



- designed for continuous operation at maximum speed, very quiet operation, maximum accuracy and minimal heat accumulation ensure optimum machining results
- Dual guides for linear table motion
- Spindle head and Z-axis move on precision linear guides with preloaded ball screws
- Servo drives on Y- and Z-axis and hydraulic linear table movement can be adjusted via an infinitely variable electronic proportional valve for precise and consistent feed
- 3-step electronic hand-wheel allows for precise positioning of the Y- and Z-axis



External hydraulic unit and oil cooler ensure thermal stability during continuous operation

NC Control

- intuitive dialog-guided programming for automatic and semi-automatic sanding and dressing of grinding wheels, optimized for surface grinding
- Programming of grinding cycles per touchscreen
- easy adjustment of important parameters and feed rate during machining
- automatic fault and performance monitoring, display shows error message

Standard Equipment

magnetic clamping plate, coolant system with magnetic separator, central lubrication, hydraulic oil cooler, grinding wheel flange, diamond dresser with holder, balancing station, setup feet, tool box, operator manual

Options

- cooling water with magnetic and tape filtration for HFS NC

Part No.

251573

Specifications HFS NC

52

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104

160

Working area

Grinding area (max.)	mm	520x200	720x300	1.020x400	1.700x400
Workpiece weights incl. magnetic clamping plate (max.)	kg	210	400	680	850
Spindle axis-to-table surface distance	mm	470	640	640	640
Dimensions magnetic clamping plate	mm	500x200	700x300	1.000x400	1.600x400
T-slots, width	mm	14	14	14	14
Number of T-slots	Pieces	1	1	3	3
Division (electronic hand-wheel) Y-axis	mm	0,001 / 0,005 / 0,01	0,001 / 0,005 / 0,01	0,001 / 0,005 / 0,01	0,001 / 0,005 / 0,01
Division (electronic hand-wheel) Z-axis	mm	0,01 / 0,05 / 0,1	0,01 / 0,05 / 0,1	0,01 / 0,05 / 0,1	0,01 / 0,05 / 0,1

Travels

Travel X-axis	mm	560	800	1.120	1.780
Travel Z-axis	mm	230	330	430	430

Headstock

Spindle speed	1/min	500 - 3.500	500 - 2.300	500 - 2.300	500 - 2.300
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Rapid feed

Rapid feed Y-/Z-axis	mm/min	(10) 0 - 1.200	(10) 0 - 1.200	(10) 0 - 1.200	(10) 0 - 1.200
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Feed

Feed per rotation (electronic hand-wheel) - Y-axis	mm	0,1 / 0,5 / 1,0	0,1 / 0,5 / 1,0	0,1 / 0,5 / 1,0	0,1 / 0,5 / 1,0
Feed per rotation (electronic hand-wheel) - Z-axis	mm	1,0 / 5,0 / 10	1,0 / 5,0 / 10		1,0 / 5,0 / 10
Feed speed - X-axis (hydraulic)	m/min	min. 3 / max. 25	min. 3 / max. 25	min. 3 / max. 25	min. 3 / max. 25
Feed speed Z-axis	mm/min	0 - 1.200	0 - 1.200	0 - 1.200	0 - 1.200
Autom. feed - Micro-feed Y-axis	mm	0,0001 - 0,01	0,0001 - 0,01	0,0001 - 0,01	0,0001 - 0,01
Autom. feed - Coarse feed Y-axis	mm	0,005 - 0,04	0,005 - 0,04	0,005 - 0,04	0,005 - 0,04
Automatic Z-axis feed	mm	0,1 - 15	0,1 - 25	0,1 - 25	0,1 - 25

Drive capacity

Motor rating main drive	kW	3,7	3,7	5,5	5,5
Motor rating hydraulic pump	kW	1,5	1,5	2,2	2,2
Motor rating coolant pump	kW	0,09	0,18	0,18	0,18
Z- and Y-axis servo motor	kW	0,55 / 0,55	0,55 / 0,55	0,55 / 0,55	0,55 / 1

Measures and weights

Grinding wheel dimensions	mm	255x50,8x25	400x127x40	400x127x40	400x127x40
Overall dimensions (length x width x height)	m	2,4x1,75x2,4	2,9x1,9x2,5	3,8x2x2,5	6,5x3x2,5
Weight	kg	2.050	2.500	3.050	5.400
Part No.		122415	122420	122425	122430



Dressing mode for grinding wheels with automatic dimension and speed (rpm) compensation ensures constant grinding rate and can be entered while in auto mode