

GRIP HANDLE MEDIUM SIZE DRILLS



FRD-12Z-1C, 16Z-1C
(Inside Lever)

Model	Drilling Capacity (Guidance)		Stall Torque			Free Speed	Type and Size of Spindle		Chuck Capacity	Side to Center		Power		Overall Length		Weight		Max. Air Consumption	
	mm	in	N·m	kgf·m	ft·lb	min ⁻¹	Thread	Taper	mm	mm	in	kW	hp	mm	in	kg	lb	m ³ /min	ft ³ /min
FRD-12Z-1C	12	1/2	22.0	2.2	15.9	1,200	1/2-20	-	13	34	1 11/32	0.66	0.89	324	12 3/4	3.3	7.3	1.20	42.4
FRD-16Z-1C	16	5/8	34.3	3.5	25.3	800	5/8-16	-	16	34	1 11/32	-	0.00	364	14 21/64	3.7	8.1	1.20	42.4

*3/8" Air Inlet Thread Size. 12.7mm(1/2") Air Hose Size. All models can be used for reaming work. FRD-12Z series 8mm capacity, and FRD-16Z series 13mm capacity.

HEAVY-DUTY DRILLS



FRD-20R~32R



FRD-40R, 50R, 65R



FRD-75R, 100R

Model	Capacity (Guidance)				Stall Torque			Free Speed	Socket	Feed Length		Power		Overall Length		Weight		Max. Air Consumption	
	Drilling		Reaming Tapping		N·m	kgf·m	ft·lb	min ⁻¹	M.T.#	mm	in	kW	hp	mm	in	kg	lb	m ³ /min	ft ³ /min
FRD-20R-21S	19	3/4	16	5/8	63.7	6.5	47.0	600	2	67	2 41/64	0.88	1.18	282	11 7/64	7.0	15.4	1.20	42.4
FRD-20R-22S	19	3/4	16	5/8	63.7	6.5	47.0	600	3	67	2 41/64	0.88	1.18	307	12 3/32	7.0	15.4	1.20	42.4
FRD-23R-21S	22	7/8	19	3/4	78.4	8.0	57.8	480	2	67	2 41/64	0.88	1.18	282	11 7/64	7.3	16.0	1.20	42.4
FRD-23R-22S	22	7/8	19	3/4	78.4	8.0	57.8	480	3	67	2 41/64	0.88	1.18	307	12 3/32	7.4	16.3	1.20	42.4
FRD-25R-11S	25	1	22	7/8	147.0	15.0	108.4	530	3	96	3 25/32	2.10	2.82	353	13 29/32	14.0	30.8	3.20	113.0
FRD-28R-11S	28	1 1/8	25	1	177.0	18.0	130.1	430	3	96	3 25/32	2.10	2.82	353	13 29/32	14.0	30.8	3.20	113.0
FRD-32R-11S	32	1 1/4	25	1	196.0	20.0	144.6	380	3	96	3 25/32	2.10	2.82	353	13 29/32	14.5	31.9	3.20	113.0
FRD-32R-12S	32	1 1/4	25	1	196.0	20.0	144.6	380	4	96	3 25/32	2.10	2.82	353	13 29/32	14.5	31.9	3.20	113.0
FRD-40R-11S	44	1 47/64	32	1 1/4	304.0	31.0	224.2	220	4	93	3 43/64	1.80	2.41	446	17 9/16	18.7	41.1	3.20	113.0
FRD-50R-11S	50	2	50	2	431.0	44.0	318.1	150	4	93	3 43/64	1.80	2.41	446	17 9/16	18.7	41.1	3.20	113.0
FRD-65R-1S	65	2 9/16	65	2 9/16	608.0	62.0	448.4	190	5	125	4 59/64	3.30	4.43	487	19 11/64	32.0	70.4	5.50	194.2
FRD-75R-1S	75	3	75	3	1156.0	118.0	855.0	85	5	128	5 3/64	3.10	4.16	600	23 5/8	43.0	94.6	5.50	194.2
FRD-100R-1S	100	4	100	4	1823.0	186.0	1344.8	55	5	128	5 3/64	3.10	4.16	600	23 5/8	43.0	94.6	5.50	194.2

*Air Hose Size: FRD-20R~23R: 1/2", FRD-25R~50R: 3/4", FRD-65R~100R: 1".
*Air Inlet Thread Size: FRD-65R~100R: 1". All other models: 1/2".