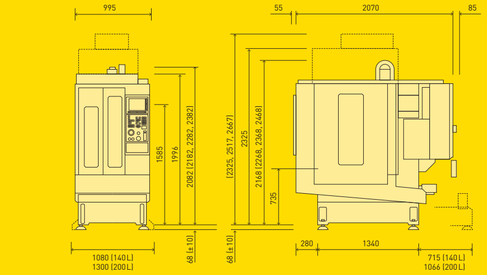
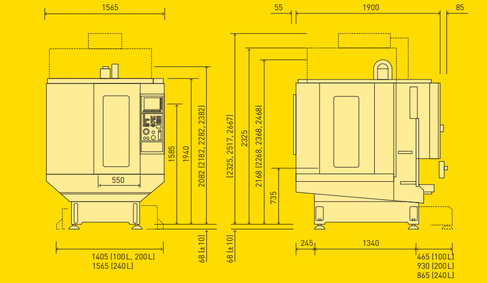
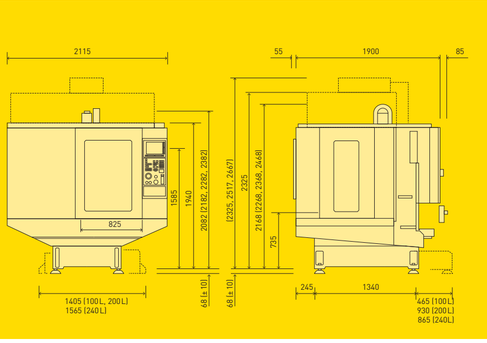
Three models for every requirement

Technical data

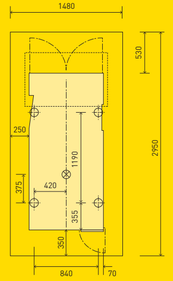
Dimensions

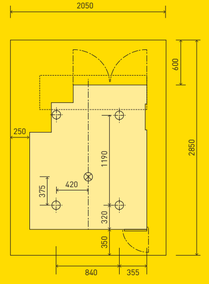


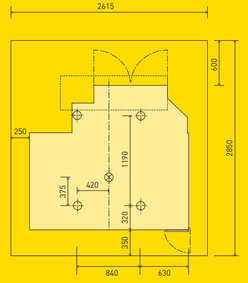




Floor plan







Robodrill α-D*i*A series		α-D21S*i*A5	α-D21M*i*A5	α-D21L*i*A5
Travel X/Y/Z	mm	300 x 300 x 330	500 x 400 x 330	700 x 400 x 330
Max. tool length (0–24,000 min^{-1})	mm	250		
Max. tool diameter	mm	80		
Table size	mm	630 x 330	650 x 400	850 x 410
Max. table load	kg	200	300	
Max. tool weight (0–24,000 min^{-1})	kg	3		
Distance from spindle nose to table	mm	250–580 with HC100		
Controller		FANUC 31*i*-B5		
Spindle speed (min^{-1})		10000/24000		
Spindle load	10,000 min^{-1}	78 Nm, 12.5 kW (1 min), 3.7 kW continuous operation		
	24,000 min^{-1}	35 Nm, 26 kW (1 min), 4.5 kW continuous operation		
Rapid traverse in all axes		54 m/min		
Acceleration X/Y/Z		1.5 G		
Number of tools		21		
Tool change time	chip to chip	1.6 s (2 kg/tool)		
Thread cutting	10,000 min^{-1}	6,000 min^{-1}		
	24,000 min^{-1}	8,000 min^{-1}		
Programmable cutting feed		30,000 mm/min		
Spindle holder		BT30/SK30 DIN 69871A (optional BBT30)		
Positioning accuracy ISO 230-2		0.006 mm		
Repeatability ISO 230-2		+/- 0.002 mm		
Air pressure consumption		150L/min 0.35-0.55 MPa (3.5-5.5 bar)		
Max. machine weight/with DDR-T	t	1.9/2.1	2.0/2.2	2.1/2.3

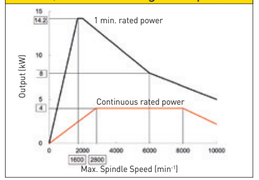
Standard equipment

Dual Check Safety (DCS)	Program simulation
Manual pulse generator	Quick Editor
10.4" color LCD screen	Setup file
Dynamical graphic display	Maintenance screen
Ethernet	Production counter
Interface for USB, CF card, RS232C and RJ45	Tool offset memory C
Alphanumerical operators panel	Rigid tapping
Variable spindle orientation M19	Sub program call (M98[M198]/M99)
LED interior lighting	AI contour control
20 free M-codes	Helical interpolation
16 free digital inputs/outputs	Canned cycles for drilling
Multiple language selection	Coordinate system rotation
Thermal displacement compensation (X-/Y-/Z-axis)	Custom PMC function
Background editing	Manual Guide *i* programming
Additional workpiece coordinate system 48 pairs (G54.1)	

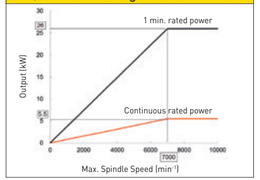
Optional equipment

Center through coolant
High-speed spindle with 24,000 rpm
Signal lamp
Automatic front door and/or side door
SK30-DIN-69871A tool holder
ATA Data Server with 2 GB
Conical/spiral interpolation
Expandable to 4 or 5 axes
4/5 axes machining compensation function (TWP/TCP/3DCC)
Nano smoothing
AI contour control II (200 blocks)
Look ahead blocks expansion (1000 blocks)
Different coolant systems with and without chip conveyer
Profibus interface
Tool/workpiece monitoring and measurement
Additional FANUC options on request

Spindle output
10,000 min^{-1} (High Torque)



Spindle output
10,000 min^{-1} (High Acceleration)



Spindle output
24,000 min^{-1} (High Speed)