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MACHINING CENTERS AT A GLANCE

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GS 600 – THE HIT IN SPACE



5-Axis Machining Center GS 600/5-T

TECHNICAL DATA

Type	GS 600E/3	GS 600E/5	GS 600/5-T	GS 600/5-FDT
Working Range				
Traverse Path X-Y-Z-Axis	460 / 600 / 400 mm			
Rigid fixed base table				
Clamping Surface (w x d)	600 x 700 mm			
NC-Swivel-and-Rotary-Table				
Drives at Swivel- and Rotary-Axis		conventional indirect	Torque direct	
Diameter Machine-Table C-Axis		Ø 320 [400 x 400] mm		
Feed-Drive-System X-, Y- and Z-Axis				
Max. Rapid Travel X-, Y-, Z-Axis at TCP	30 [75]	75 m/min		
Motor-Spindle-Drive				
High Frequency Motor-Spindle				
Cutting-Tool Interface	HSK-A63 [HSK-E50]			HSK-T63
Motor-Spindle Power at CDF 25 %	26 [44] [17] kW			24 kW
Motor-Spindle Torque at CDF 25 %	116 [40] [11] Nm			92 Nm
Variable Speed Range max.	18.000 [30.000] [38.000] min ⁻¹			18.000 min ⁻¹
Tool-Magazin				
Tool Positions, Type	40 Disc [76 Twin-Disc], [224 Rack-Type]			
Max. Tool Lenght	300 mm [150 mm Twin-Disc / 350 mm and 175 mm Rack-Type]			
Linear Encoders X-, Y-, Z-Axis	indirect		absolut, direct	
Positional Tolerance Tp acc. VDI/DGQ 3441	≤ 0,007 mm			
CNC-Controls	Heidenhain TNC 640, [Heidenhain TNC7], [Siemens SINUMERIK ONE]			



5-Axis Machining Center GS 800/5-FDT

TECHNICAL DATA

Type	GS 800/3	GS 800/5-T	GS 800/5-FDT
Working Range			
Traverse Path X-Y-Z-Axis	660 / 800 / 550 mm		
Rigid fixed base table			
Clamping Surface (w x d)	920 x 900 mm		
NC-Swivel-and-Rotary-Table			
Drives at Swivel- and Rotary-Axis		Torque direct	
Diameter Machine-Table C-Axis		Ø 470 [Ø 600] [Ø 600 x 470 flattened] mm	
Feed-Drive-System X-, Y- and Z-Axis			
Max. Rapid Travel X-, Y-, Z-Axis at TCP	75 m/min		
Motor-Spindle-Drive			
High Frequency Motor-Spindle			
Cutting-Tool Interface	HSK-A63 [HSK-E50]		HSK-T63
Motor-Spindle Power at CDF 25 %	26 [44] [17] kW		24 kW
Motor-Spindle Torque at CDF 25 %	116 [40] [11] Nm		92 Nm
Variable Speed Range max.	18.000 [30.000] [38.000] min ⁻¹		18.000 min ⁻¹
Tool-Magazin			
Tool Positions, Type	40 Disc, [76 Twin-Disc], [224 Rack-Type]		
Max. Tool Lenght	300 mm [150 mm Twin-Disc / 350 mm and 175 mm Rack-Type]		
Linear Encoders X-, Y-, Z-Axis	absolut, direct		
Positional Tolerance Tp acc. VDI/DGQ 3441	≤ 0,007 mm [≤ 0,005] mm		
CNC-Controls	Heidenhain TNC 640, [Heidenhain TNC7], [Siemens SINUMERIK ONE]		

GS 1000 – THE BESTSELLER



5-Axis Machining Center GS 1000/5-FDT

TECHNICAL DATA

Type	GS 1000/3	GS 1000/5	GS 1000/5-T	GS 1000/5-FDT
Working Range				
Traverse Path X-Y-Z-Axis	800 / 800 / 600 mm			
Rigid fixed base table				
Clamping Surface (w x d)	920 x 900 mm			
NC-Swivel-and-Rotary-Table				
Drives at Swivel- and Rotary-Axis		conventional indirect	Torque direct	
Diameter Machine-Table C-Axis		Ø 630 [800] [Ø 800 x 630] mm		
Feed-Drive-System X-, Y- and Z-Axis				
Max. Rapid Travel X-, Y-, Z-Axis at TCP	75 [100] m/min			
Motor-Spindle-Drive				
High Frequency Motor-Spindle				
Cutting-Tool Interface	HSK-A63			HSK-T63
Motor-Spindle Power at CDF 25 %	50 [40/48] [30] [44] kW			50 [48] kW
Motor-Spindle Torque at CDF 25 %	187 [136/170] [96] [40] Nm			187 [170] Nm
Variable Speed Range max.	12.000 min ⁻¹ [18.000] [24.000] [30.000] min ⁻¹			12.000 [18.000] min ⁻¹
Tool-Magazin				
Tool Positions, Type	33 [63] [66] [75] [126] [150] [224 Rack-Type]			
Max. Tool Lenght	350 [400] mm			
Linear Encoders X-, Y-, Z-Axis	absolut, direct			
Positional Tolerance Tp acc. VDI/DGQ 3441	≤ 0,007 [≤ 0,005] mm			
CNC-Controls	Heidenhain TNC 640, [Heidenhain TNC7], [Siemens SINUMERIK ONE]			

[Option]



5-Axis Machining Center GS 1200/5-FDT

TECHNICAL DATA

Type	GS 1200/3	GS 1200/5-T	GS 1200/5-FDT	
Working Range				
Traverse Path X-Y-Z-Axis	1000/1200/800 mm			
Rigid fixed base table				
Clamping Surface (w x d)	1100 x 1200 mm			
NC-Swivel-and-Rotary-Table				
Drives at Swivel- and Rotary-Axis	Torque direct			
Diameter Machine-Table C-Axis	Ø 800 [Ø 900] [Ø 1000] [Ø 1200 x 1000] mm			
Feed-Drive-System X-, Y- and Z-Axis				
Max. Rapid Travel X-, Y-, Z-Axis at TCP	75 [100] m/min			
Motor-Spindle-Drive				
High Frequency Motor-Spindle				
Cutting-Tool Interface	HSK-A63 [HSK-A100]		HSK-T63 [HSK-T100]	
Motor-Spindle Power at CDF 25 %	50 [72] [60] [40/48] [44] [30] kW		50 [60] [48] kW	
Motor-Spindle Torque at CDF 25 %	187 [508] [350] [136/170] [96] [40] Nm		187 [350] [170] Nm	
Variable Speed Range max.	12.000 [10.000] [14.000] [18.000][24.000] [30.000] min ⁻¹		12.000 [14.000] [18.000] min ⁻¹	
Tool-Magazin				
Tool Positions, Type	45 [33] [63] [66] [75] [90] [126] [150] [224/250 Rack-Type]			
Max. Tool Lenght	500 mm			
Linear Encoders X-, Y-, Z-Axis	absolut, direct			
Positional Tolerance Tp acc. VDI/DGQ 3441	≤ 0,007mm			
CNC-Controls	Heidenhain TNC 640, [Heidenhain TNC7], [Siemens SINUMERIK ONE]			

[Option]

GS 1400 – THE FLAGSHIP



5-Axis Machining Center GS 1400/5-FDT

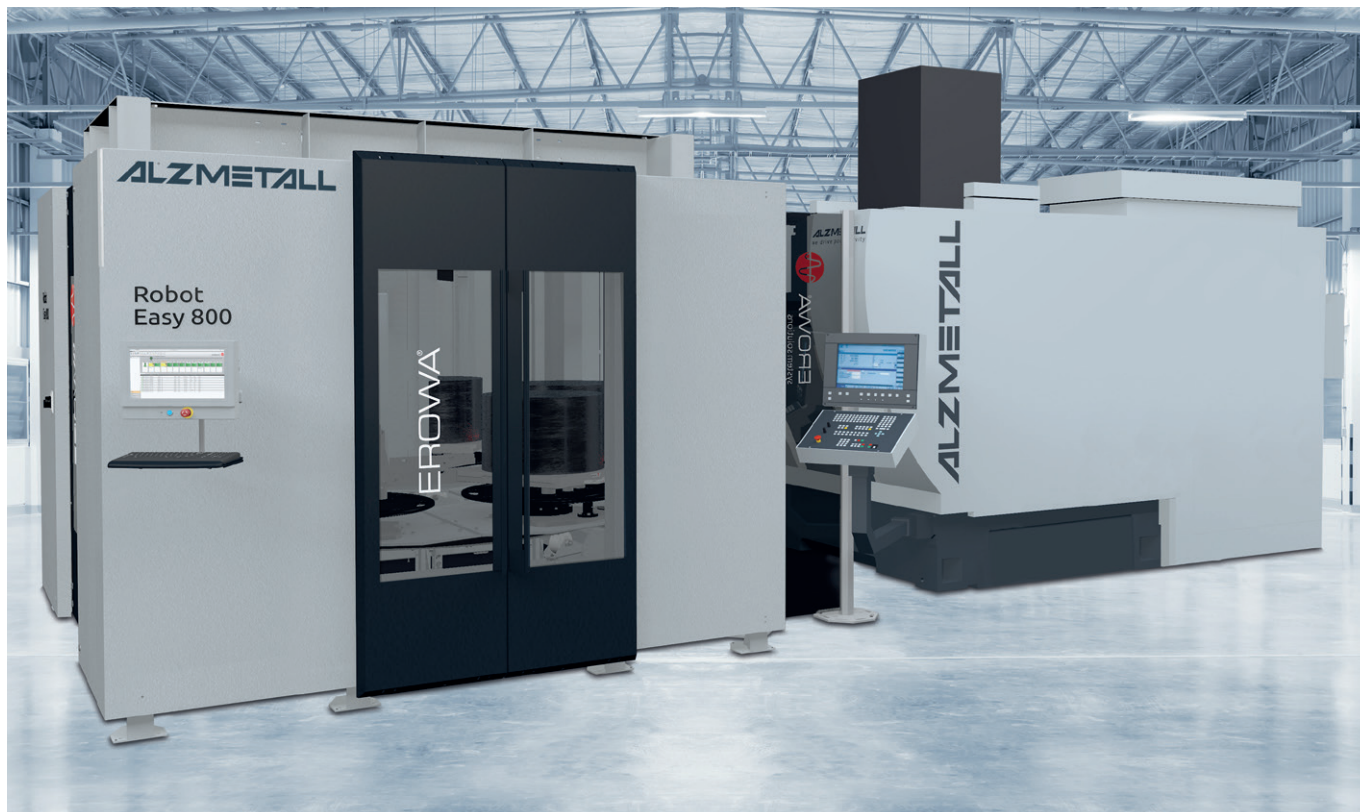
TECHNICAL DATA

Type	GS 1400/3	GS 1400/5-T	GS 1400/5-FDT
Working Range			
Traverse Path X-Y-Z-Axis	1200/1300/800 mm		
Rigid fixed base table			
Clamping Surface (w x d)	1300 x 1400 mm		
NC-Swivel-and-Rotary-Table			
Drives at Swivel- and Rotary-Axis		Torque direct	
Diameter Machine-Table C-Axis		Ø 800 [Ø 900] [Ø 1000] [Ø 1200 x 1000] mm	
Feed-Drive-System X-, Y- and Z-Axis			
Max. Rapid Travel X-, Y-, Z-Axis at TCP	85 m/min		
Motor-Spindle-Drive			
High Frequency Motor-Spindle			
Cutting-Tool Interface	HSK-A100 [HSK-A63]		HSK-T100 [HSK-T63]
Motor-Spindle Power at CDF 25 %	60 [72] [48] [30] [44] kW		60 [48] kW
Motor-Spindle Torque at CDF 25 %	350 [508] [170] [96] [40] Nm		350 [170] Nm
Variable Speed Range max.	14.000 [10.000] [18.000] [24.000] [30.000] min ⁻¹		14.000 [18.000] min ⁻¹
Tool-Magazin			
Tool Positions, Type	33 [45] [63] [66] [75] [90] [126] [150] [224/250 Rack-Type]		
Max. Tool Lenght	425 [500] mm		
Linear Encoders X-, Y-, Z-Axis			
Positional Tolerance Tp acc. VDI/DGQ 3441	≤ 0,007 [≤ 0,005] mm		
CNC-Controls	Heidenhain TNC 640, [Heidenhain TNC7], [Siemens SINUMERIK ONE]		

[Option]



ALZMETALL GS 600/5-T and WU-robot cell RZ-3/20 implementation for specific part handling. Transfer weight of 20 kg dependent on inserted gripper.



Automation solution ALZMETALL GS 1000 and EROWA ERE800 implemented for workpiece dimension $\varnothing 850 \times 1000$ mm. Transfer weight max. 800 kg, 6-12 Magazine-Positions, 6,4 metric tons Magazine capacity.

AUTOMATION SOLUTIONS



ALZMETALL GS 1000 and INDUMATIK Ultralight 300 implementation. Transfer weight of max. 300 kg, 3-12 pallet positions for pallets 320 x 320 mm up to 630 x 630 mm. Transfer carrier drive for operator access.



Flexible manufacturing cell with ALZMETALL GS 1000 and GS 800. Transfer weight of max. 400 kg, 28 work piece pallets for two pallet dimensions 470 x 470 mm and 700 x 700 mm.

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