

robolink® D | Rotary axis | Technical data

Rotary axis with two PRT slewing rings, with ball bearings



Order key

Type	Options
robolink®	Direct drive
Installation size	Design
Gear ratio	Variation

RL-D-20-105-38-010BB

Technical data

Part No.	Size (H x W x D)	Shaft Ø	Trans- mission	Axis distance	Backlash	Breakaway torque	Max. axial dyn. load on output
	[mm]	[mm]	[mm/rev]	[mm]	[°]	[cNm]	[N]
RL-D-20-105-38-010BB	90 x 80 x 67	8	1:38	31	< 0.5°	< 5	> 250
RL-D-20-105-70-010BB	90 x 80 x 67	8	1:70	31	< 0.5°	< 5	> 250
RL-D-30-105-5-010BB	110 x 100 x 94	10	1:5	40	< 0.5°	< 7	> 450
RL-D-30-105-50-010BB	110 x 100 x 94	10	1:50	40	< 0.5°	< 7	> 450
RL-D-30-105-70-010BB	110 x 100 x 94	10	1:70	40	< 0.5°	< 7	> 450
RL-D-50-105-48-010BB	170 x 150 x 103	15	1:48	63	< 0.5°	< 10	> 1,000
RL-D-50-105-70-010BB	170 x 150 x 103	15	1:70	63	< 0.5°	< 10	> 1,000

Part No.	Speed at max. load	Weight	Efficiency	Moment of breakage (static)	Max. output Dynamic torque 12rpm	
					Periodic use (<30%)	Continuous use
	[rpm]	[g]		[Nm]	[Nm]	[Nm]
RL-D-20-105-38-010BB	20	320	0.45	30	10	5
RL-D-20-105-70-010BB	20	320	0.35	20	5	2.5 (9rpm)
RL-D-30-105-5-010BB	12	620	0.65	40	10	5
RL-D-30-105-50-010BB	12	620	0.40	60	20	10
RL-D-30-105-70-010BB	12	620	0.30	30	12	7.5 (6rpm)
RL-D-50-105-48-010BB	8	2,730	0.40	180	50	25
RL-D-50-105-70-010BB	8	2,730	0.30	140	40	20

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Rotary axis with one PRT slewing rings, with ball bearings



Order key

Type	Options
robolink®	Direct drive
Installation size	Design
Gear ratio	Variation

RL-D-20-106-38-010B5

Technical data

Part No.	Size (H x W x D)	Shaft Ø	Trans- mission	Axis distance	Backlash	Breakaway torque	Max. axial dyn. load on output
	[mm]	[mm]	[mm/rev]	[mm]	[°]	[cNm]	[N]
RL-D-20-106-38-010B5	90 x 80 x 67	8	1:38	31	< 0.5°	< 5	> 250
RL-D-20-106-70-010B5	90 x 80 x 67	8	1:70	31	< 0.5°	< 5	> 250
RL-D-30-106-5-010B5	110 x 100 x 94	10	1:5	40	< 0.5°	< 7	> 450
RL-D-30-106-50-010B5	110 x 100 x 94	10	1:50	40	< 0.5°	< 7	> 450
RL-D-30-106-70-010B5	110 x 100 x 94	10	1:70	40	< 0.5°	< 7	> 450
RL-D-50-106-48-010B5	170 x 150 x 103	15	1:48	63	< 0.5°	< 10	> 1,000
RL-D-50-106-70-010B5	170 x 150 x 103	15	1:70	63	< 0.5°	< 10	> 1,000

Part No.	Speed at max. load	Weight	Efficiency	Moment of breakage (static)	Max. output Dynamic torque 12rpm	
					Periodic use (<30%)	Continuous use
	[rpm]	[g]		[Nm]	[Nm]	[Nm]
RL-D-20-106-38-010B5	20	280	0.45	30	10	5
RL-D-20-106-70-010B5	20	280	0.35	20	5	2.5 (9rpm)
RL-D-30-106-5-010B5	12	520	0.65	40	10	5
RL-D-30-106-50-010B5	12	520	0.40	60	20	10
RL-D-30-106-70-010B5	12	520	0.30	30	12	7.5 (6rpm)
RL-D-50-106-48-010B5	8	2,140	0.40	180	50	25
RL-D-50-106-70-010B5	8	2,140	0.30	140	40	20