Coolant cleaning unit

Description:
Suitable to clean cooling oils for carbide grinding.

Specifications:
Capacity 800 l, volumetric flow rate 80 - 100 l/min., filter unit: larger than 0.003 mm, connected load approx. 4.0 kW (400 volts / 50 Hz), dimensions w x d x h = 1650 x 1000 x 2000 mm, weight approx. 1.000 kg, colour grey.

Accessories:
2 filter towers,
automatic back flushing,

Coolant cleaning unit

Description:
Suitable to clean cooling oils for carbide grinding.

Specifications:
Capacity 1500 l, volumetric flow rate 150 - 180 l/min., filter unit: larger than 0.003 mm, connected load approx. 9.0 kW (400 volts / 50 Hz), dimensions approx. w x d x h = 2300 x 1200 x 1650 mm, weight approx. 1400 kg, colour grey.

Accessories:
3 filter towers,
avtomatic backflushing,
Coolant cleaning unit

**Article no.:** M01201  **Machine no.:** -

**Made by:** Transor  **Model:** 12290-800 A

**Year:** 2005  **Category:** Coolant Cleaning Systems

**Description:**
Suitable to clean cooling oils for carbide grinding.

**Specifications:**
Capacity 800 l, volumetric flow rate 80 - 100 l/min., filter unit: larger than 0.003 mm, connected load approx. 4.0 kW (400 volts / 50 Hz), dimensions w x d x h = 1650 x 1000 x 1370 mm, weight approx. 500 kg, colour grey.

**Accessories:**
2 filter towers
automatic back flushing

Coolant cleaning unit

**Article no.:** M01075  **Machine no.:** -

**Made by:** Transor  **Model:** 12290-800 A

**Year:** 2001  **Category:** Coolant Cleaning Systems

**Description:**
Suitable to clean cooling oils for carbide grinding.

**Specifications:**
Capacity 800 l, volumetric flow rate 80 - 100 l/min., filter unit: larger than 0.003 mm, connected load approx. 4.0 kW (400 volts / 50 Hz), dimensions w x d x h = 1650 x 1000 x 2000 mm, weight approx. 1.000 kg, colour grey.

**Accessories:**
2 filter towers
automatic back flushing
Coolant cleaning unit

**Description:**
Suitable to clean cooling oils for grinding carbide.

**Specifications:**
Capacity ca. 500 l, volumetric flow rate ca 50 - 70 l/min., filter unit > 0.003 mm, connected load approx 400 volts / 50 Hz, dimensions w x d x h = 1210 x 1000 x 2100 mm, weight approx. 750 kg, colour blue.

**Accessories:**
1 filter tower,
automatic back flushing.

---

Coolant cleaning unit

**Description:**
Suitable to clean cooling oils for grinding carbide.

**Specifications:**
Capacity ca. 500 l, volumetric flow rate ca 50 - 70 l/min., filter unit > 0.003 mm, connected load approx 400 volts / 50 Hz, dimensions w x d x h = 1950 x 1000 x 1370 mm, weight approx. 400 kg, colour red.

**Accessories:**
1 filter tower
Automatic back flushing
chiller
Magnetic separator
Coolant System

**Article no.:** M01186  
**Made by:** Ulmer Maschinenteile GmbH  
**Year:** 2006  
**Model:** Compact  
**Category:** Coolant Cleaning Systems

**Description:**
Suitable for economical treatment of cooling lubricant for grinding carbide.

**Specifications:**
- Electrostatic air filter with 1800 m³/h suction capacity, cartridge filter 5μ, heat exchanger 3.4 kW, filter pump 150 l/min., Flow pump 133 l/min. at 6 bar, coolant tank 380 l pure oil capacity, color light gray RAL 7035.

**Accessories:**
- Mist extractor DSL
- Chiller
- Oil collecting pan

Cutting Off Machine

**Article no.:** M00962  
**Made by:** Qness  
**Year:** 2017  
**Model:** HARD CUT  
**Category:** Cut-off machines

**Description:**
Suitable to manually cut-off HSS and solid tungsten carbide tools / materials etc.

**Specifications:**
- Z Axis stroke 175 mm, Y axis stroke 140 mm, cutting wheel Ø 305 mm, speed 2900 rpm, motor rating 4 kW, connected load 400 V / 50 Hz 3kW,  
  dimensions w x d x h = 1042 x 926 x 743 mm, weight approx. 300 kg, colour grey.

**Accessories:**
- Siemens SPS-S7 Comfort control via 4” Touch-Display,  
- ASC-speed control stepless from 500-4000 rpm,  
- Z-axis control for automated cutting,  
- Y-axis manual for drive cut via hand wheel,  
- Manual control of the axes via joystick,  
- Machine cabinet,  
- Clamping stock FastFix,  
- Double prism jaws 2-60 mm,  
- Longitudinal stop with digital display 100 mm traverse,  
- Coolant tank 55 L with pump 0.37 kW.
**Disc Erosion Machine (CNC Controlled)**

<table>
<thead>
<tr>
<th>Article no.:</th>
<th>QXD 400</th>
<th>Machine no.:</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Made by:</td>
<td>Vollmer</td>
<td>Model:</td>
<td>QXD 400</td>
</tr>
<tr>
<td>Year:</td>
<td>2007</td>
<td>Category:</td>
<td>Erosion machines</td>
</tr>
</tbody>
</table>

**Description:**
CNC-controlled machine for the treatment (erosion, grinding, polishing) of PCD tipped tools up to 400 mm diameter and 400 mm length, according to disc-electrical-erosion processes for use in service and in production.

**Specifications:**
Traversing ranges: X-axis 730 mm, B-axis +/-30°, Y-axis 840 mm, Z-axis 500 mm, E-axis 330°, A-axis 360°, workhead SK50 / HSK 63A, workpiece Ø up to 400 mm, working length up to 400 mm, workpiece weight max. 15 kg, connected load 6.7 kW (400V 50Hz), dimensions w x d x h approx. 2160 x 3435 x 2190 mm, weight 7800 kg, colour cover RAL 7047 Telegrey 4, colour stand RAL 7045 Telegrey 1,

**Accessories:**
- Total enclosure
- Dressing device L5,
- Filter system with chiller for dielectric fluid
- Automatic fire extinguishing system DIN 14497
- Standard programs for measuring, eroding etc.
- Automatic Diagnosis program for machine operational status with text output on screen, automatic referencing of the machine via "Teach-in" mode,
- Loader for workpieces, with CNC-controlled pivot for loading and unloading to a magazine,
- Turntable workpiece magazine for max. 24 workpieces,
- Magazine wheel for 12 workpieces HSK 63,
- Magazine expansion to 24 workpieces,
- 8 exchange elements QX,
- 4 flush sets,
- Adaption to A Axis for magazine operation HSK63,
- Measuring mandrel,
- 2 mounting flanges for rotation electrodes.
Erosion machine for diamond tipped metalworking tools (CNC-controlled)

Article no.: 70P  
Made by: Vollmer  
Year: 1999  
Machine no.: -  
Model: QWD 70 P  
Category: Erosion machines

Description:
Suitable to automatically sharpen PKD-tipped milling cutters, cylindrical tools, discoid tools etc.

Specifications:
Milling cutters outside dia. up to 250 mm, cutting edge length up to 100 mm, discoid tools outside dia. up to 450 mm, outside dia. cutting edge length up to 20 mm, radial and axial clearance angle 30°, chamfering up to 45°, spiral cutting to 45°, traversing range X-axis 280 mm, traversing range Y-axis 280 mm, traversing range Z-axis 330 mm, traversing range W-axis 150 mm, E-axis pivot range 120°, B-axis manual swivel range 200°, C-axis manual swivel range + / - 15°, D-axis manual swivel range 315°, A-axis swivel range 360°, workpiece holder ISO 40, dimensions machine w x d x h = 2045 x 2160 x 1950 mm, weight ca. 3400 kg, connected load ca. 3.5 kW (400 volts / 50 Hz), colour turquoise blue RAL 5018 / light grey

Accessories:
Total enclosure, 
Coolant system for dielectric fluid, 
Workhead ISO 40, 
Automatic fire extinguishing system, 
Automatic central lubrication, 
Machine lamp.
Erosion machine for diamond tipped metalworking tools (CNC-controlled)

**Article no.:** QW72  
**Machine no.:** -  
**Made by:** Vollmer  
**Model:** QW 72 P  
**Year:** 1999  
**Category:** Erosion machines

**Description:**
Suitable to automatically sharpen PKD-tipped milling cutters, cylindrical tools, discoid tools etc.

**Specifications:**
- Milling cutters outside dia. up to 250 mm, cutting edge length up to 100 mm, discoid tools outside dia. up to 380 mm, outside dia.shank tools edge length up to 20 mm, tangential clearance angle up to 6°, radial clearance angle -10° to +6°, traversing range X-axis 0.001 - 280 mm, traversing range Y-axis 0.001 - 280 mm, traversing range Z-axis 0.001 - 330 mm, A-axis rotation range 0.001 - 360°, D-axis manual swivel range 0.001 - 315°, workpiece holder ISO 40, tool weight up to 20 kg, outside dia. rotary electrode 125 mm, outside diameter circumferential graphite electrode 200 mm, dimensions machine w x d x h = 2240 x 2405 x 2040 mm, weight ca. 2900 kg, connected load ca. 3 kVA (400 volts / 50 Hz), colour blue turquoise /grey.

**Accessories:**
- Workhead ISO 40,  
- Probe,  
- Automatic central lubrication,  
- Total enclosure,  
- Cooling system for dielectric fluid,  
- Automatic fire extinguishing unit,  
- Machine lamp.

---

Electro-static air cleaner

**Article no.:** M01275  
**Machine no.:** -  
**Made by:** DSL  
**Model:** AES Sigma 20  
**Year:** 2012  
**Category:** Extractors all Types

**Description:**
Suitable to clean / extract oil mist and emulsion mist. Fits on Walter Helltronic (R)-Power, Helltronic Power Regrinder and Helltronic Power Production.

**Specifications:**
- Volume flow 1200 m³/h, motor output 1.8 kW, noise level 75 dB (A), connected load approx. 1.95 kW (400 volts / 50 Hz), dimensions w x d x h 1090 x 700 x 400 mm, weight approx. 75 kg, colour grey.

**Accessories:**
- Silencer.
**Electro-static air cleaner**

**Article no.:** M00893  
**Made by:** DSL  
**Year:** 1999

**Machine no.:** -  
**Model:** AES Sigma 15  
**Category:** Extractors all Types

**Description:**  
Suitable to clean / extract oil mist and emulsion mist. Fits on Walter Helltronic (R)-Power, Helltronic Power Regrinder and Helltronic Power Production.

**Specifications:**  
Volume flow 900 m³/h, temperature max. 45°, motor output 1.25 kW, noise level 75 dB (A), connected load approx. 1.40 kW (400 volts / 50 Hz), dimensions w x d x h 1300 x 700 x 400 mm, colour dark grey.

**Accessories:**  
Control lamp.

---

**Electro-static air cleaner**

**Article no.:** M01273  
**Made by:** DSL  
**Year:** 2009

**Machine no.:** -  
**Model:** AES Gamma 30  
**Category:** Extractors all Types

**Description:**  
Suitable to clean / extract oil mist and emulsion mist. Fits on Walter Helltronic.

**Specifications:**  
Volume flow 1800 m³/h, motor output 1.75/1.6 kW, connected load approx. 1.90 kW (230/400 volts / 50 Hz), colour grey RAL 7035.

**Accessories:**  
Silencer
**Electro-static air cleaner**

**Article no.:** M01265  **Machine no.:** -  
**Made by:** DSL  **Model:** Alpha 30  
**Year:** 2002  **Category:** Extractors all Types

**Description:**
Suitable to clean / extract oil mist and emulsion mist. Especially suitable for machines from the manufacturer Walter.

**Specifications:**
Volume flow 1800 m³/h, noise level

**Accessories:** -

---

**Electro-static air cleaner**

**Article no.:** M01195  **Machine no.:** -  
**Made by:** DSL  **Model:** AES Sigma 15  
**Year:** 1997  **Category:** Extractors all Types

**Description:**
Suitable to clean / extract oil mist and emulsion mist. Fits on Walter Helltronic (R)-Power, Helltronic Power Regrinder and Helltronic Power Production.

**Specifications:**
Volume flow 800 m³/h, temperature max. 45°, motor output 1,38/1,25 kW, noise level 75 dB (A), connected load approx. 1.90 kW (400 volts / 50 Hz), dimensions w x d x h 1300 x 700 x 530 mm, colour dark grey.

**Accessories:**
Silencer.
### Electro-static air cleaner

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<th>Article no.</th>
<th>M01274</th>
<th>Machine no.:</th>
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<tbody>
<tr>
<td>Made by:</td>
<td>DSL</td>
<td>Model:</td>
<td>AES Gamma 30</td>
</tr>
<tr>
<td>Year:</td>
<td>2009</td>
<td>Category:</td>
<td>Extractors all Types</td>
</tr>
</tbody>
</table>

**Description:**
Suitable to clean / extract oil mist and emulsion mist. Fits on Walter Helltronic.

**Specifications:**
- Volume flow 1800 m³/h, motor output 1.90/1.75 kW, connected load approx. 1.9 kW (230/400 volts / 50 Hz), colour grey RAL 7035

**Accessories:**
- Silencer.

---

### Electrostatic Mist Extractor

<table>
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<th>M01242</th>
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<tr>
<td>Made by:</td>
<td>ILT</td>
<td>Model:</td>
<td>1ERV35</td>
</tr>
<tr>
<td>Year:</td>
<td>1999</td>
<td>Category:</td>
<td>Extractors all Types</td>
</tr>
</tbody>
</table>

**Description:**
Suitable to clean / extract oil mist and emulsion mist.

**Specifications:**
- Volume flow 2200 m³/h, ventilator rate 2500 m³ / h, suction connector Ø 150 mm, filter surface 12.6 m², connected load 1.15 kW (230 volts / 50 Hz), noise level 78 dB(A), weight approx. 87 kg, dimensions w x d x h = 700 x 470 x 540 mm, colour light grey.

**Accessories:**
-
Mechanical Airfilter

- Article no.: M01190
- Machine no.: -
- Made by: Airtech
- Model: EF 16
- Year: 2008
- Category: Extractors all Types

Description:
Suitable for cleaning coolant and oil grinding mist.

Specifications:
Volume flow 1400 m³/h, filter surface 8,5 m², operating noise level 67 db (A), connected load approx. 400 volts / 50 Hz / 0,37 A), dimensions 1245 x 628 x 780 mm, weight ca. 69 kg, colour light grey.

Accessories:
Silencer.

Mist Extractor

- Article no.: M01197
- Machine no.: -
- Made by: Air Filter System
- Model: AFS 600
- Year: 2008
- Category: Extractors all Types

Description:
Suitable to clean / extract oil mist and emulsion mist.

Specifications:
Volume flow 600 m³/h, connected load 230/400 volts / 50/60 Hz), weight approx. 50 kg, dimensions w x d x h = 825 x 460 x 542 mm, colour grey RAL 7035.

Accessories:
-
### Mist Extractor

<table>
<thead>
<tr>
<th>Article no.:</th>
<th>M01266</th>
<th>Machine no.:</th>
<th>-</th>
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<tbody>
<tr>
<td>Made by:</td>
<td>ERNI AG</td>
<td>Model:</td>
<td>ACB-2000 SR</td>
</tr>
<tr>
<td>Year:</td>
<td>2008</td>
<td>Category:</td>
<td>Extractors all Types</td>
</tr>
</tbody>
</table>

**Description:**
Suitable to clean / extract oil mist and emulsion mist

**Specifications:**
- Volume capacity 1800 m³/h, filter steps 1, diameter connection point 200 mm, connected load 0,4 kW (400 volts / 50 Hz), weight 78 kg, dimensions w x d x h = 1350 x 770 x 660 mm, colour light grey.

**Accessories:**
- 4 Axis CNC controlled HSS and segmental circular saw blade sharpening machine

### 4 Axis CNC controlled HSS and segmental circular saw blade sharpening machine

<table>
<thead>
<tr>
<th>Article no.:</th>
<th>M01332</th>
<th>Machine no.:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Made by:</td>
<td>Schmidt Tempo</td>
<td>Model:</td>
<td>ECE 45 / 4</td>
</tr>
<tr>
<td>Year:</td>
<td>2006</td>
<td>Category:</td>
<td>HSS and segmental circular saw blade processing</td>
</tr>
</tbody>
</table>

**Description:**
Suitable for automatic grinding or retoothing and chamfering of HSS, segmental and VHM circular sawblades with the plunge grinding method using CBN or diamond grinding wheels.

**Specifications:**
- Saw dia. 20 - 550 mm, saw thickness up to 6 mm, tooth count from 20 - 999 mm, working rate stepless adjustable from 3 - 50 teeth/min, grinding wheel drive 1,8 kW, grinding wheel diameter 200 x 32 mm, connected load approx. 5 kVA (400 volts / 50 Hz), dimensions w x d x h = 1730 x 1200 x 1800 mm, weight approx. 950 kg, colour blue RAL 5014 / blue RAL 5013.

**Accessories:**
- Total enclosure,
- Windows CE operating system,
- Automatic hood locking mechanism,
- 2 additional CNC axes for fully automatic bevelling in one clamping,
- High-pressure coolant device with magnetic filter element 35 l / min.,
- Automatic rake angle adjustment of the grinding head,
- Software programs for curved tooth, angle tooth,
- Automatic central lubrication,
- Machine light,
- Electrostatic mist extractor Walter WL-EF-65 Masch. Nr. 990934, power 2000m³, 0,68kW.
**HSS and segmental circular saw blade chamfering machine (automatic)**

**Article no.:** M01126  
**Machine no.:** 87135  
**Made by:** Loroch  
**Model:** AK  
**Year:** 1995  
**Category:** HSS and segmental circular saw blade processing

**Description:**  
Suitable to chamfer (bevel) automatically HSS and segmental circular saw blades.

**Specifications:**  
Saw dia. 80 - 710 mm, tooth pitch 3 - 25 mm, max. saw thickness 6.5 mm, chamfer angle 45°, working rate stepless adjustable 10 - 45 teeth/min., CBN grinding wheel dia. 200 mm, grinding wheel, centre bore dia. 32 mm, connected load approx. 2 kW (400 volts / 50 Hz), weight approx. 600 kg, dimensions w x d x h = 1400 x 1200 x 2200 mm, colour grey.

**Accessories:**  
Total enclosure,  
Extractor,  
Manual central lubrication,  
Machine lamp,  
1 grinding wheel flange,  
1 saw blade mounting bolt.
HSS and segmental circular saw blade sharpening machine (CNC controlled)

Description:
Suitable to sharpen or re-cut and chamfer automatically HSS and segmental circular saw blades as well as solid carbide saw blades in creep feed grinding method by using CBN or diamond grinding wheels.

Specifications:
Working range manual diameter 40 - 710 mm, working range automatic diameter (75) 130 - 520 mm, automatic chamfering diameter 160 - 520/710 mm, (optional from 100 mm possible), tooth pitch 1 - 55 mm, number of teeth 2 – 998, sawblade thickness up to 8 mm, coolant pressure approx 10 bar, coolant tank capacity approx 400 l, grinding wheel diameter 200 x 32 mm, grinding motor 3 kW, connected load approx. 10 kw / 400 V / 60 Hz, weight approx. 3200 kg, dimensions w x d x h 2540 x 2662 x 2200 mm, colour grey RAL 7045 / light grey RAL 7047.

Accessories:
(To be confirmed)
- Sawblade magazine with 3 sawblade stacks (prepared for expansion to 6 mounting mandrels),
- Laser measuring system for automatic identification of the sawblade diameter, tooth count and sawblade thickness,
- Device for automatic chamfering of regular toothed sawblades,
- Program for standard curved tooth form and forms B / C,
- Special program for variable tooth pitch,
- CAD program for creation of up to 250 tooth forms.
- Measured grinding (only possible in manual mode!)
- Automatic diameter setting of the sawblade,
- Total enclosure incl. coolant system with 400 l tank,
- Fine filter for cleaning coolant incl. drip tray,
- Chiller for cooling of grinding oil,
- Automatic fire extinguisher incl. explosion flap and pressure monitor,
- Electrostatic mist extractor,
- Automatic central lubrication,
- Machine lamp,
- 1 sawblade mount (F-1490) for sawblades from 130 – 710 mm diameter and 32 mm centrebore,
- 3 magazine mounting mandrels 32 mm,
- 1 grinding wheel flange.
HSS and segmental circular saw blade sharpening machine (CNC controlled)

Description:
Suitable to sharpen or re-cut and chamfer automatically HSS and segmental circular saw blades as well as solid carbide saw blades in creep feed grinding method by using CBN grinding wheels.

Specifications:
Sawblade dia. From (20) 140 - 760 mm, tooth pitch 1 - 25 mm, number of teeth 2 - 998, saw thickness up to 8 mm, grinding wheel dia. 200 mm, grinding wheel centre bore dia. 32 mm, connected load 7,8 kW (460 volts / 50 Hz), weight approx. 1025 kg, dimensions w x d x h = 985 x 1750 x 2015 mm, colour telegrey RAL 7045.

Accessories:
Total enclosure,
Coolant system with high pressure cooling with 6 bar and 240 L tank,
Sawblade mount F-1004 for saws with dia. 140 - 800 mm,
Power clamping lock,
Automatic central lubrication,
Motorised adjustment of sawblade carrier,
Software for all standard curved and pointed teeth sawblades,
Software for grinding sawblades with variable tooth pitch,
Software for grinding Trennjäger sawblades,
Program for single segment grinding to grind newly inserted segments down to size,
Software cylindrical grinding for removal of existing toothing,
Machine lamp
1 set of calibration tools,
1 grinding wheel mount Ø 90 mm
1 Powergrind CBN grinding wheel 200 x 2,0 x 32 mm.
HSS and segmental circular saw blade sharpening machine (CNC controlled)

<table>
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<tr>
<th>Article</th>
<th>Ekostar500</th>
<th>Machine no.:</th>
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<tbody>
<tr>
<td>Made by:</td>
<td>Loroch</td>
<td>Model: Ekostar 500</td>
</tr>
<tr>
<td>Year:</td>
<td>2009</td>
<td>Category: HSS and segmental circular saw blade processing</td>
</tr>
</tbody>
</table>

**Description:**
Suitable to sharpen or re-cut and chamfer automatically HSS and segmental circular saw blades as well as solid carbide saw blades in creep feed grinding method by using CBN grinding wheels.

**Specifications:**
- Sawblade dia. From (20) 140 - 500 mm, tooth pitch 1 - 25 mm, number of teeth 2 - 998, saw thickness up to 8 mm, grinding wheel dia. 200 mm, grinding wheel centre bore dia. 32 mm, connected load 8,6 kW (400 volts / 50 Hz), weight approx. 1025 kg, dimensions w x d x h = 985 x 1750 x 2015 mm, colour grey RAL 7045, light grey RAL 7047.

**Accessories:**
- Total enclosure,
- Mist extractor,
- Coolant system with high pressure cooling with 6 bar and 240 L tank,
- Automatic central lubrication,
- Motorised adjustment of sawblade carrier,
- Software for all standard curved and pointed teeth sawblades,
- Software for chamfering,
- Machine lamp,
- 1 grinding wheel mount,
- 1 sawblade mount.
CNC tool measuring machine

**Article no.:** Heli-Toolcheck  
**Machine no.:** -  
**Made by:** Walter  
**Model:** Heli Toolcheck  
**Year:** 2004  
**Category:** Measuring and presetting

**Description:**
Suitable for fully automatic and touch-less measuring of cutting tools of all kinds. By means of 2 CCD matrix cameras, reflected-light and transmitted light measurements are performed. For example diameter, length, angles, spiral angle, spiral length, clearance angle, cutting angle etc. can be measured.

**Specifications:**
Movement X axis 310 mm, movement Y axis 290 mm, movement Z-axis 640 mm, A axis 60 rpm., workholding adaption ISO 50, workpiece dia. 300 mm max., max. workpiece length 500 mm, max. workpiece weight 25 kg, repeating accuracy dia. measuring +/- 0.002 mm, repeating accuracy length measuring +/- 0.002 mm, resolution for all linear axis 0.002 mm, resolution for rotational A axis 0.0025°, weight approx. 1200 kg, dimensions w x d x h 1765 x 1400 x 1957 mm, connected load 230 V / 50 Hz / 2 kW, colour light grey RAL 7035.

**Accessories:**
Control PCNC 6,  
VIALOGIC TIM Teach-In-Mode (Version 7.1 SP10 Release),  
Software package 1 (cylindrical tools sharp edge, corner and full radius),  
Software package 2 (conical spiral tools sharp edge, corner and full radius),  
Software package 199 (grinding wheel measuring),  
VIALOGIC VIASCAN,  
VIALOGIC VIAFIT,  
QuickCheck Turbo,  
DXF Generator,  
Quick Check Grinding Wheels,  
Quick Check Modular,  
QCM Open Interface,  
QCM Network,  
WWM Network,  
LightControlDevice,  
Precision glass scales on the linear axis.


**Tool measuring machine**

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<th>TC-210</th>
<th>Machine no.:</th>
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<tr>
<td>Made by:</td>
<td>IPM Messtechnik</td>
<td>Model:</td>
<td>TC-210</td>
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<tr>
<td>Year:</td>
<td>2015</td>
<td>Category:</td>
<td>Measuring and presetting</td>
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</tbody>
</table>

**Description:**
The high-precision measuring device developed for the fast and simple non-contact measurement of cutting tools from cylindrical shank to HSK holder. User-friendly, mature and precise. With the aid of the high-resolution camera and a raster zoom lens, face geometries, circumferential geometries or step lengths of tools made of HSS, solid carbide and PCD and CBN-equipped precision tools are measured using IPM's user-friendly software.

**Specifications:**
Axes: travel X-axis 150 mm, travel Y-axis 100 mm, resolution 0.001 mm, magnifications 50 x - 240 x, repeatability 0.003 mm, camera 2048 x 1600 pixel resolution, operating system Windows 7 Pro 64-bit, connected load (230 V / 50 Hz), dimensions base plate W x D x H = 500 x 600 x 50 mm, colour black.

**Accessories:**
Tool holder with ground prism system up to Ø 60 mm,
Recording from the recording prism on swivel bracket 210 ° to the optical axis,
Video measuring system IPM complete with:
- Digitizing device,
- Software complete for data acquisition,
- Creation of measurement logs with a Microsoft Office license
- 1 computer with software VM2045,
- 1 ring light RL4S -2 °,
- 1 cold light unit LQ 1600 / 150W,
- 1 diffuser,
- 1 LED backlight dimmable,
- 1 insert prism,
- Zoom lens 50x - 240x with high-resolution colour camera,
- Concentric recording device with tooth frame drive of Ø 1mm-32mm adaptable to swivel unit,
- Universal prism large,
- LED Spot Lights - IL Series.
Grinding wheel dressing and profiling machine

**Article no.:** M01315  **Made by:** Farman  **Machine no.:** -  **Model:** FC 250-EX  
**Year:** 2019  **Category:** Other equipment

**Description:**
Suitable for dressing and profiling diamond and CBN grinding wheels.

**Specifications:**
Grinding wheel holder HSK 50 E, diamond grinding wheel diameter 50 - 250 mm, max. grinding wheel width 70 mm, grinding wheel bore diameter 20 mm, speed of the diamond / CBN wheel spindle stepless adjustable 100 - 1000 rpm, connected load of the motor of the grinding wheel 1.75 kW, grinding wheel transverse stroke 160 mm, grinding wheel longitudinal stroke 120 mm, radius of the grinding wheel 0 - 60 mm, dressing wheel 175 x 12 x 31.75 mm, turning speed of the dressing wheel 200 - 2000 rpm. (stepless adjustable), Oscillating speed of the dressing wheel 3400 mm / min (stepless adjustable), oscillating stroke of the dressing wheel 0-50 / min (stepless adjustable), connected load of the motor of the dressing wheel 0.75 kW (400 V / 50 Hz), Weight approx 1520 kg, dimensions 1340 x 1300 x 1900 mm, colour grey / red.

**Accessories:**
- Total enclosure,
- Rush camera system with high-resolution B / W camera (15x, 30x, 60x zoom), autom. Zoom control, video overlay (CAD drawing on live image) with 22" LCD monitor and Ruvision software,
- On-board PC with Windows and 17" monitor,
- Glass scale on the linear axes X and Z,
- 2 machine lights 12 V,
- Cooling system 30 Liter tank,
- Automatic delivery and tilting via servomotors, control panel with touch,
- Automatically starting position at the end of the work process,
- Central lubrication,
- Mist extractor.
**Wheel profiling and dressing machine,**

<table>
<thead>
<tr>
<th>Article no.</th>
<th>FC250</th>
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<tr>
<td>Made by:</td>
<td>Farman</td>
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<tr>
<td>Machine no.:</td>
<td>-</td>
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<tr>
<td>Model:</td>
<td>FC 250 W</td>
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<tr>
<td>Year:</td>
<td>2019</td>
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<tr>
<td>Category:</td>
<td>Other equipment</td>
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</table>

**Description:**
Machine designed for profiling and dressing flats, side, angular, radius and special shapes on diamond and CBN wheels. Especially suitable for single or multiple wheel packs.

**Specifications:**
Wheel spindle taper: HSK50A (or different), max diameter diamond wheel: 250 mm,
Min diameter diamond wheel: 50 mm, max wheel width: 70 mm, wheel speed: 100 – 1000 RPM (infinitely variable), Wheel motor power: 1,5 KW wheel cross stroke 200 mm, wheel longitudinal stroke 140 mm, wheel radius: 0 – R30 mm, dressing wheel (SiC) 180x25x31,75 (or different), dressing wheel speed 200 – 2000 RPM, dressing wheel Oscillating Speed 3400 mm/1 min (infinitely variable), dressing Wheel Oscillating stroke 0-70 mm, dressing Wheel Motor Power 0,75 KW, dressing Wheel Swivelling speed 360° / 1 min (infinitely variable), weight: 900 kg, size: 165 x 115 x 195 cm, 380V – 50 Hz required.

**Accessories:**
- 2 Machine lights 12 V
- Optical linear scale with digital display counter (0.001 mm) X, Z Axes
- 2/3” TV Camera with 15” LCD monitor (microscope with zoom 15-120X included)
- High performance swivelling angle reader (0.05°)
Wheel profiling and dressing machine,

- **Article no.:** FC350 W
- **Machine no.:** -
- **Made by:** Farman
- **Model:** FC 350 W
- **Year:** 2019
- **Category:** Other equipment

**Description:**
Machine designed for profiling and dressing flats, side, angular, radius and special shapes on diamond and CBN wheels. Especially suitable for single or multiple wheel packs.

**Specifications:**
- Wheel spindle taper: HSK50E
- Max diameter diamond wheel: 50 - 350 mm
- Max wheel width: 70 mm
- Wheel speed: 100 – 1000 RPM (infinitely variable)
- Wheel radius: 0 – R30 mm
- Dressing wheel (SiC) 180x25x31,75 mm
- Dressing wheel speed 200 – 2000 RPM
- Dressing wheel oscillating stroke 0-70 mm
- Dressing wheel motor power 0,75 KW
- Weight approx. 1520 kg
- Dimensions w x d x h 1340 x 1300 x 1900 cm
- Connected load (380V – 50 Hz)
- Colour red / RAL 9003 signal white

**Accessories:**
- Optical linear scale with digital display counter (0,001 mm) X, Z Axes
- 2/3" TV Camera with 15" LCD monitor (microscope with zoom 15-120 factor zoom included)
- High performance swivelling angle reader (0,05°)
- Diamond / CBN wheel spindle speed stepless adjustable 100 - 1000 rpm
- Turning speed of dressing wheel stepless adjustable 200 - 2000 rpm
- Stepless oscillation speed
- Automatic central lubrication
- Manual dressing device for silicium wheel
- Spindel-motor power max. 3 PS (2,25 kW)
- Dressing-spindle motor power 2 PS (1,5 kW)
- Plexiglass splashguard
- Extractor
17 Axis CNC controlled TCT Circular Sawblade Production Line

**Article no.:** CC355  **Machine no.:** -
**Made by:** Vollmer  **Model:** CC 355
**Year:** 2016  **Category:** TCT circular saw blade processing

**Description:**
Suitable for automatic grinding of carbide circular saw blades on face, top and sides in one setup. All known tooth geometries (flat, alternating, trapezoid, etc.) can be ground automatically and in one pass. Processing up to 800 teeth per hour is possible.

**Specifications:**
Sawblade diameter of 150 - 355 mm, bore diameter of 10 - 50 mm, blade thickness from 3.5 mm, tooth pitch up to 100 mm, rake angle from - 10° to +25°, clearance angle from 8° - 25°, oblique grinding on the top of the teeth to 45°, angular bevel at the tooth face up to 15°, radial angle from 6°, tangential angle from 8°, sawblade weight up to 3.5 kg, stack height approx. 300 mm, grinding wheel diameter max. 125 x 32 mm, dimensions W x D x H approx. 5734 x 1980 x 2000 mm, weight approx. 5650 kg, connected load 400 V / 50 Hz / 9.4 kVA, colour grey RAL 7035.

**Accessories:**
- Two stations for face or top grinding and one station for tooth flanks,
- Automatic loading and unloading,
- Movable control panel with LCD colour display,
- Automatic adjustment of the rake and clearance angle,
- Grinding speed and grinding path infinitely adjustable,
- Grinding processes can be freely selected at all processing stations,
- Oil collecting pan,
- Cooling unit for control cabinet,
- Standard software package for tooth geometries according to the program overview,
- Program for grinding sawblades with group toothing, with different tooth geometries,
- Oscillation grinding on all surfaces of the sawblade teeth,
- Automatic grinding wheel compensation based on experience,
- Software package for multi-surface machining on the positive rake face and clearance surfaces,
- Software package for machining straight and single sided bevel rake and clearance surfaces in group toothing,
- Programming during the workflow,
- Operator guidance via screen by graphical representation of the machining programs,
- Integration into a network, BDE and MDE, as well as remote service,
- Device for central coolant supply (oil or emulsion) with coolant pump 160 l / min,
- Fire extinguishing system, automatically triggered,
- Grinding motors with variably adjustable peripheral speed,
- Software package for multi-surface machining on the positive rake face and clearance surfaces,
- Automatic flap,
- Feed pawl for rake angle> 25°,
- 3 magnetic flanges Ø10 / 75 (4 magnets).
**Carbide tip side grinding machine (CNC controlled)**

**Article no.:** M01321  **Machine no.:** -  
**Made by:** Vollmer  **Model:** CMF 300  
**Year:** 2015  **Category:** TCT circular saw blade processing

**Description:**
Suitable to automatically grind both tooth flanks simultaneously on carbide tipped circular saw blades.

**Specifications:**
9 CNC controlled axes, Saw dia. without robot 500 - 1440 mm, saw blade centre bore dia. From 16 mm, tooth pitch 6 - 180 mm, length of grind (length of carbide tip) up to 25 mm, rake angle motorized adjustable from -35° to +35°, tangential clearance angle 0° to 10°, grinding wheel dia. max. 125 mm, grinding wheel centre bore diameter 32 mm, grinding spindle speed variable 1600 - 5500 rpm, connected load approx. 8.5 kW (400 volts / 50 Hz), weight approx. 4750 kg, dimensions w x d x h = approx. 3300 x 1900 x 2045 mm, colour grey RAL 7045 / RAL 7047.

**Accessories:**
- Total enclosure,
- Coolant system,
- Configuration for robot operation with automatic door,
- Measuring device for measuring of sawblades,
- Alphanumerical keyboard,
- Grinding speed and grinding travel per tooth surface stepless adjustable,
- Electrical cabinet chiller,
- 2 grinding wheel mounts,
- Automatic central lubrication,
- Automatic grinding wheel compensation,
- USB connector,
- Main spindles speed variable 1600 - 6200 rpm,
- Automatic fire extinguisher,
- Calibration tools,
- Machine lamp,
- Mist Extractor N 183,
- Sawblade air cleaning device,
- Sawblade magnetic flange Ø 480, for sawblade diameter 700 - 1440 mm,
- Sawblade magnetic flange Ø 290, for sawblade diameter 500 - 840 mm,
TCT circular saw blade sharpening machine (CNC controlled)

- **Article no.:** CHM 400
- **Machine no.:** -
- **Made by:** Vollmer
- **Model:** CHM 400
- **Year:** 1999
- **Category:** TCT circular saw blade processing

**Description:**
Suitable to sharpen automatically the face and top on carbide tipped circular saw blades.

**Specifications:**
Sawblade diameter 600 to 2200 mm, centre bore from 25 mm, blade thickness up to 20 mm, tooth pitch from 12 mm, clearance grinding on top 0 to 20° angle grind 26 mm, clearance grinding on top 20 to 45° angle grind 15 mm, rake angle from -40° to + 30°, clearance angle from 5° to + 45°, angular grind on top of tooth up to 45°, angular grind on the tooth face up to 30°, tooth height difference unlimited, grinding wheel for face diameter 200 mm x 32 mm, outside diameter speed 45 m/s, grinding wheel for top diameter 125 mm x 32 mm, outside diameter speed 27 m/s, pneumatic pressure 0,5 bar, air requirement approx. 13 l/min, working speed up to 12 teeth/min, grinding speed 0,5 to 20 mm/s, output coolant pump 80 l/min, tank capacity 300 l, connected load approx. 6 KVA / 400 V / 50 Hz, weight approx 2800 kg, dimensions w x d x h 2920 x 1785 x 2195 mm, colour blue / grey.

**Accessories:**
Total Enclosure, coolant system, motor driven rake and clearance angle adjustment, automatic central lubrication, machine lamp, 1 sawblade mount.
TCT Sawblade Grinding Machine (9 axis CNC controlled)

**Article no.:** M01320  **Machine no.:** -

**Made by:** Vollmer  **Model:** CM 300

**Year:** 2015  **Category:** TCT circular saw blade processing

**Description:**
Suitable to automatically grind the face and top on carbide tipped circular saw blades in one set-up. Permits to sharpen all known tooth geometries (flat tooth, alternate tooth, triple chip flat tooth, etc.) automatically and in one rotation.

**Specifications:**
9 CNC controlled axes, Saw dia. without robot 500 - 1440 mm, sawblade centre bore dia. from 16 mm, sawblade thickness up to 15 mm, tooth pitch 6 - 180 mm, length of grind (length of carbide tip) up to 25 mm, rake angle from -35° to +20°, radial clearance angle from 0° to 25°, angular grind on the tooth face to 30°, angular grind on the tooth top to 45°, angular grind on the negative tooth face to 30°, tooth height difference unlimited, grinding wheel dia. max. 200 mm, grinding wheel centre bore diameter 32 mm, connected load approx. 8.5 kW (400 volts / 50 Hz), weight approx. 5050 kg, dimensions w x d x h = approx. 3300 x 1900 x 2045 mm, colour grey RAL 7047 / grey RAL 7047.

**Accessories:**
Total enclosure,
Coolant system,
Configuration for robot operation with automatic door,
Measuring device for measuring of sawblades,
Alphanumerical keyboard,
Grinding speed and grinding travel per tooth surface stepless adjustable,
Electrical cabinet chiller,
Automatic central lubrication,
Software package for oscillation grinding on clearance and rake angles,
USB connector,
Mist extractor,
Chip breaker device with grinding wheel flange,
Sawblade magnetic flange Ø 480, for sawblade diameter 700 - 1440 mm,
Sawblade magnetic flange Ø 290, for sawblade diameter 500 - 840 mm,
Measuring device for measuring the grinding wheels and grinding wheel packages,
Stepless grinding speed on both grinding spindles variable 1600 - 5500 rpm,
Automatic fire extinguisher,
Calibration tools,
Machine lamp,
Sawblade air cleaning device.
5 axis - CNC - controlled universal tool and cutter grinder

**Article no.:** M01164 **Machine no.:**

**Made by:** Schneeberger **Model:** Gemini DMR

**Year:** 2007 **Category:** Universal tool and cutter grinders

**Description:**
Suitable for regrinding and production of wood- and metalworking tools of all kinds.

**Specifications:**
Horizontal traverse X-axis: 360 mm, cross traverse Z-axis: 270 mm, vertical traverse Y-axis: 270 mm, rotary table swivelling range (C axis): +/- 370°,
workhead spindle: ISO 50, centre height: 210 mm, max. grinding wheel dia.: 250 mm, grinding spindle output rating: 15 KW, grinding spindle speed stepless: 1000 - 9000 rpm, connected load approx.: 21 KVA / 400 volts / 50 Hz, dimensions w x d x h: 1470 x 2980 x 2200 mm, weight approx.: 8000 kg, colour: turquoise / light grey.

**Accessories:**
Robot loader Fanuc LR Mate 200 IB 3L,
8 sided grinding wheel changer,
Automatic hydraulically actuated tailstock,
Quinto software for cylindrical tools (sharp edged, corner and full radius),
Quinto software for tapered-spiral tools sharp edged, corner and full radius,
Quinto software for drills and step drills,
Quinto software for profile tools,
Quinto software for prism endmills,
Glass scales on the linear axes,
Probe,
Automatic central lubrication,
Automatic fire extinguishing system,
Hydraulic workpiece clamping,
Coolant cleaning centrifuge Turbo Separator,
Spindle chiller with heat exchanger,
Electrostatic mist extractor,
Machine lamp
8 grinding wheel flanges.
5 Axis Universal tool and cutter grinder (CNC controlled)

**Article no.:** i160  
**Machine no.:**  
**Made by:** Schneeberger  
**Model:** Corvus gds  
**Year:** 2003  
**Category:** Universal tool and cutter grinders

**Description:**
Suitable for automatic grinding and production of wood and metalworking tools of all kinds.

**Specifications:**
- X axis lateral movement: 400 mm
- Y Axis cross movement: 300 mm
- Z axis vertical movement: 300 mm
- C axis swing area: 210°
- A axis rotation: infinite
- Centre height: 210 mm
- Workpiece mount ISO 50
- Max. grinding wheel diameter: 250 mm
- Grinding spindle power: 9 KW
- Grinding spindle speed: stepless 500–10,000 rpm.
- Connected load: 20 kVA (400 V / 50 Hz)
- Dimensions: w x d x h = ca. 3000 x 2500 x 2300 mm
- Weight: approx. 9,000 kg
- Colour: turquoise, light and dark grey

**Accessories:**
- Quinto software 4.2
- Quinto software conical tools die sinking, ball shaped head
- Quinto software for drills & step drills
- Quinto software for profile tools
- Quinto software for prism end mills
- Quinto software grinding wheel design
- Probe
- Automatic central lubrication
- Band filter
6 Axis CNC Tool Grinding Machine with Erosion Functionality.

**Article no.:** M01068  **Machine no.:** -
**Made by:** Ewag  **Model:** Ewamatic Line
**Year:** 2001  **Category:** Universal tool and cutter grinders

**Description:**
Suitable for production and regrinding of inserts and rotational symmetrical tools made from HSS, TCT, Cermet, Ceramic, CBN and PCD.

**Specifications:**
Cross axis X 360 mm, height adjustment axis Y 240 mm, infeed axis Z 240 mm, fast traverse X, Y, Z 10 m / min, pivot axis B +/- 120°, max tilt of grinding spindle -15° to +25°, workpiece mount HSK 63, workpiece diameter from 0.2 - 200 mm, inserts from diameter 3 mm inner circle to 50 mm outer circle, grinding spindle power rating 7.5 kW, grinding spindle speeds 200 - 6000 rpm // 1000 - 12000 rpm, grinding wheel diameter max. 300 mm, connected load 400 V / 50 Hz / approx. 16 kVA, dimensions w x d x h approx. 2712 x 2750 x 2250 mm, colour stainless steel.

**Accessories:**
Accessories (to be confirmed):
- Grinding head tiltable with 6 spindle ends,
- Linear axis X, Y and Z with glass measuring scales,
- Indexing head TA60, with automatic clamping for SK 40
- Clamping table complete,
- Pressure control for PCD grinding,
- Measuring station,
- Integrated dressing and regeneration systems,
- Acoustic monitoring system option "touch",
- Coolant system 350 l,
- Mist extractor,
- Automatic central lubrication,
- Probe,
- Automatic steady rest,
- Automatic fire extinguishing system,
- 4 grinding wheel mounts,
- 1 erosion wheel mount,
- Various collets W25,
- NUMROTOplus Single-User-license,
- NUMROTOplus - standard endmills,
- NUMROTOplus - complex endmills,
- NUMROTOplus - standard drills / step drills,
- NUMROTOplus - complex drills / step drills,
- NUMROTOplus - form cutters,
- NUMROTO-3D - Collision monitoring,
- NUMROTO-3D - workpiece simulation,
- Hard lock for additional programming station.
Universal tool and cutter grinder (CNC controlled)

**Article no.:** M01157  **Machine no.:** -
**Made by:** Walter  **Model:** Helitronic Vision
**Year:** 2005  **Category:** Universal tool and cutter grinders

**Description:**
Suitable for grinding and manufacturing of tools of all kinds.

**Specifications:**
Working range: longitudinal traverse (X-axis) 480 mm, vertical traverse (Y-axis) 320 mm, cross traverse (Z-axis) 700 mm, rotary table swivelling range (C-axis) +/- 200°, work head spindle ISO 50, max. diameter of workpiece 320 mm, max. length of workpiece for peripheral grinding 370 mm, max. length of workpiece for face grinding 300 mm, max. length of workpiece for peripheral grinding 370 mm; Precision in linear resolution 0.0001 mm, in radial resolution 0.0001°; max. dia. wheel 200 mm, peak performance grinding spindle 30 kW, grinding spindle speed 0 - 10.000 rpm. Connected load approx. 35 kW (400 volts / 50 Hz), weight approx. 7100 kg, dimensions w x d x h = 3734 x 2490 x 2301 mm, colour grey RAL 7035 / 7043.

**Accessories:**
- Lift Loader for cylindrical tools 3 - 32 mm
- Cylindrical grinding is possible with 0 - 750 1/min
- Toolstudio 2.1 Standard and Advanced version 1.9,
- Software Package 1 (cylindrical mills)
- Software Package 2 (tapered mills)
- Software Package 3 (drills)
- Software Package 16 (warmup program)
- Software Package 17 (cylindrical grinding)
- Software Heliflute & cone (flute calculation software)
- Software Helidrill (flute calculation software)
- Automatic fire extinguisher
- Probe
- Glass scales in all linear axis X, Y, Z
- 2 grinding wheel mounts
Universal tool and cutter grinder (NC controlled)

Article no.: M01352 Machine no.: -
Made by: Saacke Model: UW 1 C
Year: 1997 Category: Universal tool and cutter grinders

Description:
Suitable for manual and automatic regrinding of wood and metal working tools and cutters of all kinds.

Specifications:
Max. workpiece dia. 240 mm, grinding movement manual and motor driven max. 200 mm, longitudinal travel of workhead 150 mm, traverse travel of workhead 150 mm, traverse movement of grinding head 80 mm, rapid displacement of grinding head 850 mm, height adjustment of grinding head 320 mm, max. grinding wheel dia. 175 mm, grinding wheel centre bore dia. 20 mm, grinding spindle speed infinitely variable 2000 - 10.000 rpm., grinding wheel diameter 175 mm, grinding wheel boring diameter 20 mm, connected load approx. 3.0 kW (400 volts / 50 Hz), weight approx. 800 kg, dimensions w x d x h =1300 x 1400 x 1870 mm, colour light grey RAL 7035.

Accessories:
Motorised height adjustment of the workhead,
Optical measuring microscope,
Longitudinal measuring system with digital display,
Stepless grinding spindle speed,
Centering device,
3 grinding wheel protection covers
1 used hydro chuck.
Universal tool and cutter grinding and erosion machine (CNC controlled)

Article no.: Evolution  
Machine no.: -  
Made by: Walter  
Model: Helitronic Diamond Evolution  
Year: 2017  
Category: Universal tool and cutter grinders

Description:
Suitable for manufacturing, regrinding and eroding of wood- and metalworking tools of all kinds.

Specifications:
Working range: longitudinal traverse (X-axis) 330 mm, vertical traverse (Y-axis) 200 mm, cross traverse (Z-axis) 470 mm, rotary table swivelling range (C-axis) +/- 400°, work head spindle HSK 50, centre height (with / without worktable) 130 / 160 mm, max. diameter of workpiece 1 - 165 mm, max length of workpiece for peripheral grinding 255 mm, max. length of workpiece for face grinding 185 mm, max. workpiece weight 30 kg, max. dia. of wheel 150 mm, grinding spindle power 9 kW, grinding spindle speed 0 – 10500 rpm, connected load approx. (400 volts / 50 Hz / 25 KVA), weight approx. 3000 kg, dimensions w x d x h = 2125 x 3101 x 1963 mm, colour grey RAL 7035 / 7043.

Accessories:
Total enclosure,  
6-SIDED grinding wheel changer,  
Helitronic Tool Studio Standard & Advanced V. 3.0,  
Tool Studio Option Step Tools and drills,  
Toolstudio option erosion,  
WWM software package 51 and 52 (rotary erosion and PCD tools such as shank, circular, profile, step cutters etc.),  
WWM software package 53 (peripheral erosion),  
WWM software package 16 (warm-up program),  
Probe,  
Oil collecting pan,  
Bandfilter system 350 l,  
Pneumatic workpiece clamp,  
Machine lamp,  
Stepless speed control,  
Automatic central lubrication,  
Automatic fire extinguishing system,  
2 grinding wheel mounts.
Universal tool grinding machine (CNC-controlled)

Article no.: HMC500XP  
Machine no.: -

Made by: Walter  
Model: Helitronic Mini Power

Year: 1998  
Category: Universal tool and cutter grinders

Description:
Suitable for regrinding and rebuilding wood and metalworking tools of all kinds.

Specifications:
Control HMC 500 XP (5 axis); Working range: longitudinal traverse (X axis) 350 mm, vertical traverse (Y axis) 200 mm, cross traverse (Z axis) 470 mm, rotary table swivelling range (C axis) +/- 200°, A axis length 150 mm, workhead spindle ISO 50, rotation axis infinite, centre height (with / without worktable) 130 / 160 mm, max. diameter of workpiece 100 mm, max. length of workpiece for peripheral grinding 270 mm, max. length of workpiece for face grinding 200 mm, Precision in linear resolution 0.0001 mm, in radial resolution 0.0001°; Grinding head with double-ended grinding spindle, dia. of spindle 70 mm, max. dia. of wheel 150 mm, peak performance 7 kW, torque 6 Nm at 6000 rpm., grinding spindle speed 0 - 9500 rpm.; Integrated coolant system with approx. 350 l tank capacity, coolant pump 120 l/min. at 7 bar; Connected load approx. 25 kW (400 volts / 50 cycles), weight including coolant system approx. 2600 kg, dimensions w x d x h = 2600 x 2550 x 2300 mm, colour grey RAL 7035 / grey RAL 7043.

Accessories:
Pallet loader
Software package 1 (cylindrical cutters),
Software package 2 (conical spiral milling cutters),
Software package 3 (drills and step drills),
Software package 4 (step tools),
Software package 5 (discoid tools),
Software package 6 (wood working tools),
Software package 16 (warm-up program),
Software package 32 (contours),
Heliflute & Cone flute calculation program for cylindrical & conical cutters,
Probe
Electrostatic mist extractor
Pneumatic workpiece clamping
Machine lamp
Band filter unit 350 l
Oil collecting pan
2 grinding wheel mounts
4 pallets for loader
Universal tool grinding machine (CNC-controlled)

Article no.: HMC500NT    Machine no.: -
Made by: Walter    Model: Helitronic Mini Power
Year: 1998    Category: Universal tool and cutter grinders

Description:
Suitable for regrinding and rebuilding wood and metalworking tools of all kinds.

Specifications:
Control HMC 500 NT (5 axis); Working range: longitudinal traverse (X axis) 350 mm, vertical traverse (Y axis) 200 mm, cross traverse (Z axis) 470 mm, rotary table swivelling range (C axis) +/- 200°, A axis length 150 mm, workhead spindle ISO 50, rotation axis infinite, centre height (with / without worktable) 130 / 160 mm, max. diameter of workpiece 100 mm, max. length of workpiece for peripheral grinding 270 mm, max. length of workpiece for face grinding 200 mm; Precision in linear resolution 0.0001 mm, in radial resolution 0.0001°; Grinding head with double-ended grinding spindle, dia. of spindle 70 mm, max. dia. of wheel 150 mm, peak performance 7 kW, torque 6 Nm at 6000 rpm., grinding spindle speed 0 - 9500 rpm.; Integrated coolant system with approx. 350 l tank capacity, coolant pump 120 l/min. at 7 bar; Connected load approx. 25 kW (400 volts / 50 cycles), weight including coolant system approx. 2600 kg, dimensions w x d x h = 2600 x 2550 x 2300 mm, colour grey RAL 7035 / grey RAL 7043.

Accessories:
Pallet loader
Software package 1 (cylindrical cutters),
Software package 2 (conical spiral milling cutters),
Software package 3 (drills and step drills),
Software package 4 (step tools),
Software package 5 (discoid tools),
Software package 6 (wood working tools),
Software package 16 (warm-up program),
Heliflute & Cone flute calculation program for cylindrical & conical cutters,
Helidrill flute calculation program,
Probe,
Electrostatic mist extractor,
Pneumatic workpiece clamping,
Automatic central lubrication,
Machine lamp,
Band filter unit 350 l,
Oil collecting pan,
2 grinding wheel mounts,
2 pallets for loader.