

SuS Stock-List

Coolant cleaning unit



Article no.: M01385 **Machine no.:** -
Made by: Transor **Model:** 12290/1200 A
Year: 1999 **Category:** Coolant Cleaning Systems

Description:

Suitable to clean cooling oils for carbide grinding.

Specifications:

Capacity 1200 l, volumetric flow rate 80 - 10 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 = 2000 x 1000 x 2200 mm, weight approx. 1.,000 kg, colour blue.

Accessories:

2 filter towers
automatic back flushing
chiller unit

Paper Bandfilter System



Article no.: M00385 **Machine no.:** -
Made by: Hofmann **Model:** H 0,35
Year: 2004 **Category:** Coolant Cleaning Systems

Description:

Suitable for cleaning of coolant emulsion and oil.

Specifications:

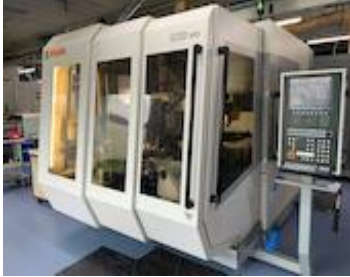
Capacity approx. 260 l, coolant pump, connected load 3,1 kW (400 V/50 Hz), dimensions w x d x h = 800 x 1700 x 050 mm, colour dark grey.

Accessories:

Float switch for automatic forwarding of used filterfleece, coolant pump.

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Disc Erosion Machine (CNC Controlled)



Article no.:	QXD 400	Machine no.:	-
Made by:	Vollmer	Model:	QXD 400
Year:	2008	Category:	Erosion machines

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,

2x Magazine wheel for 4 workpieces HSK 63,

8 exchange elements QX,

8 flush sets,

Adaption to A-axis for magazine operation HSK63,

Measuring mandrel,

1 mounting flange for rotation electrodes.

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Erosion Machine (CNC Controlled)



Article no.:	QXD200	Machine no.:	-
Made by:	Vollmer	Model:	QXD 200
Year:	2009	Category:	Erosion machines

Description:

CNC-controlled machine for the treatment (erosion, grinding) of PCD tipped tools up to 250 mm diameter and 200 mm length, according to disc-electrical-erosion processes for use in service and in production.

Specifications:

Traversing ranges: X-axis 440 mm, B-axis +/-15°, Y-axis 876 mm, Z-axis 420 mm, E-axis 210°, A-axis 360°, workhead SK50, Without magazine operating: workpiece length up to 200 mm, workpiece Ø up to 250 mm, working length up to 200 mm, workpiece weight max. 15 kg, Specification with magazine operating: workpiece length up to 200 mm, work piece Ø (depending on magazine and number of tools) up to 250 mm, work piece weight (depending on magazine and number of tools) 5 to 15 kg, connected load 380V 50Hz, colour cover RAL 7047 Telegrey 4, colour stand RAL 7045 Telegrey 1,

Accessories:

Total enclosure,
Mist extractor N183,
Filtering system for dielectric fluid,
1 Adaption for the A-axis HSK63-A
Automatic fire extinguishing device DIN 14497,
Standard programs for measurement, erosion etc.,
Automatic diagnostic program of the machine operation status with text statements on screen
Loader for erosion wheel sets with CNC controlled pivot arm for loading and unloading,
Workpiece magazine N250 (pallet magazine) for max. 12 workpieces,
5 exchange elements for flush sets
6 flush sets,
Probe
1 measuring mandrel
5 mounting flanges for rotational electrodes.

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Erosion machine for diamond tipped metalworking tools (CNC-controlled)



Article no.: M01335 **Machine no.:** -
Made by: Vollmer **Model:** QM 75 P
Year: 2000 **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, shaft tool dia. from 10 - 100 mm, cutting length max. 100 mm, discoid tools outside dia. up to 380 mm, discoid tools with base outside dia. up to 540 mm, outside dia. cutting edge length max. 20 mm, max. workpiece weight 20 kg, traversing range X-axis 280 mm, traversing range Y-axis 280 mm, traversing range Z-axis 330 mm, A-axis swivel range 360°, A-axis mount taper SK 40, B-axis swivel range + / - 30°, C-axis swivel range 120°, D-axis swivel range, + / - 15°, workpiece holder ISO 40, outside dia. rotary electrode 150 mm x 60 mm, speed from 80 - 200 rpm, dimensions machine w x d x h = 2560 x 2420 x 2270 mm, weight approx 4000 kg, connected load approx. 2.5 kW (400 volts / 50 Hz), colour turquoise / light grey.

Accessories:

Software for cutters, milling cutters, profiles, saw blades,
Erosion with x-axis,
Erosion with Y-axis,
Total enclosure,
Cooling system for dielectric fluid,
Automatic fire extinguishing unit,
Probe,
Automatic central lubrication,
Workpiece mount ISO 40,
Machine lamp.

SuS Stock-List

Erosion machine for diamond tipped metalworking tools (CNC-controlled)



Article no.: M01346 **Machine no.:** -
Made by: Vollmer **Model:** QWD 70 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 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,
Chiller for dielectric fluid,
Workhead ISO 40,
Automatic fire extinguishing system,
Automatic central lubrication,
Machine lamp
Probe

Electro-static air cleaner



Article no.: M00893 **Machine no.:** -
Made by: DSL **Model:** AES Sigma 15
Year: 1999 **Category:** Extractors all Types

Description:

Suitable to clean / extract oil mist and emulsion mist. Fits on Walter Helitronic (R)-Power, Helitronic Power Regrinder and Helitronic 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.

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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 Helitronic (R)-Power, Helitronic Power Re grinder and Helitronic 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.

Electrostatic Mist Extractor



Article no.: M01242 **Machine no.:** -
Made by: ILT **Model:** 1ERV35
Year: 1999 **Category:** Extractors all Types

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:

-

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Mist Extractor



Article no.: M01266 **Machine no.:** -
Made by: ERNI AG **Model:** ACB-2000 SR
Year: 2008 **Category:** Extractors all Types

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



Article no.: M01332 **Machine no.:** -
Made by: Schmidt **Model:** ECE 45 / 4
by: Tempo
Year: 2006 **Category:** HSS and segmental circular saw blade processing

Description:

Suitable for automatic grinding or retooling 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.

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HSS and Segment sawblade grinding machine - CNC controlled.



Article no.: K850
Machine no.: -
Made by: Loroch
Year: 2011
Model: Solution K850
Category: HSS and segmental circular saw blade processing

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 diameter (40) 130 - 850 mm, tooth pitch 1 - 55 mm, number of teeth 2 – 998, sawblade thickness up to 8 grinding wheel diameter 200 x 32 mm, coolant pressure approx 6 bar, coolant tank capacity approx 300 l, grinding motor 3 kW, connected load approx. 5,5 kw / 400 V / 60 Hz, weight approx. 1600 kg, dimensions w x d x h 1250 x 1870 x 2250 mm, colour grey.

Accessories:

Full enclosure,
Automatic central lubrication,
Coolant system with pump,
External ultra-fine filter system (420 mm filter length),
Automatic threading of the grinding wheel, including checking the saw blade diameter and tooth pitch,
Integrated after-hours switch off function,
Device for the fully automatic chamfering of regularly toothed saw blades,
Programs for all standard arch and pointed teeth,
Program for grinding several saw blades on the same outside diameter,
Program for grinding one-sided helical saw blades (45 °),
Service software with display of error diagnosis on the screen,
Automatic switching of the peripheral speed between CBN and slide grinding wheels,
Integrated modem for remote diagnosis and maintenance as well as online application support,
Conversion kit for oil (pressure relief flap, electromechanical door lock, pressure switch, etc.),
Aerosol fire extinguishing system,
Oil sump,
Electrostatic extractor,
Machine light,
1 saw blade holder F1730 for grinding saw blades from 130 mm to 850 mm.

SuS Stock-List

HSS and segmental circular saw blade chamfering machine (automatic)



Article no.: M01126 **Machine no.:** 87135
Made by: Loroach **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.

3-axis tool pre-setting machine (CNC controlled)



Article no.: M01376 **Machine no.:** -
Made by: Zoller **Model:** Smartcheck 420ES
Year: 2004 **Category:** Measuring and presetting

Description:

Suitable to measure and pre-set cutting tools manually and automatically. The AWW video processing technology enables the graphical presentation of the measuring tasks.

Specifications:

Measuring range Z-axis 570 mm, measuring range X-axis 125/200 mm, workpiece diameter max. 250/400 mm, workpiece length max. 470 mm, workpiece mount SK 50, Max workpiece weight 10 kg, repeating accuracy +/- 0,002 mm, display accuracy 0,001 mm, runout accuracy 0,002 mm, connected load 230 volts / 50 Hz, air pressure requirement 6 bar, dimensions w x d x h = 1300 x 550 x 920 mm, weight approx. 357 kg, colour light grey.

Accessories:

CNC controlled X and Z axes,
PC with Windows 10 and Software Pilot 3,
Adapter SK50 / SK 40,
Base cabinet.

4-axis tool measuring machine



Article no.: V400S **Machine no.:** -
Made by: Zoller **Model:** Smartcheck 400S
Year: 2007 **Category:** Measuring and presetting

Description:

Suitable for non-contact measurement of cutting tools of all kinds. B. diameter, length and angle dimensions, radii, concentric and axial runout, cylindricity, division, center angle, spiral pitch, spiral angle and much more. In addition, clearance and rake angles, chamfer widths, chamfer angles, grinding wheels and grinding wheel packages etc. can be determined using the additional incident light camera. The camera can also be used to capture and print photos of the cutting edges.

Specifications:

X-axis travel 100 mm, Z-axis travel 400 mm, workpiece holder taper ISO 50, workpiece diameter max. 200 mm, workpiece length max. 570 mm, repeat accuracy +/- 0.002 mm, setting accuracy 0.002 mm, position accuracy 0.001 mm, concentricity 0.002 mm, workpiece weight max. 34.5 kg, weight approx. 350 kg, dimensions W x D x H = 2140 x 620 x 1900 mm, connected load 230 V / 50 Hz, colour anthracite.

Accessories:

Table system integrated with leveling elements,

2 x 15" TFT - colour displays,

Saturn 1-S - image processing technology. Camera with telecentric lens and software for automatic measurement and setting of any tools and tool cutting edges, 35-fold enlargement of the cutting edge, fully automatic recognition of the cutting edge shape, manual measuring slide adjustment.

Saturn-s - incident light measurement technology. Camera with telecentric lens, 50x magnification and software for radial and axial measurement of tools in incident light. Angle, radius and distance measurements.

Electronics saturn 1 - 3-axis "D". Graphical user interface under Windows ", adapter management for 999 zero points, tool management for at least 15,000 tools.

Incident light measurement melis 2D - software for manual measurement of contours by mouse click.

Maxcontur C.R.I.S. - Software for determining the effective dimension on tools such as full radius cutters, cutter heads, die cutters, grinding wheel packages, form cutters and the like,

Radius contour measuring program - Measuring program for graphical output of the radius contour.

Editable test report apus - intermediate storage of the measured values for printing and data output.

Swivel device for incident light camera for radial and axial measurement,

High precision spindle SK50 vacuum,

Support arm for monitors,

Keyboard and mouse tray,

Laser printer including shelf.

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Grinding wheel dressing and profiling machine



Article no.:	M01356	Machine no.:	-
Made by:	Cleveland	Model:	GAPU-5
Year:	2000	Category:	Other equipment

Description:

Suitable to dress and profile diamond and CBN grinding wheels singularly and in multiples by using silicon carbide wheels. The profile of wheel being dressed can be viewed via a projector during the dressing cycle.

Specifications:

Diamond / CBN grinding wheel dia. 30 - 400 mm, max. diamond / CBN grinding wheel width 30 mm, pivot axis: pivot angle +/- 95°, infeed axis travel 70 mm, oscillation stroke max. 70 mm, speed of silicon wheel 700/1400 rpm., speed of diamond / CBN wheel 700/1400 rpm, silicon carbide grinding wheel dimensions 200 x 20 x 32 mm, dia. of profile projector 250 mm, max. magnification 10 : 1, connected load approx. 2.5 kW (400 volts / 50 Hz), weight approx. 690 kg, dimensions w x d x h = 2200 x 1700 x 2000 mm, colour lilac / grey.

Accessories:

Profile projector,
hydraulic driven oscillation axis,
pivot axis digital display,
Extractor,
1 grinding wheel flange.

Grinding wheel dressing and profiling machine



Article no.:	M01315	Machine no.:	-
Made by:	Farman	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.

SuS Stock-List

Wheel profiling and dressing machine,



Article no.:	FC250	Machine no.:	-
Made by:	Farman	Model:	FC 250 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: 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,
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,
Software package for machining straight and single sided bevel rake and clearance surfaces in group toothing,
2 loading wagons,
Automatic flap,
Feed pawl for rake angle > 25 °,
3 magnetic flanges Ø10 / 75 (4 magnets).

8 - axis - CNC - controlled HM circular saw blade grinder



Article no.:	CHD270_ND250	Machine no.:	-
Made by:	Vollmer	Model:	CHD 270 / ND 250
Year:	2016	Category:	TCT circular saw blade processing

Description:

Suitable for automatic grinding of HM circular saw blades on the face and top in one setup. All known tooth geometries (flat, alternating, trapezoidal teeth, etc.) can be ground automatically and in one pass.

Specifications:

Sawblade diameter from 80 - 840 mm (from 100 to 600 mm or 200 to 840 mm with loader), bore diameter from 10 mm, blade thickness up to 14 mm, tooth pitch from 6 - 180 mm, grinding path: rake face with grinding wheel Ø 200 mm: 20 mm, top surface with grinding wheel Ø 125 mm: 15 mm, rake angle from - 35 ° to + 45 °, clearance angle from 5 ° - 45 °, bevel grinding on the tooth back up to 60 °, bevel grinding on the tooth face up to 30 °, bevel grinding on the negative tooth face up to 30 °, tooth height difference any, grinding wheel diameter max. 200 x 32 mm, dimensions machine W x D x H = 2316 x 1860 x 2058 mm, loader W x D x H = 1560 x 5340 x 1994 mm, weight machine approx. 3000 kg, weight loader approx. 2500 kg, connected load 400 V / 50 Hz / 4.4 kW, colour telegrey RAL 7045, RAL 7047.

Accessories:

Loader ND 250 incl. 5 loading wagons
DES 400 data entry station,
Hollow face grinding device (high-frequency spindle with a speed of 35,000 - 60,000 rpm,
Chip breaker grooving machine (spindle speed 8,000 to 20,000 rpm)
Measuring device for grinding wheels and grinding wheel packages,
Probe,
Slide-in keyboard for data management,
Software package for processing carbide-tipped circular sawblades in metalworking
Total enclosure including coolant system,
Oil drip pans for machine and loader,
Device for central coolant system
Automatic fire extinguishing system,
Mist extractor N280 volume flow 900 cbm / h
Automatic central lubrication,
100 intermediate layers made of oil-resistant plastic, bore Ø 35, 52, 82, 110, 135 or 155 mm
Machine light,
1 grinding wheel holder,
1 saw blade magnet holder

SuS Stock-List

Dual TCT circular saw blade side grinding machine (CNC controlled)



Article no.: M01251 **Machine no.:** -
Made by: Walter **Model:** Woodtronic CNC 6 F
Year: 2000 **Category:** TCT circular saw blade processing

Description:

Suitable to automatically grind both sides of carbide tipped circular saw blades simultaneously.

Specifications:

Saw dia. if loaded manually 80 - 1000 (1200) mm, saw dia. by using the automatic regrinding loader 150 - 600 mm, loader capacity approx. 50 saw blades, saw body thickness up to 12 mm, tooth pitch 4 - 125 mm, max. grinding wheel dia. 125 mm, grinding wheel centre bore dia. 32 mm, grinding spindle drive 1.1 kW (3000 rpm.), connected load approx. 12 kW (400 volts / 50 Hz), weight approx. 2200 kg, dimensions w x d x h = 3530 x 1860 x 2275 mm, colour grey RAL 7035 / grey RAL 7043.

Accessories:

2 pallet loader,
Coolant system (oil resistant),
total enclosure,
electrostatic mist extractor,
probe,
automatic central lubrication,
oil collecting pan,
machine light ,
2 grinding wheel flanges,
1 set of mounting rings,
1 set of centering rings,
automatic fire extinguishing system.

TCT circular saw blade face sharpening machine (automatic)



Article no.: M01359 **Machine no.:** -
Made by: Vollmer **Model:** Akemat B 10
Year: 2005 **Category:** TCT circular saw blade processing

Description:

Suitable to sharpen automatically the face on carbided tipped circular saw blades.

Specifications:

Saw dia. 150 - 800 mm, sawblade centre bore from 10 mm, max. saw blade cutting width approx. 20 mm, tooth pitch 8 - 125 mm, rake angle for saws up to 600 mm -30° to $+30^{\circ}$, rake angle for saws up to 800 mm -10° to $+10^{\circ}$, working rate max. 15 teeth per minute, grinding wheel dia. 150 mm, grinding wheel centre bore dia. 32 mm, connected load approximately 1.3 kW (400 volts / 50 Hz), weight approx. 1000 kg, dimensions w x d x h = 1400 x 1465 x 1900 mm, colour blue RAL 5014 / grey RAL 7043.

Accessories:

Manual axis angle pivot device,
Total enclosure,
Grinding wheel protection system,
Machine light,
1 set of centering rings,
2 cams.

TCT circular saw blade sharpening machine (CNC controlled)



Article no.: m01381 **Machine no.:** -
Made by: Vollmer **Model:** CHD 251 R2/ ND230
Year: 2001 **Category:** TCT circular saw blade processing

Description:

Suitable to sharpen automatically 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:

Saw dia. with robot system 130 - 600 mm, saw dia. without robot system 80 - 840 mm, saw blade centre bore dia. with robot system 16 - 180 mm, saw blade centre bore dia. without robot system 10 - 220 mm, saw thickness with robot system up to 5 mm, saw thickness without robot system up to 14 mm, tooth pitch with robot 8 - 50 mm, tooth pitch without robot system 8 - 120 mm, rake angle -35° to $+40^{\circ}$, clearance angle 5° to 45° , top bevel grinding up to 45° , face bevel grinding up to 30° , grinding wheel dimensions max. 200 x 32 mm, dimensions machine w x d x h = 2295 x 1743 x 2050 mm, weight machine approx. 2000 kg, dimensions robot w x d x h = 3500 x 1600 x 2000 mm, weight approx. 1400 kg, connected load 5,6 kVA (400 volts / 50 Hz), colour blue RAL 5014 / grey RAL 7035.

Accessories:

- Coolant system,
- Mist extractor,
- Alpha-numerical keyboard for data administration at the control panel,
- Automatic central lubrication,
- Stepless grinding spindle speed,
- 1 magnetic saw blade mount for \varnothing 180 - 400 mm,
- 1 grinding wheel flange,
- Fire extinguishing system,
- Data entry station N174,
- 4 -axis CNC-controlled robot ND 230 (3 pallet loader),
- 4 loading carriages,
- Total enclosure,
- Machine Lamp,
- Oil collecting pan,
- Various separator discs.

TCT circular saw blade sharpening machine (CNC)



Article no.: CP650 **Machine no.:** -
Made by: Vollmer **Model:** CP 650
Year: 2019 **Category:** TCT circular saw blade processing

Description:

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

Specifications:

Saw dia. 80 - 650 mm, saw blade centre bore dia. from 10 mm upwards, saw thickness up to 5 mm, tooth pitch 6 - 100 mm, rake angle -10° to $+30^{\circ}$, clearance angle 5° to 25° , tooth height difference as required, top bevel grinding up to 45° , face bevel grinding up to 15° , grinding wheel dia. 125 mm x 32mm, connected load approx. (400 volts / 50 Hz), dimensions w x d x h = 1502 x 960 x 1900 mm, weight approx. 950 kg, colour grey RAL 7045/ grey RAL 7047.

Accessories:

Full enclosure,
Coolant system,
Operating system modified Windows version,
Storage of approx. 4000 programs possible,
Standard software package for tooth geometries according to the program overview,
Program for grinding saw blades with group teeth, with different tooth geometry,
Program for newly inserted and broken teeth,
Oscillation grinding on the rake and clearance face,
Automatic grinding wheel compensation based on experience,
USB port,
Automatic central lubrication,
Electrical rake and clearance angle adjustment,
1 feed pawl \varnothing 3 mm,
1 CHT52 saw blade holder C1 for saw bore diameters from 15 to 105 mm,
1 locating pin \varnothing 10 mm for circular saws \varnothing 80 mm - 220 mm,
1 locating pin \varnothing 12 mm for circular saws \varnothing 80 mm - 220 mm,
1 centering ring for circular saw bore \varnothing 30 mm,
1 grinding wheel flange for face grinding,
1 grinding wheel flange for top grinding,
1 set of calibration tools.

2 axis-NC controlled Universal tool and cutter grinder



Article no.: M01361 **Machine no.:-**
Made by: Schneberger **Model:** Aries
Year: 1996 **Category:** Universal tool and cutter grinders

Description:

Suitable for regrinding of spiral fluted or straight fluted tools and flat grinding via preinstalled standard grinding programs.

Specifications:

X-axis: 360 mm stroke, work piece spindle A-Axis SK 50, Y-axis 250 mm stroke (manual), Z-axis 300 mm stroke (manual), spindle speed step-less adjustable 2000 - 9000 rpm., wheel dia. max. 200 mm, performance grinding motor 2.2 kW, connected load 2,2 kW (400 volts / 50 cycles), weight approx. 1600 kg, dimensions w x d x h = 1395 x 1565 x 1990 mm, colour turquoise/grey.

Accessories:

Glass measuring scales on the linear axes X and Z
Stepless adjustable grinding spindle speed,
Manual central lubrication,
Coolant system,
1 grinding wheel mount,
1 grinding wheel protection cover

5 axis - CNC - controlled universal tool and cutter grinder



Article no.: M01164 **Machine no.:-**
Made by: Schneberger **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
Made by: Schneberger
Year: 2003
Machine no.:-
Model: Corvus gds
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 4.3
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.

Cylindrical grinding machine



Article no.: M01382 **Machine no.:** -
Made by: Rollomatic **Model:** CNC 148 P4
Year: 2001 **Category:** Universal tool and cutter grinders

Description:

Suitable for cylindrical grinding of workpieces of all kinds in HSS and carbide.

Specifications:

Workpiece diameter 0,025 – 12,7 mm, total length 30 - 200 mm, grinding length max. 0 - 200 mm, Z-axis traverse 35 mm; resolution 0.5 μ , X axis traverse 25 mm; 0.1 μ , Y-axis traverse 286 mm; 05 μ , U-axis traverse 15 mm, 0.1 μ , grinding wheel diameter max. 200 mm, roughing motor 1.5 kW, finishing motor 0,75 kW, workpiece spindle stock motor 0,70 kW, speed 300 - 3000 rpm, adjustable, dimensions l x w x h = ca. 1830 x 2040 x 2100 mm, weight ca. 1800 kg, connected load ? KW (400 V / 50 Hz), colour blur RAL 5002/white RAL 9010.

Accessories:

Total enclosure,
Workpiece spindle for W15 collets,
Workpiece loading & unloading robot,
1 chuck W15 \varnothing 4 mm
2 grinding wheel mounts

SuS Stock-List

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 3.0
Software Package 1 (cylindrical mills)
Software Package 2 (tapered mills)
Software Package 3 (drills)
Software Package 16 (warmup program)
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

SuS Stock-List

Universal tool and cutter grinder (CNC controlled)



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

Description:

Suitable to grind and manufacture wood and metal working tools of all kinds.

Specifications:

Working range: longitudinal traverse (X- axis) 470 mm, vertical traverse (Y-axis) 320 mm, cross traverse (Z-axis) 660 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 350 mm, max. dia. of grinding wheel 200 mm, peak performance 24 kW, grinding spindle speed 0 - 7000 rpm., connected load approx. 25 kVA (400 volts / 50 Hz), weight approx. 4500 kg, dimensions w x d x h = 2603 x 2930 x 2273 mm, colour grey RAL 7035 / grey RAL 7043.

Accessories:

- Discloder for up to 40 workpieces,
- Grinding spindle power rating 24 kW,
- Hollow shaft motor of cylindrical grinding,
- Software Toolstudio Standard & Advanced License version 2.1
- Softwarepaket Toolstudio Option drills,
- Softwarepaket Toolstudio Option step tools,
- Softwarepaket Toolstudio Option profile light,
- Software package 1 (cylindrical cutters),
- Software package 2 (tapered helical cutters),
- Software package 3 (drills and step drills),
- Software package 16 (warmup),
- Automatic fire extinguishing system,
- Glass scales on the linear axes,
- Stepless speed control,
- Pneumatic workpiece clamping,
- Probe,
- Band filter system 400 litres,
- Transor 6190-500 A coolant system with chiller unit,
- DSL Electrostatic mist extractor with silencer,
- Oil collecting pan,
- Automatic central lubrication,
- 2 grinding wheel flanges

SuS Stock-List

Universal tool and cutter grinder (manual)



Article no.:	M01366	Machine no.:	-
Made by:	Hahn & Kolb (Hörauf)	Model:	WS 54
Year:	1990	Category:	Universal tool and cutter grinders

Description:

Suitable to manually grind different kinds of cutting tools, milling cutters and drilling tools like shaft cutters, shell end mills, radius cutters, single angle milling cutters, taps, step drills etc. on the outside dia., the face and the spiral.

Specifications:

Max. tool dia. 150 mm, max. grinding length 110 mm, max. workpiece weight 5 kg, helical and relief grinding: stepless from 0 to infinite, regardless of left or right cutting tools, longitudinal traverse 180 mm, cross traverse 130 mm, workhead taper MT 5, angular setting of work head for conical tools +/- 7.5°, swivelling range of work head horizontally and vertically +/- 90°, work head spindle turnable for 360°, max. grinding wheel diameter 125 mm, grinding wheel centre bore 20 mm, connected load approx. 1,3 kW (400 volts / 50 Hz), weight approx. 550 kg, dimensions w x d x h = approx. 1500 x 850 x 1500 mm, colour green RAL 6011.

Accessories:

Optical longitudinal and angle measuring system with measuring microscope,
Radius setting gauge,
Counterholder with tailstock,
Dressing device for straight dressing,
Dust extraction,
Wet grinding device,
13 cover plates,
13 dividing discs,
4 grinding wheel holders,
3 grinding wheel protection hoods.

SuS Stock-List

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,
Longitudinal measuring system with projector,
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.: M01350 **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 and Cutter Grinding Machine



Article no.: Vgrind360 **Machine no.:** -
Made by: Vollmer **Model:** Vgrind 360
Year: 2017 **Category:** Universal tool and cutter grinders

Description:

Tool grinding machine for the complete machining of rotationally symmetrical work pieces, made of solid carbide. With 5 CNC-controlled axes and double vertical grinding spindles in two levels.

Specifications:

Travel X-axis 350 mm, travel Y-axis 450 mm, travel Z-axis 500 mm, travel A-axis 360 °, 450 1 / min. Travel distance C-axis + 15 ° to -200 °, workpiece diameter up to 100 mm, workpiece length from workpiece carrier leading edge up to 360 mm, tool outer Ø max.150 mm, tool bore Ø 20 mm, tool length up to 145 mm, drive power grinding spindle with belt drive: 11 kW 100% ED S1, 23 kW peak power, infinitely variable speed from 1,000 to 8,500 rpm, drive power grinding spindle with direct motor drive (optional): 10 kW 100% ED S1, 21 kW peak power, continuously variable from 2,000 to 15,000 rpm, compressed air max. 6 bar, connected load approx. 18 kVA (400V / 50 Hz), dimensions W x D x H approx. 3098 x 2790 x 2180 mm, weight approx. 4900 kg, colour RAL 7047 telegrey 4, RAL 7045 telegrey 1.

Accessories:

V-1045615 Handwheel box for controlling the axis movements,
V-1051330 Fire extinguishing system with deflagration flap,
V-1051494 Workpiece automation HPR250 consisting of the free arm robot Fanuc LR Mate 200 iD including a double gripper of your choice and automatic loading door,
V-1051546 8-sided grinding wheel changer,
V-1051555 Both grinding spindles with direct motor drive, for automatic tool change,
V-1051581 Automatically controlled coolant distribution,
V-1051585 Coolant drip tray for machine, three-piece,
V-1051595 Measuring system MP250 for automatic measuring of the grinding wheel,
V-1051596 Glass scales for the X, Y and Z axes,
V-1051603 Holder for 6 intermediate bushes with bayonet locking, with outer Ø 20 mm, including reducing sleeve gripper,
V-1051742 Coolant drip tray for automatic tool changer and workpiece magazine,
V-1054798 Chiller (oil version) for cooling the motors and spindles,
V-1055349 A-axis speed up to 1000 rpm.
V-1057413 Workpiece holder system on the A-axis with hydraulic chuck for workpieces with Ø # 20 mm
V-1047194 NUMROTOplus software package,
V-1042735 Software for processing simple end mills,
V-1042736 Software extension for complex end mills,
V-1042740 Software extension for multi-spiral,
V-1042742 Software for processing simple drills / step drills,
V-1042743 Software extension for complex drills / step drill bits,
V-1042762 Software for automatically measuring the workpiece with a probe,
V-1042763 Software for the automatic measurement of grinding wheels,
V-1042766 Software for workpiece automation control,
V-1042767 Collision monitoring software with 3D Simulation,
V-1042769 Software for tool simulation with animation of the grinding process,

Universal tool grinding machine (CNC-controlled)



Article no.: M01358 **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 Toolstudio Standard & Advanced version 3.1
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