<b>Circumferential fixed speed</b>	45 m/s	45 m/s	45 m/s
<b>Circumferential variable speed*</b>	25 – 63 m/s	25 – 63 m/s	25 – 63 m/s
<b>Tool table</b> <b>Width x Depth</b> <b>6 T-slots</b>	450 x 400 mm 14 mm DIN 650	450 x 400 mm 14 mm DIN 650	450 x 400 mm 14 mm DIN 650
<b>Z-axis-cutting wheel</b>	Hand lever 250 mm	Servo axis 250 mm	Servo axis 250 mm
<b>X-axis-longitudinal table of machine</b>	Servo axis 430 mm	Servo axis 430 mm	Servo axis 430 mm
<b>Y-axis-cross table of machine</b>	Hand wheel 100 mm	Hand wheel 100 mm	Servo axis 100 mm
<b>Rate of feed</b>	0.1 – 9.9 mm/s	0.1 – 9.9 mm/s	0.1 – 9.9 mm/s
<b>Greatest speed – rapid traverse</b>	85 mm/s	85 mm/s	85 mm/s
<b>Coolant pump</b>	60 l/min	60 l/min	60 l/min
<b>Water box</b>	approx. 115 l	approx. 115 l	approx. 120 l
<b>Interior lighting 24 VDC</b>	24 V – LED 7 W	24 V – LED 7 W	24 V – LED 7 W
<b>Machine dimension with operating display (Width x Height x Depth)</b>	975 x 1,850 x 1,750 mm	975 x 1,850 x 1,750 mm	975 x 1,850 x 1,750 mm
<b>Weight</b>	950 kg	950 kg	980 kg
<b>Electrical connections</b>	11.5 kW / 32 A	11.5 kW / 32 A	11.5 kW / 32 A

\*optional

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## Semi-automatic or fully automatic wet cutting machine – series CN-432 A



The series CN-432 A1-A3 is able to fulfill extreme cutting tasks owed to its huge motor capacity.

### Optional:

- Infinitely variable speed control
- Laser device
- Collection basket for small parts
- Band or magnetic filter, filter bag holder
- With magnetic filter: water tank outside of the machine left
- Different clamping devices
- Cutting wheels



### CN-432 A1

Hand lever machine with cross table (longitudinal: servocontrolled; cross: manual). For automatically longitudinal and pulse cutting.

### CN-432 A2

Fully automatic machine with servo-controlled longitudinal and cutting wheel movement; manual cross movement. Automatic: chop cut, pulse cut, oscillation cut.

### CN-432 A3

Additionally with servo driven cross-axis movement (y-axis).



1 Control panel with touchscreen display and joysticks for all servo axes. Clearly arranged operating soft touch with preselection of the cutting program.

2 Big inside space with extremely long movement of the table and of the cutting wheel.

All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

## Characteristics:

- + Sturdy, welded machine design
- + Machine completely powder coated
- + Main drive 18.5 kW
- + Max. dimension cutting wheel Ø 432 mm
- + Movement of axes stepless by joystick
- + Storable cutting programs
- + All servo axes with full-automatic speed control
- + Mobile water box with integrated screen for coarse dirt, inside or at side of the machine
- + Hand lever with push button, to fix the cutting wheel position for longitudinal cutting
- + Cutting longitudinal up to 625 mm
- + Side openings for long material

Semi-automatic or fully automatic wet cutting machine – series CN-432 A

## Technical details:

	CN-432 A1	CN-432 A2	CN-432 A3
<b>Main drive 400 V, 50 Hz, 3 Phases current</b>	18.5 kW	18.5 kW	18.5 kW
<b>Max. cutting wheel size</b>	432 x 3.5 x 32 mm	432 x 3.5 x 32 mm	432 x 3.5 x 32 mm
<b>Circumferential fixed speed</b>	25 – 70 m/s	25 – 70 m/s	25 – 70 m/s
<b>Circumferential variable speed*</b>	25 – 63 m/s	25 – 63 m/s	25 – 63 m/s
<b>Tool table</b> <b>Width x Depth</b> <b>5 T-slots</b>	480 x 450 mm 14 mm DIN 650	480 x 450 mm 14 mm DIN 650	480 x 450 mm 14 mm DIN 650
<b>Z-axis-cutting wheel</b>	Hand lever 300 mm	Servo axis 300 mm	Servo axis 300 mm
<b>X-axis-longitudinal table of machine</b>	Servo axis 625 mm	Servo axis 625 mm	Servo axis 625 mm
<b>Y-axis-cross table of machine</b>	Hand wheel 120 mm	Hand wheel 120 mm	Servo axis 120 mm
<b>Rate of feed</b>	0,1 – 9,9 mm/s	0,1 – 9,9 mm/s	0,1 – 9,9 mm/s
<b>Greatest speed – rapid traverse</b>	85 mm/s	85 mm/s	85 mm/s
<b>Coolant pump</b>	64 l/min	64 l/min	64 l/min
<b>Water box</b>	approx. 150 l	approx. 150 l	approx. 150 l
<b>Interior lighting 24 VDC</b>	24 V – LED 11 W	24 V – LED 11 W	24 V – LED 11 W
<b>Machine dimension with operating display (Width x Height x Depth)</b>	2,030 x 1,880 x 1,750 mm	2,030 x 1,880 x 1,750 mm	2,030 x 1,880 x 1,750 mm
<b>Weight</b>	1,150 kg	1,180 kg	1,180 kg
<b>Electrical connections</b>	22 kW / 64 A	22 kW / 64 A	22 kW / 64 A

\*optional

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## Fixed wet cutting machine for medium and large workpieces – series CN-500/600



The **CN-500/600 series** is able to fulfill extreme cutting tasks because of its huge motor capacity.



All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### Characteristics:

- + Sturdy, welded machine design
- + Huge sliding door, completely powder coated
- + Main drive 18,5 kW – 30 kW
- + Max. dimension cutting wheel Ø 500/600 mm
- + Movement of axes stepless by joystick
- + Storable cutting programs
- + Low maintenance, long life hydraulic gears
- + Loading by crane possible
- + Chop cut, longitudinal cut, oscillation cut

### Optional:

- Magnetic filter or belt filter
- Laser indicating of cutting line
- Centrifugal separator
- Different clamping devices



Fixed wet cutting machine for medium and large workpieces – series CN-500/600

## Technical details:

	CN-500	CN-600
Main drive 400 V, 50 Hz, 3 Phases current	18.5 kW	30 kW
Max. cutting wheel size	500 x 5.0 x 32 mm	600 x 5.0 x 32 mm
Circumferential fixed speed	45 m/s	45 m/s
Circumferential variable speed*	25 – 65 m/s	25 – 65 m/s
Table with T-slots	Width x Depth 5 T-slots	800 x 600 mm 14 mm DIN 650
Z-axis-cutting wheel adjustment by hydraulic cylinder	Z-axis: 380 mm X-axis: 450 mm Y-axis: 150 mm	Z-axis: 440 mm X-axis: 600 mm Y-axis: 200 mm
Rate of feed	0.1 – 6,0 mm/s	0.1 – 6,0 mm/s
Greatest speed – rapid traverse	120 mm/s	120 mm/s
Oscillation speed	0.1 – 2,0 mm/s	0.1 – 2,0 mm/s
Coolant pump (including bed flushing)*	100 l/min	100 l/min
Water box	approx. 170 l	approx. 170 l
Machine dimension (Width x Height x Depth)	1,850 x 2,060 x 2,000 mm	2,950 x 2,200 x 1,950 mm
Weight	1,850 kg	3,500 kg
Electrical connections 230/400 V, 50 Hz	20,5 kW / 63 A	34 kW / 80 A

\*optional

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## Wet and dry cut-off machine – series RS-350



The stable **RS-350 series** cut-off machines are characterised by their high cutting accuracy. All machines are constructed in powder-coated welded design. Suitable for Corundum-, Rubber-, Diamond- or CBN-cutting wheels.



### **RS-350N**

*Hand lever  
wet cut-off machine*

### **RS-350T**

*Hand lever  
dry cut-off machine*

### **RS-350N Servo**

*Servo wet cut-off machine*



*Magnetic filter*

All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### Characteristics:

- + **Infinitely variable speed control**
- + **Max. cutting wheel Ø 350 mm**
- + **Pneumatic workpiece clamping**  
(2-hand safety control)  
in manual mode

- + **Positioning of cutting wheel using hand lever or servo axis**
- + **Chop cutting function**
- + **Circulating cooling system on the machine side**  
V=170 l / 100 l/min.

#### **Optional for RS-350N:**

- Magnetic filter (100 l/min) for filtering out magnetic dusts
- Band filter (RWS 120–400 V/50 Hz) for filtering out non-ferritic dusts
- Centrifugal separator for suction of the coolant mist from the machine (mounting on machine roof)

Wet and dry cut-off machine – series RS-350

**Technical details:**

	RS-350N	RS-350T	RS-350N Servo
<b>Drive power</b>	7.5 kW 380/400 V – 50 Hz	7.5 kW 380/400 V – 50 Hz	7.5 kW 380/400 V – 50 Hz
<b>Workpiece cutting precision</b>	± 0,2 mm	± 0,2 mm	± 0,2 mm
<b>Threaded spindles and shafts</b>	max. Ø 63 mm	max. Ø 63 mm	max. Ø 63 mm
<b>Guide rails and flat material (max.)</b>	60 x 60 mm	25 x 25 mm	60 x 60 mm
<b>Cutting wheel diameter</b>	max. 350 mm v = 45 m/s	max. 350 mm v = 45 m/s	max. 350 mm v = 45 m/s
<b>Z-axis-cutting wheel</b>	Hand lever	Hand lever	Servo axis
<b>Machine control</b>	Siemens PLC	Siemens PLC	Siemens PLC and touch display
<b>Cut-off mode</b>	Manual chop cut	Manual chop cut, optional servo	Automatic chop and pulse cut
<b>Circulation cooling system</b>	At the side of the machine V = 120 l / 40 l/min	separate suction necessary	At the side of the machine V = 120 l / 40 l/min
<b>Max. clamping range, adjustable clamping pressure</b>	80 mm	80 mm	80 mm
<b>Machine dimensions (Width x Height x Depth)</b>	1,050 x 1,275 x 1,830 mm	1,050 x 1,010 x 1,830 mm	1,050 x 1,275 x 1,830 mm
<b>Wight</b>	650 kg	680 kg	700 kg

\*optional

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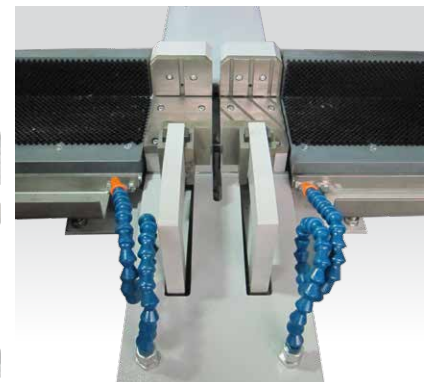


## Fully automatic sectional cutting system – series RSP-400 N

This machine of the **series RSP-400 N** is suitable for fully automatic sectioning of guiding rails, ball screw shafts, spindles, tubes and various other bar stock materials with wet cutting.



Control panel with touch Display and joysticks for all servo axes of the cutting wheel.



Double-sided material clamping of the cut, right and left.

All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### Characteristics:

- + Pneumatic equalized clamping unit
- + Automated part feed
- + Automatic first cut on threads
- + Pendulum cut function
- + Chilled clamping unit
- + 99 cutting memories
- + Pulsed cut adjustable in amplitude / frequency
- + Brush pads for scratch-free movements

Fully automatic sectional cutting system – series RSP-400 N

## Technical details:

	RSP-400 N
Main drive 400 V, 50 Hz, 3 Phases current	10 kW / optional 15 kW
Min. cutting wheel size	350 mm
Max. cutting wheel size	400 mm
Circumferential variable speed*	25 – 60 m/s
Clamping Distance	130 mm
Workable distance Z-axis, servo-driven	445 mm
Pneumatic clamping, chilled clamping fingers	min. 5.0 bar max. 6.0 bar
Output coolant system capacity 120 l	64 l/min optical 100 l/min incl. bed flushing
Workpiece dimensions	Customer dependent Diameter up to Ø 80 mm Flat material 60 x 60 mm
Workpiece infeed	Servo-driven or manually
Min. length workpieces	20 mm
Measuring distance	1,000 – 8,500 mm (customer dependent)
Interior lighting	1 x 7 W
Size of system (Height x Width x Depth)	2,815 x 850 x 1,500 mm
Weight machine	980 kg
Weight infeed conveyer	380 kg
Weight discharge conveyer	250 kg
Weight control cabinet	280 kg
Pneumatic supply data	R ¼" – min. 5 bar
Electrical connections 230 / 380-400 V, 50 / 60 Hz	63 A

\*optional

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## Wet cut-off machine – series TNA-500



The stable **TNA-500 series** cut-off machines are characterised by their high cutting accuracy. All machines are supplied as a powder-coated welded construction. To be used for Corundum-, Rubber-, Diamond- or CBN-cutting wheels.

### TNA-500

Wet cut-off machine with fixed table,  
max. cutting wheel Ø 500 mm



- 1 Magnetic filter (100 l/min) for filtering out magnetic dusts.  
Alternative: Band filter (RWS 120–400 V/50Hz)  
for filtering out non-ferritic dusts
- 2 Centrifugal separator for suction of the coolant mist from the machine (mounting on machine roof).



All the machines in this series are certified with the CE mark in accordance with EC guideline 2006/42EG.

### Characteristics:

- + Infinitely variable speed control
  - + Automatic cutting wheel balancing
  - + Hydraulic workpiece clamping in manual mode (2-hand safety control)
  - + Max. dimension cutting wheel Ø 500 mm
  - + Positioning of the cutting wheel using hydraulic measuring cylinders
  - + Pendulum cut option
  - + Thread cut function
  - + On the machine side circulating cooling system with V= 170 l / 100 l/min.
  - + Swivel control panel with touchscreen control
  - + 99 cutting programs can be stored
- Optional:  
- Magnetic filter or belt magnetic filter unit  
- Centrifugal separator



Wet cut-off machine – series TNA-500

## Technical details:

	TNA-500
Drive power	22.0 kW 380/400 V – 50 Hz
Workpiece cutting precision	± 0.2 mm
Threaded spindles and shafts (max.)	Ø 120 mm
Guide rails and flat material (max.)	100 x 100 mm
Cutting wheel diameter	max. 500 mm v = 20 – 60 m/s
Clamping range (max.) adjustable clamping pressure	140 mm
Machine dimension with operating display (Width x Height x Depth)	1,750 x 2,885 x 1,725 mm
Weight	1,600 kg

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