



Bravo® Helical-Worm
Double Reduction

DOUBLE REDUCTION • HELICAL/WORM • MOTOR FRAME COMBINATIONS

Reducer Size	NEMA or IEC Frame Size	Dimensions - Inches (MM)				Available Ratios												
		AK	AJ	BD	Bore Dia.	30.1	43	60.2	90.3	120.4	159.1	197.8	258	301	438.6			
518	NEMA 56C	4.50	5.88	6.50	0.625	•	•	•	•	•	•	•	•	•	•			
	IEC 63B5	3.74 (95)	4.53 (115)	5.51 (140)	(11)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪			
	IEC 63B14	2.36 (60)	2.95 (75)	3.54 (90)	(11)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪			
	IEC 71B5	4.33 (110)	5.12 (130)	6.30 (160)	(14)	•	•	•	•	•	•	•	•	•	•			
	IEC 71B14	2.76 (70)	3.35 (85)	4.13 (105)	(14)	•	•	•	•	•	•	•	•	•	•			
520	NEMA 56C	4.50	5.88	6.50	0.625	30.1	43	60.2	77.4	111.8	154.8	184.9	258	292.4	344	430		
	IEC 63B5	3.74 (95)	4.53 (115)	5.51 (140)	(11)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪		
	IEC 63B14	2.36 (60)	2.95 (75)	3.54 (90)	(11)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪		
	IEC 71B5	4.33 (110)	5.12 (130)	6.30 (160)	(14)	•	•	•	•	•	•	•	•	•	•	•		
	IEC 71B14	2.76 (70)	3.35 (85)	4.13 (105)	(14)	•	•	•	•	•	•	•	•	•	•	•		
525	NEMA 56C	4.50	5.88	6.50	0.625	29.5	37.2	46.5	55.8	69.8	87.8	110.9	138.6	166.3	207.9	309.5	369.6	434.3
	NEMA 140TC	4.50	5.88	6.50	0.875	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
	IEC 63B5	3.74 (95)	4.53 (115)	5.51 (140)	(11)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
	IEC 63B14	2.36 (60)	2.95 (75)	3.54 (90)	(11)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
	IEC 71B5	4.33 (110)	5.12 (130)	6.30 (160)	(14)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
	IEC 71B14	2.76 (70)	3.35 (85)	4.13 (105)	(14)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
	IEC 80B5	5.12 (130)	6.50 (165)	7.87 (200)	(19)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
	IEC 80B14	3.15 (80)	3.94 (100)	4.72 (120)	(19)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
	IEC 90B5	5.12 (130)	6.50 (165)	7.87 (200)	(24)	•	•	•	•	•	•	•	•	•	•	•	•	•
	IEC 90B14	3.74 (95)	4.53 (115)	5.51 (140)	(24)	•	•	•	•	•	•	•	•	•	•	•	•	•
534	NEMA 56C	4.50	5.88	6.50	0.625	32.3	46.2	58.9	80.6	103.9	129.4	175.6	240.2	309.5	422.1	443.5	604.8	
	NEMA 140TC	4.50	5.88	6.50	0.875	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	
	IEC 63B5	3.74 (95)	4.53 (115)	5.51 (140)	(11)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	
	IEC 71B5	4.33 (110)	5.12 (130)	6.30 (160)	(14)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	
	IEC 71B14	2.76 (70)	3.35 (85)	4.13 (105)	(14)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	
	IEC 80B5	5.12 (130)	6.50 (165)	7.87 (200)	(19)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	
	IEC 80B14	3.15 (80)	3.94 (100)	4.72 (120)	(19)	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	
	IEC 90B5	5.12 (130)	6.50 (165)	7.87 (200)	(24)	•	•	•	•	•	•	•	•	•	•	•	•	
	IEC 90B14	3.74 (95)	4.53 (115)	5.51 (140)	(24)	•	•	•	•	•	•	•	•	•	•	•	•	

• Reducer selections are available. Refer to dimensional pages for additional dimensions and special conditions for flange mounting hole alignment.
 ■ Reducer selections are available. A bushing will be provided with reducer to achieve input bore diameter shown. Refer to dimensional pages for additional dimensions and special conditions for flange mounting hole alignment.

DOUBLE REDUCTION • HELICAL/WORM • EXACT RATIO COMBINATIONS

518			520			525			534		
TOTAL RATIO	P HELICAL	S 518	TOTAL RATIO	P HELICAL	S 520	TOTAL RATIO	P HELICAL	S 525	TOTAL RATIO	P HELICAL	S 534
30.1	4.3	7	30.1	4.3	7	29.5	1.55	19	32.3	4.62	7
43	4.3	10	43	4.3	10	37.2	1.55	24	46.2	4.62	10
60.2	4.3	14	60.2	4.3	14	46.5	1.55	30	58.9	1.55	38
90.3	4.3	21	77.4	4.3	18	55.8	1.55	36	80.6	1.55	52
120.4	4.3	28	111.8	4.3	26	69.8	1.55	45	103.9	1.55	67
159.1	4.3	37	154.8	4.3	36	87.8	4.62	19	129.4	4.62	28
197.8	4.3	46	184.9	4.3	43	110.9	4.62	24	175.6	4.62	38
258	4.3	60	258	4.3	60	138.6	4.62	30	240.2	4.62	52
301	4.3	70	292.4	4.3	68	166.3	4.62	36	309.5	4.62	67
438.6	4.3	102	344	4.3	80	207.9	4.62	45	422.1	6.3	67
			430	4.3	100	309.5	4.62	67	443.5	4.62	96
						369.6	4.62	80	604.8	6.3	96
						434.3	4.62	94			