

Schütte

CNC Tool and Cutter Grinder

WU 305 *—trend*



The complete package comprises:

- pick-up loader with chain-type magazine for 50 tools,
- grinding wheel changer for 3 sets of wheels,
- pneumatically operated multirange chuck,
- oil mist extractor,
- coolant filtering system,
- grinding spindle speeds of up to 12,000 min⁻¹
- 5 digitally controlled CNC axes.

of sequencing and machining the various tools present in the loader.

A storage magazine that accommodates three different grinding wheel sets including coolant distributor nozzles supports the machining process further. As on all the machines in the WU 305 family, grinding wheels and coolant distributors are exchanged together, with the latter always accurately directed at the machining point.

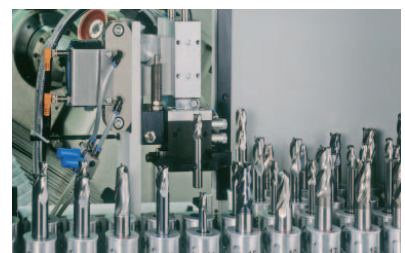
These are all pre-conditions for efficient, cost-effective machining that further increases the overall machine utilisation – a case of „program by day and grind, unattended, by night“.

Full specification at a favourable price

Our concept offers more for your area of application

With the newly developed WU 305 *trend* – exhibited for the first time at EMO 2005 – Schütte has put together a very economical grinding machine package for the toolmaker. The high technological standard of the machine allows its user to fully automatically produce or regrind a large variety of tools.

The WU 305 *trend* features a chain-type loader with room for 50 tools. The tools are held in a multirange chuck. This allows for the machining not only of different types of tools, such as drills, milling cutters, step tools, etc. but also of different shank diameters, in a kind of „mixed operation mode“. The SIGS software – developed by Schütte – offers a simple way



Machine	WU 305 <i>trend</i>	
Linear axes:		
anti-backlash, temperature-controlled AC direct drive with closed-loop control		
Stroke:		
X-axis (longitudinal travel/grinding length)	mm inch	320/230 12.6/0.91
Y-axis (cross travel)	mm inch	250 10
Z-axis (vertical travel).....	mm inch	250 10
Resolution:		
X-, Y- and Z-axis	mm inch	< 0,0001 < 0,000004
Feedrate:		
X-, Y- and Z-axis	mm/min inch/min	max. 18000 709
Rotary axis and universal rotary axis* (A-axis):		
anti-backlash, temperature-controlled AC direct drive with closed-loop control		
Resolution in dividing mode	Grad degree	< 0,0001
Speed range rotary axis.....	min ⁻¹ rpm	0 to ±200
Speed range universal rotary axis*	min ⁻¹ rpm	0 to ±2500*
ISO50 taper to DIN 2080		steep taper 50
Torque	Nm	48
Workpiece clamping.....		pneumatic
Swivel axis for wheelhead (C-axis):		
anti-backlash, temperature-controlled AC direct drive with closed-loop control		
Swivel range	Grad degree	225
Resolution.....	Grad degree	< 0,0002
Swivel speed.....	Grad/s degree/s	200
Grinding spindle and grinding wheel changer:		
Speed.....	min ⁻¹ rpm	0 to ±12000
Motor spindle power rating	kW HP	8 11
Spindle receptor.....		HSK 50 E
Clamping system for grinding wheel arbor and coolant distributors		automatic
Number of available magazine positions in grinding wheel changer		3
Machine weight:		
including loader system and oil mist extractor	kg	2800
Included in delivery:		
Multirange chuck		
Pick-up loader with chain-type magazine for 50 tools		
Coolant filtering system		
Electrostatic oil mist extractor		
		Alternatively this machine can be supplied without automatic loading system.
* Option		

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