

ROBODRILL α -DiB Plus series Mechanical specifications



		α - D21SiB5 Plus	α - D21MiB5 Plus	α - D21LiB5 Plus
Travel X/Y/Z	mm	300 x 300 (+100) x 330	500 x 400 x 330	700 x 400 x 330
Table size	mm	630 x 330	650 x 400	850 x 410
Max. table load	[kg]	200	300	300
Machine mass/with DDR-TiB	[t]	2/2.2	2/2.2	2.1/2.3
Max. tool length (0-24,000 rpm)	mm	190	250	250
Max. tool diameter	mm	80	80	80
Max. tool mass (0-24,000 rpm)	kg	3	3	3
Total mass	kg	33	33	33
Number of tools		21	21	21
Spindle holder BT30/SK30 DIN 69871A		o	o	o
Spindle holder BBT30		●	●	●
Distance from spindle nose to table [with HC100]	mm	250-580	250-580	250-580
Controller		31i-B5 Plus	31i-B5 Plus	31i-B5 Plus
Spindle speed	rpm	10000 24000	10000 24000	10000 24000
Spindle load 10,000 rpm (1 min)	Nm kW	80 14.2	80 14.2	80 14.2
Spindle load 10,000 rpm (continuous operation)	Nm kW	13.6 4	13.6 4	13.6 4
Spindle load 24,000 rpm (1 min)	Nm kW	35 26	35 26	35 26
Spindle load 24,000 rpm (continuous operation)	Nm kW	7.5 5.5	7.5 5.5	7.5 5.5
Rapid traverse in all axes	m/min	54	54	54
Maximum programmable cutting feed	mm/min	30000	30000	30000
Acceleration X/Y/Z [G] (100kg table load, 2kg-tool)		1.6/1.2/1.6	1.6/1.2/1.6	1.4/1.0/1.6
Tool change time [2 kg-tool] [cut to cut]	s	1.6	1.6	1.6
Bidirectional accuracy of positioning of an axis (ISO230-2:1988)	mm	< 0.006	< 0.006	< 0.006
Bidirectional repeatability of positioning of an axis (ISO230-2:1997,2006)	mm	< 0.004	< 0.004	< 0.004
Air pressure consumption	L/min MPa units	160 0.35-0.55	160 0.35-0.55	160 0.35-0.55

- Not available ● Available ○ Optional

ROBODRILL α -DiB ADV Plus series Mechanical specifications



		α - D21S/B5ADV Plus	α - D21Mi/B5ADV Plus	α - D21Li/B5ADV Plus
Travel X/Y/Z	mm	300 x 300 (+100) x 400	500 x 400 x 400	700 x 400 x 400
Table size	mm	630 x 330	650 x 400	850 x 410
Max. table load	[kg]	200	400	400
Machine mass/with DDR-TiB	[t]	2.2/2.4	2.2/2.4	2.3/2.5
Max. tool length (0-24,000 rpm)	mm	190	250	250
Max. tool diameter	mm	80	80	80
Max. tool mass (0-24,000 rpm)	kg	4	4	4
Total mass	kg	30	30	30
Number of tools		21	21	21
Spindle holder BT30/SK30 DIN 69871A		○	○	○
Spindle holder BBT30		●	●	●
Distance from spindle nose to table [with HC200]	mm	280-680	280-680	280-680
Controller		31i-B5 Plus	31i-B5 Plus	31i-B5 Plus
Spindle speed	rpm	10000 24000	10000 24000	10000 24000
Spindle load 10,000 rpm (1 min)	Nm kW	80 14.2	80 14.2	80 14.2
Spindle load 10,000 rpm (continuous operation)	Nm kW	13.6 4	13.6 4	13.6 4
Spindle load 24,000 rpm (1 min)	Nm kW	35 26	35 26	35 26
Spindle load 24,000 rpm (continuous operation)	Nm kW	7.5 5.5	7.5 5.5	7.5 5.5
Rapid traverse in all axes	m/min	54	54	54
Maximum programmable cutting feed	mm/min	30000	30000	30000
Acceleration X/Y/Z [G] (100kg table load, 2kg-tool)		1.6/1.2/1.6	1.6/1.2/1.6	1.4/1.0/1.6
Tool change time [2 kg-tool] [cut to cut]	s	1.3	1.3	1.3
Bidirectional accuracy of positioning of an axis (ISO230-2:1988)	mm	< 0.006	< 0.006	< 0.006
Bidirectional repeatability of positioning of an axis (ISO230-2:1997,2006)	mm	< 0.004	< 0.004	< 0.004
Air pressure consumption	L/min MPa units	160 0.35-0.55	160 0.35-0.55	160 0.35-0.55

- Not available ● Available ○ Optional

ROBODRILL α -DiB Plus series Mechanical specifications

		α - D14SiB5 Plus	α - D14MiB5 Plus	α - D14LiB5 Plus
Travel X/Y/Z	mm	300 x 300 (+100) x 330	500 x 400 x 330	700 x 400 x 330
Table size	mm	630 x 330	650 x 400	850 x 410
Max. table load	[kg]	200	300	300
Machine mass/with DDR-TiB	[t]	2/2.2	2/2.2	2.1/2.3
Max. tool length (0-24,000 rpm)	mm	190	250	250
Max. tool diameter	mm	80	80	80
Max. tool mass (0-24,000 rpm)	kg	3	3	3
Total mass	kg	33	33	33
Number of tools		14	14	14
Spindle holder BT30/SK30 DIN 69871A		○	○	○
Spindle holder BBT30		●	●	●
Distance from spindle nose to table (with HC100)	mm	250-580	250-580	250-580
Controller		31i-B5 Plus	31i-B5 Plus	31i-B5 Plus
Spindle speed	rpm	10000 24000	10000 24000	10000 24000
Spindle load 10,000 rpm (1 min)	Nm kW	80 14.2	80 14.2	80 14.2
Spindle load 10,000 rpm (continuous operation)	Nm kW	13.6 4	13.6 4	13.6 4
Spindle load 24,000 rpm (1 min)	Nm kW	35 26	35 26	35 26
Spindle load 24,000 rpm (continuous operation)	Nm kW	7.5 5.5	7.5 5.5	7.5 5.5
Rapid traverse in all axes	m/min	54	54	54
Maximum programmable cutting feed	mm/min	30000	30000	30000
Acceleration X/Y/Z [G] (100kg table load, 2kg-tool)		1.6/1.2/1.6	1.6/1.2/1.6	1.4/1.0/1.6
Tool change time (2 kg-tool) [cut to cut]	s	1.6	1.6	1.6
Bidirectional accuracy of positioning of an axis (ISO230-2:1988)	mm	< 0.006	< 0.006	< 0.006
Bidirectional repeatability of positioning of an axis (ISO230-2:1997,2006)	mm	< 0.004	< 0.004	< 0.004
Air pressure consumption	L/min MPa units	160 0.35-0.55	160 0.35-0.55	160 0.35-0.55

- Not available ● Available ○ Optional

ROBODRILL α -DiB ADV Plus series Mechanical specifications

		α - D14SiB5ADV Plus	α - D14MiB5ADV Plus	α - D14LiB5ADV Plus
Travel X/Y/Z	mm	300 x 300 (+100) x 400	500 x 400 x 400	700 x 400 x 400
Table size	mm	630 x 330	650 x 400	850 x 410
Max. table load	[kg]	200	400	400
Machine mass/with DDR-TiB	[t]	2.2/2.4	2.2/2.4	2.3/2.5
Max. tool length (0-24,000 rpm)	mm	190	250	250
Max. tool diameter	mm	80	80	80
Max. tool mass (0-24,000 rpm)	kg	4	4	4
Total mass	kg	30	30	30
Number of tools		14	14	14
Spindle holder BT30/SK30 DIN 69871A		○	○	○
Spindle holder BBT30		●	●	●
Distance from spindle nose to table [with HC200]	mm	280-680	280-680	280-680
Controller		31i-B5 Plus	31i-B5 Plus	31i-B5 Plus
Spindle speed	rpm	10000 24000	10000 24000	10000 24000
Spindle load 10,000 rpm (1 min)	Nm kW	80 14.2	80 14.2	80 14.2
Spindle load 10,000 rpm (continuous operation)	Nm kW	13.6 4	13.6 4	13.6 4
Spindle load 24,000 rpm (1 min)	Nm kW	35 26	35 26	35 26
Spindle load 24,000 rpm (continuous operation)	Nm kW	7.5 5.5	7.5 5.5	7.5 5.5
Rapid traverse in all axes	m/min	54	54	54
Maximum programmable cutting feed	mm/min	30000	30000	30000
Acceleration X/Y/Z [G] (100kg table load, 2kg-tool)		1.6/1.2/1.6	1.6/1.2/1.6	1.4/1.0/1.6
Tool change time [2 kg-tool] [cut to cut]	s	1.3	1.3	1.3
Bidirectional accuracy of positioning of an axis (ISO230-2:1988)	mm	< 0.006	< 0.006	< 0.006
Bidirectional repeatability of positioning of an axis (ISO230-2:1997,2006)	mm	< 0.004	< 0.004	< 0.004
Air pressure consumption	L/min MPa units	160 0.35-0.55	160 0.35-0.55	160 0.35-0.55

- Not available ● Available ○ Optional