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worldwideelectric.net

GEAR
REDUCERS



Gear Reducers

Stock Products Catalog

2019-2020

WorldWide Electric's complete line of Worm Gear, Inline, Helical, Bevel, and Shaft Mount Reducers





WorldWide Electric Gear Reducers

Proven, reliable designs

WorldWide Electric's line of Gear Reducers includes Worm Gear Reducers, Shaft Mount Reducers, Inline Helical Reducers, and our new KHN-series Helical and Bevel Reducers. Reduce speed, increase torque, and maintain exceptional efficiency and performance with our field-tested and industry proven Gear Reducers.

WorldWide Electric has been in the motor business for two decades, providing reliable and affordable electric motors, gear reducers, and motor controls. We continue to meet the needs of the most unique applications and strive to have the best customer service in the industry.

Section 1: Shaft Mount Reducers 2

The “Original” Shaft Mount Reducer	Multiplier:	2
Product Specifications	2	Mechanical Ratings
Overhung Load Ratings	2	Drawings and Dimensions
The “Ultimate” Shaft Mount Reducer	Multiplier:	7
Product Specifications	7	Drawings and Dimensions
Overhung Load Ratings	7	Competitive Interchange
Mechanical Ratings	8	
Accessories and Parts	Multiplier:	13
Backstop Assemblies	13	Torque Arms
Motor Mounts	13	“Original” SMR Rebuild Kits
Belt Guards	13	“Ultimate” Screw Conveyor Components
V-Belt Drive Center Distances	13	Screw Conveyor Drive Shafts
Tapered Bushing Kits	14	Screw Conveyor Flanges

Section 2: Worm Gear Reducers 16

Heavy Duty Cast Iron Worm Gear Reducers	Multiplier:	16
Product Specifications	16	Flange Input, Hollow Bore Output
How to Order	16	Shaft Input, Shaft Output
Mechanical Ratings	17	Competitive Interchange
Flange Input, Shaft Output	18	Accessories and Parts
Aluminum Worm Gear Reducers	Multiplier:	27
Product Specifications	27	Competitor Dimensional Comparison
Mechanical Ratings	29	Accessories and Parts
Drawings and Dimensions	30	
Stainless Steel Reducers	Multiplier:	33
Product Specifications	33	Dimensions
Mechanical Ratings	34	Accessories and Parts

Section 3: Helical Gear Reducers 37

WINL Series - Helical Inline Gear Reducers	Multiplier:	37
Product Specifications	37	Dimensions
Mechanical Ratings	41	Competitor Dimensional Comparison - SEW Eurodrive
KHN Series - Helical Bevel Reducers	Multiplier:	46
Product Specifications	46	Competitor Dimensional Comparison - SEW Eurodrive
Mechanical Ratings	48	Shaft Kits
Dimensions	51	

Section 4: Reference 56

A.G.M.A. Service Factor & Load Class Information	56
How To Read A.G.M.A. Service Factor Table	56
A.G.M.A. Service Factors: Worm Gear Reducers & Gearmotors	56
Terms and Warranty Information	59
Terms and Conditions of Sale	59
Return Policy	60

Section 1: Shaft Mount Reducers

The “Original” Shaft Mount Reducer

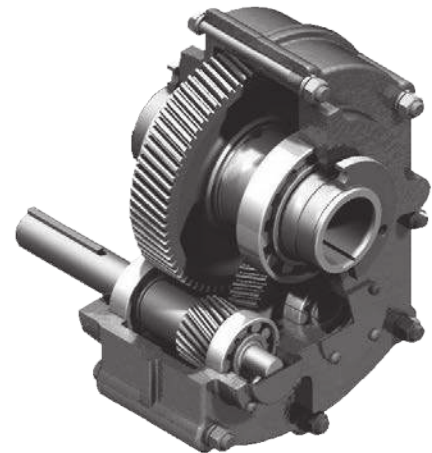
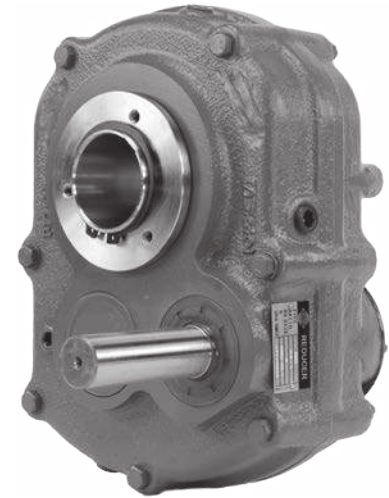


“Original” SMR Series Reducers: Overview

Product Specifications

- » 15:1 and 25:1 ratios
- » Box sizes 2 - 10
- » Tapered bushing type (bushing not included)
- » Premium quality ball and tapered bearings - double lip seals
- » Shafts and gears manufactured from high grade steel, case hardened and precision ground to A.G.M.A. standards
- » Industrial grade all-cast iron housings protect gearing for life
- » Extended gear centers and tooth contact
- » Metal reinforced double lip, spring loaded oil seals
- » Dimensional drop-in for all major makes
- » Torque arm included
- » 2 year warranty

Box Size	Ratio	Output Bore (Max.)	Approx. Wt. (lbs.)	Model Number	List Price
2	15:1	1 15/16"	58	SMR2-15/1	\$1,007.78
	25:1			SMR2-25/1	
3	15:1	2 3/16"	98	SMR3-15/1	\$1,790.06
	25:1			SMR3-25/1	
4	15:1	2 7/16"	139	SMR4-15/1	\$ 2,421.15
	25:1			SMR4-25/1	
5	15:1	2 15/16"	207	SMR5-15/1	\$3,636.12
	25:1			SMR5-25/1	
6	15:1	3 7/16"	285	SMR6-15/1	\$4,751.11
	25:1			SMR6-25/1	
7	15:1	3 15/16"	462	SMR7-15/1	\$7,581.86
	25:1			SMR7-25/1	
8	15:1	4 7/16"	633	SMR8-15/1	\$12,891.59
	25:1			SMR8-25/1	
9	15:1	4 15/16"	760	SMR9-15/1	\$16,909.29
	25:1			SMR9-25/1	
10	15:1	5 7/16"	882	SMR10-15/1	\$22,511.06
	25:1			SMR10-25/1	



“Original” SMR Series Reducers: Output Shaft Overhung Load Ratings

Box Size	Shaft Size	Overhung Load (lbs.) At Various RPMs										
		10	20	30	50	80	100	120	140	160	180	200
2	1 7/16	2000	1510	1270	1010	840	820	720	720	710	710	700
	1 15/16	1750	1320	1110	890	730	710	630	630	620	620	610
3	1 15/16	5400	4250	3680	3050	2620	2440	2310	2210	2110	2040	1980
	2 3/16	5240	4120	3570	2960	2540	2370	2240	2140	2050	1980	1920
4	2 3/16	6520	5180	4510	3800	3230	3000	2830	2710	2600	2510	2430
	2 7/16	6360	5060	4410	3710	3160	2930	2770	2640	2530	2450	2370
5	2 7/16	7460	5860	5080	4280	3690	3450	3270	3110	2980	2880	2790
	2 15/16	7060	5540	4800	4040	3490	3260	3090	2940	2820	2720	2640
6	2 15/16	9100	7100	6100	5000	4100	4050	3700	3550	3400	3300	3200
	3 7/16	8200	6400	5500	4500	3700	3650	3400	3300	3250	3200	3150
7	3 7/16	11400	9500	7300	5950	4750	5050	4500	4300	4250	4200	4150

Section 1: Shaft Mount Reducers

The “Original” Shaft Mount Reducer



“Original” SMR Series Reducers: Mechanical Ratings

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SMR2-15/1	2	18-32	6700-3769	1.5	19-34	4761-2660	1.5	27-51	3350-1774
	3	27-51	6700-3547	2	25-47	4824-2566	2	37-71	3260-1699
	5	71-85	4247-3547	3	39-75	4639-2412	3	58-113	3119-1601
	7.5	75-140	6030-3230	5	70-136	4307-2217	5	104-140	2899-2154
	10	104-140	5798-4307	7.5	111-140	4074-3230	—	—	—
SMR2-25/1	0.5	4-6	7538-5025	0.33	4-6	5025-3350	0.25	4-6	3769-2513
	0.75	6-10	7538-4523	0.5	6-9	5025-3350	0.33	5-9	4020-2233
	1	8-15	7538-4020	0.75	9-16	5025-2827	0.5	8-15	3769-2010
	1.5	13-23	6958-3933	1	12-22	5025-2741	0.75	13-23	3479-1966
	2	18-32	6700-3769	1.5	19-34	4761-2660	1	18-32	3350-1884
	3	27-51	6700-3547	2	25-47	4824-2566	1.5	27-51	3350-1774
	5	47-70	6415-4307	3	39-75	4639-2412	2	37-71	3260-1699
	7.5	75-85	6030-5321	5	70-85	4307-3547	3	58-85	3119-2128
SMR3-15/1	5	27-46	11167-6555	2	15-24	8040-5025	2	22-36	5482-3350
	7.5	41-74	11031-6112	3	23-38	7865-4761	3	33-57	5482-3174
	10	57-103	10579-5855	5	38-69	7934-4370	5	57-103	5290-2927
	15	94-140	9623-6461	7.5	60-110	7538-4111	7.5	94-140	4811-3230
	—	—	—	10	85-140	7094-4307	—	—	—
SMR3-25/1	0.75	4-5	11307-9045	0.5	4-5	7538-6030	0.5	6-7	5025-4307
	1	6-7	10050-8615	0.75	6-8	7538-5653	0.75	8-12	5653-3769
	1.5	8-12	11307-7538	1	8-11	7538-5482	1	11-17	5482-3547
	2	11-17	10964-7094	1.5	12-18	7538-5025	1.5	16-26	5653-3479
	3	16-26	11307-6958	2	15-24	8040-5025	2	22-36	5482-3350
	5	27-46	11167-6555	3	23-38	7865-4761	3	33-57	5482-3174
	7.5	41-74	11031-6112	5	38-69	7934-4370	5	57-85	5290-3547
	10	57-85	10579-7094	7.5	60-85	7538-5321	—	—	—
SMR4-15/1	5	18-26	16750-11596	3	15-22	12060-8223	3	21-32	8615-5653
	7.5	27-40	16750-11307	5	25-37	12060-8149	5	37-56	8149-5384
	10	37-56	16298-10768	7.5	39-59	11596-7665	7.5	57-93	7934-4863
	15	57-93	15869-9726	10	53-84	11378-7179	10	79-141	7633-4277
	20	79-140	15266-8615	15	83-140	10898-6461	—	—	—
	25	102-140	14780-10768	—	—	—	—	—	—
SMR4-25/1	1	4-5	15075-12060	0.75	4-5	11307-9045	0.5	4-5	7538-6030
	1.5	5-7	18091-12922	1	5-7	12060-8515	0.75	5-7	9045-6461
	2	7-10	17229-12060	1.5	7-11	12922-8223	1	7-10	8615-6030
	3	11-15	16446-12060	2	10-14	12060-8615	1.5	11-15	8223-6030
	5	18-26	16750-11596	3	15-22	12060-8223	2	14-21	8615-5743
	7.5	27-40	16750-11307	5	25-37	12060-8149	3	21-32	8615-5653
	10	37-56	16298-10768	7.5	39-59	11596-7665	5	37-56	8149-5384
	15	57-85	15869-10641	10	53-84	11378-7179	7.5	57-85	7934-5321
	20	79-85	15266-14189	—	—	—	—	—	—
SMR5-15/1	10	21-36	28715-16750	7.5	22-38	20557-11902	5	21-36	14358-8375
	15	33-56	27410-16152	10	30-52	20101-11596	7.5	33-56	13705-8076
	20	46-78	26218-15462	15	48-82	118844-11031	10	46-78	13109-7731
	25	60-101	25126-14926	20	69-117	17479-10308	15	76-125	11902-7236
	30	76-125	23803-14472	25	95-125	15869-12060	20	115-125	10487-9648
	40	115-125	20975-19297	—	—	—	—	—	—

* All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The “Original” Shaft Mount Reducer



“Original” SMR Series Reducers: Mechanical Ratings (Cont)

1
THE “ORIGINAL”
SHAFT MOUNT REDUCER

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SMR5-25/1	1.5	4	22613	1.5	5-6	18091-15075	0.75	4	11307
	2	4-6	30151-20101	2	6-9	20101-13400	1	4-6	15075-10050
	3	6-10	30151-18091	3	9-14	20101-12922	1.5	6-10	15075-9045
	5	10-17	30151-17736	5	15-24	20101-12563	2	8-13	15075-9277
	7.5	16-26	28266-17395	7.5	22-38	20557-11902	3	13-20	13916-9045
	10	21-36	28715-16750	10	30-52	20101-11596	5	21-36	14358-8375
	15	33-56	27410-16152	15	48-82	18844-11031	7.5	33-56	13705-8076
	20	46-78	26218-15462	20	69-80	17479-15075	10	46-78	13109-7731
SMR6-15/1	25	60-80	25126-18844	—	—	—	—	—	—
	15	20-32	45226-28266	10	19-29	31738-20794	7.5	20-32	22613-14133
	20	27-45	44668-26801	15	28-47	32304-19245	10	27-45	22334-13400
	25	34-59	44339-25552	20	39-68	30924-17736	15	42-75	21536-12060
	30	42-75	43073-24121	25	50-94	30151-16038	20	58-114	20794-10579
SMR6-25/1	40	58-114	41587-21158	30	61-125	29657-14472	25	75-125	20101-12060
	50	75-125	40201-24121	40	89-120	27102-20101	30	99-125	18276-14472
	3	4-5	45226-36181	2	4-5	30151-24121	1.5	4-5	22613-18091
	5	7-9	43073-33501	3	6-8	30151-22613	2	5-7	24121-17229
	7.5	10-15	45226-30151	5	9-14	33501-21536	3	8-12	22613-15075
	10	13-20	46386-30151	7.5	14-21	32304-21536	5	13-20	23193-15075
	15	20-32	45226-28266	10	19-29	31738-20794	7.5	20-32	22613-14133
	20	27-45	44668-26801	15	28-47	32304-19245	10	27-45	22334-13400
SMR7-15/1	25	34-59	44339-25552	20	39-68	30924-17736	15	42-75	21536-12060
	30	42-75	43073-24121	25	50-80	30151-18844	20	58-70	20794-17229
	40	58-81	41587-29779	30	61-76	29657-23803	—	—	—
	20	19-26	63480-46392	20	27-38	44664-31740	10	19-26	31740-23196
	25	24-33	62820-45684	25	34-49	44340-30768	15	29-41	31188-22056
	30	29-41	62388-44124	30	42-60	43068-30156	20	39-57	30924-21156
	40	39-57	61848-42312	40	57-88	42312-27408	25	50-74	30156-20376
	50	50-74	60300-40740	—	—	—	30	61-98	29652-18456
SMR7-25/1	—	—	—	—	—	—	40	85-89	28380-27108
	5	5-6	60300-50256	3	4-5	45228-36180	3	6-7	30156-25848
	7.5	7-9	64608-50256	5	7-8	43068-37692	5	9-12	33504-25128
	10	9-12	67008-50256	7.5	10-13	45228-34788	7.5	14-19	32304-23808
	15	14-19	64608-47604	10	13-18	46392-33504	10	19-26	31740-23196
	20	19-26	63480-46392	15	20-27	45228-33504	15	29-41	31188-22056
	25	24-33	62820-45684	20	27-38	44664-31740	20	39-57	30924-21156
	30	29-41	62388-44124	25	34-49	44340-30768	25	50-74	30156-20376
SMR8-15/1	40	39-57	61848-42312	30	42-60	43068-30156	30	61-70	29652-25848
	50	50-74	60300-40740	40	57-75	42312-32160	—	—	—
	30	20-28	90456-64608	25	23-33	65544-45684	15	20-28	45228-32304
	40	26-38	92772-63480	30	28-41	64608-44124	20	26-38	46392-31740
	50	33-49	91368-61536	40	37-56	65196-43068	25	33-49	45684-30768
	60	40-60	90456-60300	50	47-72	64152-41880	30	40-60	45228-30156
	75	51-70	88680-64608	60	57-89	63480-40656	40	54-84	44664-28716
	—	—	—	75	74-75	61116-60300	50	70-110	43068-27408
	—	—	—	—	—	—	60	86-115	42072-31464

* All output torque ratings listed in inch-pounds

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Section 1: Shaft Mount Reducers

The “Original” Shaft Mount Reducer



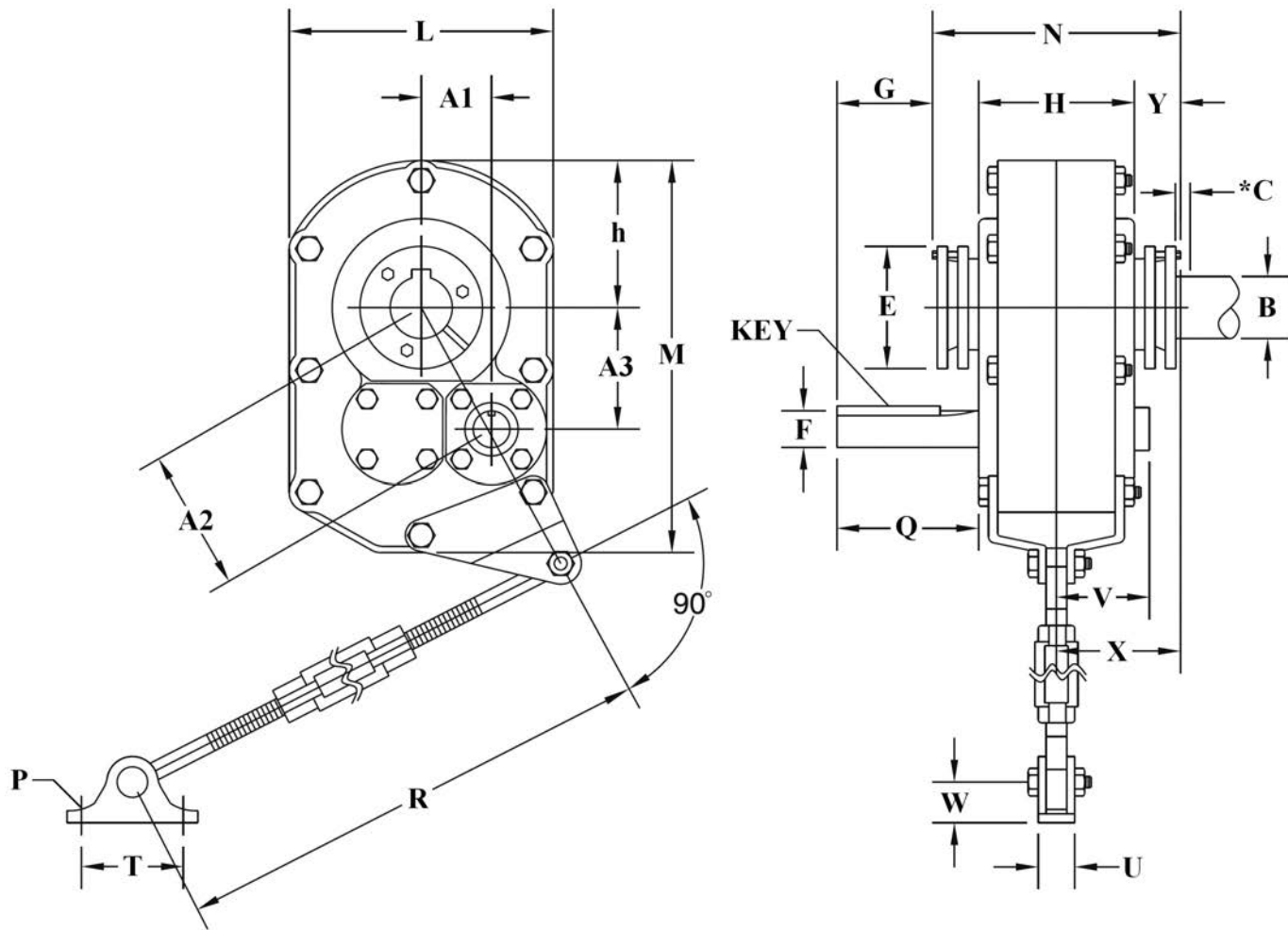
“Original” SMR Series Reducers: Mechanical Ratings (Cont)

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SMR8-25/1	7.5	4-6	113064-75384	5	4-6	75384-50256	3	4-5	45228-36180
	10	6-8	100500-75384	7.5	6-9	75384-50256	5	6-8	50256-37692
	15	9-13	100500-69576	10	8-12	75384-50256	7.5	9-13	50256-34788
	20	13-18	92772-67008	15	13-19	69576-47604	10	13-18	46392-33504
	25	16-23	94224-65544	20	18-26	67008-46392	15	20-28	45228-32304
	30	20-28	90456-64608	25	23-33	65544-45684	20	26-38	46392-31740
	40	26-38	92772-63480	30	28-41	64608-44124	25	33-49	45684-30768
	50	33-49	91368-61536	40	37-56	65196-43068	30	40-60	45228-30156
	60	40-60	90456-60300	50	47-72	64152-41880	40	54-70	44664-34464
	75	51-70	88680-64608	60	57-75	63480-48240	50	70-75	43068-40200
SMR9-15/1	—	—	—	75	74-75	61116-60300	—	—	—
	40	19-25	126948-96480	30	20-27	90456-67008	20	19-25	63480-48240
	50	23-32	131088-94224	40	26-36	92772-67008	25	23-32	65544-47112
	60	28-39	129216-92772	50	33-46	91368-65544	30	28-39	64608-46392
	75	35-50	129216-90456	60	40-56	90456-64608	40	38-53	63480-45516
	—	—	—	75	50-73	90456-61956	50	47-69	64152-43692
SMR9-25/1	—	—	—	—	—	—	60	57-85	63480-42564
	10	5	120600	7.5	5	90456	5	5	60300
	15	7-8	129216-113064	10	6-7	100500-86148	7.5	7-8	64608-56532
	20	9-12	134004-100500	15	10-12	90456-75384	10	9-12	67008-50256
	25	11-15	137052-100500	20	13-17	92772-70944	15	14-19	64608-47604
	30	14-19	129216-95220	25	16-22	94224-68520	20	19-25	63480-48240
	40	19-25	126948-96480	30	20-27	90456-67008	25	23-32	65544-47112
	50	23-32	131088-94224	40	26-36	92772-67008	30	28-39	64608-46392
	60	28-39	129216-92772	50	33-46	91368-65544	40	38-53	63480-45516
	75	35-50	129216-90456	60	40-56	90456-64608	50	47-69	64152-43692
SMR10-15/1	—	—	—	75	50-73	90456-61956	60	57-75	63480-48240
	60	19-27	189075-133053	50	22-32	136077-93553	30	19-27	94538-66526
	75	24-34	187105-132074	60	27-39	133053-92113	40	26-37	92113-64728
	100	32-46	187105-130160	75	34-49	132074-91643	50	32-46	93553-65080
	125	41-59	182542-126851	100	46-67	130160-89364	60	39-56	92113-64150
	150	50-70	179621-128301	125	76-85	98477-88050	75	50-72	89811-62368
SMR10-25/1	—	—	—	—	—	—	100	59-120	10148-49895
	15	5-6	179621-149684	10	5	119748	7.5	5-6	89811-74842
	20	7-8	171068-149684	15	7-9	128301-99790	10	7-8	85534-74842
	25	8-10	187105-149684	20	9-12	133053-99790	15	10-13	89811-69085
	30	10-13	179621-138170	25	11-15	136077-99790	20	13-18	92113-65526
	40	13-18	184227-133053	30	13-19	138170-94538	25	16-22	93553-68038
	50	16-22	187105-136077	40	18-25	133053-95798	30	19-27	94538-66526
	60	19-27	189075-133053	50	22-32	136077-93553	40	26-37	92113-64728
	75	24-34	187105-132074	60	27-39	133053-92113	50	32-46	93553-65080
	100	32-46	187105-130160	75	34-49	132074-91643	60	39-56	92113-64150
	125	41-59	182542-126851	100	46-67	130160-89364	75	50-72	89811-62368
	150	50-70	179621-128301	125	59-75	126851-99790	—	—	—

* All output torque ratings listed in inch-pounds

“Original” SMR Series Reducers: Drawings and Dimensions

1
THE “ORIGINAL”
SHAFT MOUNT REDUCER



All listed dimensions in inches														
Box Size	L M	N	F Key	B Max.	C	E G	W U	X V	Q Y	H	A1 A2	A3 h	R Min. R Max.	P T
2	8.38	7.32	1.125	1 15/16	1.25	4.06	1.06	3.68	3.59	4.56	2.14	3.75	26.94	0.44
	11.41		0.25 x 0.125 x 2.50			2.22	1.25	2.89	1.4		4.32	4.09	32.94	3
3	9.25	9.22	1.25	2 3/16	1.5	4.38	1.06	4.52	4.34	5.63	2.33	4.17	26.94	0.44
	12.88		0.25 x 0.125 x 2.875			2.34	1.25	3.3	1.59		4.78	4.84	32.94	3
4	10.38	9.98	1.4375	2 7/16	1.75	4.81	1.75	4.79	5.57	6.13	2.76	4.79	29.19	0.55
	15.13		0.375 x 0.1875 x 4.06			3.44	1.44	3.41	1.72		5.53	5.5	35.19	4
5	13.13	10.52	1.9375	2 15/16	1.81	5.63	1.75	5.05	5.74	6.31	3.04	5.67	29.19	0.5
	18.31		0.50 x 0.25 x 4.50			3.44	1.44	4.45	1.91		6.43	6.56	35.19	4
6	15.13	11.53	2.1875	3 7/16	1.81	6.13	2	5.73	6.08	6.88	4.09	6.71	29.19	0.63
	21.31		0.50 x 0.25 x 4.50			3.73	2.75	4.57	2.3		7.88	7.56	35.19	4.75
7	18.75	12.85	2.4375	3 15/16	2.06	7.25	2	6.38	6.35	7.75	5.11	8.3	29.44	0.63
	25.94		0.625 x 0.312 x 4.75			3.75	2.75	4.69	2.5		9.74	9.38	35.44	4.75
8	20.25	14.03	2.4375	4 7/16	2.06	7.75	3.13	7.04	7.11	8.37	6.03	9.5	30	0.75
	28.25		0.625 x 0.312 x 5.375			4.31	4	5.85	2.86		11.25	10.13	36	7
9	22.63	14.12	2.4375	4 15/16	2.44	8.75	3.13	7.04	9.65	8.12	6.59	10.81	30	0.75
	31.69		0.625 x 0.312 x 7.75			6.63	4	5.66	2.98		12.66	11.31	36	7
10	25.50	15.63	2.6875	5 7/16	2.5	10.04	3.15	7.83	9.10	9.49	6.58	12.50	30	0.75
	35.00		0.625 x 0.312 x 7.875			6.53	4	6.91	3.07		14.13	12.75	36	7.09

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Section 1: Shaft Mount Reducers

The “Ultimate” Shaft Mount Reducer

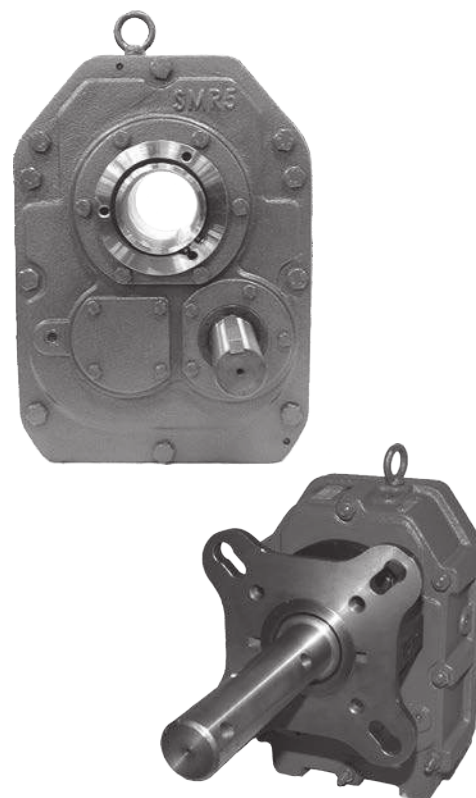


“Ultimate” SMR Series Reducers: Product Overview

Product Specifications

- » 9:1, 15:1 and 25:1 ratios
- » Box sizes 2 - 9
- » Tapered bushing type (bushing not included)
- » Premium quality ball and tapered bearings - double lip seals
- » Shafts and gears manufactured from high grade steel, case hardened and precision ground to A.G.M.A. standards
- » Industrial grade all-cast iron housings protect gearing for life
- » Extended gear centers and tooth contact
- » Metal reinforced double lip, spring loaded oil seals
- » Dimensional drop-in for all major makes
- » Torque arm included
- » Made in Taiwan (highest level of manufacturing expertise)
- » 3 year warranty

Box Size	Ratio	Output Bore (Max.)	Approx. Wt. (lbs.)	Model Number	List Price
2	9:1 15:1 25:1	1 15/16"	68	WSMR2-9/1 WSMR2-15/1 WSMR2-25/1	\$1,409.76
3	9:1 15:1 25:1	2 3/16"	106	WSMR3-9/1 WSMR3-15/1 WSMR3-25/1	\$2,105.95
4	9:1 15:1 25:1	2 7/16"	156	WSMR4-9/1 WSMR4-15/1 WSMR4-25/1	\$2,848.41
5	9:1 15:1 25:1	2 15/16"	204	WSMR5-9/1 WSMR5-15/1 WSMR5-25/1	\$4,277.79
6	9:1 15:1 25:1	3 7/16"	314	WSMR6-9/1 WSMR6-15/1 WSMR6-25/1	\$5,589.54
7	15:1 25:1	3 15/16"	487	WSMR7-15/1 WSMR7-25/1	\$10,381.38
8	15:1 25:1	4 7/16"	655	WSMR8-15/1 WSMR8-25/1	\$13,335.72
9	15:1 25:1	4 15/16"	783	WSMR9-15/1 WSMR9-25/1	\$18,888.93



All-in-1 “Ultimate” Shaft Mount Reducer System Components can be found on Page 15

1

THE “ULTIMATE”
SHAFT MOUNT REDUCER

“Ultimate” SMR Series Reducers: Output Shaft Overhung Load Ratings

Box Size	Shaft Size	Overhung Load (lbs.) At Various RPMs										
		10	20	30	50	80	100	120	140	160	180	200
2	1 7/16	2000	1510	1270	1010	840	820	720	720	710	710	700
	1 15/16	1750	1320	1110	890	730	710	630	630	620	620	610
3	1 15/16	5400	4250	3680	3050	2620	2440	2310	2210	2110	2040	1980
	2 3/16	5240	4120	3570	2960	2540	2370	2240	2140	2050	1980	1920
4	2 3/16	6520	5180	4510	3800	3230	3000	2830	2710	2600	2510	2430
	2 7/16	6360	5060	4410	3710	3160	2930	2770	2640	2530	2450	2370
5	2 7/16	7460	5860	5080	4280	3690	3450	3270	3110	2980	2880	2790
	2 15/16	7060	5540	4800	4040	3490	3260	3090	2940	2820	2720	2640
6	2 15/16	9100	7100	6100	5000	4100	4050	3700	3550	3400	3300	3200
	3 7/16	8200	6400	5500	4500	3700	3650	3400	3300	3250	3200	3150
7	3 7/16	11400	9500	7300	5950	4750	5050	4500	4300	4250	4200	4150

Section 1: Shaft Mount Reducers

The “Ultimate” Shaft Mount Reducer



“Ultimate” SMR Series Reducers: Mechanical Ratings

1	Reducer Model Number	Service Class I			Service Class II			Service Class III		
		Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
	WSMR2-9/1	7.5	78-105	5434-4037	5	78-110	3658-2594	3	58-110	2952-1556
		10	110-200	5188-2853	7.5	115-200	3722-2140	5	105-200	2717-1427
	WSMR2-15/1	2	16-24	7065-4710	1.5	18-24	4710-3532	1.5	26-34	3261-2493
		3	26-45	6521-3768	2	24-34	4710-3324	2	38-58	2975-1949
		5	46-74	6143-3819	3	38-70	4462-2422	3	58-100	2923-1695
		7.5	78-105	5434-4037	5	70-105	4037-2691	5	105-140	2691-2018
		10	105-140	5382-4037	7.5	110-140	3853-3028	—	—	—
	WSMR2-25/1	0.5	4-6	7065-4710	0.33	4-5	4663-3730	0.25	4-5	3532-2826
		0.75	6-8	7065-5298	0.5	6-8	4710-3532	0.33	6-8	3108-2331
		1	8-10	7065-5652	0.75	8-12	5298-3532	0.5	8-12	3532-2355
		1.5	12-16	7065-5298	1	12-16	4710-3532	0.75	12-16	3532-2649
		2	16-24	7065-4710	1.5	18-24	4710-3532	1	16-24	3532-2355
		3	26-45	6521-3768	2	24-34	4710-3324	1.5	26-34	3261-2493
		5	46-74	6143-3819	3	38-70	4462-2422	2	38-58	2975-1949
		7.5	78-85	5434-4987	5	70-85	4037-3324	3	58-85	2923-1995
	WSMR3-9/1	10	78-105	7246-5382	7.5	85-110	5035-3722	5	74-105	3856-2817
		15	110-140	7707-6055	10	110-150	5188-3804	7.5	110-140	3891-3057
		20	150-200	7609-5707	15	160-200	5350-4280	10	150-200	3804-2853
	WSMR3-15/1	3	28-30	6055-5652	2	16-24	7065-4710	2	24-38	4710-2975
		5	32-50	8831-5652	3	26-46	6521-3686	3	40-70	4239-2422
		7.5	52-74	8151-5728	5	50-74	5652-3819	5	74-105	3819-2691
		10	78-105	7246-5382	7.5	78-105	5434-4037	7.5	110-140	3853-3028
		15	110-140	7707-6055	10	100-140	5652-4037	—	—	—
	WSMR3-25/1	0.75	4-5	10597-8477	0.5	4-5	7065-5652	0.5	6-7	4710-4037
		1	6-7	9419-8074	0.75	6-7	7065-6055	0.75	8-10	5298-4239
		1.5	8-10	10597-8477	1	8-10	7065-5652	1	10-16	5652-3532
		2	12-16	9419-7065	1.5	12-16	7065-5298	1.5	18-24	4710-3532
		3	18-30	9419-5652	2	16-24	7065-4710	2	24-38	4710-2975
		5	32-50	8831-5652	3	26-46	6521-3686	3	40-70	4239-2422
		7.5	52-74	8151-5728	5	50-74	5652-3819	5	74-85	3819-3324
		10	78-85	7246-6649	7.5	78-85	5434-4987	—	—	—
	WSMR4-9/1	15	58-80	14616-10597	15	90-115	9511-7443	7.5	58-78	7379-5487
		20	80-110	14219-10276	20	120-140	9511-8152	10	80-115	7133-4962
		25	100-140	14129-10092	25	150-200	9511-7133	15	120-200	7133-4280
		30	120-200	14267-8560	—	—	—	—	—	—
	WSMR4-15/1	5	18-24	15699-11774	3	14-22	12111-7707	3	20-34	8477-4987
		7.5	26-34	16303-12467	5	24-34	11774-8311	5	38-54	7436-5233
		10	38-54	14873-10466	7.5	38-54	11154-7849	7.5	58-80	7308-5298
		15	58-80	14616-10597	10	54-80	10466-7065	10	80-140	765-4037
		20	80-110	14219-10276	15	85-115	9973-7372	—	—	—
		25	100-140	14129-10092	20	110-140	10276-8074	—	—	—
	WSMR4-25/1	1	4-5	14129-11303	0.75	4-5	10597-8477	0.5	4-5	7065-5652
		1.5	5-7	16955-12111	1	5-6	11303-9419	0.75	5-6	8477-7065
		2	6-8	18839-14129	1.5	6-8	14129-10597	1	6-8	9419-7065
		3	10-14	16955-12111	2	10-12	11303-9419	1.5	10-12	8477-7065
		5	16-24	17551-11774	3	14-22	12111-7707	2	14-18	8074-6280
		7.5	26-34	16303-12467	5	24-34	11774-8311	3	20-34	8477-4987
		10	38-54	14873-10466	7.5	38-54	11154-7849	5	38-54	7436-5233
		15	58-80	14616-10597	10	54-85	10466-6649	7.5	58-85	7308-4987
		20	80-85	14129-13298	—	—	—	—	—	—

* All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The “Ultimate” Shaft Mount Reducer



“Ultimate” SMR Series Reducers: Mechanical Ratings (Cont)

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
WSMR5-9/1	25	70-95	20184-14873	20	85-115	13427-9925	15	85-115	10071-7443
	30	85-115	19947-14743	25	105-125	13587-11413	20	115-200	7443-4280
	40	110-200	20752-11413	30	125-200	13696-8560	—	—	—
WSMR5-15/1	7.5	22-24	19267-17661	7.5	24-34	17661-12467	5	24-34	11774-8311
	10	24-34	23548-16622	10	38-54	14873-10466	7.5	38-52	11154-8151
	15	38-54	22309-15699	15	58-80	14616-10597	10	54-80	10466-7065
	20	54-78	20932-14491	20	78-110	11491-10276	15	85-110	9973-7707
	25	70-95	20184-14873	25	100-125	14129-11303	20	110-125	10276-9043
	30	85-115	19947-14743	—	—	—	—	—	—
	40	110-125	20551-18085	—	—	—	—	—	—
WSMR5-25/1	2	4-5	28258-22606	1.5	4-5	21194-16955	1	4-5	14129-11303
	3	6-8	28258-21194	2	5-6	22606-18839	1.5	6-7	14129-12111
	5	10-14	28258-20184	3	8-14	21194-12111	2	8-12	14129-9419
	7.5	16-24	26492-17661	5	16-24	17661-11774	3	14-22	12111-7707
	10	24-34	23548-16622	7.5	24-34	17661-12467	5	24-34	11774-8311
	15	38-54	22309-15699	10	38-54	14873-10466	7.5	38-52	11154-8151
	20	54-78	20932-14491	15	58-80	14616-10597	10	54-78	10466-7246
	25	70-80	20184-17661	20	78-80	14491-14129	—	—	—
	—	—	—	—	—	—	—	—	—
WSMR6-9/1	40	62-85	36817-26855	25	58-80	24598-17833	20	62-78	18409-14632
	50	78-200	36581-14267	30	70-90	24457-19022	25	78-95	18291-15018
	—	—	—	40	95-120	24028-19022	30	95-200	18021-8560
	—	—	—	50	120-200	23778-14267	—	—	—
WSMR6-15/1	15	20-26	42387-32605	10	18-26	31398-21737	7.5	20-24	21194-17661
	20	26-38	43474-29745	15	28-40	30276-21194	10	26-40	21737-14129
	25	34-50	41556-28258	20	40-58	28258-19488	15	45-58	18839-14616
	30	45-62	37677-27346	25	52-78	27171-18114	20	62-74	18231-15275
	40	62-85	36462-26596	30	66-90	25689-18839	25	78-95	18114-14873
	50	78-105	36228-26912	40	90-120	25118-18839	30	95-125	17847-13564
	60	95-125	35694-27128	—	—	—	—	—	—
WSMR6-25/1	3	4-5	42387-33910	2	4-5	28258-22606	1.5	4-5	21194-16955
	5	6-8	47097-35323	3	6-8	28258-21194	2	6-7	18839-16147
	7.5	10-12	42387-35323	5	10-12	28258-23548	3	8-12	21194-14129
	10	14-18	40369-31398	7.5	14-18	30276-23548	5	14-18	20184-15699
	15	20-26	42387-32605	10	18-26	31398-21737	7.5	20-24	21194-17661
	20	26-38	43474-29745	15	28-40	30276-21194	10	26-40	21737-14129
	25	34-50	41556-28258	20	40-58	28258-19488	15	45-58	18839-14616
	30	45-62	37677-27346	25	52-78	27171-18114	20	62-70	18231-16147
	40	62-80	36462-28258	30	66-78	25689-21737	—	—	—
WSMR7-15/1	20	18-22	62796-51378	20	26-34	43474-33245	10	16-24	35323-23548
	25	22-30	64223-47097	25	32-46	44153-30715	15	26-34	32605-24934
	30	26-38	65211-44618	30	40-58	42387-29232	20	38-46	29745-24572
	40	38-54	59491-41864	40	58-80	38977-28258	25	50-62	28258-22789
	50	50-74	56516-38187	—	—	—	30	62-80	27346-21194
	—	—	—	—	—	—	40	85-90	26596-25118
WSMR7-25/1	5	4-5	70645-56516	3	4-5	42387-33910	3	5-7	33910-24221
	7.5	6-7	70645-60553	5	6-7	47097-40369	5	8-10	35323-28258
	10	8-10	70645-56516	7.5	8-10	52984-42387	7.5	12-14	35323-30276
	15	12-16	70645-52984	10	12-16	47097-35323	10	16-24	35323-23548
	20	16-22	70645-51378	15	18-26	47097-32605	15	26-34	32605-24934
	25	22-30	64223-47097	20	24-34	47097-33245	20	38-46	29745-24572
	30	26-38	65211-44618	25	32-46	44153-30715	25	50-62	28258-22789
	40	38-54	56491-41864	30	40-58	42387-29232	30	62-70	27346-24221
	50	50-74	56516-38187	40	58-74	38977-30549	—	—	—

* All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The “Ultimate” Shaft Mount Reducer



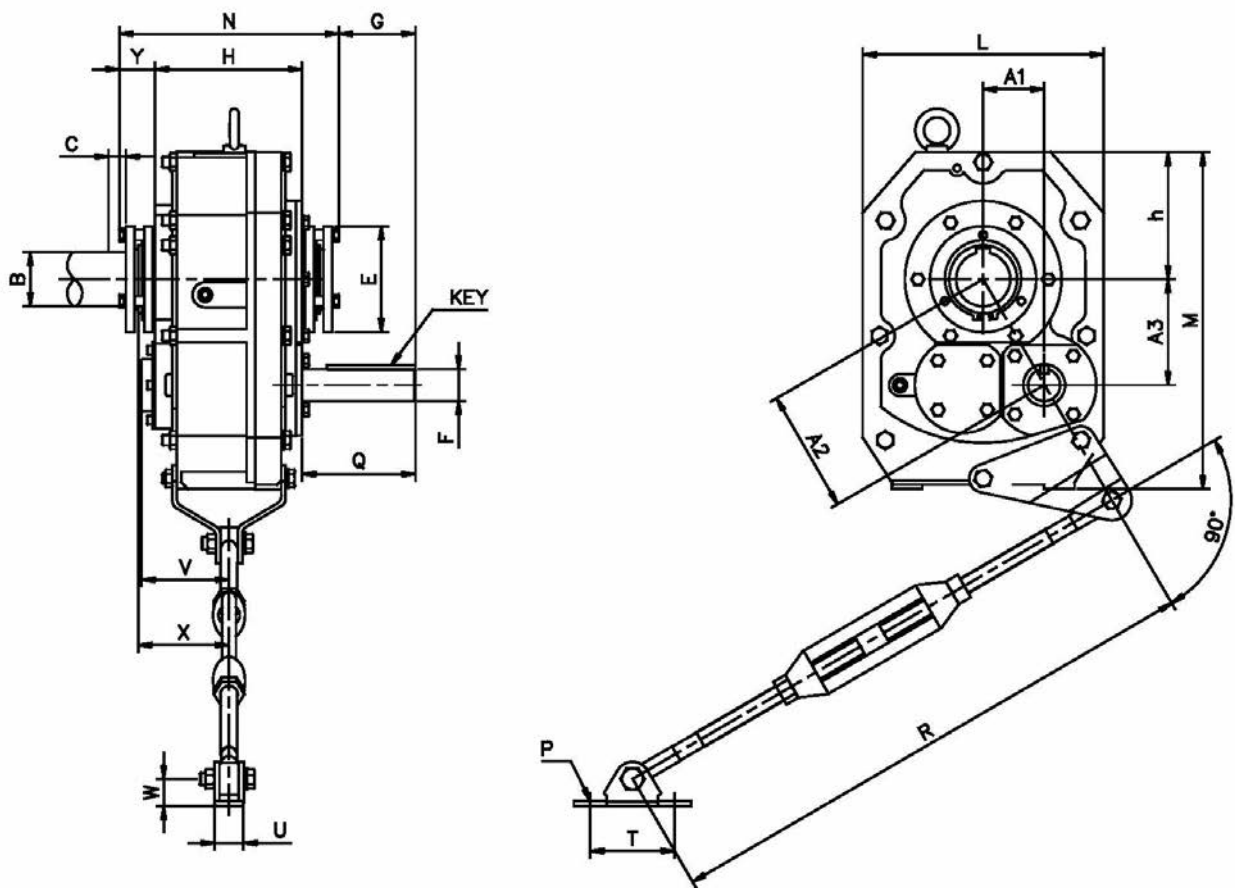
“Ultimate” SMR Series Reducers: Mechanical Ratings (Cont)

1	Reducer Model Number	Service Class I			Service Class II			Service Class III		
		Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
THE “ULTIMATE” SHAFT MOUNT REDUCER	WSMR8-15/1	40	20-30	113032-75355	25	20-26	70645-54342	15	18-20	47097-42387
		50	28-40	100922-70645	30	22-32	77067-52984	20	20-26	56516-43474
		60	34-46	99734-73717	40	32-46	70645-49144	25	28-34	50461-41556
		75	45-70	94193-60553	50	40-58	70645-48721	30	34-46	49867-36858
		—	—	—	60	50-74	67819-45824	40	50-58	45213-38977
		—	—	—	75	66-74	64223-57280	50	62-78	45577-36228
		—	—	—	—	—	—	60	78-115	43474-29487
	WSMR8-25/1	7.5	4-5	105968-84774	5	4-5	70645-56516	3	4-5	42387-33910
		10	6-7	94193-80737	7.5	6-7	70645-60553	5	5-7	56516-40369
		15	8-9	105968-94193	10	8-9	70645-62796	7.5	7-9	60553-47097
		20	10-12	113032-94193	15	10-14	84774-60553	10	10-14	56516-40369
		25	12-16	117742-99306	20	14-20	80737-56516	15	16-20	52984-42387
		30	16-20	105968-84774	25	18-26	78495-54342	20	20-26	56516-43474
		40	20-30	113032-75355	30	22-32	77067-52984	25	28-34	50461-41556
		50	28-40	100922-70645	40	32-46	70645-49144	30	34-46	49867-36858
		60	34-46	99734-73717	50	40-58	70645-48721	40	50-58	45213-38977
		75	45-70	94193-60553	60	50-74	67819-45824	50	62-74	45577-38187
		—	—	—	75	66-74	64223-57280	—	—	—
	WSMR9-15/1	50	18-26	15689-108685	30	20-22	84774-77067	25	18-22	78495-64223
		60	22-32	154135-105968	40	22-30	102757-75355	30	22-30	77067-56516
		75	30-50	141290-84774	50	28-40	100922-70645	40	32-40	70645-56516
		—	—	—	60	34-50	99734-67819	50	45-52	62796-54342
		—	—	—	75	45-74	94193-57280	60	52-80	65211-42387
	WSMR9-25/1	15	5-6	169548-141290	7.5	4-5	105968-84774	5	4-5	70645-56516
		20	6-8	188387-141290	10	4-6	141290-94193	7.5	5-6	84774-70645
		25	8-10	176613-141290	15	8-9	105968-94193	10	6-8	94193-70645
		30	10-14	169548-121106	20	10-12	113032-94193	15	10-12	84774-70645
		40	14-20	161475-113032	25	12-16	117742-88306	20	14-16	80737-70645
		50	18-26	156989-108685	30	16-22	105968-77067	25	18-22	78495-64223
		60	22-32	154135-105968	40	22-30	102757-75355	30	22-30	77067-56516
		75	30-50	141290-84774	50	28-40	100922-70645	40	32-40	70645-56516
		—	—	—	60	34-50	99734-67819	50	45-52	62796-54342
		—	—	—	75	45-74	94193-57280	60	52-74	65211-45824

* All output torque ratings listed in inch-pounds



“Ultimate” SMR Series Reducers: Drawings and Dimensions



1
THE “ULTIMATE”
SHAFT MOUNT REDUCER

All listed dimensions in inches														
Box Size	L M	N	F Key	B Max.	C	E G	W U	X V	Q Y	H	A1 A2	A3 h	R Min. R Max.	P T
2	8.38	7.32	1.125	1 15/16	1.25	4.06	1.06	3.68	3.59	4.56	2.14	3.75	26.94	0.44
	11.41		0.25 x 0.125 x 2.50			2.22	1.25	2.89	1.4		4.32	4.09	32.94	3
3	9.25	9.22	1.25	2 3/16	1.5	4.38	1.06	4.52	4.34	5.63	2.33	4.17	26.94	0.44
	12.88		0.25 x 0.125 x 2.875			2.34	1.25	3.3	1.59		4.78	4.84	32.94	3
4	10.38	9.98	1.4375	2 7/16	1.75	4.81	1.75	4.79	5.57	6.13	2.76	4.79	29.19	0.55
	15.13		0.375 x 0.188 x 4.06			3.44	1.44	3.41	1.72		5.53	5.5	35.19	4
5	13.13	10.52	1.9375	2 15/16	1.81	5.63	1.75	5.05	5.74	6.31	3.04	5.67	29.19	0.5
	18.31		0.50 x 0.25 x 4.50			3.44	1.44	4.45	1.91		6.43	6.56	35.19	4
6	15.13	11.53	2.1875	3 7/16	1.81	6.13	2	5.73	6.08	6.88	4.09	6.71	29.19	0.63
	21.31		0.50 x 0.25 x 4.50			3.73	2.75	4.57	2.3		7.88	7.56	35.19	4.75
7	18.75	12.85	2.4375	3 15/16	2.06	7.25	2	6.38	6.35	7.75	5.11	8.3	29.44	0.63
	25.94		0.625 x 0.312 x 4.75			3.75	2.75	4.69	2.5		9.74	9.38	35.44	4.75
8	20.25	14.03	2.4375	4 7/16	2.06	7.75	3.13	7.04	7.11	8.37	6.03	9.5	30	0.75
	28.25		0.625 x 0.312 x 5.375			4.31	4	5.85	2.86		11.25	10.13	36	7
9	22.63	14.12	2.4375	4 15/16	2.44	8.75	3.13	7.04	9.65	8.12	6.59	10.81	30	0.75
	31.69		0.625 x 0.312 x 7.75			6.63	4	5.66	2.98		12.66	11.31	36	7

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Competitive Interchange, Ratios 9:1, 15:1, 25:1

1

9:1 Ratio

WorldWide Electric	Dodge	Hub City	Browning	Cleveland Gear
WSMR2-9/1	TXT2-9:1	PT2115S09	115SMTP09	---
WSMR3-9/1	TXT3-9:1	PT3203S09	203SMTP09	---
WSMR4-9/1	TXT4-9:1	PT4207S09	207SMTP09	---
WSMR5-9/1	TXT5-9:1	PT5215S09	215SMTP09	---
WSMR6-9/1	TXT6-9:1	PT6307S09	307SMTP09	---

15:1 Ratio

WorldWide Electric	Dodge	Hub City	Browning	Cleveland Gear
WSMR2-15/1 SMR2-15/1	TXT2-15:1	PT2115S15	115SMTP15	CGUSM2 15
WSMR3-15/1 SMR3-15/1	TXT3-15:1	PT3203S15	203SMTP15	CGUSM3 15
WSMR4-15/1 SMR4-15/1	TXT4-15:1	PT4207S15	207SMTP15	CGUSM4 15
WSMR5-15/1 SMR5-15/1	TXT5-15:1	PT5215S15	215SMTP15	CGUSM5 15
WSMR6-15/1 SMR6-15/1	TXT6-15:1	PT6307S15	307SMTP15	CGUSM6 15
WSMR7-15/1 SMR7-15/1	TXT7-15:1	PT7315S15	315SMTP15	CGUSM7 15
WSMR8-15/1 SMR8-15/1	TXT8-15:1	PT8407S15	407SMTP15	CGUSM8 15
WSMR9-15/1 SMR9-15/1	TXT9-15:1	PT9415S15	415SMTP15	CGUSM9 15
SMR10-15/1	TXT10-15:1	PT10507S15	507SMT15	CGUSM10 15

25:1 Ratio

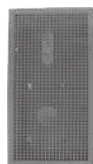
WorldWide Electric	Dodge	Hub City	Browning	Cleveland Gear
WSMR2-25/1 SMR2-25/1	TXT2-25:1	PT2115S25	115SMTP25	CGUSM2 25
WSMR3-25/1 SMR3-25/1	TXT3-25:1	PT3203S25	203SMTP25	CGUSM3 25
WSMR4-25/1 SMR4-25/1	TXT4-25:1	PT4207S25	207SMTP25	CGUSM4 25
WSMR5-25/1 SMR5-25/1	TXT5-25:1	PT5215S25	215SMTP25	CGUSM5 25
WSMR6-25/1 SMR6-25/1	TXT6-25:1	PT6307S25	307SMTP25	CGUSM6 25
WSMR7-25/1 SMR7-25/1	TXT7-25:1	PT7315S25	315SMTP25	CGUSM7 25
WSMR8-25/1 SMR8-25/1	TXT8-25:1	PT8407S25	407SMTP25	CGUSM8 25
WSMR9-25/1 SMR9-25/1	TXT9-25:1	PT9415S25	415SMTP25	CGUSM9 25
SMR10-25/1	TXT10-25:1	PT10507S25	507SMTP25	CGUSM10 25

Backstop Assemblies



- » Easy mount for WorldWide shaft mount reducers
- » Smooth forward operation of conveyor with no backslip

Belt Guards



- » Hinged design for easy access to belts and sheaves
- » Slotted metal panel construction
- » Assembles to reducer and motor mount holes
- » Easy mount for WorldWide shaft mount reducers

Motor Mounts



- » Heavy gauge steel construction for NEMA frame motors
- » Adjustable top plate for belt tensioning

Box Size	Model Number (1)	Model Number (2)	List Price
2	SMR2BSK	WSMR2BSK	\$236.76
3	SMR3BSK	WSMR3BSK	\$302.98
4	SMR4BSK	WSMR4BSK	\$302.98
5	SMR5BSK	WSMR5BSK	\$359.82
6	SMR6/7BSK	WSMR6BSK	\$681.77
7	SMR6/7BSK	WSMR7BSK	\$681.77
8	SMR8/9BSK	WSMR8BSK	\$1,493.36
9	SMR8/9BSK	WSMR9BSK	\$1,493.36
10	SMR10BSK	---	\$1,686.95

(1) Use SMR#BSK model number backstop assemblies for WWE "Original" series shaft mount reducers.

(2) Use WSMR#BSK model number backstop assemblies for WWE "Ultimate" series shaft mount reducers.

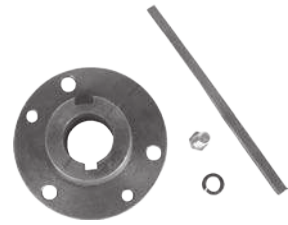
Box Size	Model Number	List Price
2	BG2	\$428.65
3	BG3	\$487.19
4	BG4	\$558.82
5	BG5	\$616.24
6	BG6	\$702.11
7	BG7	\$826.02
8	BG8	\$971.78
9	BG9	\$1,351.77
10	BG10	\$1,463.50

Box Size	NEMA Frame	Model Number	List Price
2	56-215T	MM2	\$428.96
3	56-215T	MM3A	\$441.25
4	143T-286T	MM4	\$687.46
5	143T-286T	MM5A	\$687.46
6	143T-326T	MM6A	\$956.39
7	143T-365T	MM7	\$1,025.82
8	213T-365T	MM8A	\$1,230.98
9	284T-365T	MM9	\$1,230.98
10	254T-365T	MM10	\$1,382.74

V-Belt Drive Center Distances for SMR/WSMR MM Series Motor Mounts

Motor Mount	SMR Size	Center Distances For Various NEMA Motor Frames (Table ratings for 1800 RPM Motors only.)															
		56C		143/5T		182/4T		213/5T		254/6T		284/6T		324/6T		364/5T	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MM2	SMR2 WSMR2	18.7	22.1	18.7	22.1	19.7	23.1	20.5	23.9	---	---	---	---	---	---	---	---
MM3A	SMR3 WSMR3	20.2	23.6	20.2	23.6	21.2	24.6	22.0	25.3	23.0	26.3	---	---	---	---	---	---
MM4	SMR4 WSMR4	---	---	21.2	25.2	22.2	26.2	23.0	26.9	23.9	27.9	24.7	28.7	---	---	---	---
MM5A	SMR5 WSMR5	---	---	22.7	26.6	23.7	27.6	24.4	28.4	25.4	29.4	26.2	30.1	27.2	31.1	---	---
MM6A	SMR6 WSMR6	---	---	25.9	29.7	26.9	30.7	27.6	31.4	28.6	32.4	29.4	33.2	30.4	34.2	---	---
MM7	SMR7 WSMR7	---	---	30.6	34.4	31.6	35.4	32.4	36.2	33.4	37.2	34.1	37.9	35.1	38.9	36.1	40.0
MM8	SMR8 WSMR8	---	---	---	---	---	---	35.5	40.5	36.4	41.2	37.2	42.2	38.2	43.2	39.2	44.2
MM9	SMR9 WSMR9	---	---	---	---	---	---	38.0	43.0	39.0	44.0	39.8	44.7	40.7	45.7	41.7	46.7
MM10	SMR10	---	---	---	---	---	---	---	---	42.6	47.5	43.3	48.2	44.3	49.2	45.3	50.2

Tapered Bushing Kits



- » Sized for WorldWide shaft mount reducers
- » Interchangeable with other manufacturers
- » Fast and simple installation
- » Tapered support on both sides of the reducer
- » Includes fastening bolts and a full length shaft key

Torque Arms



- » Included with every shaft mount reducer
- » Heavy gauge steel construction
- » Machine precision ground interlocking parts for easy and accurate tensioning and tightening

Box Size	Bushing Size (in.)	Model Number	List Price
2	1 1/4	2WTBK-1.14	\$148.26
	1 5/16	2WTBK-1.516	
	1 3/8	2WTBK-1.38	
	1 7/16	2WTBK-1.716	
	1 1/2	2WTBK-1.12	
	1 5/8	2WTBK-1.58	
	1 11/16	2WTBK-1.1116	
	1 3/4	2WTBK-1.34	
3	1 5/16	2WTBK-1.516	\$182.44
	1 11/16	3WTBK-1.1116	
	1 3/4	3WTBK-1.34	
	1 7/8	3WTBK-1.78	
	1 15/16	3WTBK-1.1516	
	2	3WTBK-2	
4	2 3/16	3WTBK-2.316	\$251.50
	1 15/16	4WTBK-1.1516	
	2	4WTBK-2	
	2 1/8	4WTBK-2.18	
	2 3/16	4WTBK-2.316	
	2 1/4	4WTBK-2.14	
5	2 7/16	4WTBK-2.716	\$346.45
	2 3/16	5WTBK-2.316	
	2 1/4	5WTBK-2.14	
	2 7/16	5WTBK-2.716	
	2 1/2	5WTBK-2.12	
	2 11/16	5WTBK-2.1116	
6	2 15/16	5WTBK-2.1516	\$450.70
	2 1/2	6WTBK-2.12	
	2 11/16	6WTBK-2.1116	
	2 7/8	6WTBK-2.78	
	2 15/16	6WTBK-2.1516	
	3	6WTBK-3	
7	3 7/16	6WTBK-3.716	\$606.01
	2 7/16	7WTBK-2.716	
	2 11/16	7WTBK-2.1116	
	2 15/16	7WTBK-2.1516	
	3	7WTBK-3	
	3 3/16	7WTBK-3.316	
8	3 7/16	7WTBK-3.716	\$734.79
	3 15/16	7WTBK-3.1516	
	2 15/16	8WTBK-2.1516	
	3 7/16	8WTBK-3.716	
	3 15/16	8WTBK-3.1516	
	4 3/16	8WTBK-4.316	
9	4 7/16	8WTBK-4.716	\$863.56
	3 7/16	9WTBK-3.716	
	3 15/16	9WTBK-3.1516	
	4 7/16	9WTBK-4.716	
	4 15/16	9WTBK-4.1516	
	3 15/16	10WTBK-3.1516	
10	4 7/16	10WTBK-4.716	\$991.15
	4 15/16	10WTBK-4.1516	
	5 7/16	10WTBK-5.716	

Box Size	Model * Number	List Price	Model Number	List Price
2	SMR2-TA	\$69.33	WSMR2-TA	\$105.09
3	SMR3-TA	\$69.33	WSMR3-TA	\$105.09
4	SMR4-TA	\$123.89	WSMR4-TA	\$123.89
5	SMR5-TA	\$123.89	WSMR5-TA	\$136.06
6	SMR6-TA	\$185.20	WSMR6-TA	\$243.36
7	SMR7-TA	\$362.64	WSMR7-TA	\$389.38
8	SMR8-TA	\$458.52	WSMR8-TA	\$625.00
9	SMR9-TA	\$458.52	WSMR9-TA	\$625.00
10	SMR10-TA	\$547.01	---	---

* SMR torque arms are not compatible with WSMR reducers.

"Original" SMR Rebuild Kits



Kits Include (Sold As Kit Only):

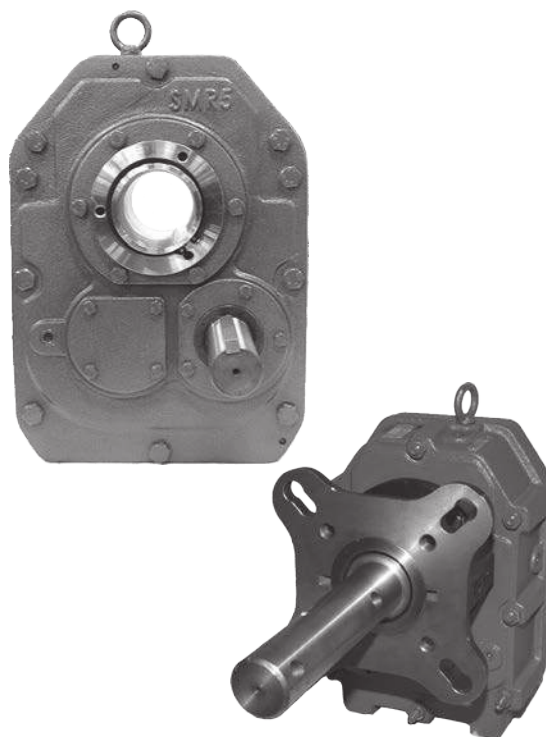
- » High speed input shaft
- » First gear reduction gear
- » Input bearings
- » Input seal
- » Output seals

Box Size	Ratio	Model Number	List Price
3	15:1	SMR315RBKIT	\$470.74
	25:1	SMR325RBKIT	
4	15:1	SMR415RBKIT	\$579.83
	25:1	SMR425RBKIT	
5	15:1	SMR515RBKIT	\$772.49
	25:1	SMR525RBKIT	
6	15:1	SMR615RBKIT	\$1,040.74
	25:1	SMR625RBKIT	
7	15:1	SMR715RBKIT	\$1,279.87
	25:1	SMR725RBKIT	
8	15:1	SMR815RBKIT	\$1,576.33
	25:1	SMR825RBKIT	
9	15:1	SMR915RBKIT	\$2,018.81
	25:1	SMR925RBKIT	
10	15:1	SMR1015RBKIT	\$3,378.32
	25:1	SMR1025RBKIT	

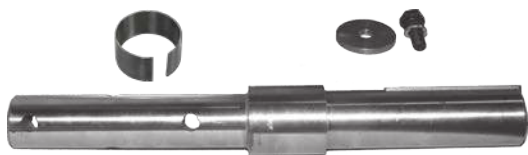
The "Ultimate" SMR System Screw Conveyor Components

Product Specifications (for screw conveyor applications)

- » 9:1, 15:1 and 25:1 ratios
- » Box sizes 2 - 6
- » Heavy duty FCD45 cast iron housing for corrosion resistance
- » CEMA adapter flange bolt-on design allows for easy mounting
- » Drive shaft machined from high strength alloy steel
- » Hardened gears for long-life, A.G.M.A. rated class 11
- » Double lip seal and braided felt seal installed
- » Flat bottom with four (4) tapped holes for additional mounting flexibility
- » Components for use only with The "Ultimate" Shaft Mount Reducer found on Page 7



Screw Conveyor Drive Shafts



- » Machined from high tensile strength alloy steel
- » Conforms to CEMA standards
- » Three-hole design for easy installation onto screw

Box Size	Model Number	Drive Shaft Size (inches)	List Price
2	2SCDS-1.12	1 1/2"	\$293.19
	2SCDS-2	2"	\$293.19
	2SCDS-2.716	2 7/16"	\$370.02
	2SCDS-3	3"	\$370.02
3	3SCDS-1.12	1 1/2"	\$380.62
	3SCDS-2	2"	\$380.62
	3SCDS-2.716	2 7/16"	\$380.62
	3SCDS-3	3"	\$435.71
4	4SCDS-1.12	1 1/2"	\$443.99
	4SCDS-2	2"	\$443.99
	4SCDS-2.716	2 7/16"	\$443.99
	4SCDS-3	3"	\$487.28
5	4SCDS-3.716	3 7/16"	\$517.15
	5SCDS-2	2"	\$552.87
	5SCDS-2.716	2 7/16"	\$552.87
	5SCDS-3	3"	\$552.87
6	5SCDS-3.716	3 7/16"	\$559.08
	6SCDS-2.716	2 7/16"	\$741.70
	6SCDS-3	3"	\$741.70
	6SCDS-3.716	3 7/16"	\$830.71

Screw Conveyor Flanges



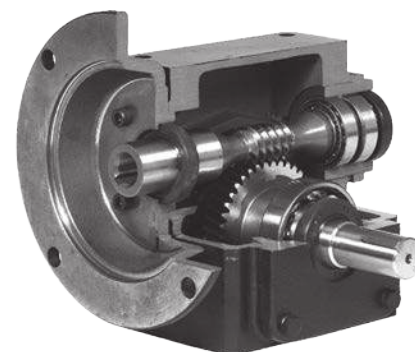
- » Conforms to CEMA standards
- » Bolt-on design allows for easy mounting
- » Heavy duty FCD45 cast iron construction
- » Double lip seal and braided felt seal installed

Box Size	Model Number	List Price
2	2SCF	\$276.08
3	3SCF	\$315.54
4	4SCF	\$364.26
5	5SCF	\$423.72
6	6SCF	\$542.87

HD Cast Iron Worm Gear Reducers: Overview

Product Specifications

- » 5:1 - 60:1 ratios
- » Box sizes (Center Distances of 1.33" to 3.25")
- » One piece # FC20 all cast iron housing
- » Embedded double-lip oil seals
- » Double bearings used on both shaft ends
- » Anti-rust primer applied outside gearbox before top painting
- » S45C carbon steel shafts
- » AIBC3 aluminum - bronze gear
- » Interior oil channel guide directly and constantly lube bearings
- » Tapered roller bearing on output and input shafts
- » All angle - radiused mounting holes
- » Air dry special black paint
- » Shaft sleeve protects all shafts
- » Compact design
- » Units filled with Mobil #SHC634 synthetic oil for "A" position mounting
- » Adjust oil level for alternative mounting positions
- » Universally interchangeable
- » 1 year warranty



Flange Input
Shaft Output
Left Hand Output



Flange Input
Shaft Output
Right Hand Output



Flange Input
Shaft Output
Double End Output



Flange Input
Hollow Bore Output



Shaft Input
Shaft Output
Left Hand Output



Shaft Input
Shaft Output
Right Hand Output

HD Cast Iron Worm Gear Reducers: How To Order

» Please use the following table and nomenclature for ordering WorldWide Electric Worm Gear Reducers

Style	Box Size	Ratio	Output	Motor Frame*
S - Shaft Input	133	5:1	L - Left Hand	56C
F - Flange Input	154	10:1	R - Right Hand	145TC
	175	15:1	DE - Double End	182/4TC
	206	20:1	H - Hollow Bore	
	237	30:1		
	262	40:1		
	325	50:1		
		60:1		*Leave Blank for Shaft Input
HdR _____	_____	____/____	_____	_____

HD Cast Iron Worm Gear Reducers: Mechanical Ratings

Input Speed		1750 RPM									
Box Size	Ratio	Mechanical (1.0 SF)			Thermal			Efficiency (%)	O.H.L. (lbs.)	Output Shaft Thrust Load (lbs.)	Backlash (ft.) (Angular Minutes)
		Input HP	Output Torque (lbs. in.)	Output HP	Input HP	Output Torque (lbs. in.)	Output HP				
133	5:1	1.15	209	1.05	1.21	221	1.11	91	300	300	27
	10:1	0.77	247	0.66	0.75	240	0.64	86			
	15:1	0.63	283	0.5	0.53	238	0.42	80			
	20:1	0.5	276	0.39	0.48	266	0.38	78			
	30:1	0.47	336	0.31	0.31	221	0.20	66			
	40:1	0.38	356	0.25	0.30	282	0.19	65			
	50:1	0.29	312	0.17	0.26	282	0.15	59			
	60:1	0.23	261	0.12	0.22	252	0.12	53			
154	5:1	2.06	345	1.90	2.04	341	1.88	92	450	400	23
	10:1	1.29	411	1.13	1.03	327	0.9	88			
	15:1	1.11	518	0.95	0.78	363	0.67	86			
	20:1	0.86	509	0.70	0.65	384	0.53	81			
	30:1	0.62	504	0.46	0.48	388	0.36	74			
	40:1	0.51	503	0.35	0.4	397	0.27	68			
	50:1	0.47	565	0.31	0.34	407	0.22	66			
	60:1	0.39	502	0.23	0.29	373	0.17	59			
175	5:1	2.83	499	2.62	2.28	402	2.11	93	650	550	20
	10:1	1.57	515	1.38	1.36	445	1.19	88			
	15:1	1.24	554	1.06	1.13	506	0.96	85			
	20:1	1.02	596	0.85	0.98	572	0.81	83			
	30:1	0.78	666	0.56	0.69	533	0.50	72			
	40:1	0.74	714	0.49	0.59	558	0.39	66			
	50:1	0.5	575	0.32	0.52	590	0.33	64			
	60:1	0.38	469	0.2	0.47	580	0.27	57			
206	5:1	3.62	685	3.33	2.57	486	2.36	92	700	750	17
	10:1	2.77	935	2.5	2.10	708	1.89	90			
	15:1	2.09	1002	1.78	1.40	673	1.20	85			
	20:1	1.57	914	1.29	1.17	681	0.96	82			
	30:1	1.65	1310	1.21	0.76	606	0.56	73			
	40:1	1.09	1120	0.77	0.71	726	0.50	71			
	50:1	0.74	830	0.46	0.54	606	0.33	62			
	60:1	0.6	750	0.35	0.48	606	0.28	58			
237	5:1	4.57	798	4.02	3.56	630	3.31	93	900	900	17
	10:1	3.47	1158	3.09	2.24	746	1.99	89			
	15:1	2.64	1249	2.22	1.55	732	1.30	84			
	20:1	2.06	1195	1.69	1.36	791	1.12	82			
	30:1	1.82	1507	1.39	1.02	847	0.78	76			
	40:1	1.45	1483	1.02	0.83	845	0.58	71			
	50:1	1.32	1527	0.84	0.67	779	0.43	64			
	60:1	0.86	1149	0.53	0.63	844	0.39	61			
262	5:1	5.24	924	4.86	4.32	761	4.00	93	1000	1000	17
	10:1	4.17	1445	3.74	3.06	1061	2.75	90			
	15:1	3.22	1577	2.81	2.47	1212	2.16	87			
	20:1	2.67	1563	2.21	1.84	1078	1.53	83			
	30:1	2.22	1827	1.68	1.30	1072	0.99	76			
	40:1	1.85	1919	1.32	1.11	1153	0.80	72			
	50:1	1.37	1658	0.92	0.95	1152	0.64	67			
	60:1	1.16	1670	0.77	0.94	1346	0.62	66			
325	5:1	9.72	1724	9.06	6.93	1228	6.46	93	1200	1100	15
	10:1	7.19	2419	6.46	4.63	1558	4.16	90			
	15:1	5.45	2611	4.65	3.19	1527	2.72	85			
	20:1	4.74	2875	4.07	3.31	2011	2.85	86			
	30:1	3.66	3045	2.8	2.00	1661	1.53	77			
	40:1	3.35	3692	2.55	1.96	2156	1.49	76			
	50:1	2.49	3413	1.88	1.92	2637	1.46	76			
	60:1	2.03	3127	1.44	1.61	2476	1.14	71			

2

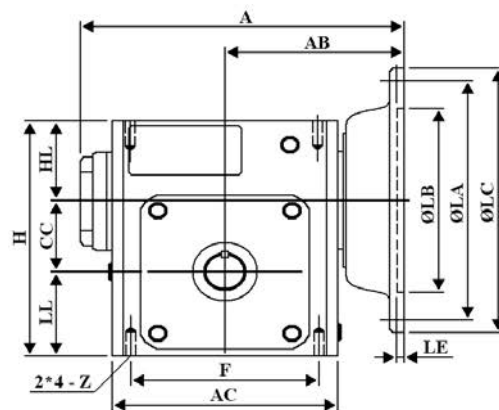
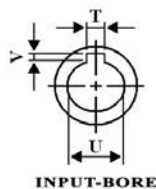
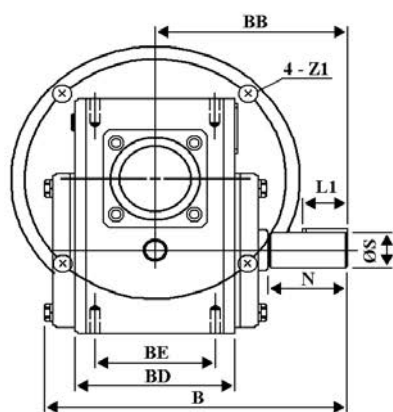
HEAVY DUTY
CAST IRON REDUCERS

HD Cast Iron Worm Gear Reducers: Flange Input, Shaft Output

2
HEAVY DUTY
CAST IRON REDUCERS

Ratio	Output RPM @ 1800 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number Left Hand Output	Model Number Right Hand Output	Model Number Double End Output	List Price
5:1	350	1.33	56C	17	HdRF133-5/1-L-56C	HdRF133-5/1-R-56C	HdRF133-5/1-DE-56C	\$247.79
		1.54	56C	22	---	HdRF154-5/1-R-56C	HdRF154-5/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-5/1-L-56C	HdRF175-5/1-R-56C	HdRF175-5/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-5/1-L-56C	HdRF206-5/1-R-56C	HdRF206-5/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-5/1-L-56C	HdRF237-5/1-R-56C	HdRF237-5/1-DE-56C	\$457.96
		2.62	182/4TC	53	HdRF262-5/1-L-182/4TC	HdRF262-5/1-R-182/4TC	HdRF262-5/1-DE-182/4TC	\$493.36
		3.25	182/4TC	90	HdRF325-5/1-L-182/4TC	HdRF325-5/1-R-182/4TC	HdRF325-5/1-DE-182/4TC	\$696.90
10:1	175	1.33	56C	17	HdRF133-10/1-L-56C	HdRF133-10/1-R-56C	HdRF133-10/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-10/1-L-56C	HdRF154-10/1-R-56C	HdRF154-10/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-10/1-L-56C	HdRF175-10/1-R-56C	HdRF175-10/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-10/1-L-56C	HdRF206-10/1-R-56C	HdRF206-10/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-10/1-L-56C	HdRF237-10/1-R-56C	HdRF237-10/1-DE-56C	\$457.96
		2.37	145TC	53	HdRF237-10/1-L-145TC	HdRF237-10/1-R-145TC	HdRF237-10/1-145TC	\$457.96
		2.62	182/4TC	53	HdRF262-10/1-L-182/4TC	HdRF262-10/1-R-182/4TC	HdRF262-10/1-DE-182/4TC	\$493.36
15:1	120	1.33	56C	17	HdRF133-15/1-L-56C	HdRF133-15/1-R-56C	HdRF133-15/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-15/1-L-56C	HdRF154-15/1-R-56C	HdRF154-15/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-15/1-L-56C	HdRF175-15/1-R-56C	HdRF175-15/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-15/1-L-56C	HdRF206-15/1-R-56C	HdRF206-15/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-15/1-L-56C	HdRF237-15/1-R-56C	HdRF237-15/1-DE-56C	\$457.96
		2.62	56C	53	HdRF262-15/1-L-56C	HdRF262-15/1-R-56C	HdRF262-15/1-DE-56C	\$493.36
		2.62	145TC	53	HdRF262-15/1-L-145TC	HdRF262-15/1-R-145TC	HdRF262-15/1-DE-145TC	\$493.36
20:1	88	3.25	182/4TC	90	HdRF325-15/1-L-182/4TC	HdRF325-15/1-R-182/4TC	HdRF325-15/1-DE-182/4TC	\$696.90
		1.33	56C	17	HdRF133-20/1-L-56C	HdRF133-20/1-R-56C	HdRF133-20/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-20/1-L-56C	HdRF154-20/1-R-56C	HdRF154-20/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-20/1-L-56C	HdRF175-20/1-R-56C	HdRF175-20/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-20/1-L-56C	HdRF206-20/1-R-56C	HdRF206-20/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-20/1-L-56C	HdRF237-20/1-R-56C	HdRF237-20/1-DE-56C	\$457.96
		2.62	56C	53	HdRF262-20/1-L-56C	HdRF262-20/1-R-56C	HdRF262-20/1-DE-56C	\$493.36
30:1	58	2.62	145TC	53	HdRF262-20/1-L-145TC	HdRF262-20/1-R-145TC	HdRF262-20/1-DE-145TC	\$493.36
		3.25	182/4TC	90	HdRF325-20/1-L-182/4TC	HdRF325-20/1-R-182/4TC	HdRF325-20/1-DE-182/4TC	\$696.90
		1.33	56C	17	HdRF133-30/1-L-56C	HdRF133-30/1-R-56C	HdRF133-30/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-30/1-L-56C	HdRF154-30/1-R-56C	HdRF154-30/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-30/1-L-56C	HdRF175-30/1-R-56C	HdRF175-30/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-30/1-L-56C	HdRF206-30/1-R-56C	HdRF206-30/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-30/1-L-56C	HdRF237-30/1-R-56C	HdRF237-30/1-DE-56C	\$457.96
40:1	44	2.62	56C	50	HdRF262-30/1-L-56C	HdRF262-30/1-R-56C	HdRF262-30/1-DE-56C	\$493.36
		2.62	145TC	50	HdRF262-30/1-L-145TC	HdRF262-30/1-R-145TC	HdRF262-30/1-DE-145TC	\$493.36
		3.25	56C	87	HdRF325-30/1-L-56C	HdRF325-30/1-R-56C	HdRF325-30/1-DE-56C	\$696.90
		3.25	145TC	87	HdRF325-30/1-L-145TC	HdRF325-30/1-R-145TC	HdRF325-30/1-DE-145TC	\$696.90
		3.25	182/4TC	90	HdRF325-30/1-L-182/4TC	HdRF325-30/1-R-182/4TC	---	\$696.90
		1.33	56C	17	HdRF133-40/1-L-56C	HdRF133-40/1-R-56C	HdRF133-40/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-40/1-L-56C	HdRF154-40/1-R-56C	HdRF154-40/1-DE-56C	\$272.12
50:1	35	1.75	56C	27	HdRF175-40/1-L-56C	HdRF175-40/1-R-56C	HdRF175-40/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-40/1-L-56C	HdRF206-40/1-R-56C	HdRF206-40/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-40/1-L-56C	HdRF237-40/1-R-56C	HdRF237-40/1-DE-56C	\$457.96
		2.62	56C	50	HdRF262-40/1-L-56C	HdRF262-40/1-R-56C	HdRF262-40/1-DE-56C	\$493.36
		2.62	145TC	50	HdRF262-40/1-L-145TC	---	---	\$493.36
		3.25	56C	87	HdRF325-40/1-L-56C	HdRF325-40/1-R-56C	HdRF325-40/1-DE-56C	\$696.90
		3.25	145TC	87	HdRF325-40/1-L-145TC	HdRF325-40/1-R-145TC	HdRF325-40/1-DE-145TC	\$696.90
60:1	29	1.33	56C	17	HdRF133-50/1-L-56C	HdRF133-50/1-R-56C	HdRF133-50/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-50/1-L-56C	HdRF154-50/1-R-56C	HdRF154-50/1-DE-56C	\$272.12
		1.76	56C	27	HdRF175-50/1-L-56C	HdRF175-50/1-R-56C	HdRF175-50/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-50/1-L-56C	HdRF206-50/1-R-56C	HdRF206-50/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-50/1-L-56C	HdRF237-50/1-R-56C	HdRF237-50/1-DE-56C	\$457.96
		2.62	56C	50	HdRF262-50/1-L-56C	HdRF262-50/1-R-56C	HdRF262-50/1-DE-56C	\$493.36
		3.25	56C	87	HdRF325-50/1-L-56C	HdRF325-50/1-R-56C	HdRF325-50/1-DE-56C	\$696.90
60:1	29	3.25	145TC	87	HdRF325-50/1-L-145TC	HdRF325-50/1-R-145TC	HdRF325-50/1-DE-145TC	\$696.90
		1.33	56C	17	HdRF133-60/1-L-56C	HdRF133-60/1-R-56C	HdRF133-60/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-60/1-L-56C	HdRF154-60/1-R-56C	HdRF154-60/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-60/1-L-56C	HdRF175-60/1-R-56C	HdRF175-60/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-60/1-L-56C	HdRF206-60/1-R-56C	HdRF206-60/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-60/1-L-56C	HdRF237-60/1-R-56C	HdRF237-60/1-DE-56C	\$457.96
		2.62	56C	50	HdRF262-60/1-L-56C	HdRF262-60/1-R-56C	HdRF262-60/1-DE-56C	\$493.36
60:1	29	3.25	56C	87	HdRF325-60/1-L-56C	HdRF325-60/1-R-56C	HdRF325-60/1-DE-56C	\$696.90
		3.25	145TC	87	HdRF325-60/1-L-145TC	HdRF325-60/1-R-145TC	HdRF325-60/1-DE-145TC	\$696.90

HD Cast Iron Worm Gear Reducers: Dimensions Flange Input, Shaft Output, Left / Right Hand Output



2

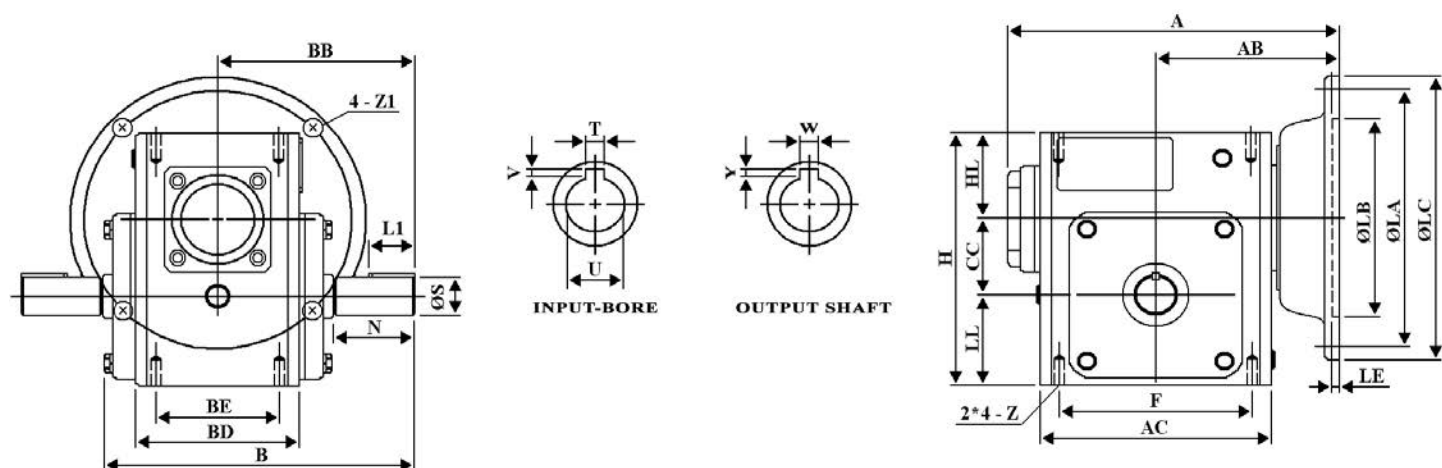
HEAVY DUTY
CAST IRON REDUCERS

All listed dimensions in inches														
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL	N
133	56C	5.99	3.386	3.78	6.067	4	2.835	2	1.333	3.25	4.656	1.605	1.718	2
154	56C	7.15	3.976	4.961	6.122	4.311	3.622	2.75	1.54	4.188	5.378	1.929	1.909	1.772
175	56C	7.29	4.035	5.059	6.831	4.311	3.563	2.75	1.75	4.188	5.75	1.938	2.062	1.781
206	56C	7.95	4.37	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281	2.09
237	56C	8.71	4.705	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5	2.37
262	56C	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	145TC	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	182/4TC	10.57	6.24	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
325	56C	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	145TC	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	182/4TC	12.59	7.244	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25

All listed dimensions in inches													
Box Size	NEMA Frame	Z (UNC)	INPUT BORE		OUTPUT SHAFT			FLANGE					Oil (oz.)
			U	T x V	L1	S	W x Y	LA	LB	LC	LE	Z1	
133	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.625	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	5.82
154	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.75	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	11.64
175	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.875	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	11.64
206	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	19.41
237	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	24.07
262	56C	3/8 - 16	0.625	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	145TC	3/8 - 16	0.875	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	182/4TC	3/8 - 16	1.125	1/4 x 1/8	2	1.125	1/4 x 1/8	8.5	7.25	9	0.197	0.551	34.55
325	56C	7/16 - 14	0.625	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	145TC	7/16 - 14	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	182/4TC	7/16 - 14	1.125	1/4 x 1/8	2.438	1.375	5/16 x 5/32	8.5	7.25	9	0.197	0.551	73.75

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

HD Cast Iron Worm Gear Reducers: Dimensions Flange Input, Shaft Output, Double End Output



All listed dimensions in inches														
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL	N
133	56C	5.99	3.386	3.78	6.067	4	2.835	2	1.333	3.25	4.656	1.605	1.718	2
175	56C	7.29	4.035	5.059	6.831	4.311	3.563	2.75	1.75	4.188	5.75	1.938	2.062	1.781
206	56C	7.95	4.37	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281	2.09
237	56C	8.71	4.705	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5	2.37
262	56C	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	145TC	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	182/4TC	10.57	6.24	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
325	56C	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	145TC	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	182/4TC	12.59	7.244	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25

All listed dimensions in inches													
Box Size	NEMA Frame	Z (UNC)	INPUT BORE		OUTPUT SHAFT			FLANGE					Oil (oz.)
			U	T x V	L1	S	W x Y	LA	LB	LC	LE	Z1	
133	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.625	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	5.82
175	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.875	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	11.64
206	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	19.41
237	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	24.07
262	56C	3/8 - 16	0.625	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	145TC	3/8 - 16	0.875	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	182/4TC	3/8 - 16	1.125	1/4 x 1/8	2	1.125	1/4 x 1/8	8.5	7.25	9	0.197	0.551	34.55
325	56C	7/16 - 14	0.625	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	145TC	7/16 - 14	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	182/4TC	7/16 - 14	1.125	1/4 x 1/8	2.438	1.375	5/16 x 5/32	8.5	7.25	9	0.197	0.551	73.75

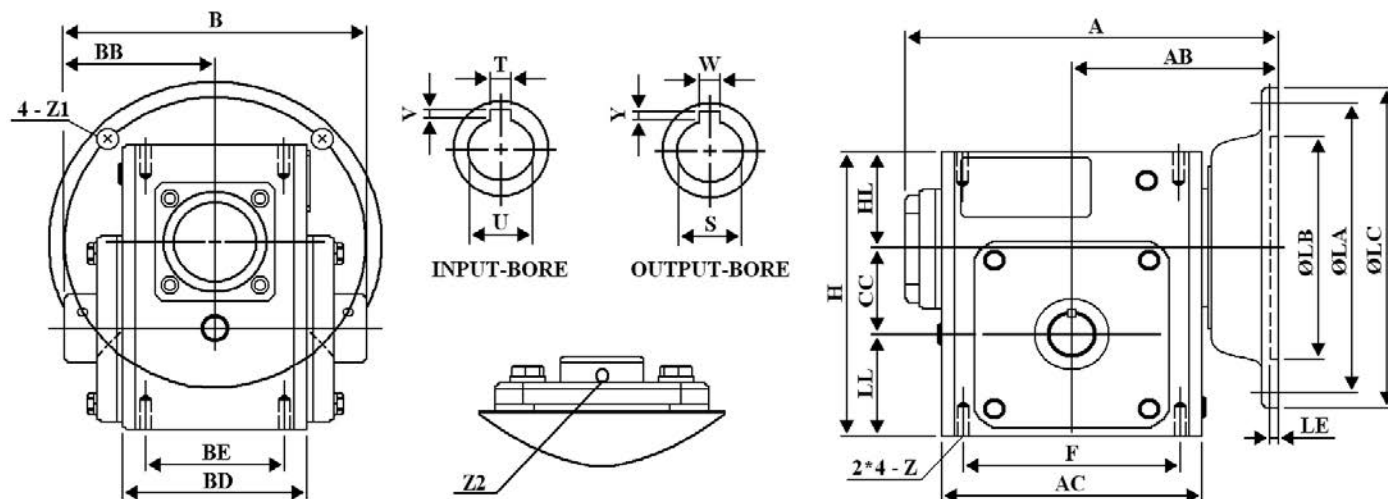
Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

HD Cast Iron Worm Gear Reducers: Flange Input, Hollow Bore Output

Ratio C	Output RPM @ 1800 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
5:1	350	1.33	56C	17	HdRF133-5/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-5/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-5/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-5/1-H-56C	\$542.04
		2.62	182/4TC	53	HdRF262-5/1-H-182/4TC	\$667.04
		3.25	182/4TC	90	HdRF325-5/1-H-182/4TC	\$926.99
10:1	175	1.33	56C	17	HdRF133-10/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-10/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-10/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-10/1-H-56C	\$542.04
		2.62	182/4TC	53	HdRF262-10/1-H-182/4TC	\$667.04
		3.25	182/4TC	90	HdRF325-10/1-H-182/4TC	\$926.99
15:1	120	1.33	56C	17	HdRF133-15/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-15/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-15/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-15/1-H-56C	\$542.04
		2.62	56C	53	HdRF262-15/1-H-56C	\$667.04
		2.62	145TC	53	HdRF262-15/1-H-145TC	\$667.04
20:1	88	3.25	182/4TC	90	HdRF325-15/1-H-182/4TC	\$926.99
		1.33	56C	17	HdRF133-20/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-20/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-20/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-20/1-H-56C	\$542.04
		2.62	56C	53	HdRF262-20/1-H-56C	\$667.04
30:1	58	2.62	145TC	53	HdRF262-20/1-H-145TC	\$667.04
		3.25	182/4TC	90	HdRF325-20/1-H-182/4TC	\$926.99
		1.33	56C	17	HdRF133-30/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-30/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-30/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-30/1-H-56C	\$542.04
40:1	44	2.62	56C	50	HdRF262-30/1-H-56C	\$667.04
		2.62	145TC	50	HdRF262-30/1-H-145TC	\$667.04
		3.25	56C	87	HdRF325-30/1-H-56C	\$926.99
		3.25	145TC	87	HdRF325-30/1-H-145TC	\$926.99
		1.33	56C	17	HdRF133-40/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-40/1-H-56C	\$396.02
50:1	35	2.06	56C	32	HdRF206-40/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-40/1-H-56C	\$542.04
		2.62	56C	50	HdRF262-40/1-H-56C	\$667.04
		3.25	56C	87	HdRF325-40/1-H-56C	\$926.99
		3.25	145TC	87	HdRF325-40/1-H-145TC	\$926.99
		1.33	56C	17	HdRF133-50/1-H-56C	\$334.07
60:1	29	1.76	56C	27	HdRF175-50/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-50/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-50/1-H-56C	\$542.04
		2.62	56C	50	HdRF262-50/1-H-56C	\$667.04
		3.25	56C	87	HdRF325-50/1-H-56C	\$926.99
		3.25	145TC	87	HdRF325-50/1-H-145TC	\$926.99
60:1	29	1.33	56C	17	HdRF133-60/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-60/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-60/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-60/1-H-56C	\$542.04
		2.62	56C	50	HdRF262-60/1-H-56C	\$667.04
		3.25	56C	87	HdRF325-60/1-H-56C	\$926.99
60:1	29	3.25	145TC	87	HdRF325-60/1-H-145TC	\$926.99
		3.25	182/4TC	90	HdRF325-60/1-H-182/4TC	\$926.99

HD Cast Iron Worm Gear Reducers: Dimensions

Flange Input, Hollow Bore Output



All listed dimensions in inches														
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL	Z2
133	56C	5.98	3.386	3.78	4.44	2.218	2.835	2	1.333	3.25	4.656	1.605	1.718	#10 - 32 UNF x 1/4
175	56C	7.28	4.035	5.059	6.18	3.091	3.563	2.75	1.75	4.19	5.75	1.938	2.062	#10 - 32 UNF x 1/4
206	56C	7.95	4.37	5.748	6.44	3.219	3.819	2.88	2.062	5	6.375	2.032	2.281	1/4 - 28 UNF x 3/8
237	56C	8.68	4.705	6.378	6.44	3.22	4.055	2.88	2.375	5	6.937	2.062	2.5	1/4 - 28 UNF x 3/8
262	56C	9.41	5.059	7.165	7	3.5	4.68	3.375	2.625	6.38	8	2.437	2.938	1/4 - 28 UNF x 3/8
	145TC	9.41	5.059	7.165	7	3.5	4.68	3.375	2.625	6.38	8	2.437	2.938	1/4 - 28 UNF x 3/8
	182/4TC	10.59	6.24	7.165	7	3.5	4.68	3.375	2.625	6.38	8	2.437	2.938	1/4 - 28 UNF x 3/8
325	56C	11.42	6.063	9.016	8.76	4.38	5.748	4	3.25	7.5	9.375	2.625	3.5	5/16 - 24 UNF x 3/8
	145TC	11.42	6.063	9.016	8.76	4.38	5.748	4	3.25	7.5	9.375	2.625	3.5	5/16 - 24 UNF x 3/8
	182/4TC	12.6	7.244	9.016	8.76	4.38	5.748	4	3.25	7.5	9.375	2.625	3.5	5/16 - 24 UNF x 3/8

All listed dimensions in inches												
Box Size	NEMA Frame	Z (UNC)	INPUT BORE		S	W x Y	FLANGE					Oil (oz.)
			U	T x V			LA	LB	LC	LE	Z1	
133	56C	5/16 - 18	0.625	3/16 x 3/32	0.625	3/16 x 3/32	5.875	4.5	6.5	0.157	0.433	5.82
175	56C	5/16 - 18	0.625	3/16 x 3/32	1	1/4 x 7/64	5.875	4.5	6.5	0.157	0.433	11.64
206	56C	3/8 - 16	0.625	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	6.5	0.157	0.433	19.41
237	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	6.5	0.157	0.433	24.07
262	56C	3/8 - 16	0.625	3/16 x 3/32	1.437	3/8 x 3/16	5.875	4.5	6.5	0.157	0.433	34.55
	145TC	3/8 - 16	0.875	3/16 x 3/32	1.437	3/8 x 3/16	5.875	4.5	6.5	0.157	0.433	34.55
	182/4TC	3/8 - 16	1.125	1/4 x 1/8	1.437	3/8 x 3/16	7.25	8.5	9	0.2	0.551	34.55
325	56C	7/16 - 14	0.625	3/16 x 3/32	1.937	1/2 x 1/4	5.875	4.5	6.5	0.157	0.433	73.75
	145TC	7/16 - 14	0.875	3/16 x 3/32	1.937	1/2 x 1/4	5.875	4.5	6.5	0.157	0.433	73.75
	1842/TC	7/16 - 14	1.125	1/4 x 1/8	1.937	1/2 x 1/4	7.25	8.5	9	0.2	0.551	73.75

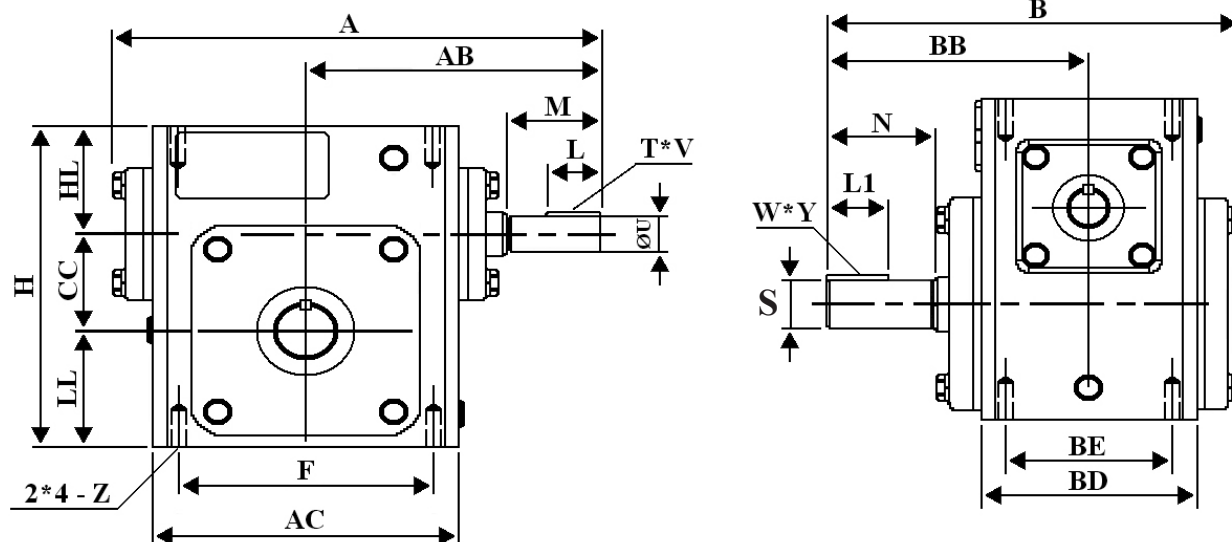
Dimensions shown in this catalog are for general use only.
 For an exact drawing on a specific rating, please contact our sales office.

HD Cast Iron Worm Gear Reducers: *Shaft Input, Shaft Output*

Ratio C	Output RPM @ 1800 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number Left Hand Output	Model Number Right Hand Output	List Price
5:1	350	1.33	56C	17	HdRS133-5/1-L	HdRS133-5/1-R	\$213.50
		1.75	56C	27	HdRS175-5/1-L	HdRS175-5/1-R	\$257.74
		2.06	56C	32	HdRS206-5/1-L	HdRS206-5/1-R	\$308.63
		2.37	56C	38	HdRS237-5/1-L	HdRS237-5/1-R	\$353.98
		2.62	182/4TC	53	HdRS262-5/1-L	HdRS262-5/1-R	\$434.73
		3.25	182/4TC	90	HdRS325-5/1-L	HdRS325-5/1-R	\$612.83
10:1	175	1.33	56C	17	HdRS133-10/1-L	HdRS133-10/1-R	\$213.50
		1.54	56C	22	HdRS154-10/1-L	---	\$235.62
		1.75	56C	27	HdRS175-10/1-L	HdRS175-10/1-R	\$257.74
		2.06	56C	32	HdRS206-10/1-L	HdRS206-10/1-R	\$308.63
		2.37	56C	38	HdRS237-10/1-L	HdRS237-10/1-R	\$353.98
		2.62	182/4TC	53	HdRS262-10/1-L	HdRS262-10/1-R	\$434.73
15:1	120	3.25	182/4TC	90	HdRS325-10/1-L	HdRS325-10/1-R	\$612.83
		1.33	56C	17	HdRS133-15/1-L	HdRS133-15/1-R	\$213.50
		1.75	56C	27	HdRS175-15/1-L	HdRS175-15/1-R	\$257.74
		2.06	56C	32	HdRS206-15/1-L	HdRS206-15/1-R	\$308.63
		2.37	56C	38	HdRS237-15/1-L	HdRS237-15/1-R	\$353.98
		2.62	56C/145TC	53	HdRS262-15/1-L	HdRS262-15/1-R	\$434.73
20:1	88	3.25	182/4TC	90	HdRS325-15/1-L	HdRS325-15/1-R	\$612.83
		1.33	56C	17	HdRS133-20/1-L	HdRS133-20/1-R	\$213.50
		1.54	56C	22	HdRS154-20/1-L	---	\$235.62
		1.75	56C	27	HdRS175-20/1-L	HdRS175-20/1-R	\$257.74
		2.06	56C	32	HdRS206-20/1-L	HdRS206-20/1-R	\$308.63
		2.37	56C	38	HdRS237-20/1-L	HdRS237-20/1-R	\$353.98
30:1	58	2.62	56C/145TC	53	HdRS262-20/1-L	HdRS262-20/1-R	\$434.73
		3.25	182/4TC	90	HdRS325-20/1-L	HdRS325-20/1-R	\$612.83
		1.33	56C	17	HdRS133-30/1-L	HdRS133-30/1-R	\$213.50
		1.75	56C	27	HdRS175-30/1-L	HdRS175-30/1-R	\$257.74
		2.06	56C	32	HdRS206-30/1-L	HdRS206-30/1-R	\$308.63
		2.37	56C	38	HdRS237-30/1-L	HdRS237-30/1-R	\$353.98
40:1	44	2.62	56C/145TC	50	HdRS262-30/1-L	HdRS262-30/1-R	\$434.73
		3.25	56C/145TC	87	HdRS325-30/1-L	HdRS325-30/1-R	\$612.83
		1.33	56C	17	HdRS133-40/1-L	HdRS133-40/1-R	\$213.50
		1.54	56C	22	HdRS154-40/1-L	---	\$235.62
		1.75	56C	27	HdRS175-40/1-L	HdRS175-40/1-R	\$257.74
		2.06	56C	32	HdRS206-40/1-L	HdRS206-40/1-R	\$308.63
50:1	35	2.37	56C	38	HdRS237-40/1-L	HdRS237-40/1-R	\$353.98
		2.62	56C	50	HdRS262-40/1-L	HdRS262-40/1-R	\$434.73
		3.25	56C/145TC	87	HdRS325-40/1-L	HdRS325-40/1-R	\$612.83
		1.33	56C	17	HdRS133-50/1-L	HdRS133-50/1-R	\$213.50
		1.76	56C	27	HdRS175-50/1-L	HdRS175-50/1-R	\$257.74
		2.06	56C	32	HdRS206-50/1-L	HdRS206-50/1-R	\$308.63
60:1	29	2.37	56C	38	HdRS237-50/1-L	HdRS237-50/1-R	\$353.98
		2.62	56C	50	HdRS262-50/1-L	HdRS262-50/1-R	\$434.73
		3.25	56C/145TC	87	HdRS325-50/1-L	HdRS325-50/1-R	\$612.83
		1.33	56C	17	HdRS133-60/1-L	HdRS133-60/1-R	\$213.50
		1.75	56C	27	HdRS175-60/1-L	HdRS175-60/1-R	\$257.74
		2.06	56C	32	HdRS206-60/1-L	HdRS206-60/1-R	\$308.63
60:1	29	2.37	56C	38	HdRS237-60/1-L	HdRS237-60/1-R	\$353.98
		2.62	56C	50	HdRS262-60/1-L	HdRS262-60/1-R	\$434.73
		3.25	56C/145TC/182/4TC	87	HdRS325-60/1-L	HdRS325-60/1-R	\$612.83

HD Cast Iron Worm Gear Reducers: Dimensions

Shaft Input, Shaft Output

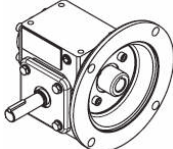
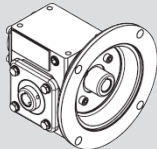
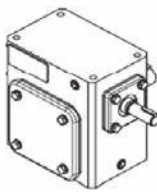


All listed dimensions in inches													
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL
133	56	6.45	3.907	3.78	6.067	4	2.835	2	1.333	3.25	4.656	1.605	1.718
175	56	8.06	4.872	5.059	6.831	4.311	3.563	2.75	1.75	4.188	5.75	1.938	2.062
206	56	8.65	5.128	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281
	145T	8.65	5.128	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281
237	56	9.69	5.75	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5
	145T	9.69	5.75	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5
	182/4T	9.69	5.75	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5
262	56	10.61	6.309	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938
	145T	10.61	6.309	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938
	182/4T	10.61	6.309	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938
325	145T	12.74	7.441	9.016	11.01	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5
	182/4T	12.74	7.441	9.016	11.01	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5

All listed dimensions in inches													
Box Size	NEMA Frame	Z (UNC)	INPUT BORE		OUTPUT SHAFT			FLANGE					Oil (oz.)
			U	T x V	L1	S	W x Y	LA	LB	LC	LE	Z1	
133	56	1.309	2	5/16 - 18	0.625	0.5	1/8 x 1/16	1	0.625	3/16 x 3/32	5.82		
175	56	1.555	1.781	5/16 - 18	0.875	0.625	3/16 x 3/32	1	0.875	3/16 x 3/32	11.64		
206	56	1.555	2.09	3/8 - 16	0.875	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	19.41		
	145T	1.555	2.09	3/8 - 16	0.875	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	19.41		
237	56	2	2.37	3/8 - 16	1	0.75	3/16 x 3/32	1.25	1.125	1/4 x 1/8	24.07		
	145T	2	2.37	3/8 - 16	1	0.75	3/16 x 3/32	1.25	1.125	1/4 x 1/8	24.07		
	182/4T	2	2.37	3/8 - 16	1	0.75	3/16 x 3/32	1.25	1.125	1/4 x 1/8	24.07		
262	56	2	2.626	3/8 - 16	1	0.75	3/16 x 3/32	2	1.125	1/4 x 1/8	34.55		
	145T	2	2.626	3/8 - 16	1	0.75	3/16 x 3/32	2	1.125	1/4 x 1/8	34.55		
	182/4T	2	2.626	3/8 - 16	1	0.75	3/16 x 3/32	2	1.125	1/4 x 1/8	34.55		
325	145T	2.343	3.25	7/16 - 14	1	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	73.75		
	182/4T	2.343	3.25	7/16 - 14	1	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	73.75		

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HD Cast Iron Worm Gear Reducers: Competitive Interchange

Center Distance		1.33	1.75	2.06	2.37	2.62	3.25
WorldWide Electric		HdRF133-L/R	HdRF175-L/R	HdRF206-L/R	HdRF237-L/R	HdRF262-L/R	HdRF325-L/R
 C-FACE INPUT SHAFT OUTPUT	Alling Lander	13UF	17UF	20UF	23UF	26UF	32UF
	Baldor	F913	F918	F921	F924	F926	F932
	Boston	F713	F718	F721	F724	F726	F732
	Browning - Raider	Q133	Q175	Q206	Q237	Q262	Q325
	Dodge - Tigear	Q133	Q175	Q200	—	Q262	—
	Electra *	MSC13	MSC17	MSC21	—	MSC26	—
	Falk - Omnibox	1133WBM	1175WBM	1206WBM	1238WBM	1262WBM	1325WBM
	Grove (New)	BMQ213	BMQ218	BMQ220	BMQ224	BMQ226	BMQ232
	Grove (Old)	BMQ1133	BMQ1175	BMQ1206	BMQ1238	BMQ1262	BMQ1325
	Hub City *	134	184	214	—	264	324
	Leeson	BMQ613	BMQ618	BMQ621	BMQ624	BMQ626	BMQ632
	Morse Cobra *	13Q	18Q	21Q	—	26Q	—
	Morse Raider	713F	718F	721F	724F	726F	732F
	Ohio Gear	BMQ2133	BMQ2175	BMQ2206	BMQ2238	BMQ2262	BMQ2325
	Winsmith *	913MDN	917MDN	920MDN	924MDN	926MDN	—
WorldWide Electric		HdRF133-H	HdRF175-H	HdRF206-H	HdRF237-H	HdRF262-H	HdRF325-H
 C-FACE INPUT HOLLOW BORE OUTPUT	Alling Lander	13YF	17YF	20YF	23YF	26YF	32YF
	Baldor	HF913	HF918	HF921	HF924	HF926	HF932
	Boston	HF713	HF718	HF721	HF724	HF726	HF732
	Browning - Raider	QH133	QH175	QH206	QH237	QH262	QH325
	Electra *	—	MHSC17	MHSC21	—	MHSC26	—
	Falk - Omnibox	1133WBQM	1175WBQM	1206WBQM	1238WBQM	1262WBQM	1325WBQM
	Grove (New)	HMQ213	HMQ218	HMQ220	HMQ224	HMQ226	HMQ232
	Grove (Old)	HMQ1133	HMQ1175	HMQ1206	HMQ1238	HMQ1262	HMQ1325
	Hub City *	—	185	215	—	265	325
	Leeson	HMQ613	HMQ618	HMQ621	HMQ624	HMQ626	HMQ632
	Morse Cobra *	13QH	18QH	21QH	—	26QH	—
	Morse Raider	713SF	718SF	721SF	724SF	726SF	732SF
	Ohio Gear	SM2133MQ	SM2175MQ	SM2206MQ	SM2238MQ	SM2262MQ	SM2325MQ
	Winsmith *	—	917MDSN	920MDSN	924MDSN	926MDSN	—
WorldWide Electric		HdRS133	HdRS175	HdRS206	HdRS237	HdRS262	HdRS325
 SHAFT INPUT SHAFT OUTPUT	Alling Lander	13U	17U	20U	23U	26U	32U
	Baldor	S913	S918	S921	S924	S926	S932
	Boston	713	718	721	724	726	732
	Browning - Raider	U133	U175	U206	U237	U262	U325
	Dodge - Tigear	S133	S175	S200	—	S262	—
	Electra *	M13	M17	M21	—	M26	—
	Falk - Omnibox	1133WB	1175WB	1206WB	1238WB	1262WB	1325WB
	Grove (New)	B213	B218	B220	B224	B226	B232
	Grove (Old)	B1133	B1175	B1206	B1238	B1262	B1325
	Hub City *	131	181	211	—	261	321
	Leeson	B613	B618	B621	B624	B626	B632
	Morse Cobra *	13U	18U	21U	—	26U	—
	Morse Raider	713B	718B	721B	724B	726B	732B
	Ohio Gear	B2133	B2175	B2206	B2238	B2262	B2325
	Winsmith *	913DN	917DN	920DN	924DN	926DN	—

* WorldWide worm gearboxes are not dimensionally interchangeable with these manufacturers.

** WorldWide hollow bore worm gearboxes have only one output diameter bore available per center distance.

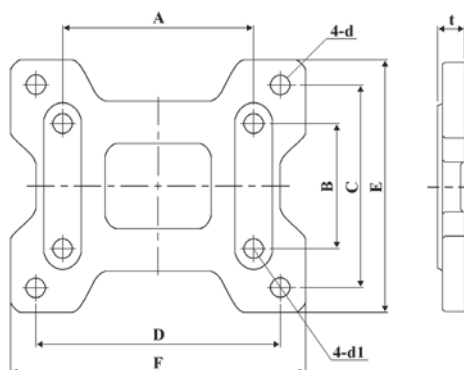
HD Cast Iron Worm Gear Reducers: Accessories and Parts

Mounting Bases

Product Specifications

- » Box Sizes 1.33 - 3.25
- » Includes Mounting Bolts

Box Size	Model Number	List Price
133	HdRBASE133	\$30.52
154	HdRBASE154	\$34.33
175	HdRBASE175	\$38.15
206	HdRBASE206	\$45.77
237	HdRBASE237	\$53.41
262	HdRBASE262	\$61.04
325	HdRBASE325	\$68.66



All dimensions in inches									
Box Size	A	B	C	D	E	F	t	d	d1
133	3.25	2.00	3.31	4.38	4.19	5.38	0.53	11/32	3/8
154	4.19	2.75	4.31	5.25	5.44	6.44	0.59	11/32	3/8
175	4.19	2.75	4.50	5.75	5.69	7.00	0.69	13/32	3/8
206	5.00	2.88	4.69	6.38	5.94	7.75	0.72	15/32	7/16
237	5.00	2.88	4.88	7.06	6.22	8.50	0.75	15/32	7/16
262	6.38	3.38	5.25	8.00	6.66	9.63	0.75	17/32	7/16
325	7.50	4.00	6.13	9.50	7.66	11.19	0.88	17/32	1/2

HD Cast Iron Worm Gear Reducers: Accessories and Parts

Miscellaneous Parts

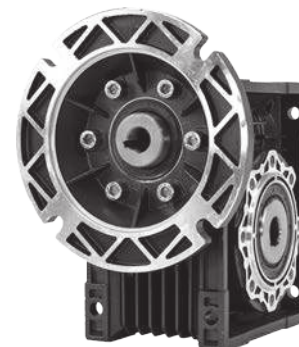
Model Number	Description	List Price
Breather Plugs		
HdR-BPBRASSALL	BREATHING PLUG HdRF133-HdRF262 / HdRS133-HdRS262	\$8.23
HdR-BPBRASS325	BREATHING PLUG HdRF325 / HdRS325	\$10.92
Bearings / Input		
HdR-PBA30203	INPUT BEARING HdRF133-HdRF206	\$34.21
HdR-PBA30204	INPUT BEARING HdRS133	\$29.05
HdR-PBA30205	INPUT BEARING HdRF237-HdRF262 / HdRS175-HdRS206	\$32.11
HdR-PBA30206	INPUT BEARING HdRF133-HdRF206 / HdRF325	\$36.89
HdR-PBA30207	INPUT BEARING HdRS325	\$46.45
Bearings / Output		
HdR-PBA30204	OUTPUT BEARING HdRF133 / HdRS133	\$29.05
HdR-PBA30206	OUTPUT BEARING HdRF175-HdRF206 / HdRS175-HdRS206	\$36.89
HdR-PBA30207	OUTPUT BEARING HdRF237-HdRF262 / HdRS237-HdRS262	\$46.45
HdR-PBA30208	OUTPUT BEARING HdRF325 / HdRS325	\$55.23
HdR-PBA32008	OUTPUT BEARING HdRF175 HOLLOW BORE	\$72.63
HdR-PBA32009	OUTPUT BEARING HdRF206 HOLLOW BORE	\$88.87
HdR-PBA32010	OUTPUT BEARING HdRF237 HOLLOW BORE	\$102.06
HdR-PBA32012	OUTPUT BEARING HdRF262 HOLLOW BORE	\$148.32
HdR-PBA32014	OUTPUT BEARING HdRF325 HOLLOW BORE	\$228.02
Input Flanges		
HdR-KFYG0331651	INPUT FLANGE HdRF133-HdRF154 (56C)	\$101.43
HdR-KFYG0451651	INPUT FLANGE HdRF175-HdRF206 (56C)	\$109.08
HdR-KFYG0611651	INPUT FLANGE HdRF237-HdRF262 (56C/145TC)	\$112.59
HdR-KFYG0612281	INPUT FLANGE HdRF262 (182/4TC)	\$208.52
HdR-KFYG0831651	INPUT FLANGE HdRF325 (56C/145TC)	\$128.54
HdR-KFYG0832281	INPUT FLANGE HdRF325 (182/4TC)	\$243.47
Oil Seals / Sealed		
HdR-PSS000040087	OIL SEAL / SEALED HdRF133-HdRF206	\$10.00
HdR-PSS000052079	OIL SEAL / SEALED HdRF237-HdRF262	\$16.15
HdR-PSS000062107	OIL SEAL / SEALED HdRF325	\$22.85

Model Number	Description	List Price
Oil Seals / Input		
HdR-PSS030042081	OIL SEAL / INPUT HdRF133-HdRF325 (56C)	\$12.99
HdR-PSS035042081	OIL SEAL / INPUT HdRF237-HdRF262 (145TC)	\$10.14
HdR-PSS045062081	OIL SEAL / INPUT HdRF262-HdRF325 (182/4TC)	\$10.14
HdR-PSS045062081	OIL SEAL / INPUT HdRF325 (145TC)	\$10.14
HdR-PSS017035071	OIL SEAL / INPUT HdRS133 (56C)	\$9.18
HdR-PSS020035081	OIL SEAL / INPUT HdRS175-HdRS206 (56C)	\$8.17
HdR-PSS025035061	OIL SEAL / INPUT HdRS237-HdRS262 (56C)	\$9.18
HdR-PSS030040071	OIL SEAL / INPUT HdRS325-(56C)	\$10.14
Oil Seals / Output		
HdR-PSS020032061	OIL SEAL / OUTPUT HdRF133 / HdRS133	\$9.05
HdR-PSS025045081	OIL SEAL / OUTPUT HdRF175 / HdRS175	\$13.81
HdR-PSS030047061	OIL SEAL / OUTPUT HdRF206 / HdRS206	\$15.71
HdR-PSS035050081	OIL SEAL / OUTPUT HdRF237 / HdRS237	\$12.85
HdR-PSS035050081	OIL SEAL / OUTPUT HdRF262 / HdRS262	\$14.76
HdR-PSS040055081	OIL SEAL / OUTPUT HdRF325 / HdRS325	\$12.85
HdR-PSS040062121	OIL SEAL / OUTPUT HdRF175 HOLLOW BORE	\$23.81
HdR-PSS045068121	OIL SEAL / OUTPUT HdRF206 HOLLOW BORE	\$27.61
HdR-PSS050072121	OIL SEAL / OUTPUT HdRF237 HOLLOW BORE	\$23.85
HdR-PSS060082121	OIL SEAL / OUTPUT HdRF262 HOLLOW BORE	\$30.00
HdR-PSS070095131	OIL SEAL / OUTPUT HdRF325 HOLLOW BORE	\$38.08
Set Screws		
HdR-H-PTCB10006F	SET SCREW HdRF133-HdRF175 / HdRS133-HdRS175	\$1.38
HdR-H-PTCB02009F	SET SCREW HdRF206-HdRF237 / HdRS206-HdRS237	\$1.38
HdR-H-PTCB02011F	SET SCREW HdRF262 / HdRS262	\$1.38
HdR-H-PTCBH2009F	SET SCREW HdRF325 / HdRS325	\$1.38

Aluminum Worm Gear Reducers: Product Overview

Product Specifications

- » 7.5:1 - 100:1 ratios
- » Box sizes (Center distances 30 mm - 90 mm)
- » Aluminum alloy housing for light weight design
- » Hardened worm shaft for increased durability
- » Two bearings on input and output shafts
- » NEMA motor input flanges
- » All units filled with synthetic oil (Mobil SHC634) for an "M1" position mounting
- » Adjust oil level for alternative mounting positions
- » Double lip oil seals prevent leakage
- » Multiple mounting holes for all angle mounts
- » Powder coat paint plan on external housing to resist corrosion
- » Hollow output bores with plug-in output shafts
- » 1 year warranty



2

ALUMINUM WORM
GEAR REDUCERS

Ratio	Output RPM @ 1750 RPM Input	WCD Center (mm)	HP	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
7.5:1	233	30	0.70	56C	3	CALM30-7.5/1-56C	\$168.14
		40	1.50	56C	5	CALM40-7.5/1-56C	\$206.62
		50	2.72	56C	8	CALM50-7.5/1-56C	\$285.19
		63	4.46	56C	13	CALM63-7.5/1-56C	\$369.26
		63	4.46	145TC	13	CALM63-7.5/1-145TC	\$369.26
		75	6.44	56C	19	CALM75-7.5/1-56C	\$534.26
		75	6.44	145TC	19	CALM75-7.5/1-145TC	\$534.26
		75	6.44	182/4TC	19	CALM75-7.5/1-182/4TC	\$534.26
		90	10.98	56C	28	CALM90-7.5/1-56C	\$611.24
		90	10.98	145TC	28	CALM90-7.5/1-145TC	\$611.24
		90	10.98	182/4TC	28	CALM90-7.5/1-182/4TC	\$611.24
10:1	175	30	0.54	56C	3	CALM30-10/1-56C	\$168.14
		40	1.21	56C	5	CALM40-10/1-56C	\$206.62
		50	2.12	56C	8	CALM50-10/1-56C	\$285.19
		63	3.52	56C	13	CALM63-10/1-56C	\$369.26
		63	3.52	145TC	13	CALM63-10/1-145TC	\$369.26
		75	5.20	56C	19	CALM75-10/1-56C	\$534.26
		75	5.20	145TC	19	CALM75-10/1-145TC	\$534.26
		75	5.20	182/4TC	19	CALM75-10/1-182/4TC	\$534.26
		90	8.92	56C	28	CALM90-10/1-56C	\$611.24
		90	8.92	145TC	28	CALM90-10/1-145TC	\$611.24
		90	8.92	182/4TC	28	CALM90-10/1-182/4TC	\$611.24
15:1	117	30	0.38	56C	3	CALM30-15/1-56C	\$168.14
		40	0.83	56C	5	CALM40-15/1-56C	\$206.62
		50	1.52	56C	8	CALM50-15/1-56C	\$285.19
		63	2.70	56C	13	CALM63-15/1-56C	\$369.26
		63	2.70	145TC	13	CALM63-15/1-145TC	\$369.26
		75	4.07	56C	19	CALM75-15/1-56C	\$534.26
		75	4.07	145TC	19	CALM75-15/1-145TC	\$534.26
		75	4.07	182/4TC	19	CALM75-15/1-182/4TC	\$534.26
		90	7.05	56C	28	CALM90-15/1-56C	\$611.24
		90	7.05	145TC	28	CALM90-15/1-145TC	\$611.24
		90	7.05	182/4TC	28	CALM90-15/1-182/4TC	\$611.24
20:1	88	30	0.28	56C	3	CALM30-20/1-56C	\$168.14
		40	0.63	56C	5	CALM40-20/1-56C	\$206.62
		50	1.14	56C	8	CALM50-20/1-56C	\$285.19
		63	2.06	56C	13	CALM63-20/1-56C	\$369.26
		63	2.06	145TC	13	CALM63-20/1-145TC	\$369.26

Continued On Next Page

Aluminum Worm Gear Reducers: Product Overview

2

ALUMINUM WORM
GEAR REDUCERS

Ratio	Output RPM @ 1800 RPM Input	WCD Center (mm)	HP	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
20:1	88	75	3.24	56C	19	CALM75-20/1-56C	\$534.26
		75	3.24	145TC	19	CALM75-20/1-145TC	\$534.26
		90	5.33	56C	28	CALM90-20/1-56C	\$611.24
		90	5.33	145TC	28	CALM90-20/1-145TC	\$611.24
		90	5.33	182/4TC	28	CALM90-20/1-182/4TC	\$611.24
25:1	70	30	0.30	56C	3	CALM30-25/1-56C	\$168.14
		40	0.48	56C	5	CALM40-25/1-56C	\$206.62
		50	0.86	56C	8	CALM50-25/1-56C	\$285.19
		63	1.56	56C	13	CALM63-25/1-56C	\$369.26
		75	2.43	56C	19	CALM75-25/1-56C	\$534.26
		75	2.43	145TC	19	CALM75-25/1-145TC	\$534.26
		90	4.18	56C	28	CALM90-25/1-56C	\$611.24
		90	4.18	145TC	28	CALM90-25/1-145TC	\$611.24
30:1	58	30	0.25	56C	3	CALM30-30/1-56C	\$168.14
		40	0.53	56C	5	CALM40-30/1-56C	\$206.62
		50	0.94	56C	8	CALM50-30/1-56C	\$285.19
		63	1.64	56C	13	CALM63-30/1-56C	\$369.26
		75	2.41	56C	19	CALM75-30/1-56C	\$534.26
		75	2.41	145TC	19	CALM75-30/1-145TC	\$534.26
		90	4.21	56C	28	CALM90-30/1-56C	\$611.24
		90	4.21	145TC	28	CALM90-30/1-145TC	\$611.24
40:1	44	30	0.19	56C	3	CALM30-40/1-56C	\$168.14
		40	0.40	56C	5	CALM40-40/1-56C	\$206.62
		50	0.70	56C	8	CALM50-40/1-56C	\$285.19
		63	1.21	56C	13	CALM63-40/1-56C	\$369.26
		75	1.90	56C	19	CALM75-40/1-56C	\$534.26
		90	3.01	56C	28	CALM90-40/1-56C	\$611.24
		90	3.01	145TC	28	CALM90-40/1-145TC	\$611.24
50:1	35	30	0.15	56C	3	CALM30-50/1-56C	\$168.14
		40	0.31	56C	5	CALM40-50/1-56C	\$206.62
		50	0.56	56C	8	CALM50-50/1-56C	\$285.19
		63	0.99	56C	13	CALM63-50/1-56C	\$369.26
		75	1.47	56C	19	CALM75-50/1-56C	\$534.26
		90	2.36	56C	28	CALM90-50/1-56C	\$611.24
		90	2.36	145TC	28	CALM90-50/1-145TC	\$611.24
60:1	29	30	0.12	56C	3	CALM30-60/1-56C	\$168.14
		40	0.25	56C	5	CALM40-60/1-56C	\$206.62
		50	0.47	56C	8	CALM50-60/1-56C	\$285.19
		63	0.82	56C	13	CALM63-60/1-56C	\$369.26
		75	1.22	56C	19	CALM75-60/1-56C	\$534.26
		90	1.93	56C	28	CALM90-60/1-56C	\$611.24
80:1	22	40	0.18	56C	5	CALM40-80/1-56C	\$206.62
		50	0.35	56C	8	CALM50-80/1-56C	\$285.19
		63	0.60	56C	13	CALM63-80/1-56C	\$369.26
		75	0.91	56C	19	CALM75-80/1-56C	\$534.26
		90	1.27	56C	28	CALM90-80/1-56C	\$611.24
100:1	17.5	40	0.14	56C	5	CALM40-100/1-56C	\$206.62
		50	0.26	56C	8	CALM50-100/1-56C	\$285.19
		63	0.51	56C	13	CALM63-100/1-56C	\$369.26
		75	0.74	56C	19	CALM75-100/1-56C	\$534.26
		90	1.03	56C	28	CALM90-100/1-56C	\$611.24

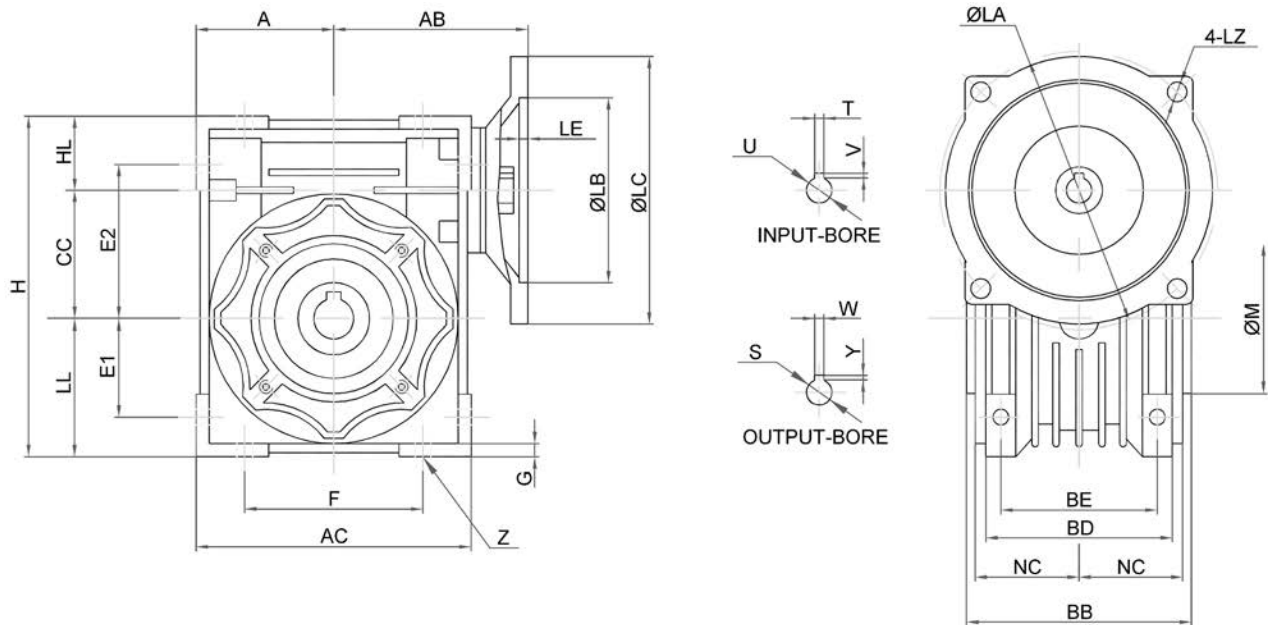
Aluminum Worm Gear Reducers: Mechanical Ratings

Input Speed		1750 RPM					Output Shaft Thrust Load (lbs.)	Backlash (Angular Minutes) (')	
Box Size	Ratio	Mechanical (1.0 SF)			Efficiency (%)	O.H.L. (lbs.)		Min	Max
		Input HP	Output Torque (lbs. in.)	Output Speed					
30	7.5:1	0.70	160	233	85	143	29	13.8	28.8
	10:1	0.54	160	175	83	157	31	13.8	28.8
	15:1	0.38	160	117	78	180	36	13.8	28.8
	20:1	0.28	151	88	74	198	40	13.2	28.2
	25:1	0.30	185	70	69	213	43	13.2	27.0
	30:1	0.25	177	58	66	226	45	13.8	28.8
	40:1	0.19	160	44	60	249	50	13.2	28.2
	50:1	0.15	151	35	56	268	54	13.2	27.0
	60:1	0.12	134	29	52	285	57	12.6	25.8
40	7.5:1	1.50	353	233	87	274	55	11.4	24.0
	10:1	1.21	370	175	85	302	60	11.4	24.0
	15:1	0.83	370	117	83	346	69	11.4	24.0
	20:1	0.63	361	88	79	381	76	11.4	24.0
	25:1	0.48	328	70	76	410	82	10.8	21.0
	30:1	0.53	403	58	71	436	87	11.4	24.0
	40:1	0.40	378	44	66	479	96	11.4	24.0
	50:1	0.31	353	35	63	517	103	10.8	21.0
	60:1	0.25	319	29	59	549	110	11.4	21.6
	80:1	0.18	277	22	53	604	121	11.4	21.6
100:1	0.14	244	18	48	651	130	11.4	21.6	
50	7.5:1	2.72	647	233	88	377	75	8.4	19.2
	10:1	2.12	664	175	87	415	83	8.4	19.2
	15:1	1.52	681	117	83	475	95	8.4	19.2
	20:1	1.14	656	88	80	522	104	6.6	17.4
	25:1	0.86	597	70	77	563	113	7.2	17.4
	30:1	0.94	740	58	73	598	120	8.4	19.2
	40:1	0.70	689	44	68	658	132	6.6	17.4
	50:1	0.56	647	35	64	709	142	7.2	17.4
	60:1	0.47	605	29	60	753	151	6.6	16.2
	80:1	0.35	546	22	54	829	166	6.6	16.2
	100:1	0.26	462	18	50	893	179	6.6	16.2
63	7.5:1	4.46	1076	233	89	492	98	7.8	17.4
	10:1	3.52	1108	175	87	542	108	7.8	17.4
	15:1	2.70	1236	117	85	620	124	7.8	17.4
	20:1	2.06	1225	88	83	683	137	6.6	16.2
	25:1	1.56	1124	70	80	736	147	6.6	13.8
	30:1	1.64	1345	58	76	782	156	7.8	17.4
	40:1	1.21	1261	44	72	860	172	6.6	16.2
	50:1	0.99	1208	35	68	927	185	6.6	13.8
	60:1	0.82	1135	29	64	985	197	6.0	13.8
	80:1	0.60	1027	22	59	1084	217	6.0	13.8
	100:1	0.51	992	18	54	1168	234	6.0	13.8
75	7.5:1	6.44	1555	233	89	581	116	7.8	16.2
	10:1	5.20	1656	175	88	640	128	7.8	16.2
	15:1	4.07	1900	117	86	732	146	7.8	16.2
	20:1	3.24	1953	88	84	806	161	6.6	14.4
	25:1	2.43	1784	70	82	868	174	6.6	13.2
	30:1	2.41	2028	58	78	923	185	7.8	16.2
	40:1	1.90	2029	44	74	1015	203	6.6	14.4
	50:1	1.47	1881	35	71	1094	219	6.6	13.2
	60:1	1.22	1778	29	67	1162	232	6.0	12.6
	80:1	0.91	1632	22	62	1279	256	6.0	12.6
100:1	0.74	1517	18	57	1378	276	6.0	12.6	
90	7.5:1	10.98	2682	233	90	643	129	7.2	14.4
	10:1	8.92	2867	175	89	708	142	7.2	14.4
	15:1	7.05	3330	117	87	810	162	7.2	14.4
	20:1	5.33	3288	88	86	892	178	6.6	12.0
	25:1	4.18	3145	70	84	961	192	6.0	11.4
	30:1	4.21	3632	58	80	1021	204	7.2	14.4
	40:1	3.01	3330	44	77	1123	225	6.6	12.0
	50:1	2.36	3145	35	74	1210	242	6.0	11.4
	60:1	1.93	2960	29	71	1286	257	5.4	10.8
	80:1	1.27	2397	22	65	1416	283	5.4	10.8
100:1	1.03	2271	18	61	1525	305	5.4	10.8	

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ALUMINUM WORM
GEAR REDUCERS

Aluminum Worm Gear Reducers: Dimensions



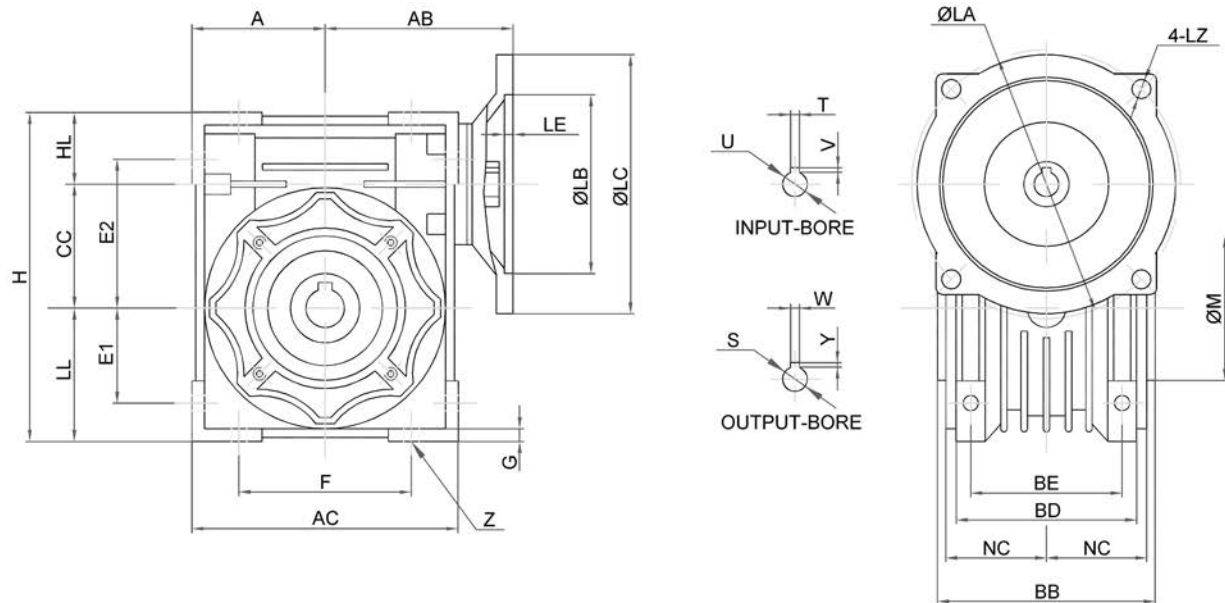
All listed dimensions in millimeters

Box Size	NEMA Frame	A	AB	AC	BB	BD	BE	CC	E1	E2	F	G	H	HL	LL	M
30	56C	40	70	80	63	56	44	30	27	44	54	5.5	97	27	40	55
40	56C	50	86	101	78	71	60	40	35	55	70	6.6	121	31.5	50	60
50	56C	60	94	121	92	85	70	50	40	64	80	7	144	34	60	70
63	56C	72	105	146	112	103	85	63	50	80	100	8	174	39	72	80
	145TC	72	105	146	112	103	85	63	50	80	100	8	174	39	72	80
75	56C	86	126	174	120	112	90	75	60	93	120	10	205	45	86	95
	145TC	86	126	174	120	112	90	75	60	93	120	10	205	45	86	95
	182/4TC	86	126	174	120	112	90	75	60	93	120	10	205	45	86	95
90	56C	103	143	208	140	130	100	90	70	102	140	11	238	45	103	110
	145TC	103	143	208	140	130	100	90	70	102	140	11	238	45	103	110
	182/4TC	103	143	208	140	130	100	90	70	102	140	11	238	45	103	110

Box Size	NEMA Frame	NC	Z	INPUT BORE (inches)		OUTPUT BORE (inches)		FLANGE (inches)				
				U	T x V	S	W x Y	LA	LB	LC	LE	LZ
30	56C	29	6.5	0.625	3/16 x 3/32	0.625	3/16 x 3/32	5.875	4.5	5.787	0.177	0.413
40	56C	36.5	6.5	0.625	3/16 x 3/32	0.75	3/16 x 3/32	5.875	4.5	5.787	0.157	0.413
50	56C	43.5	8.4	0.625	3/16 x 3/32	1	1/4 x 7/64	5.875	4.5	5.787	0.157	0.413
63	56C	53	8.5	0.625	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	5.787	0.177	0.413
	145TC	53	8.5	0.875	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	5.787	0.177	0.413
75	56C	57	11	0.625	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	5.787	0.157	0.413
	145TC	57	11	0.875	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	5.787	0.157	0.413
	182/4TC	57	11	1.125	1/4 x 1/8	1.25	1/4 x 1/8	7.25	8.5	9	0.217	0.413
90	56C	67	13	0.625	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	5.787	0.157	0.413
	145TC	67	13	0.875	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	5.787	0.157	0.413
	182/4TC	67	13	1.125	1/4 x 1/8	1.375	5/16 x 9/64	7.25	8.5	9	0.217	0.413

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Aluminum Worm Gear Reducers: Competitor Dimensional Comparison - Motovario



2

ALUMINUM WORM
GEAR REDUCERS

All listed dimensions in millimeters																
Box Size	NEMA Frame	A	AB	AC	BB	BD	BE	CC	E1	E2	F	G	H	HL	LL	M
30	56C	40	67	80	63	56	44	30	27	44	54	5.5	97	27	40	55
40	56C	50	80	100	78	71	60	40	35	55	70	6.5	121.5	31.5	50	60
50	56C	60	90	120	92	85	70	50	40	64	80	7	144	34	60	70
63	56C	72	122	144	112	103	85	63	50	80	100	8	179	44	72	80
	145TC	72	122	144	112	103	85	63	50	80	100	8	179	44	72	80
75	56C	89	140	178	120	112	90	75	60	93	120	10	209	48	86	95
	145TC	89	140	178	120	112	90	75	60	93	120	10	209	48	86	95
	182/4TC	89	150	178	120	112	90	75	60	93	120	10	209	48	86	95
90	56C	103	158	206	140	130	100	90	70	102	140	11	247	54	103	110
	145TC	103	158	206	140	130	100	90	70	102	140	11	247	54	103	110
	182/4TC	103	168	206	140	130	100	90	70	102	140	11	247	54	103	110

Box Size	NEMA Frame	NC	Z	INPUT BORE (inches)		OUTPUT BORE (inches)		FLANGE (inches)				
				U	T x V	S	W x Y	LA	LB	LC	LE	LZ
30	56C	29	6.5	0.625	3/16 x 3/32	0.625	3/16 x 3/32	5.875	3	5.625	NL	0.413
40	56C	36.5	6.5	0.625	3/16 x 3/32	0.75	3/16 x 3/32	5.875	4.5	6.5	NL	0.413
50	56C	43.5	8.4	0.625	3/16 x 3/32	1	1/4 x 7/64	5.875	4.5	6.5	NL	0.413
63	56C	53	8.5	0.625	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
	145TC	53	8.5	0.875	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
75	56C	57	11	0.625	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
	145TC	57	11	0.875	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
	182/4TC	57	11	1.125	1/4 x 1/8	1.25	1/4 x 1/8	7.25	8.5	9	NL	0.413
90	56C	67	13	0.625	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	6.5	NL	0.413
	145TC	67	13	0.875	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	6.5	NL	0.413
	182/4TC	67	13	1.125	1/4 x 1/8	1.375	5/16 x 9/64	7.25	8.5	9	NL	0.413

Motovario® dimensional data was derived from their Catalog_VSF_Nema_WEB_3012012111322.
Dark gray shaded cells indicate a dimensional difference. NL denotes ratings not listed.
All dimensions are in millimeters unless denoted in inches.

Aluminum Worm Gear Reducers: Accessories and Parts

2

Output Flanges



Box Size	Model Number	List Price
30	CALM30-OPF	\$21.49
40	CALM40-OPF	\$30.09
50	CALM50-OPF	\$35.38
63	CALM63-OPF	\$41.39
75	CALM75-OPF	\$54.04
90	CALM90-OPF	\$67.65

Output Flanges are FA style.
FB and FC style output flanges are available for order as non-stock items.

Output Covers



Box Size	Model Number	List Price
30	CALM30-OPC	\$8.30
40	CALM40-OPC	\$8.30
50	CALM50-OPC	\$13.83
63	CALM63-OPC	\$13.83
75	CALM75-OPC	\$13.83
90	CALM90-OPC	\$13.83

Drain Plugs



Box Size	Model Number	List Price
30	PJK10W	\$4.15
40	PJK10W	\$4.15
50	PJK10W	\$4.15
63	PJK16W	\$4.15
75	PJK16W	\$4.15
90	PJK16W	\$4.15

Torque Arms



Box Size	Model Number	List Price
30	CALM30-TA	\$29.73
40	CALM40-TA	\$31.68
50	CALM50-TA	\$40.29
63	CALM63-TA	\$49.49
75	CALM75-TA	\$60.88
90	CALM90-TA	\$76.05

Single Output Shafts



Box Size	Model Number	List Price
30	CALM30-S	\$18.66
40	CALM40-S	\$21.60
50	CALM50-S	\$30.14
63	CALM63-S	\$34.37
75	CALM75-S	\$44.19
90	CALM90-S	\$57.04

Double Output Shafts



Box Size	Model Number	List Price
30	CALM30-DS	\$24.55
40	CALM40-DS	\$29.46
50	CALM50-DS	\$42.28
63	CALM63-DS	\$49.46
75	CALM75-DS	\$62.40
90	CALM90-DS	\$79.03

Stainless Steel Worm Gear Reducers: Product Overview

Product Specifications

- » 5:1 - 60:1 ratios
- » Box sizes (Center distances 1.75" - 3.25")
- » 304 Stainless Steel housing, covers and flange
- » Double-lipped VITON oil seals (at output)
- » Smooth, polished surfaces and etched nameplate
- » Internal bladder functions as a breather and effectively dispels heat
- » 15CrMo4 NEMA quill input with carburizing heat treatment
- » CuSn12Ni2 bronze alloy worm wheel with high efficiency gear tooth configuration
- » RoHS plastic covers supplied to fill unused mounting slots
- » O-ring provided on input flange to prevent moisture intrusion
- » Performance equivalent to other major brands
- » Units filled with Mobil CIBUS 460 H1 food grade lubricant
- » 1 year warranty



2

Ratio	Output RPM @ 1750 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
5:1	350	1.75	56C	16	SSHdR175-5/1-H-56C-1.0	\$1,464.60
		2.06	56C	22	SSHdR206-5/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-5/1-H-56C-1.716	\$1,944.69
		2.62	145TC	39	SSHdR262-5/1-H-145TC-1.1516	\$2,528.76
		3.25	56C	66	SSHdR325-5/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-5/1-H-145TC-2.316	\$3,282.08
10:1	175	1.75	56C	16	SSHdR175-10/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-10/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-10/1-H-56C-1.716	\$1,817.48
		2.62	145TC	39	SSHdR262-10/1-H-145TC-1.1516	\$2,372.79
		3.25	56C	66	SSHdR325-10/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-10/1-H-145TC-2.316	\$3,282.08
15:1	120	1.75	56C	16	SSHdR175-15/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-15/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-15/1-H-56C-1.716	\$1,817.48
		2.62	145TC	39	SSHdR262-15/1-H-145TC-1.1516	\$2,372.79
		3.25	56C	66	SSHdR325-15/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-15/1-H-145TC-2.316	\$3,282.08
20:1	88	1.75	56C	16	SSHdR175-20/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-20/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-20/1-H-56C-1.716	\$1,817.48
		2.62	56C	39	SSHdR262-20/1-H-56C-1.1516	\$2,372.79
		2.62	145TC	39	SSHdR262-20/1-H-145TC-1.1516	\$2,372.79
		3.25	56C	66	SSHdR325-20/1-H-56C-2.316	\$3,282.08
30:1	58	3.25	145TC	66	SSHdR325-20/1-H-145TC-2.316	\$3,282.08
		1.75	56C	16	SSHdR175-30/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-30/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-30/1-H-56C-1.716	\$1,817.48
		2.62	56C	39	SSHdR262-30/1-H-56C-1.1516	\$2,372.79
		2.62	145TC	39	SSHdR262-30/1-H-145TC-1.1516	\$2,372.79
40:1	44	3.25	56C	66	SSHdR325-30/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-30/1-H-145TC-2.316	\$3,282.08
		1.75	56C	16	SSHdR175-40/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-40/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-40/1-H-56C-1.716	\$1,817.48
		2.62	56C	39	SSHdR262-40/1-H-56C-1.1516	\$2,372.79
50:1	35	3.25	56C	66	SSHdR325-40/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-40/1-H-145TC-2.316	\$3,282.08
		1.75	56C	16	SSHdR175-50/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-50/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-50/1-H-56C-1.716	\$1,817.48
		2.62	56C	39	SSHdR262-50/1-H-56C-1.1516	\$2,372.79
60:1	29	3.25	56C	66	SSHdR325-50/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-50/1-H-145TC-2.316	\$3,282.08
		1.75	56C	16	SSHdR175-60/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-60/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-60/1-H-56C-1.716	\$1,817.48
		2.62	56C	39	SSHdR262-60/1-H-56C-1.1516	\$2,372.79
60:1	29	3.25	56C	66	SSHdR325-60/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-60/1-H-145TC-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-60/1-H-145TC-2.316	\$3,282.08

STAINLESS STEEL
REDUCERS

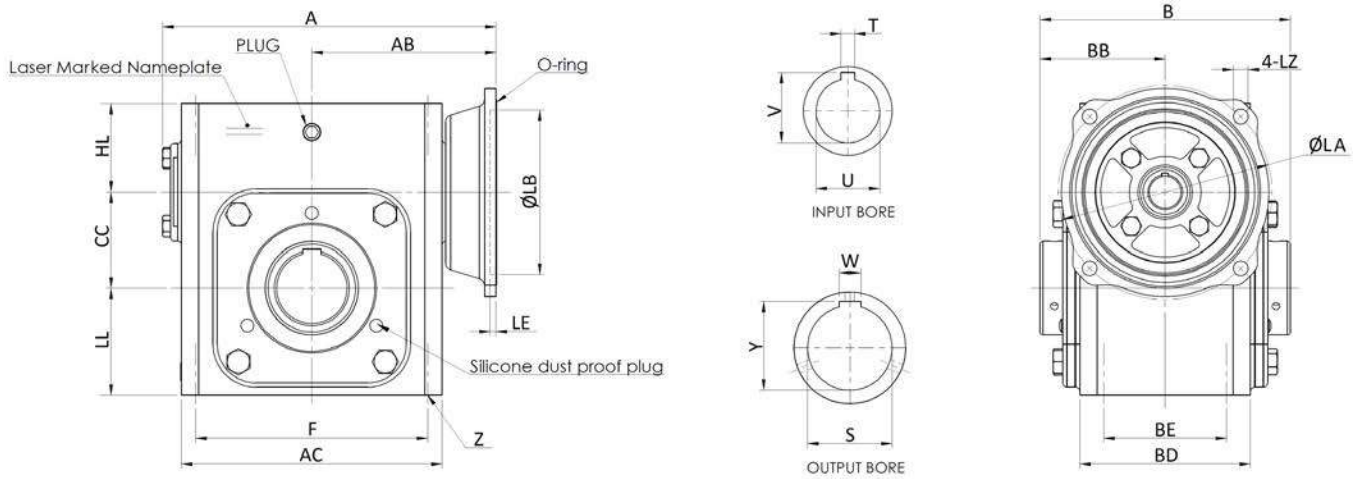
Stainless Steel Worm Gear Reducers: Mechanical Ratings

2

STAINLESS STEEL
REDUCERS

Input Speed: 1750 RPM											
Series Size		Mechanical			Thermal			Efficiency (%)	O.H.L. (lbs.)	Output Shaft Thrust Load (lbs.)	Backlash (Angular Min.) (')
Box Size	Ratio	Input HP	Output Torque (lbs. in.)	Output HP	Input HP	Output Torque (lbs. in.)	Output HP				
175	5:1	2.36	413	2.20	2.13	374	1.99	93	650	550	20
	10:1	1.52	492	1.38	1.52	492	1.38	91			
	15:1	1.09	503	0.94	1.02	472	0.88	86			
	20:1	0.85	524	0.71	0.85	524	0.71	84			
	30:1	0.65	529	0.49	0.60	483	0.45	76			
	40:1	0.57	595	0.42	0.53	558	0.39	73			
	50:1	0.44	564	0.32	0.44	564	0.32	72			
	60:1	0.31	455	0.21	0.31	455	0.21	68			
206	5:1	3.62	609	3.40	2.94	500	2.76	94	700	750	17
	10:1	2.47	831	2.25	1.96	667	1.78	91			
	15:1	1.80	860	1.60	1.60	775	1.43	89			
	20:1	1.48	898	1.29	1.36	833	1.18	87			
	30:1	0.95	816	0.76	0.88	766	0.71	80			
	40:1	0.76	838	0.59	0.76	838	0.59	77			
	50:1	0.60	773	0.43	0.60	773	0.43	72			
	60:1	0.52	770	0.36	0.52	770	0.36	69			
237	5:1	4.32	751	4.06	3.48	612	3.27	94	900	900	17
	10:1	3.23	1099	2.97	2.61	898	2.40	92			
	15:1	2.36	1152	2.08	1.74	859	1.53	88			
	20:1	2.01	1220	1.75	1.61	987	1.40	87			
	30:1	1.33	1156	1.08	1.10	967	0.89	81			
	40:1	1.07	1179	0.82	0.91	1012	0.70	77			
	50:1	0.87	1136	0.64	0.77	1022	0.56	73			
	60:1	0.71	1098	0.51	0.71	1098	0.51	72			
262	5:1	5.24	911	4.93	4.51	794	4.24	94	1000	1000	17
	10:1	3.96	1347	3.64	3.39	1166	3.11	92			
	15:1	2.96	1414	2.63	2.46	1191	2.19	89			
	20:1	2.36	1449	2.08	2.26	1403	1.99	88			
	30:1	1.68	1461	1.36	1.43	1255	1.15	81			
	40:1	1.33	1504	1.05	1.29	1477	1.02	79			
	50:1	1.08	1449	0.81	1.08	1449	0.81	75			
	60:1	0.89	1395	0.65	0.89	1395	0.65	73			
325	5:1	9.72	1707	9.23	8.03	1428	7.63	95	1200	1100	15
	10:1	6.60	2245	6.07	5.02	1729	4.62	92			
	15:1	4.94	2466	4.45	4.02	2030	3.61	90			
	20:1	3.93	2441	3.50	3.65	2296	3.25	89			
	30:1	2.84	2530	2.36	2.36	2131	1.96	83			
	40:1	2.22	2542	1.78	2.01	2328	1.61	80			
	50:1	1.80	2415	1.35	1.61	2183	1.20	75			
	60:1	1.49	2303	1.07	1.43	2245	1.03	72			

Stainless Steel Worm Gear Reducers: Dimensions



All listed dimensions in inches

Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	HL	LL
175	56C	7.05	4.04	5.06	5.7	2.85	3.57	2.75	1.75	4.19	1.94	2.06
206	56C	7.72	4.37	5.75	6.44	3.22	3.82	2.88	2.06	5	2.03	2.28
237	56C	8.41	4.69	6.38	6.44	3.22	4.06	2.88	2.38	5	2.06	2.5
	145TC	8.41	4.69	6.38	6.44	3.22	4.06	2.88	2.38	5	2.06	2.5
262	56C	9.16	5.06	7.17	6.88	3.44	4.69	3.37	2.62	6.37	2.44	2.94
	145TC	9.16	5.06	7.17	6.88	3.44	4.69	3.37	2.62	6.37	2.44	2.94
325	56C	11.17	6.06	9.02	8.62	4.31	5.75	4	3.25	7.5	2.63	3.5
	145TC	11.17	6.06	9.02	8.62	4.31	5.75	4	3.25	7.5	2.63	3.5

Box Size	NEMA Frame	Z	INPUT BORE (inches)			OUTPUT BORE (inches)			FLANGE (inches)			
			U	T	V	S	W	Y	LA	LB	LE	LZ
175	56C	2x4-5/16-18UNCx0.5"	0.625	0.19	0.71	1	0.25	1.11	5.875	4.5	0.16	0.41
206	56C	2x4-3/8-16UNCx0.55"	0.625	0.19	0.71	1.438	0.38	1.54	5.875	4.5	0.16	0.41
237	56C	2x4-3/8-16UNCx0.59"	0.625	0.19	0.71	1.438	0.38	1.54	5.875	4.5	0.16	0.41
	145TC	2x4-3/8-16UNCx0.59"	0.875	0.19	0.96	1.438	0.38	1.54	5.875	4.5	0.16	0.41
262	56C	2x4-3/8-16UNCx1"	0.625	0.19	0.71	1.938	0.5	2.03	5.875	4.5	0.16	0.41
	145TC	2x4-3/8-16UNCx1"	0.875	0.19	0.96	1.938	0.5	2.03	5.875	4.5	0.16	0.41
325	56C	2x4-7/16-14UNCx0.86"	0.625	0.19	0.71	2.188	0.5	2.29	5.875	4.5	0.16	0.41
	145TC	2x4-7/16-14UNCx0.86"	0.875	0.19	0.96	2.188	0.5	2.29	5.875	4.5	0.16	0.41

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Stainless Steel Worm Gear Reducers: Accessories and Parts

Stainless Steel Bushing Kits

- » Stainless Steel Bushing Kits include sizing inserts, keys and set screws.
- » Sizes available for 1.75" through 3.25" center distances.



Output Covers

- » Stainless Steel output covers.
- » Sizes available for 1.75" through 3.25" center distances.



Reducer Size CD (in.)	Output Bore Size	Model Number	Outer Diameter O.D. (in.)	Inner Diameter I.D. (in.)	List Price
1.75	1"	SSB1.58	1"	5/8"	\$103.98
	1"	SSB1.1116	1"	11/16"	\$103.98
	1"	SSB1.34	1"	3/4"	\$103.98
	1"	SSB1.78	1"	7/8"	\$103.98
	1"	NOT REQUIRED	1"	1"	---
2.06	1-7/16"	SSB1716.1	1-7/16"	1"	\$131.64
	1-7/16"	SSB1716.1.18	1-7/16"	1-1/8"	\$131.64
	1-7/16"	SSB1716.1.316	1-7/16"	1-3/16"	\$131.64
	1-7/16"	SSB1716.1.14	1-7/16"	1-1/4"	\$131.64
	1-7/16"	NOT REQUIRED	1-7/16"	1-7/16"	---
2.37	1-7/16"	SSB1716.1	1-7/16"	1"	\$131.64
	1-7/16"	SSB1716.1.18	1-7/16"	1-1/8"	\$131.64
	1-7/16"	SSB1716.1.316	1-7/16"	1-3/16"	\$131.64
	1-7/16"	SSB1716.1.14	1-7/16"	1-1/4"	\$131.64
	1-7/16"	NOT REQUIRED	1-7/16"	1-7/16"	---
2.62	1-15/16"	SSB11516.1	1-15/16"	1"	\$164.82
	1-15/16"	SSB11516.1.18	1-15/16"	1-1/8"	\$164.82
	1-15/16"	SSB11516.1.316	1-15/16"	1-3/16"	\$164.82
	1-15/16"	SSB11516.1.14	1-15/16"	1-1/4"	\$164.82
	1-15/16"	SSB11516.1.716	1-15/16"	1-7/16"	\$164.82
	1-15/16"	SSB11516.1.12	1-15/16"	1-1/2"	\$164.82
3.25	1-15/16"	NOT REQUIRED	1-15/16"	1-15/16"	---
	2-3/16"	SSB2316.1.14	2-3/16"	1-1/4"	\$188.05
	2-3/16"	SSB2316.1.716	2-3/16"	1-7/16"	\$188.05
	2-3/16"	SSB2316.1.12	2-3/16"	1-1/2"	\$188.05
	2-3/16"	SSB2316.1.58	2-3/16"	1-5/8"	\$188.05
	2-3/16"	SSB2316.1.1116	2-3/16"	1-11/16"	\$188.05
	2-3/16"	SSB2316.1.34	2-3/16"	1-3/4"	\$188.05
	2-3/16"	SSB2316.1.1516	2-3/16"	1-15/16"	\$188.05
	2-3/16"	SSB2316.2	2-3/16"	2"	\$188.05
	2-3/16"	NOT REQUIRED	2-3/16"	2-3/16"	---

Reducer Size CD (in.)	Model Number	Engineering Make-up	List Price
1.75	SSHdR175-H-OPC	Non Toxic -PP	\$8.30
2.06	SSHdR206-H-OPC	Non Toxic -PP	\$8.30
2.37	SSHdR237-H-OPC	Non Toxic -PP	\$8.30
2.62	SSHdR262-H-OPC	Non Toxic -PP	\$8.30
3.25	SSHdR325-H-OPC	Non Toxic -PP	\$8.30

Single Output Shafts

- » Kit includes single output shaft, keys, endplate and bolt.



Box Size	Shaft Diameter (in.)	Shaft Length (in.)	Model Number	List Price
175	0.875	7.6	SSHdR175-OPS-S	\$105.09
206	1	8.645	SSHdR206-OPS-S	\$111.73
237	1.125	8.925	SSHdR237-OPS-S	\$142.70
262	1.125	9.626	SSHdR262-OPS-S-1.125	\$159.29
262	1.25	9.626	SSHdR262-OPS-S	\$159.29
325	1.375	11.986	SSHdR325-OPS-S-1.375	\$226.77
325	1.5	11.986	SSHdR325-OPS-S	\$226.77

Double Output Shafts

- » Kit includes double output shaft, keys, retaining rings and C-clips.

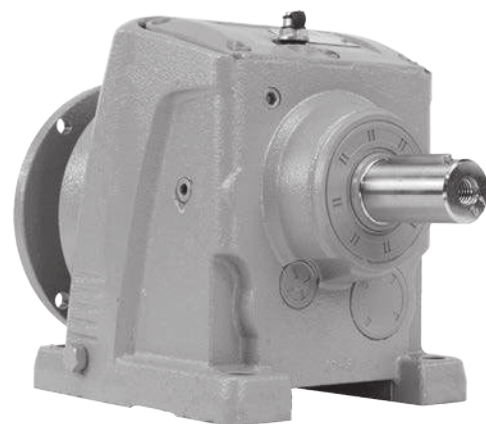


Box Size	Shaft Diameter (in.)	Shaft Length (in.)	Model Number	List Price
175	0.875	9.657	SSHdR175-OPS-DS	\$147.12
206	1	11.169	SSHdR206-OPS-DS	\$158.19
237	1.125	11.728	SSHdR237-OPS-DS	\$198.01
262	1.125	12.764	SSHdR262-OPS-DS-1.125	\$217.92
262	1.25	12.764	SSHdR262-OPS-DS	\$217.92
325	1.375	15.827	SSHdR325-OPS-DS-1.375	\$310.84
325	1.5	15.827	SSHdR325-OPS-DS	\$310.84

WINL Series - Helical Inline Reducers: Product Overview

Product Specifications

- » 2:1 - 120:1 ratios (other ratios available as custom orders)
- » Box sizes 37 - 147
- » Horsepower range from 1/4 HP to 100 HP
- » Built for high efficiency, high strength and low noise
- » All cast iron housings for increased strength and reliability
- » Gears are precision machined for better rotation and quieter operation
- » Gearbox flanges are designed to accept NEMA C-face electric motors
- » No coupling necessary
- » Drop-in for most major European-produced inline reducer brands
- » Units filled with HD320 mineral oil for an "M1" mounting position
- » Adjust oil level for alternative mounting positions
- » 2 year warranty



3

WINL SERIES - HELICAL
INLINE GEAR REDUCERS

Box Size	Normal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
37	5:1	4.88	359	5.91	970	305	56C	2	31	WINL37-5/1-56C	\$663.72
	5:1	4.88	359	5.91	970	305	145TC	2	31	WINL37-5/1-145TC	\$663.72
	10:1	10.02	175	4.04	1360	388	56C	2	31	WINL37-10/1-56C	\$663.72
	10:1	10.02	175	4.04	1360	388	145TC	2	31	WINL37-10/1-145TC	\$663.72
	15:1	15.75	111	2.99	1580	451	56C	2	31	WINL37-15/1-56C	\$663.72
	15:1	15.75	111	2.99	1580	451	145TC	3	31	WINL37-15/1-145TC-3S	\$663.72
	20:1	19.95	88	2.49	1670	489	56C	2	31	WINL37-20/1-56C	\$663.72
	20:1	19.95	88	2.49	1670	489	145TC	2	31	WINL37-20/1-145TC	\$663.72
	30:1	31.02	56	1.75	1770	565	56C	3	31	WINL37-30/1-56C	\$663.72
	30:1	31.02	56	1.75	1770	565	145TC	3	31	WINL37-30/1-145TC	\$663.72
	40:1	40.08	44	1.35	1770	615	56C	3	31	WINL37-40/1-56C	\$663.72
	50:1	52.24	33	1.04	1770	670	56C	3	31	WINL37-50/1-56C	\$663.72
47	60:1	60.84	29	0.89	1770	705	56C	3	31	WINL37-60/1-56C	\$663.72
	5:1	4.85	361	9.59	1565	440	145TC	2	50	WINL47-5/1-145TC	\$763.27
	5:1	4.85	361	9.59	1565	440	182/4TC	2	50	WINL47-5/1-182/4TC	\$763.27
	10:1	11.27	155	5.95	2255	590	182TC	2	50	WINL47-10/1-182TC	\$763.27
	15:1	15.18	115	4.87	2490	650	182/4TC	2	50	WINL47-15/1-182/4TC	\$763.27
	20:1	18.37	95	4.29	2650	690	145TC	2	50	WINL47-20/1-145TC	\$763.27
	20:1	18.37	95	4.29	2650	690	182/4TC	2	50	WINL47-20/1-182/4TC	\$763.27
	30:1	31.83	55	2.73	2830	835	145TC	3	50	WINL47-30/1-145TC	\$763.27
	30:1	31.83	55	2.73	2830	835	182/4TC	3	50	WINL47-30/1-182/4TC	\$763.27
	40:1	41.51	42	2.09	2830	910	56C	3	50	WINL47-40/1-56C	\$763.27
	50:1	52.84	33	1.64	2830	985	56C	3	50	WINL47-50/1-56C	\$763.27
	60:1	63.37	28	1.37	2830	1050	56C	3	50	WINL47-60/1-56C	\$763.27
RX57	3:1	3.19	549	4.04	447	133	182TC	1	44	WINL57-3/1-182TC	\$663.72
RX67	2:1	1.86	941	9.43	617	43	182/4TC	1	49	WINL67-2/1-182/4TC	\$719.03
	2.5:1	2.35	745	7.56	616	94	182/4TC	1	49	WINL67-2.5/1-182/4TC	\$719.03
	3.5:1	3.52	497	4.11	502	301	182TC	1	49	WINL67-3.5/1-182TC	\$719.03
67	5:1	5.23	335	15.38	2710	710	145TC	2	73	WINL67-5/1-145TC	\$1,084.07
	5:1	5.23	335	15.38	2710	710	182/4TC	2	73	WINL67-5/1-182/4TC	\$1,084.07
	10:1	9.90	177	12.39	4130	880	182/4TC	2	73	WINL67-10/1-182/4TC	\$1,084.07
	15:1	15.41	114	9.23	4785	1020	145TC	2	73	WINL67-15/1-145TC	\$1,084.07
	15:1	15.41	114	9.23	4785	1020	182TC	2	73	WINL67-15/1-182TC	\$1,084.07
	20:1	22.90	76	6.87	4720	1165	182/4TC	3	73	WINL67-20/1-182/4TC	\$1,084.07
	30:1	32.02	55	4.83	5045	1305	145TC	3	73	WINL67-30/1-145TC	\$1,084.07

Continued On Next Page

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Product Overview

Box Size	Normal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
67	40:1	41.22	42	3.75	5045	1420	145TC	3	73	WINL67-40/1-145TC	\$1,084.07
	50:1	52.21	34	2.96	5045	1480	145TC	3	73	WINL67-50/1-145TC	\$1,084.07
	60:1	63.07	28	2.45	5045	1480	56C	3	73	WINL67-60/1-56C	\$1,084.07
	80:1	78.59	22	1.97	5045	1480	56C	3	73	WINL67-80/1-56C	\$1,084.07
	100:1	98.69	18	1.57	5045	1480	56C	3	73	WINL67-100/1-56C	\$1,084.07
	120:1	125.28	14	1.23	5045	1480	56C	3	73	WINL67-120/1-56C	\$1,084.07
RX77	2.5:1	2.38	735	13.43	1108	72	182/4TC	1	71	WINL77-2.5/1-182/4TC	\$940.27
	2.5:1	2.38	735	13.43	1108	72	213TC	1	71	WINL77-2.5/1-213TC	\$940.27
	4:1	4.19	418	6.16	895	474	182TC	1	71	WINL77-4/1-182TC	\$940.27
77	5:1	4.78	366	25.13	4040	785	182/4TC	2	83	WINL77-5/1-182/4TC	\$1,272.12
	5:1	4.78	366	25.13	4040	785	213TC	2	83	WINL77-5/1-213TC	\$1,272.12
	10:1	10.91	160	16.89	6205	1035	182/4TC	2	83	WINL77-10/1-182/4TC	\$1,272.12
	10:1	10.91	160	16.89	6205	1035	213TC	2	83	WINL77-10/1-213TC	\$1,272.12
	15:1	14.83	118	12.35	6165	1145	182/4TC	2	83	WINL77-15/1-182/4TC	\$1,272.12
	20:1	23.31	75	7.84	6150	1330	182TC	2	83	WINL77-20/1-182TC	\$1,272.12
	25:1	25.27	69	8.05	6640	1365	182/4TC	3	83	WINL77-25/1-182/4TC	\$1,272.12
	30:1	31.97	55	6.36	6640	1480	182/4TC	3	83	WINL77-30/1-182/4TC	\$1,272.12
	40:1	39.31	45	5.49	6640	1555	182/4TC	3	83	WINL77-40/1-182/4TC	\$1,272.12
	50:1	53.24	33	3.82	6640	1755	145TC	3	83	WINL77-50/1-145TC	\$1,272.12
	60:1	57.73	30	3.52	6640	1800	145TC	3	83	WINL77-60/1-145TC	\$1,272.12
	80:1	84.62	21	2.40	6640	1935	145TC	3	83	WINL77-80/1-145TC	\$1,272.12
	100:1	89.80	19	2.26	6640	1935	145TC	3	83	WINL77-100/1-145TC	\$1,272.12
	120:1	124.34	14	1.64	6640	1935	56C	3	83	WINL77-120/1-56C	\$1,272.12
RX87	2:1	2.04	858	26.27	1859	123	213/5TC	1	124	WINL87-2/1-213/5TC	\$1,548.67
	2:1	2.04	858	26.27	1859	123	254/6TC	1	159	WINL87-2/1-254/6TC	\$1,548.67
	2.5:1	2.52	694	20.25	1770	254	213/5TC	1	124	WINL87-2.5/1-213/5TC	\$1,548.67
	2.5:1	2.52	694	20.25	1770	254	254/6TC	1	159	WINL87-2.5/1-254/6TC	\$1,548.67
	3:1	3.19	549	14.40	1593	497	213/5TC	1	124	WINL87-3/1-213/5TC	\$1,548.67
	3.5:1	3.54	494	12.83	1575	573	213/5TC	1	124	WINL87-3.5/1-213/5TC	\$1,548.67
	4:1	3.77	464	11.51	1505	690	213/5TC	1	124	WINL87-4/1-213/5TC	\$1,548.67
	4.5:1	4.43	395	6.91	1062	942	182/4TC	1	106	WINL87-4.5/1-182/4TC	\$1,548.67
87	5:1	4.73	370	38.49	6120	1800	213/5TC	2	160	WINL87-5/1-213/5TC	\$2,018.81
	5:1	4.73	370	38.49	6120	1800	254TC	2	160	WINL87-5/1-254TC	\$2,018.81
	10:1	10.66	164	27.28	9790	2375	182/4TC	2	160	WINL87-10/1-182/4TC	\$2,018.81
	10:1	10.66	164	27.28	9790	2375	213/5TC	2	160	WINL87-10/1-213/5TC	\$2,018.81
	10:1	10.66	164	27.28	9790	2375	254TC	2	160	WINL87-10/1-254TC	\$2,018.81
	15:1	15.29	114	21.45	11040	2680	182/4TC	2	160	WINL87-15/1-182/4TC	\$2,018.81
	15:1	15.29	114	21.45	11040	2680	213/5TC	2	160	WINL87-15/1-213/5TC	\$2,018.81
	20:1	20.06	87	15.13	9915	2925	182/4TC	3	160	WINL87-20/1-182/4TC	\$2,018.81
	20:1	20.06	87	15.13	9915	2925	213/5TC	3	160	WINL87-20/1-213/5TC	\$2,018.81
	30:1	31.73	55	11.15	11550	3010	182/4TC	3	160	WINL87-30/1-182/4TC	\$2,018.81
	40:1	38.20	46	11.36	14170	3010	182/4TC	3	160	WINL87-40/1-182/4TC	\$2,018.81
	50:1	49.16	36	8.83	14170	3010	145TC	3	160	WINL87-50/1-145TC	\$2,018.81
	50:1	49.16	36	8.83	14170	3010	182/4TC	3	160	WINL87-50/1-182/4TC	\$2,018.81
	60:1	61.54	28	7.05	14170	3010	145TC	3	160	WINL87-60/1-145TC	\$2,018.81
	60:1	61.54	28	7.05	14170	3010	182/4TC	3	160	WINL87-60/1-182/4TC	\$2,018.81
	80:1	87.27	20	4.97	14170	3010	145TC	3	160	WINL87-80/1-145TC	\$2,018.81
	80:1	87.27	20	4.97	14170	3010	182/4TC	3	160	WINL87-80/1-182/4TC	\$2,018.81
	110:1	112.52	16	3.86	14170	3010	145TC	3	160	WINL87-110/1-145TC	\$2,018.81
	120:1	122.17	14	3.55	14170	3010	145TC	3	160	WINL87-120/1-145TC	\$2,018.81
	180:1	179.70	10	2.41	14170	3010	145TC	3	160	WINL87-180/1-145TC	\$2,018.81

Continued On Next Page

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Product Overview

Box Size	Normal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
RX97	2:1	2.12	825	51.93	3819	152	284/6TC	1	214	WINL97-2/1-284/6TC	\$2,710.18
	2:1	1.89	926	54.79	3592	146	324TC	1	214	WINL97-2/1-324TC	\$2,710.18
	2.5:1	2.68	653	43.8	4071	288	284/6TC	1	214	WINL97-2.5/1-284/6TC	\$2,710.18
	3:1	3.07	570	38.23	4071	506	254/6TC	1	214	WINL97-3/1-254/6TC	\$2,710.18
	3.5:1	3.48	503	33.72	4070	609	254/6TC	1	214	WINL97-3.5/1-254/6TC	\$2,710.18
	3.5:1	3.48	503	33.72	4070	609	284/6TC	1	214	WINL97-3.5/1-284/6TC	\$2,710.18
	4:1	3.81	459	30.79	4069	946	284/6TC	1	214	WINL97-4/1-284/6TC	\$2,710.18
	4.5:1	4.42	396	18.4	2821	1322	213/5TC	1	214	WINL97-4.5/1-213/5TC	\$2,710.18
97	5:1	5.42	323	68.89	13010	1980	254/6TC	2	244	WINL97-5/1-254/6TC	\$3,346.24
	5:1	5.42	323	68.89	13010	1980	284/6TC	2	244	WINL97-5/1-284/6TC	\$3,346.24
	10:1	10.00	175	55.84	19450	2430	254/6TC	2	244	WINL97-10/1-254/6TC	\$3,346.24
	10:1	10.00	175	55.84	19450	2430	284/6TC	2	244	WINL97-10/1-284/6TC	\$3,346.24
	15:1	16.96	103	39.04	23055	2900	213/5TC	2	244	WINL97-15/1-213/5TC	\$3,346.24
	15:1	16.96	103	39.04	23055	2900	254/6TC	2	244	WINL97-15/1-254/6TC	\$3,346.24
	15:1	16.96	103	39.04	23055	2900	284/6TC	2	244	WINL97-15/1-284/6TC	\$3,346.24
	20:1	21.23	82	31.46	23265	3125	254/6TC	2	244	WINL97-20/1-254/6TC	\$3,346.24
	30:1	28.98	60	23.23	22750	3465	213/5TC	3	244	WINL97-30/1-213/5TC	\$3,346.24
	30:1	28.98	60	23.23	22750	3465	254TC	3	244	WINL97-30/1-254TC	\$3,346.24
	40:1	44.57	39	17.05	25670	4000	213/5TC	3	244	WINL97-40/1-213/5TC	\$3,346.24
	50:1	51.10	34	15.66	27030	4080	213/5TC	3	244	WINL97-50/1-213/5TC	\$3,346.24
	60:1	59.52	34	13.44	27030	4080	213/5TC	3	244	WINL97-60/1-213/5TC	\$3,346.24
	80:1	82.59	21	9.69	27030	4080	182/4TC	3	244	WINL97-80/1-182/4TC	\$3,346.24
	80:1	82.59	21	9.69	27030	4080	213TC	3	244	WINL97-80/1-213TC	\$3,346.24
	100:1	97.76	18	8.18	27030	4080	182/4TC	3	244	WINL97-100/1-182/4TC	\$3,346.24
	120:1	127.61	14	6.27	27030	4080	182/4TC	3	244	WINL97-120/1-182/4TC	\$3,346.24
	180:1	181.06	10	4.42	27030	4080	182/4TC	3	244	WINL97-180/1-182/4TC	\$3,346.24
RX107	2:1	2.30	761	71	5664	217	324/6TC	1	286	WINL107-2/1-324/6TC	\$3,429.20
	3:1	3.12	561	52.34	5664	605	284/6TC	1	286	WINL107-3/1-284/6TC	\$3,429.20
	4:1	4.13	424	32.13	4602	1205	254/6TC	1	286	WINL107-4/1-254/6TC	\$3,429.20
107	5:1	4.50	389	66	9710	2110	213/5TC	2	411	WINL107-5/1-213/5TC	\$5,171.46
	5:1	4.50	389	66	9710	2110	254/6TC	2	411	WINL107-5/1-254/6TC	\$5,171.46
	5:1	4.50	389	66	9710	2110	284/6TC	2	411	WINL107-5/1-284/6TC	\$5,171.46
	5:1	4.50	389	66	9710	2110	324/6TC	2	411	WINL107-5/1-324/6TC	\$5,171.46
	10:1	10.44	168	57	21523	2581	324/6TC	2	411	WINL107-10/1-324/6TC	\$5,171.46
	15:1	14.38	122	34	15991	3076	213/5TC	2	411	WINL107-15/1-213/5TC	\$5,171.46
	15:1	14.38	122	34	15991	3076	254/6TC	2	411	WINL107-15/1-254/6TC	\$5,171.46
	20:1	21.79	86	42	28447	3054	284/6TC	3	411	WINL107-20/1-284/6TC	\$5,171.46
	20:1	21.79	86	42	28447	3054	324TC	3	411	WINL107-20/1-324TC	\$5,171.46
	30:1	29.23	60	31	29000	3502	284/6TC	3	411	WINL107-30/1-284/6TC	\$5,171.46
	40:1	39.52	44	25.5	32667	3951	254/6TC	3	411	WINL107-40/1-254/6TC	\$5,171.46
	50:1	53.00	33	20	35053	4422	213/5TC	3	411	WINL107-50/1-213/5TC	\$5,171.46
	50:1	53.00	33	20	35053	4422	254/6TC	3	411	WINL107-50/1-254/6TC	\$5,171.46
	60:1	62.90	28	16	31277	4794	213/5TC	3	411	WINL107-60/1-213/5TC	\$5,171.46
	60:1	62.90	28	16	31277	4794	254TC	3	411	WINL107-60/1-254TC	\$5,171.46
	80:1	79.95	22	12.5	31059	5309	213/5TC	3	411	WINL107-80/1-213/5TC	\$5,171.46
	120:1	115.50	15	10.5	40102	5938	213/5TC	3	411	WINL107-120/1-213/5TC	\$5,171.46

* WINL107 are Non-Stock Items available by special order only.

Continued On Next Page

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Product Overview

Box Size	Normal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
137 Non-Stock Items *	5:1	4.87	360	98	16262	2716	254/6TC	2	619	WINL137-5/1-254/6TC	\$8,650.44
	5:1	4.87	360	98	16262	2716	284/6TC	2	619	WINL137-5/1-284/6TC	\$8,650.44
	5:1	4.87	360	98	16262	2716	324/6TC	2	619	WINL137-5/1-324/6TC	\$8,650.44
	5:1	4.87	360	98	16262	2716	364/5TC	2	619	WINL137-5/1-364/5TC	\$8,650.44
	10:1	10.12	173	93	32100	3266	364/5TC	2	619	WINL137-10/1-364/5TC	\$8,650.44
	15:1	14.60	120	91	43944	3210	284/6TC	3	619	WINL137-15/1-284/6TC	\$8,650.44
	15:1	14.60	120	91	43944	3210	324/6TC	3	619	WINL137-15/1-324/6TC	\$8,650.44
	15:1	14.60	120	91	43944	3210	364/5TC	3	619	WINL137-15/1-364/5TC	\$8,650.44
	20:1	20.68	85	77	52676	3491	364/5TC	3	619	WINL137-20/1-364/5TC	\$8,650.44
	30:1	32.81	53	52.5	56992	4467	324/6TC	3	619	WINL137-30/1-324/6TC	\$8,650.44
	40:1	43.25	40	41	58670	5017	284/6TC	3	619	WINL137-40/1-284/6TC	\$8,650.44
	40:1	43.25	40	41	58670	5017	324TC	3	619	WINL137-40/1-324TC	\$8,650.44
	50:1	50.13	35	32	53076	5545	254/6TC	3	619	WINL137-50/1-254/6TC	\$8,650.44
	50:1	50.13	35	32	53076	5545	284/6TC	3	619	WINL137-50/1-284/6TC	\$8,650.44
	60:1	59.14	30	25	48891	6331	254/6TC	3	619	WINL137-60/1-254/6TC	\$8,650.44
	80:1	79.05	22	20	52281	6802	254/6TC	3	619	WINL137-80/1-254/6TC	\$8,650.44
	120:1	117.25	15	15	57847	7835	254TC	3	619	WINL137-120/1-254TC	\$8,650.44
147 Non-Stock Items *	4:1	4.16	421	396	54680	5280	405TC	2	915	WINL147-4/1-405TC	\$15,431.42
	5:1	5.00	350	342	57285	5700	284/6TC	2	915	WINL147-5/1-284/6TC	\$15,210.18
	5:1	5.00	350	342	57285	5700	324/6TC	2	915	WINL147-5/1-324/6TC	\$15,210.18
	5:1	5.00	350	342	57285	5700	364/5TC	2	915	WINL147-5/1-364/5TC	\$15,210.18
	5:1	5.00	350	342	57285	5700	405TC	2	915	WINL147-5/1-405TC	\$15,210.18
	10:1	10.24	171	200	68570	7200	405TC	2	915	WINL147-10/1-405TC	\$15,210.18
	15:1	15.62	112	150	73700	8300	324/6TC	2	915	WINL147-15/1-324/6TC	\$15,210.18
	15:1	15.62	112	150	73700	8300	364/5TC	2	915	WINL147-15/1-364/5TC	\$15,210.18
	15:1	15.62	112	150	73700	8300	405TC	2	915	WINL147-15/1-405TC	\$15,210.18
	20:1	19.99	88	117.9	76380	9020	364/5TC	3	915	WINL147-20/1-364/5TC	\$15,210.18
	30:1	30.23	58	84.5	83311	10340	324/6TC	3	915	WINL147-30/1-324/6TC	\$15,210.18
	30:1	30.23	58	84.5	83311	10340	364/5TC	3	915	WINL147-30/1-364/5TC	\$15,210.18
	40:1	41.70	42	61.3	83309	11550	284/6TC	3	915	WINL147-40/1-284/6TC	\$15,210.18
	40:1	41.70	42	61.3	83309	11550	324/6TC	3	915	WINL147-40/1-324/6TC	\$15,210.18
	50:1	50.49	35	50.6	83307	12320	254/6TC	3	915	WINL147-50/1-254/6TC	\$15,210.18
	50:1	50.49	35	50.6	83307	12320	284/6TC	3	915	WINL147-50/1-284/6TC	\$15,210.18
	60:1	60.38	29	42.3	83306	13090	254/6TC	3	915	WINL147-60/1-254/6TC	\$15,210.18
	60:1	60.38	29	42.3	83306	13090	324TC	3	915	WINL147-60/1-324TC	\$15,210.18
	80:1	83.30	21	30.7	83304	13640	254/6TC	3	915	WINL147-80/1-254/6TC	\$15,210.18
	80:1	83.30	21	30.7	83304	13640	284/6TC	3	915	WINL147-80/1-284/6TC	\$15,210.18
	120:1	117.29	15	21	83300	13640	254/6TC	3	915	WINL147-120/1-254/6TC	\$15,210.18

* WINL137 and WINL147 are Non-Stock Items available by special order only.

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Mechanical Ratings

Box Size	Normal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	56C		143/145TC		182TC		184TC		213TC		215TC		254TC		256TC	
								HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T
37	5:1	4.88	359	5.91	970	305	2	1.0	165	2.0	330												
	10:1	10.02	175	4.04	1360	388	2	1.0	340	2.0	680												
	15:1	15.75	111	2.99	1580	451	2	1.0	535	2.0	1070												
	20:1	19.95	88	2.49	1670	489	2	1.0	680	2.0	1355												
	30:1	31.02	56	1.75	1770	565	3	1.0	1025														
	40:1	40.08	44	1.35	1770	615	3	1.0	1325														
	50:1	52.24	33	1.04	1770	670	3	1.0	1725														
47	60:1	60.84	29	0.89	1770	705	3	0.89	1770														
	5:1	4.85	361	9.59	1565	440	2			2.0	330	3.0	495	5.0	825								
	10:1	11.27	155	5.95	2255	590	2					3.0	1150										
	15:1	15.18	115	4.87	2490	650	2					3.0	1555										
	20:1	18.37	95	4.29	2650	690	2			2.0	1250												
	30:1	31.83	55	2.73	2830	835	3			2.0	2105	3.0	3250										
	40:1	41.51	42	2.09	2830	910	3	1.0	1370														
RX57	50:1	52.84	33	1.64	2830	985	3	1.0	1740														
	60:1	63.37	28	1.37	2830	1050	3	1.0	2095														
	3:1	3.19	549	4.04	447	133	1					3.0	336										
RX67	2:1	1.86	941	9.43	617	43	1					3.0	196	5.0	327								
	2.5:1	2.35	745	7.56	616	94	1					3.0	248	5.0	413								
	3.5:1	3.52	497	4.11	502	301	1					3.0	371										
67	5:1	5.23	335	15.38	2710	710	2			2.0	355	3.0	535	5.0	890								
	10:1	9.90	177	12.39	4130	880	2					3.0	1010	5.0	1685								
	15:1	15.41	114	9.23	4785	1020	2			2.0	1050	3.0	1575										
	20:1	22.90	76	6.87	4720	1165	3					3.0	2270	5.0	3785								
	30:1	32.02	55	4.83	5045	1305	3			2.0	2115												
	40:1	41.22	42	3.75	5045	1420	3			2.0	2725												
	50:1	52.21	34	2.96	5045	1480	3			2.0	3400												
	60:1	63.07	28	2.45	5045	1480	3	1.0	2085														
	80:1	78.59	22	1.97	5045	1480	3	1.0	2590														
	100:1	98.69	18	1.57	5045	1480	3	1.0	3260														
	120:1	125.28	14	1.23	5045	1480	3	1.0	4140														
	2.5:1	2.38	735	13.43	1108	72	1					3.0	251	5.0	418								
RX77	2.5:1	2.38	735	13.43	1108	72	1									7.5	627						
	4:1	4.19	418	6.16	895	474	1					3.0	442										
	5:1	4.78	366	25.13	4040	785	2					3.0	485	5.0	815	7.5	1220						
77	10:1	10.91	160	16.89	6205	1035	2							5.0	1860	7.5	2795						
	15:1	14.83	118	12.35	6165	1145	2					3.0	1515										
	20:1	23.31	75	7.84	6150	1330	2					3.0	2385										
	25:1	25.27	69	8.04	6640	1365	3					3.0	2515	5.0	4190								
	30:1	31.97	55	6.36	6640	1480	3					3.0	3155										
	40:1	39.31	45	5.49	6640	1555	3					3.0	3855										
	50:1	53.24	33	3.82	6640	1755	3			2.0	3505												
	60:1	57.73	30	3.52	6640	1800	3			2.0	3855												
	80:1	84.62	21	2.40	6640	1935	3			2.0	5510												
	100:1	89.80	19	2.26	6640	1935	3			2.0	6090												
	120:1	124.34	14	1.64	6640	1935	3	1.0	4130														
	2:1	2.04	858	26.27	1859	123	1									7.5	538	10	717	15	1075	20	1434
RX87	2.5:1	2.52	694	20.25	1770	254	1									7.5	664	10	886	15	1328	20	1771
	3:1	3.19	549	14.4	1593	497	1									7.5	841	10	1121				
	3.5:1	3.54	494	12.83	1575	573	1									7.5	993	10	1244				
	4:1	3.77	464	11.51	1505	690	1									7.5	994	10	1325				
	4.5:1	4.43	395	6.91	1062	942	1			3.0	467	5.0	778										
	5:1	4.73	370	38.49	6120	1800	2							5.0	1815	7.5	1205	10	1610	15	2415		
87	10:1	10.66	164	27.28	9790	2375	2							5.0	2615	7.5	2725	10	3635	15	3455		
	15:1	15.29	114	21.45	11040	2680	2							5.0	3925	7.5	4985	10	6650				
	20:1	20.06	87	15.13	9915	2925	3			3.0	1995	5.0	3325	7.5	4985								
	30:1	31.73	55	11.15	11550	3010	3			3.0	3155	5.0	5260										
	40:1	38.20	46	11.36	14170	3010	3			3.0	3770	5.0	6290										
	50:1	49.16	36	8.83	14170	3010	3			2.0	3215	3.0	4820	5.0	8035								
	60:1	61.54	28	7.05	14170	3010	3			2.0	4130	3.0	6200	5.0	10330								
	80:1	87.27	20	4.97	14170	3010	3			2.0	5785	3.0	8680										
	100:1	112.52	16	3.86	14170	3010	3			2.0	7230												
	120:1	122.17	14	3.55	14170	3010	3			2.0	8265												
	180:1	179.70	10	2.41	14170	3010	3			2.0	11574												

3

WINL SERIES - HELICAL
INLINE GEAR REDUCERS

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Mechanical Ratings (cont.)

Box Size	Normal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	56C		143/145TC		182TC		184TC		213TC		215TC		254TC		256TC	
								HP	T	HP	+T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T
RX97	2:1	2.12	825	51.93	3819	152	1																
	2.5:1	2.68	653	43.80	4071	288	1																
	3:1	3.07	570	38.23	4071	506	1													15	1618	20	2158
	3.5:1	3.48	503	33.72	4070	609	1													15	1835	20	2446
	4:1	3.81	459	30.79	4069	946	1																
	4.5:1	4.42	396	18.4	2821	1322	1									7.5	1165	10	1553				
97	5:1	5.42	323	68.89	13010	1980	2													15	2770	20	3690
	10:1	10.00	175	55.84	19450	2430	2													15	5110	20	6818
	15:1	16.96	103	39.04	23055	2900	2									7.5	4340	10	5790	15	8685	20	11580
	20:1	21.23	82	31.46	23265	3125	2													15	10910	20	14450
	30:1	28.98	60	23.23	22750	3465	3									7.5	7230	10	9645	15	14465		
	40:1	44.57	39	17.05	25670	4000	3									7.5	11125	10	14835				
	50:1	51.10	34	15.66	27030	4080	3									7.5	12765	10	17020				
	60:1	59.52	34	13.44	27030	4080	3									7.5	14965	10	19950				
	80:1	82.59	21	9.69	27030	4080	3					3.0	8265	5.0	13775	7.5	20665						
	100:1	97.76	18	8.18	27030	4080	3					3.0	9645	5.0	16070								
	120:1	127.61	14	6.27	27030	4080	3					3.0	12400	5.0	20665								
	180:1	181.06	10	4.42	27030	4080	3					3.0	17360										
RX107	2:1	2.30	761	71	5664	217	1																
	3:1	3.12	561	52.34	5664	605	1																
	4:1	4.13	424	32.13	4602	1205	1													15	2177	20	2903
107	5:1	4.50	389	66	9710	2110	2									7.5	1150	10	1533	15	2300	20	3066
	10:1	10.44	168	57	21523	2581	2																
	15:1	14.38	122	34	15991	3076	2									7.5	3676	10	4901	15	7352	20	9802
	20:1	21.79	86	42	28447	3054	3																
	30:1	29.23	60	31	29000	3502	3																
	40:1	39.52	44	25.5	32667	3951	3													15	19600	20	26134
	50:1	53.00	33	20	35053	4422	3									7.5	13145	10	17526	15	26289	20	35053
	60:1	62.90	28	16	31277	4794	3									7.5	15599	10	20799	15	31198		
	80:1	79.95	22	12.5	31059	5309	3									7.5	19827	10	26436				
	120:1	115.50	15	10.5	40102	5938	3									7.5	26909	10	38192				
Non-Stock Items	5:1	4.87	360	98	16262	2716	2													15	2488	20	3317
	10:1	10.12	173	93	32100	3266	2																
	15:1	14.60	120	91	43944	3210	3																
	20:1	20.68	85	77	52676	3491	3																
	30:1	32.81	53	52.5	56992	4467	3																
	40:1	43.25	40	41	58670	5017	3																
	50:1	50.13	35	32	53076	5545	3													15	24734	20	33156
	60:1	59.14	30	25	48891	6331	3													15	29178	20	39113
	80:1	79.05	22	20	52281	6802	3													15	39002	20	52281
	120:1	117.25	15	15	57847	7835	3													15	57847		
Non-Stock Items	4:1	4.16	421	396	54680	5280	2																
	5:1	5.00	350	342	57285	5700	2																
	10:1	10.24	171	200	68570	7200	2																
	15:1	15.62	112	150	73700	8300	2																
	20:1	19.99	88	117.9	76380	9020	3																
	30:1	30.23	58	84.5	83311	10340	3																
	40:1	41.70	42	61.3	83309	11550	3																
	50:1	50.49	35	50.6	83307	12320	3															20	33392
	60:1	60.38	29	42.3	83306	13090	3															20	39935
	80:1	83.30	21	30.7	83304	13640	3															20	55087
	120:1	117.29	15	21	83300	13640	3															20	77567

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers

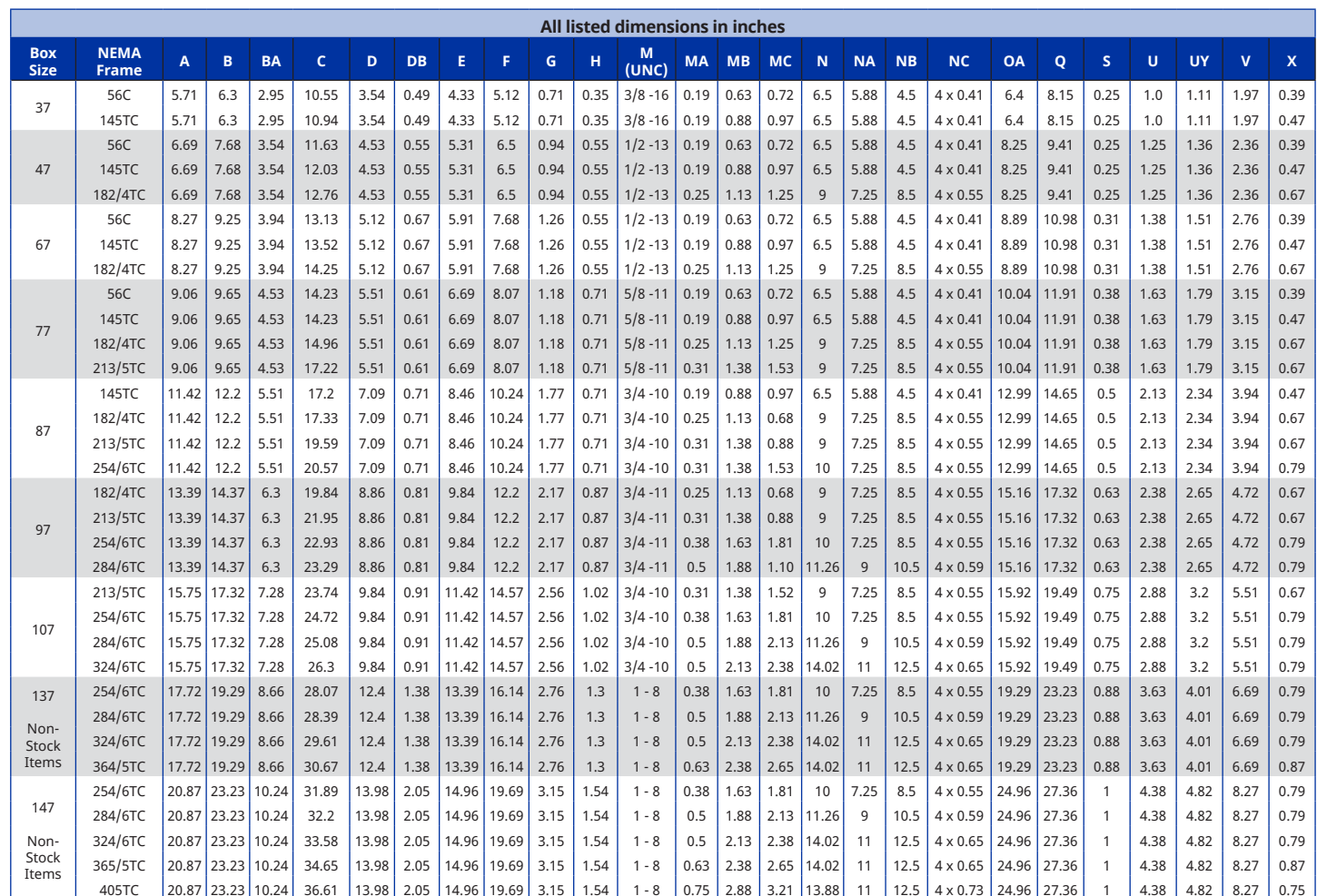


WINL Series - Helical Inline Reducers: Mechanical Ratings (cont.)

Box Size	Normal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	284TC		286TC		324TC		326TC		364TC		365TC		405TC	
								HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T
RX97	2:1	2.12	825	51.93	3819	152	1	25	1863	30	2235										
	2:1	1.89	926	54.79	3592	146	1	25	1661	30	1993	40	2657								
	2.5:1	2.68	653	43.8	4071	288	1	25	2355	30	2826										
	3:1	3.07	570	38.23	4071	506	1														
	3.5:1	3.48	503	33.72	4070	609	1	25	3058	30	3669										
	4:1	3.81	459	30.79	4069	946	1	25	3347	30	4017										
97	4.5:1	4.42	396	18.4	2821	1322	1														
	5:1	5.42	323	68.89	13010	1980	2	25	4615	30	5540										
	10:1	10.00	175	55.84	19450	2430	2	25	8520	30	10225										
	15:1	16.96	103	39.04	23055	2900	2	25	14480	30	17375										
	20:1	21.23	82	31.46	23265	3125	2														
	30:1	28.98	60	23.23	22750	3465	3														
	40:1	44.57	39	17.05	25670	4000	3														
	50:1	51.10	34	15.66	27030	4080	3														
	60:1	59.52	34	13.44	27030	4080	3														
	80:1	82.59	21	9.69	27030	4080	3														
	100:1	97.76	18	8.18	27030	4080	3														
RX107	120:1	127.61	14	6.27	27030	4080	3														
	180:1	181.06	10	4.42	27030	4080	3														
	2:1	2.30	761	71	5664	217	1							50	4042						
107	3:1	3.12	561	52.34	5664	605	1	25	2741	30	3289										
	4:1	4.13	424	32.13	4602	1205	1														
	5:1	4.50	389	66	9710	2110	2	25	3833	30	4599	40	6132	50	7665						
	10:1	10.44	168	57	21523	2581	2					40	14240	50	17800						
	15:1	14.38	122	34	15991	3076	2					40	26762								
	20:1	21.79	86	42	28447	3054	3	25	16726	30	20072	40									
	30:1	29.23	60	31	29000	3502	3	25	24164	30	28997										
	40:1	39.52	44	25.5	32667	3951	3														
	50:1	53.00	33	20	35053	4422	3														
	60:1	62.90	28	16	31277	4794	3														
	80:1	79.95	22	12.5	31059	5309	3														
137	120:1	115.50	15	10.5	40102	5938	3														
	5:1	4.87	360	98	16262	2716	2	25	4147	30	4976	40	6634	50	8293	60	9952	75	12440		
	10:1	10.12	173	93	32100	3266	2					40	19306	50	24133	60	20699	75	25874		
	15:1	14.60	120	91	43944	3210	3	25	12066	30	14480	40				60	28959	75	36199		
	20:1	20.68	85	77	52676	3491	3					40	43401	50	54251	60	41026	75	51282		
	30:1	32.81	53	52.5	56992	4467	3					40	57210								
	40:1	43.25	40	41	58670	5017	3	25	35756	30	42908	40									
	50:1	50.13	35	32	53076	5545	3	25	41445	30	49734										
	60:1	59.14	30	25	48891	6331	3														
	80:1	79.05	22	20	52281	6802	3														
	120:1	117.25	15	15	57847	7835	3														
147	5:1	4.16	421	396	54680	5280	2														
	10:1	10.24	171	200	68570	7200	2	25	4621	30	5113	40	6818	50	8522	60	10227	75	12784	100	14171
	15:1	15.62	112	150	73700	8300	2					40	21295	50	26619	60	31943	75	39928	100	17045
	20:1	19.99	88	117.9	76380	9020	3					40	39980	50	49975	60	39662	75	49578	100	34900
	30:1	30.23	58	84.5	83311	10340	3					40	55150	50	68937	60	59970	75	74962		53238
	40:1	41.70	42	61.3	83309	11550	3	25	34469	30	41362	40									
	50:1	50.49	35	50.6	83307	12320	3	25	41740	30	50088										
	60:1	60.38	29	42.3	83306	13090	3					40	79869								
	80:1	83.30	21	30.7	83304	13640	3	25	68859	30	82631										
	120:1	117.29	15	21	83300	13640	3														
	Non-Stock Items																				

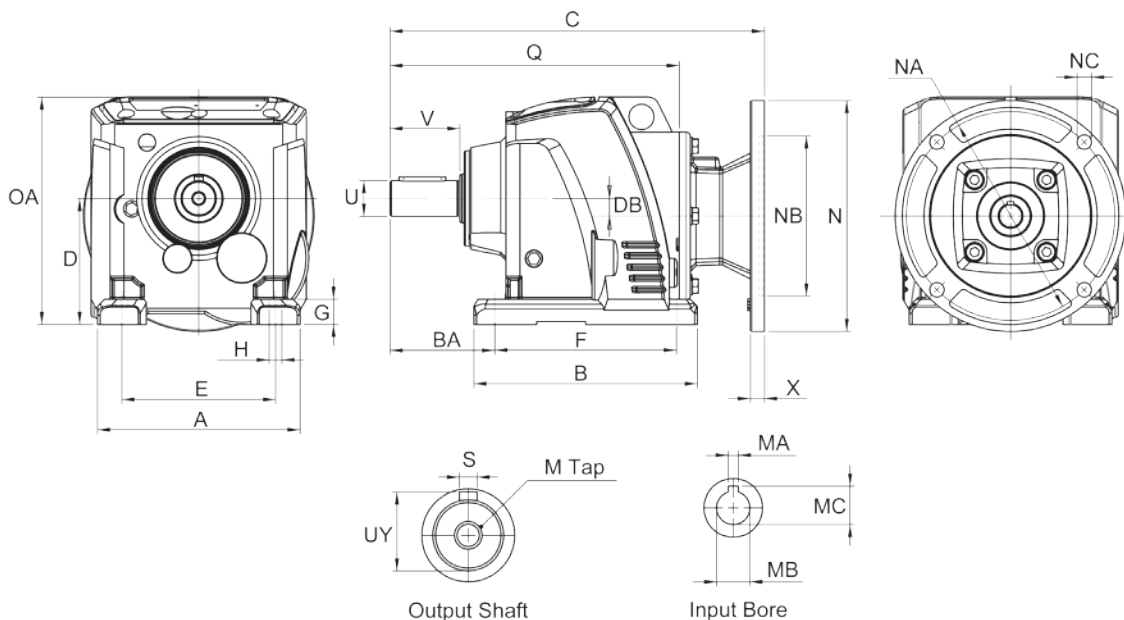
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WINL SERIES - HELICAL
INLINE GEAR REDUCERS

WINL SERIES - HELICAL
INLINE GEAR REDUCERS

1-800-808-2131

WINL Series - Helical Inline Reducers: Competitor Dimensional Comparison - SEW Eurodrive



All listed dimensions in inches																											
Box Size	NEMA Frame	SEW Model	A	B	BA	C	D	DB	E	F	G	H	M (UNC)	MA	MB	MC	N	NA	NB	NC	OA	Q	S	U	UY	V	X
37	56C	R37	5.71	6.30	2.95	11.77	3.54	0.40	4.33	5.12	0.71	0.35	3/8 - 16	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	5.94	7.91	0.25	1	1.11	1.97	0.61
	145TC		5.71	6.30	2.95	12.70	3.54	0.40	4.33	5.12	0.71	0.35	3/8 - 16	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	5.94	7.91	0.25	1	1.11	1.97	0.65
47	56C	R47	6.69	7.68	3.54	12.86	4.53	0.55	5.31	6.50	0.94	0.53	1/2 - 13	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	7.36	9.25	0.25	1.25	1.36	2.36	0.61
	145TC		6.69	7.68	3.54	13.78	4.53	0.55	5.31	6.50	0.94	0.53	1/2 - 13	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	7.36	9.25	0.25	1.25	1.36	2.36	0.65
67	182/4TC	R67	6.69	7.68	3.54	15.26	4.53	0.55	5.31	6.50	0.94	0.53	1/2 - 13	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	7.36	9.25	0.25	1.25	1.36	2.36	0.59
	56C		8.27	9.25	3.94	14.63	5.12	0.81	5.91	7.68	1.18	0.55	1/2 - 13	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	8.35	11.02	0.31	1.38	1.51	2.76	0.61
77	145TC	R77	8.27	9.25	3.94	15.55	5.12	0.81	5.91	7.68	1.18	0.55	1/2 - 13	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	8.35	11.02	0.31	1.38	1.51	2.76	0.65
	182/4TC		8.27	9.25	3.94	17.03	5.12	0.81	5.91	7.68	1.18	0.55	1/2 - 13	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	8.35	11.02	0.31	1.38	1.51	2.76	0.59
87	56C	R87	9.06	9.65	4.53	15.18	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	8.98	11.81	0.38	1.63	1.79	3.15	0.61
	145TC		9.06	9.65	4.53	16.06	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	8.98	11.81	0.38	1.63	1.79	3.15	0.65
97	182/4TC	R97	9.06	9.65	4.53	17.50	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	8.98	11.81	0.38	1.63	1.79	3.15	0.59
	213/5TC		9.06	9.65	4.53	19.43	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	8.98	11.81	0.38	1.63	1.79	3.15	0.63
107	145TC	R107	11.42	12.20	5.51	18.71	7.09	0.50	8.46	10.24	1.77	0.69	3/4 - 10	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	11.61	14.65	0.5	2.13	2.35	3.94	0.65
	182/4TC		11.42	12.20	5.51	20.15	7.09	0.50	8.46	10.24	1.77	0.69	3/4 - 10	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	11.61	14.65	0.5	2.13	2.35	3.94	0.59
137	213/5TC	R137	11.42	12.20	5.51	22.07	7.09	0.50	8.46	10.24	1.77	0.69	3/4 - 10	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	11.61	14.65	0.5	2.13	2.35	3.94	0.63
	284/6TC		13.39	14.37	6.30	22.62	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.59
147	254/6TC	R147	13.39	14.37	6.30	24.55	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.63
	324/6TC		13.39	14.37	6.30	26.81	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.67
Non-Stock Items	213/5TC	R107	15.75	17.32	7.28	26.48	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	16.06	19.49	0.75	2.88	3.2	5.51	0.63
	254/6TC		15.75	17.32	7.28	28.47	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	16.06	19.49	0.75	2.88	3.2	5.51	0.67
Non-Stock Items	284/6TC	R137	15.75	17.32	7.28	28.75	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	16.06	19.49	0.75	2.88	3.2	5.51	0.79
	324/6TC		15.75	17.32	7.28	31.11	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	16.06	19.49	0.75	2.88	3.2	5.51	0.87
Non-Stock Items	254/6TC	R147	17.72	19.29	8.66	31.89	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	19.49	23.19	0.88	3.63	4.01	6.69	0.67
	284/6TC		17.72	19.29	8.66	32.17	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	19.49	23.19	0.88	3.63	4.01	6.69	0.79
Non-Stock Items	324/6TC	R137	17.72	19.29	8.66	34.53	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	19.49	23.19	0.88	3.63	4.01	6.69	0.87
	365/5TC		17.72	19.29	8.66	34.53	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.63	2.38	2.66	14.02	11	12.5	4 x 0.69	19.49	23.19	0.88	3.63	4.01	6.69	0.87
Non-Stock Items	254/6TC	R147	20.87	23.23	10.24	35.75	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	22.24	27.36	1	4.38	4.82	8.27	0.67
	284/6TC		20.87	23.23	10.24	36.02	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	22.24	27.36	1	4.38	4.82	8.27	0.79
Non-Stock Items	324/6TC	R147	20.87	23.23	10.24	38.39	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	22.24	27.36	1	4.38	4.82	8.27	0.87
	365/5TC		20.87	23.23	10.24	38.39	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.63	2.38	2.66	14.02	11	12.5	4 x 0.69	22.24	27.36	1	4.38	4.82	8.27	0.87

SEW Eurodrive dimensional data was derived from their Catalog - US - GM.
Dark gray shaded cells indicate a dimensional difference.

Section 3: Helical Gear Reducers

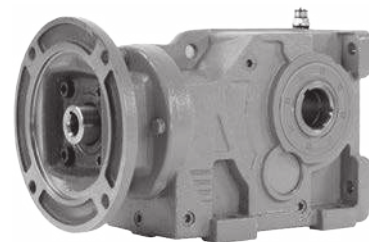
KHN Series - Helical Bevel Gear Reducers



KHN Series - Helical Bevel Reducers: Product Overview

Product Specifications

- » 5:1 - 120:1 ratios
 - » Additional ratios via custom order
- » Box sizes 37 - 97
- » Horsepower range from 3/4 HP to 30 HP
- » Foot mounted - hollow bore output series
- » All cast iron housings for increased strength and reliability
- » Gears are precision machined for better rotation and quieter operation
- » Gearbox flanges are designed to accept NEMA C-face electric motors
- » Drop-in for most major European-produced inline reducer brands
- » 2 year warranty



Box Size	Normal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
37	5	4.73	370	8.50	1310	56C	3	32	KHN37-5/1-H-56C	\$1,783.19
	5	4.73	370	8.50	1310	143/5TC	3	37	KHN37-5/1-H-143/5TC	\$1,783.19
	7.5	7.96	220	6.00	1559	56C	3	32	KHN37-7.5/1-H-56C	\$1,783.19
	7.5	7.96	220	6.00	1559	143/5TC	3	37	KHN37-7.5/1-H-143/5TC	\$1,783.19
	10	11.09	158	4.33	1565	56C	3	32	KHN37-10/1-H-56C	\$1,783.19
	10	11.09	158	4.33	1565	143/5TC	3	37	KHN37-10/1-H-143/5TC	\$1,783.19
	15	15.32	114	3.14	1568	56C	3	32	KHN37-15/1-H-56C	\$1,783.19
	15	15.32	114	3.14	1568	143/5TC	3	37	KHN37-15/1-H-143/5TC	\$1,783.19
	25	23.10	76	2.20	1659	56C	3	32	KHN37-25/1-H-56C	\$1,783.19
	25	23.10	76	2.20	1659	143/5TC	3	37	KHN37-25/1-H-143/5TC	\$1,783.19
	30	32.19	54	1.66	1747	56C	3	32	KHN37-30/1-H-56C	\$1,783.19
	30	32.19	54	1.66	1747	143TC	3	37	KHN37-30/1-H-143TC	\$1,783.19
	40	37.97	46	1.43	1770	56C	3	32	KHN37-40/1-H-56C	\$1,783.19
	40	37.97	46	1.43	1770	143TC	3	37	KHN37-40/1-H-143TC	\$1,783.19
	50	49.51	35	1.10	1770	56C	3	32	KHN37-50/1-H-56C	\$1,783.19
	60	59.67	29	0.91	1770	56C	3	32	KHN37-60/1-H-56C	\$1,783.19
47	5	5.85	299	9.20	1757	145TC	3	51	KHN47-5/1-H-145TC	\$1,951.33
	5	5.85	299	9.20	1757	182/4TC	3	57	KHN47-5/1-H-182/4TC	\$1,951.33
	7.5	7.11	246	8.08	1875	145TC	3	51	KHN47-7.5/1-H-145TC	\$1,951.33
	7.5	7.11	246	8.08	1875	182/4TC	3	57	KHN47-7.5/1-H-182/4TC	\$1,951.33
	10	9.95	176	6.46	2097	56C	3	46	KHN47-10/1-H-56C	\$1,951.33
	10	9.95	176	6.46	2097	143/5TC	3	51	KHN47-10/1-H-143/5TC	\$1,951.33
	10	9.95	176	6.46	2097	182/4TC	3	57	KHN47-10/1-H-182/4TC	\$1,951.33
	15	16.99	103	4.52	2507	145TC	3	51	KHN47-15/1-H-145TC	\$1,951.33
	15	16.99	103	4.52	2507	182TC	3	57	KHN47-15/1-H-182TC	\$1,951.33
	20	20.65	85	3.97	2675	143/5TC	3	51	KHN47-20/1-H-143/5TC	\$1,951.33
	20	20.65	85	3.97	2675	182TC	3	57	KHN47-20/1-H-182TC	\$1,951.33
	30	28.88	61	3.17	2991	56C	3	46	KHN47-30/1-H-56C	\$1,951.33
	30	28.88	61	3.17	2991	143/5TC	3	51	KHN47-30/1-H-143/5TC	\$1,951.33
	40	41.36	42	2.50	3372	56C	3	46	KHN47-40/1-H-56C	\$1,951.33
	40	41.36	42	2.50	3372	143/5TC	3	51	KHN47-40/1-H-143/5TC	\$1,951.33
	50	47.08	37	2.21	3400	56C	3	46	KHN47-50/1-H-56C	\$1,951.33
	50	47.08	37	2.21	3400	143TC	3	51	KHN47-50/1-H-143TC	\$1,951.33
	60	58.99	30	1.84	3540	56C	3	46	KHN47-60/1-H-56C	\$1,951.33
	60	58.99	30	1.84	3540	143TC	3	51	KHN47-60/1-H-143TC	\$1,951.33
	70	71.78	24	1.51	3540	56C	3	46	KHN47-70/1-H-56C	\$1,951.33
	70	71.78	24	1.51	3540	143TC	3	51	KHN47-70/1-H-143TC	\$1,951.33
	85	86.89	20	1.42	3540	56C	3	46	KHN47-85/1-H-56C	\$1,951.33
67	10	9.66	181	12.06	3800	145TC	3	73	KHN67-10/1-H-145TC	\$2,440.27
	10	9.66	181	12.06	3800	182/4TC	3	80	KHN67-10/1-H-182/4TC	\$2,440.27
	15	14.16	124	9.23	4265	56C	3	69	KHN67-15/1-H-56C	\$2,440.27
	15	14.16	124	9.23	4265	143/5TC	3	73	KHN67-15/1-H-143/5TC	\$2,440.27
	15	14.16	124	9.23	4265	182/4TC	3	80	KHN67-15/1-H-182/4TC	\$2,440.27
	20	22.18	79	6.26	4530	145TC	3	73	KHN67-20/1-H-145TC	\$2,440.27
	20	22.18	79	6.26	4530	182/4TC	3	80	KHN67-20/1-H-182/4TC	\$2,440.27
	30	30.90	57	5.34	5390	145TC	3	73	KHN67-30/1-H-145TC	\$2,440.27
	30	30.90	57	5.34	5390	182/4TC	3	80	KHN67-30/1-H-182/4TC	\$2,440.27
	40	37.98	46	4.62	5730	56C	3	69	KHN67-40/1-H-56C	\$2,440.27
	40	37.98	46	4.62	5730	143/5TC	3	73	KHN67-40/1-H-143/5TC	\$2,440.27
	40	37.98	46	4.62	5730	182TC	3	80	KHN67-40/1-H-182TC	\$2,440.27
	45	46.33	38	4.02	6080	56C	3	69	KHN67-45/1-H-56C	\$2,440.27
	45	46.33	38	4.02	6080	143/5TC	3	73	KHN67-45/1-H-143/5TC	\$2,440.27
	45	46.33	38	4.02	6080	182TC	3	80	KHN67-45/1-H-182TC	\$2,440.27
	65	64.97	27	2.95	6260	56C	3	69	KHN67-65/1-H-56C	\$2,440.27
	65	64.97	27	2.95	6260	143/5TC	3	73	KHN67-65/1-H-143/5TC	\$2,440.27

Continued On Next Page

Section 3: Helical Gear Reducers

KHN Series - Helical Bevel Gear Reducers



KHN Series - Helical Bevel Reducers: Product Overview

Box Size	Normal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
67	85	84.10	21	2.46	6760	56C	3	69	KHN67-85/1-H-56C	\$2,440.27
	85	84.10	21	2.46	6760	143/5TC	3	73	KHN67-85/1-H-143/5TC	\$2,440.27
	110	108.03	16	2.06	7260	56C	3	69	KHN67-110/1-H-56C	\$2,440.27
	110	108.03	16	2.06	7260	143TC	3	73	KHN67-110/1-H-143TC	\$2,440.27
	120	118.14	15	1.88	7260	56C	3	69	KHN67-120/1-H-56C	\$2,440.27
	120	118.14	15	1.88	7260	143TC	3	73	KHN67-120/1-H-143TC	\$2,440.27
77	7.5	8.40	208	27.05	7415	184TC	3	132	KHN77-7.5/1-H-184TC	\$3,709.07
	7.5	8.40	208	27.05	7415	213/5TC	3	148	KHN77-7.5/1-H-213/5TC	\$3,709.07
	10	9.96	176	24.02	7800	184TC	3	132	KHN77-10/1-H-184TC	\$3,709.07
	10	9.96	176	24.02	7800	213/5TC	3	148	KHN77-10/1-H-213/5TC	\$3,709.07
	15	15.73	111	17.64	9050	184TC	3	132	KHN77-15/1-H-184TC	\$3,709.07
	15	15.73	111	17.64	9050	213/5TC	3	148	KHN77-15/1-H-213/5TC	\$3,709.07
	20	20.24	86	14.78	9765	184TC	3	132	KHN77-20/1-H-184TC	\$3,709.07
	20	20.24	86	14.78	9765	213/5TC	3	148	KHN77-20/1-H-213/5TC	\$3,709.07
	30	30.48	57	10.97	10915	184TC	3	132	KHN77-30/1-H-184TC	\$3,709.07
	30	30.48	57	10.97	10915	213/5TC	3	148	KHN77-30/1-H-213/5TC	\$3,709.07
	40	39.76	44	9.21	11955	184TC	3	132	KHN77-40/1-H-184TC	\$3,709.07
	40	39.76	44	9.21	11955	213TC	3	148	KHN77-40/1-H-213TC	\$3,709.07
	50	51.18	34	7.72	12900	184TC	3	132	KHN77-50/1-H-184TC	\$3,709.07
	60	57.05	31	7.16	13325	182/4TC	3	132	KHN77-60/1-H-182/4TC	\$3,709.07
	65	64.06	27	6.56	13710	182/4TC	3	132	KHN77-65/1-H-182/4TC	\$3,709.07
	80	78.07	22	5.38	13710	145TC	3	128	KHN77-80/1-H-145TC	\$3,709.07
	80	78.07	22	5.38	13710	182TC	3	132	KHN77-80/1-H-182TC	\$3,709.07
	100	100.66	17	4.18	13710	145TC	3	128	KHN77-100/1-H-145TC	\$3,709.07
	100	100.66	17	4.18	13710	182TC	3	132	KHN77-100/1-H-182TC	\$3,709.07
	120	122.94	14	3.42	8125	143TC	3	128	KHN77-120/1-H-143TC	\$3,709.07
87	7.5	8.27	212	49.53	13365	213/5TC	3	230	KHN87-7.5/1-H-213/5TC	\$5,775.44
	7.5	8.27	212	49.53	13365	254/6TC	3	257	KHN87-7.5/1-H-254/6TC	\$5,775.44
	10	10.53	166	41.81	14370	184TC	3	208	KHN87-10/1-H-184TC	\$5,775.44
	10	10.53	166	41.81	14370	213/5TC	3	230	KHN87-10/1-H-213/5TC	\$5,775.44
	10	10.53	166	41.81	14370	254/6TC	3	257	KHN87-10/1-H-254/6TC	\$5,775.44
	15	15.66	112	31.67	16185	213/5TC	3	230	KHN87-15/1-H-213/5TC	\$5,775.44
	15	15.66	112	31.67	16185	254/6TC	3	257	KHN87-15/1-H-254/6TC	\$5,775.44
	20	20.90	84	25.88	17650	213/5TC	3	230	KHN87-20/1-H-213/5TC	\$5,775.44
	20	20.90	84	25.88	17650	254/6TC	3	257	KHN87-20/1-H-254/6TC	\$5,775.44
	30	28.30	62	20.93	19330	184TC	3	208	KHN87-30/1-H-184TC	\$5,775.44
	30	28.30	62	20.93	19330	213/5TC	3	230	KHN87-30/1-H-213/5TC	\$5,775.44
	30	28.30	62	20.93	19330	254/6TC	3	257	KHN87-30/1-H-254/6TC	\$5,775.44
	40	43.31	40	14.76	20870	184TC	3	208	KHN87-40/1-H-184TC	\$5,775.44
	40	43.31	40	14.76	20870	213/5TC	3	230	KHN87-40/1-H-213/5TC	\$5,775.44
	50	50.45	35	13.04	21470	184TC	3	208	KHN87-50/1-H-184TC	\$5,775.44
	50	50.45	35	13.04	21470	213/5TC	3	230	KHN87-50/1-H-213/5TC	\$5,775.44
	60	61.42	28	11.11	22270	184TC	3	208	KHN87-60/1-H-184TC	\$5,775.44
	60	61.42	28	11.11	22270	213/5TC	3	230	KHN87-60/1-H-213/5TC	\$5,775.44
	70	72.35	24	9.73	22970	184TC	3	208	KHN87-70/1-H-184TC	\$5,775.44
	70	72.35	24	9.73	22970	213TC	3	230	KHN87-70/1-H-213TC	\$5,775.44
	80	82.86	21	8.72	23570	182/4TC	3	208	KHN87-80/1-H-182/4TC	\$5,775.44
	110	108.00	16	6.78	23900	182TC	3	208	KHN87-110-H-182TC	\$5,775.44
	120	117.56	15	6.23	23900	182TC	3	208	KHN87-120-H-182TC	\$5,775.44
97	7.5	8.31	211	81.48	22095	254/6TC	3	393	KHN97-7.5/1-H-254/6TC	\$8,637.17
	7.5	8.31	211	81.48	22095	284/6TC	3	402	KHN97-7.5/1-H-284/6TC	\$8,637.17
	10	10.16	172	70.80	23465	213/5TC	3	362	KHN97-10/1-H-213/5TC	\$8,637.17
	10	10.16	172	70.80	23465	254/6TC	3	393	KHN97-10/1-H-254/6TC	\$8,637.17
	10	10.16	172	70.80	23465	284/6TC	3	402	KHN97-10/1-H-284/6TC	\$8,637.17
	15	14.11	124	64.78	29820	213/5TC	3	362	KHN97-15/1-H-213/5TC	\$8,637.17
	15	14.11	124	64.78	29820	254/6TC	3	393	KHN97-15/1-H-254/6TC	\$8,637.17
	15	14.11	124	64.78	29820	284/6TC	3	402	KHN97-15/1-H-284/6TC	\$8,637.17
	20	21.33	82	48.50	33760	213/5TC	3	362	KHN97-20/1-H-213/5TC	\$8,637.17
	20	21.33	82	48.50	33760	254/6TC	3	393	KHN97-20/1-H-254/6TC	\$8,637.17
	20	21.33	82	48.50	33760	284/6TC	3	402	KHN97-20/1-H-284/6TC	\$8,637.17
	30	31.19	56	28.65	29165	254/6TC	3	393	KHN97-30/1-H-254/6TC	\$8,637.17
	30	31.19	56	28.65	29165	284/6TC	3	402	KHN97-30/1-H-284/6TC	\$8,637.17
	40	38.12	46	23.33	29030	213/5TC	3	362	KHN97-40/1-H-213/5TC	\$8,637.17
	40	38.12	46	23.33	29030	254/6TC	3	393	KHN97-40/1-H-254/6TC	\$8,637.17
	50	47.16	37	18.78	28910	213/5TC	3	362	KHN97-50/1-H-213/5TC	\$8,637.17
	50	47.16	37	18.78	28910	254/6TC	3	393	KHN97-50/1-H-254/6TC	\$8,637.17
	65	64.72	27	18.02	38060	213/5TC	3	362	KHN97-65/1-H-213/5TC	\$8,637.17
	65	64.72	27	18.02	38060	254TC	3	393	KHN97-65/1-H-254TC	\$8,637.17
	70	71.78	24	16.24	38060	213/5TC	3	362	KHN97-70/1-H-213/5TC	\$8,637.17
	80	80.07	22	14.56	38060	213/5TC	3	362	KHN97-80/1-H-213/5TC	\$8,637.17
	100	101.37	17	11.50	38060	213/5TC	3	362	KHN97-100/1-H-213/5TC	\$8,637.17
	120	119.87	15	9.73	38060	213TC	3	362	KHN97-120/1-H-213TC	\$8,637.17

3

KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

Section 3: Helical Gear Reducers

KHN Series - Helical Bevel Gear Reducers



KHN Series - Helical Bevel Reducers: Mechanical Ratings

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	56C			143TC			145TC			182TC			184TC		
								HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
37	5	4.73	370	8.50	1310	56C	3	0.75	117	400												
	5	4.73	370	8.50	1310	143/5TC	3				1	156	395	2	312	375						
	7.5	7.96	220	6.00	1559	56C	3	0.75	197	465												
	7.5	7.96	220	6.00	1559	143/5TC	3				1	263	460	2	526	425						
	10	11.09	158	4.33	1565	56C	3	0.75	275	520												
	10	11.09	158	4.33	1565	143/5TC	3				1	367	510	2	733	475						
	15	15.32	114	3.14	1568	56C	3	0.75	380	575												
	15	15.32	114	3.14	1568	143/5TC	3				1	506	560	2	1013	510						
	25	23.10	76	2.20	1659	56C	3	0.75	573	635												
	25	23.10	76	2.20	1659	143/5TC	3				1	764	610	2	1528	505						
	30	32.19	54	1.66	1747	56C	3	0.75	798	705												
	30	32.19	54	1.66	1747	143TC	3				1	1065	680									
	40	37.97	46	1.43	1770	56C	3	0.75	942	735												
	40	37.97	46	1.43	1770	143TC	3				1	1256	705									
47	50	49.51	35	1.10	1770	56C	3	0.75	1228	785												
	60	59.67	29	0.91	1770	56C	3	0.75	1480	815												
	5	5.85	299	9.20	1757	145TC	3							2	387	505						
	5	5.85	299	9.20	1757	182/4TC	3										3	581	485	5	968	445
	7.5	7.11	246	8.08	1875	143/5TC	3							2	470	530						
	7.5	7.11	246	8.08	1875	182/4TC	3										3	706	510	5	1176	460
	10	9.95	176	6.46	2097	56C	3	0.75	247	620												
	10	9.95	176	6.46	2097	143/5TC	3				1	329	615	2	658	580						
	10	9.95	176	6.46	2097	182/4TC	3										3	987	550	5	1645	470
	15	16.99	103	4.52	2507	143/5TC	3							2	1123	660						
	15	16.99	103	4.52	2507	182TC	3										3	1685	600			
	20	20.65	85	3.97	2675	143/5TC	3							2	1365	690						
	20	20.65	85	3.97	2675	182TC	3										3	2048	610			
	30	28.88	61	3.17	2991	56C	3	0.75	716	855												
	30	28.88	61	3.17	2991	143/5TC	3				1	955	830	2	1910	730						
	40	41.36	42	2.50	3372	56C	3	0.75	1026	945												
	40	41.36	42	2.50	3372	143/5TC	3				1	1368	905	2	2735	750						
	50	47.08	37	2.21	3400	56C	3	0.75	1168	975												
	50	47.08	37	2.21	3400	143TC	3				1	1557	935	2	3114	745						
67	60	58.99	30	1.84	3540	56C	3	0.75	1463	1030												
	60	58.99	30	1.84	3540	143TC	3				1	1951	980									
	70	71.78	24	1.51	3540	56C	3	0.75	1780	1070												
	70	71.78	24	1.51	3540	143TC	3				1	2373	1000									
	85	86.89	20	1.42	3540	56C	3	0.75	2155	1110												
	10	9.66	181	12.06	3800	145TC	3							2	639	1500						
	10	9.66	181	12.06	3800	182/4TC	3										3	958	1410	5	1597	1240
	15	14.16	124	9.23	4265	56C	3	0.75	351	1770												
	15	14.16	124	9.23	4265	143/5TC	3				1	468	1740	2	936	1620						
	15	14.16	124	9.23	4265	182/4TC	3										3	1404	1500	5	2341	1250
	20	22.18	79	6.26	4530	145TC	3							1	1467	1760						
	20	22.18	79	6.26	4530	182/4TC	3										3	2201	1570	5	3668	1190
	30	30.90	57	5.34	5390	145TC	3							2	2043	1820						
	30	30.90	57	5.34	5390	182/4TC	3										3	3065	1550	5	5109	1010
	40	37.98	46	4.62	5730	56C	3	0.75	942	2140												
	40	37.98	46	4.62	5730	143/5TC	3				1	1256	2140	2	2512	1850						
	40	37.98	46	4.62	5730	182TC	3										3	3768	1510			
	45	46.33	38	4.02	6080	56C	3	0.75	1149	2140												
	45	46.33	38	4.02	6080	143/5TC	3				1	1532	2140	2	3064	1850						
	45	46.33	38	4.02	6080	182TC	3										3	4596	1450			
	65	64.97	27	2.95	6260	56C	3	0.75	1611	2140												
	65	64.97	27	2.95	6260	143/5TC	3				1	2148	2140	2	4297	1840						
	85	84.10	21	2.46	6760	56C	3	0.75	2086	2140												
	85	84.10	21	2.46	6760	143/5TC	3				1	2781	2140	2	5562	1750						
	110	108.03	16	2.06	7260	56C	3	0.75	2679	2140												
	110	108.03	16	2.06	7260	143TC	3				1	3572	2140									
	120	118.14	15	1.88	7260	56C	3	0.75	2930	2140												
	120	118.14	15	1.88	7260	143TC	3				1	3906	2140									

Continued On Next Page

KHN Series - Helical Bevel Reducers: Mechanical Ratings (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	56C			143TC			145TC			182TC			184TC		
								HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
77	7.5	8.40	208	27.05	7415	184TC	3													5	1389	1810
	7.5	8.40	208	27.05	7415	213/5TC	3													5	1646	1860
	10	9.96	176	24.02	7800	184TC	3															
	10	9.96	176	24.02	7800	213/5TC	3													5	2600	2030
	15	15.73	111	17.64	9050	184TC	3															
	15	15.73	111	17.64	9050	213/5TC	3													5	3347	2080
	20	20.24	86	14.78	9765	184TC	3															
	20	20.24	86	14.78	9765	213/5TC	3													5	5039	2020
	30	30.48	57	10.97	10915	184TC	3															
	30	30.48	57	10.97	10915	213/5TC	3													5	6574	2050
	40	39.76	44	9.21	11955	184TC	3															
	40	39.76	44	9.21	11955	213TC	3															
	50	51.18	34	7.72	12900	184TC	3													5	8461	1940
	60	57.05	31	7.16	13325	182/4TC	3										3	5660	2620	5	9433	1860
	65	64.06	27	6.56	13710	182/4TC	3										3	6355	2610	5	10591	1760
	80	78.07	22	5.38	13710	145TC	3							2	5163	3080						
	80	78.07	22	5.38	13710	182TC	3										3	7745	2570			
	100	100.66	17	4.18	13710	145TC	3							2	6657	3090						
	100	100.66	17	4.18	13710	182TC	3										3	9986	2450			
	120	122.94	14	3.42	8125	143TC	3				1	4065	3090									
87	7.5	8.27	212	49.53	13365	213/5TC	3															
	7.5	8.27	212	49.53	13365	254/6TC	3													5	1741	2660
	10	10.53	166	41.81	14370	184TC	3															
	10	10.53	166	41.81	14370	213/5TC	3															
	10	10.53	166	41.81	14370	254/6TC	3															
	15	15.66	112	31.67	16185	213/5TC	3															
	15	15.66	112	31.67	16185	254/6TC	3															
	20	20.90	84	25.88	17650	213/5TC	3															
	20	20.90	84	25.88	17650	254/6TC	3															
	30	28.30	62	20.93	19330	184TC	3													5	4679	3200
	30	28.30	62	20.93	19330	213/5TC	3															
	30	28.30	62	20.93	19330	254/6TC	3															
	40	43.31	40	14.76	20870	184TC	3													5	7161	3450
	40	43.31	40	14.76	20870	213/5TC	3															
	50	50.45	35	13.04	21470	184TC	3													5	8342	3490
	50	50.45	35	13.04	21470	213/5TC	3															
	60	61.42	28	11.11	22270	184TC	3													5	10154	3510
	60	61.42	28	11.11	22270	213/5TC	3															
	70	72.35	24	9.73	22970	184TC	3													5	11961	3500
	70	72.35	24	9.73	22970	213TC	3															
	80	82.86	21	8.72	23570	182/4TC	3										3	8220	4260	5	13700	3470
	110	108.00	16	6.78	23900	182TC	3										3	10714	4350			
	120	117.56	15	6.23	23900	182TC	3										3	11662	4370			
97	7.5	8.31	211	81.48	22095	254/6TC	3															
	7.5	8.31	211	81.48	22095	284/6TC	3															
	10	10.16	172	70.80	23465	213/5TC	3															
	10	10.16	172	70.80	23465	254/6TC	3															
	10	10.16	172	70.80	23465	284/6TC	3															
	15	14.11	124	64.78	29820	213/5TC	3															
	15	14.11	124	64.78	29820	254/6TC	3															
	15	14.11	124	64.78	29820	284/6TC	3															
	20	21.33	82	48.50	33760	213/5TC	3															
	20	21.33	82	48.50	33760	254/6TC	3															
	20	21.33	82	48.50	33760	284/6TC	3															
	30	31.19	56	28.65	29165	254/6TC	3															
	30	31.19	56	28.65	29165	284/6TC	3															
	40	38.12	46	23.33	29030	213/5TC	3															
	40	38.12	46	23.33	29030	254/6TC	3															
	50	47.16	37	18.78	28910	213/5TC	3															
	50	47.16	37	18.78	28910	254/6TC	3															
	65	64.72	27	18.02	38060	213/5TC	3															
	65	64.72	27	18.02	38060	254TC	3															
	70	71.78	24	16.24	38060	213/5TC	3															
	80	80.07	22	14.56	38060	213/5TC	3															
	100	101.37	17	11.50	38060	213/5TC	3															
	120	119.87	15	9.73	38060	213TC	3															

Continued On Next Page

Section 3: Helical Gear Reducers

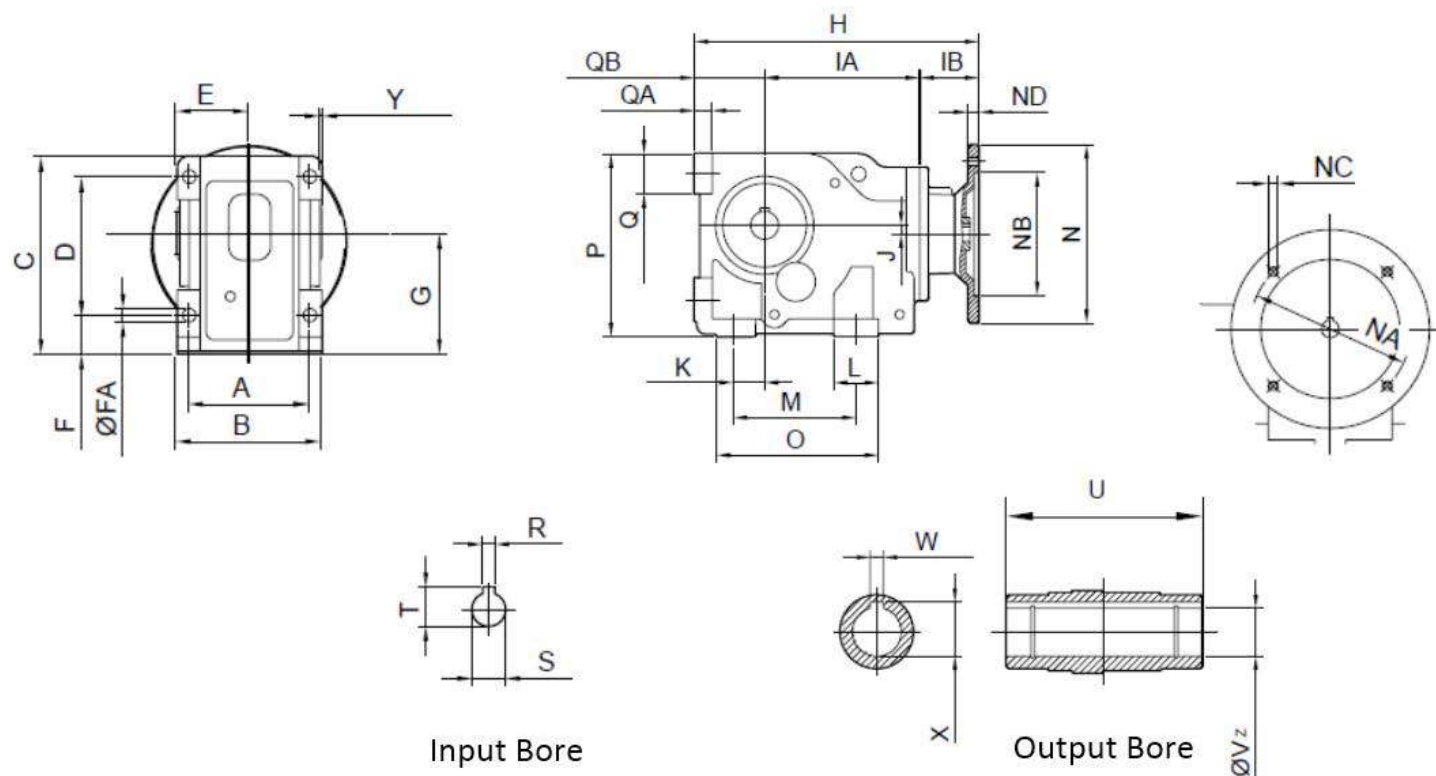
KHN Series - Helical Bevel Gear Reducers



KHN Series - Helical Bevel Reducers: Mechanical Ratings (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	213TC			215TC			254TC			256TC			284TC			286TC		
								HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
77	7.5	8.40	208	27.05	7415	184TC	3																		
	7.5	8.40	208	27.05	7415	213/5TC	3	7.5	2084	1660	10	2778	1510												
	10	9.96	176	24.02	7800	184TC	3																		
	10	9.96	176	24.02	7800	213/5TC	3	7.5	2469	1690	10	3292	1510												
	15	15.73	111	17.64	9050	184TC	3																		
	15	15.73	111	17.64	9050	213/5TC	3	7.5	3900	1760	10	5200	1510												
	20	20.24	86	14.78	9765	184TC	3																		
	20	20.24	86	14.78	9765	213/5TC	3	7.5	5020	1740	10	6694	1410												
	30	30.48	57	10.97	10915	184TC	3																		
	30	30.48	57	10.97	10915	213/5TC	3	7.5	7559	1470	10	10079	925												
	40	39.76	44	9.21	11955	184TC	3																		
	40	39.76	44	9.21	11955	213TC	3	7.5	9861	1390															
	50	51.18	34	7.72	12900	184TC	3																		
	60	57.05	31	7.16	13325	182/4TC	3																		
	65	64.06	27	6.56	13710	182/4TC	3																		
	80	78.07	22	5.38	13710	145TC	3																		
	80	78.07	22	5.38	13710	182TC	3																		
	100	100.66	17	4.18	13710	145TC	3																		
100	100.66	17	4.18	13710	182TC	3																			
120	122.94	14	3.42	8125	143TC	3																			
87	7.5	8.27	212	49.53	13365	213/5TC	3	7.5	2050	2400	10	2734	2290	15	4100	2070	20	5467	1850						
	7.5	8.27	212	49.53	13365	254/6TC	3																		
	10	10.53	166	41.81	14370	184TC	3							15	5224	2100	20	6965	1820						
	10	10.53	166	41.81	14370	213/5TC	3	7.5	2612	2520	10	3483	2380	15	5224	2100	20	6965	1820						
	10	10.53	166	41.81	14370	254/6TC	3							15	5224	2100	20	6965	1820						
	15	15.66	112	31.67	16185	213/5TC	3	7.5	3885	2690	10	5179	2480	15	7769	2060	20	10359	1640						
	15	15.66	112	31.67	16185	254/6TC	3							15	7769	2060	20	10359	1640						
	20	20.90	84	25.88	17650	213/5TC	3	7.5	5183	2780	10	6911	2500	15	10367	1940	20	13822	1390						
	20	20.90	84	25.88	17650	254/6TC	3							15	10367	1940	20	13822	1390						
	30	28.30	62	20.93	19330	184TC	3							15	10367	1940	20	13822	1390						
	30	28.30	62	20.93	19330	213/5TC	3	7.5	7019	2820	10	9359	2450	15	14038	1700	20	18717	940						
	30	28.30	62	20.93	19330	254/6TC	3							15	14038	1700	20	18717	940						
	40	43.31	40	14.76	20870	184TC	3																		
	40	43.31	40	14.76	20870	213/5TC	3	7.5	10742	2930	10	14322	2410												
	50	50.45	35	13.04	21470	184TC	3																		
	50	50.45	35	13.04	21470	213/5TC	3	7.5	12512	2890	10	16683	2280												
	60	61.42	28	11.11	22270	184TC	3																		
	60	61.42	28	11.11	22270	213/5TC	3	7.5	15232	2780	10	20309	2040												
	70	72.35	24	9.73	22970	184TC	3																		
	70	72.35	24	9.73	22970	213TC	3	7.5	17942	2640															
80	82.86	21	8.72	23570	182/4TC	3																			
110	108.00	16	6.78	23900	182TC	3																			
120	117.56	15	6.23	23900	182TC	3																			
97	7.5	8.31	211	81.48	22095	254/6TC	3							15	4121	5190	20	5495	5010	25	6869	4820	30	8243	4630
	7.5	8.31	211	81.48	22095	284/6TC	3																		
	10	10.16	172	70.80	23465	213/5TC	3	7.5	2519	5770	10	3358	5660	15	5037	5420	20	6716	5200	25	8395	4970	30	10074	4740
	10	10.16	172	70.80	23465	254/6TC	3							15	5037	5420	20	6716	5200	25	8395	4970	30	10074	4740
	10	10.16	172	70.80	23465	284/6TC	3																		
	15	14.11	124	64.78	29820	213/5TC	3	7.5	3498	6320	10	4665	6180	15	6997	5900	20	9329	5620	25	11661	5350	30	13994	5070
	15	14.11	124	64.78	29820	254/6TC	3							15	6997	5900	20	9329	5620	25	11661	5350	30	13994	5070
	15	14.11	124	64.78	29820	284/6TC	3																		
	20	21.33	82	48.50	33760	213/5TC	3	7.5	5290	7000	10	7053	6790	15	10579	6360	20	14106	5940	25	17632	5520	30	21159	5100
	20	21.33	82	48.50	33760	254/6TC	3							15	10579	6360	20	14106	5940	25	17632	5520	30	21159	5100
	20	21.33	82	48.50	33760	284/6TC	3							15	10579	6360	20	14106	5940	25	17632	5520	30	21159	5100
	30	31.19	56	28.65	29165	254/6TC	3							15	15472	6450	20	20629	5760	25	25786	5060			
	30	31.19	56	28.65	29165	284/6TC	3																		
	40	38.12	46	23.33	29030	213/5TC	3	7.5	9455	7800	10	12606	7370	15	18910	6520	20	25213	5670						
	40	38.12	46	23.33	29030	254/6TC	3							15	18910	6520	20	25213	5670						
	50	47.16	37	18.78	28910	213/5TC	3	7.5	11696	8100	10	15595	7570	15	23393	6510	20	31191	5460						
	50	47.16	37	18.78	28910	254/6TC	3							15	23393	6510	20	31191	5460						
	65	64.72	27	18.02	38060	213/5TC	3	7.5	16052	8550	10	21402	8090	15	32103	6810									
	65	64.72	27	18.02	38060	254TC	3																		
	70	71.78	24	16.24	38060	213/5TC	3	7.5	17803	8550	10	23737	8140												
80	80.07	22	14.56	38060	213/5TC	3	7.5	19857	8550	10	26477	8180													
100	101.37	17	11.50	38060	213/5TC	3	7.5	25141	8550	10	33521	8170													
120	119.87	15	9.73	38060	213TC	3	7.5	29729	8550																

KHN Series - Helical Bevel Reducers: Dimensions

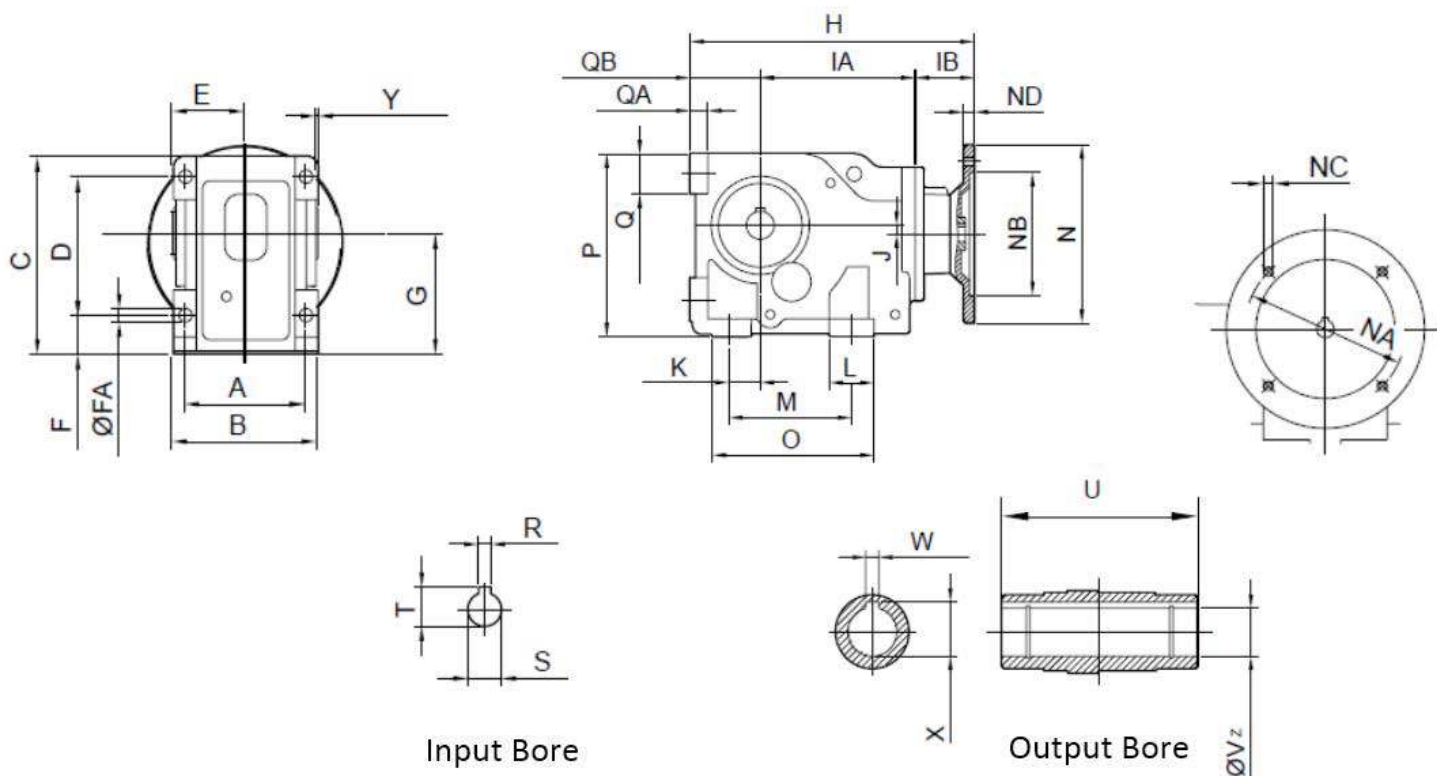


All listed dimensions in inches																		
Box Size	NEMA Frame	A	B	C	D	E	F	FA	G	H	IA	IB	J	K	L	M	O	P
37	56C	3.94	4.72	6.46	4.53	2.36	1.26	0.43	3.94	10.35	5.47	2.40	0.31	1.10	1.57	4.33	5.71	6.46
	143/5TC	3.94	4.72	6.46	4.53	2.36	1.26	0.43	3.94	10.75	5.47	2.80	0.31	1.10	1.57	4.33	5.71	6.46
47	56C	4.72	5.71	7.32	5.12	2.85	1.46	0.43	4.41	10.35	6.54	2.40	0.20	1.38	1.50	5.12	6.65	7.32
	143/5TC	4.72	5.71	7.32	5.12	2.85	1.46	0.43	4.41	10.75	6.54	2.80	0.20	1.38	1.50	5.12	6.65	7.32
	182/4TC	4.72	5.71	7.32	5.12	2.85	1.46	0.43	4.41	12.68	6.54	3.35	0.20	1.38	1.50	5.12	6.65	7.32
67	56C	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	12.74	7.05	2.15	0.75	1.18	1.77	4.72	6.69	8.98
	143/5TC	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	13.13	7.05	2.54	0.75	1.18	1.77	4.72	6.69	8.98
	182/4TC	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	13.23	7.05	3.27	0.75	1.18	1.77	4.72	6.69	8.98
77	143/5TC	6.50	7.87	11.54	7.87	3.94	2.17	0.69	7.09	14.69	7.95	2.32	1.47	1.57	2.56	5.91	8.66	11.54
	182/4TC	6.50	7.87	11.54	7.87	3.94	2.17	0.69	7.09	15.41	7.95	3.05	1.47	1.57	2.56	5.91	8.66	11.54
	213/5TC	6.50	7.87	11.54	7.87	3.94	2.17	0.69	7.09	17.68	7.95	5.31	1.47	1.57	2.56	5.91	8.66	11.54
87	182/4TC	7.09	8.82	13.99	9.17	4.41	2.76	0.87	8.34	15.41	10.12	2.68	1.24	2.17	3.39	7.09	11.02	13.39
	213/5TC	7.09	8.82	13.99	9.17	4.41	2.76	0.87	8.34	17.68	10.12	4.94	1.24	2.17	3.39	7.09	11.02	13.39
	254/6TC	7.09	8.82	13.99	9.17	4.41	2.76	0.87	8.34	21.24	10.12	5.93	1.24	2.17	3.39	7.09	11.02	13.39
97	213/5TC	9.45	11.42	16.42	11.61	5.71	2.95	1.02	10.43	21.83	10.91	4.63	1.82	2.95	2.99	9.45	12.20	16.42
	254/6TC	9.45	11.42	16.42	11.61	5.71	2.95	1.02	10.43	22.81	10.91	5.61	1.82	2.95	2.99	9.45	12.20	16.42
	284/6TC	9.45	11.42	16.42	11.61	5.71	2.95	1.02	10.43	23.17	10.91	5.96	1.82	2.95	2.99	9.45	12.20	16.42

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

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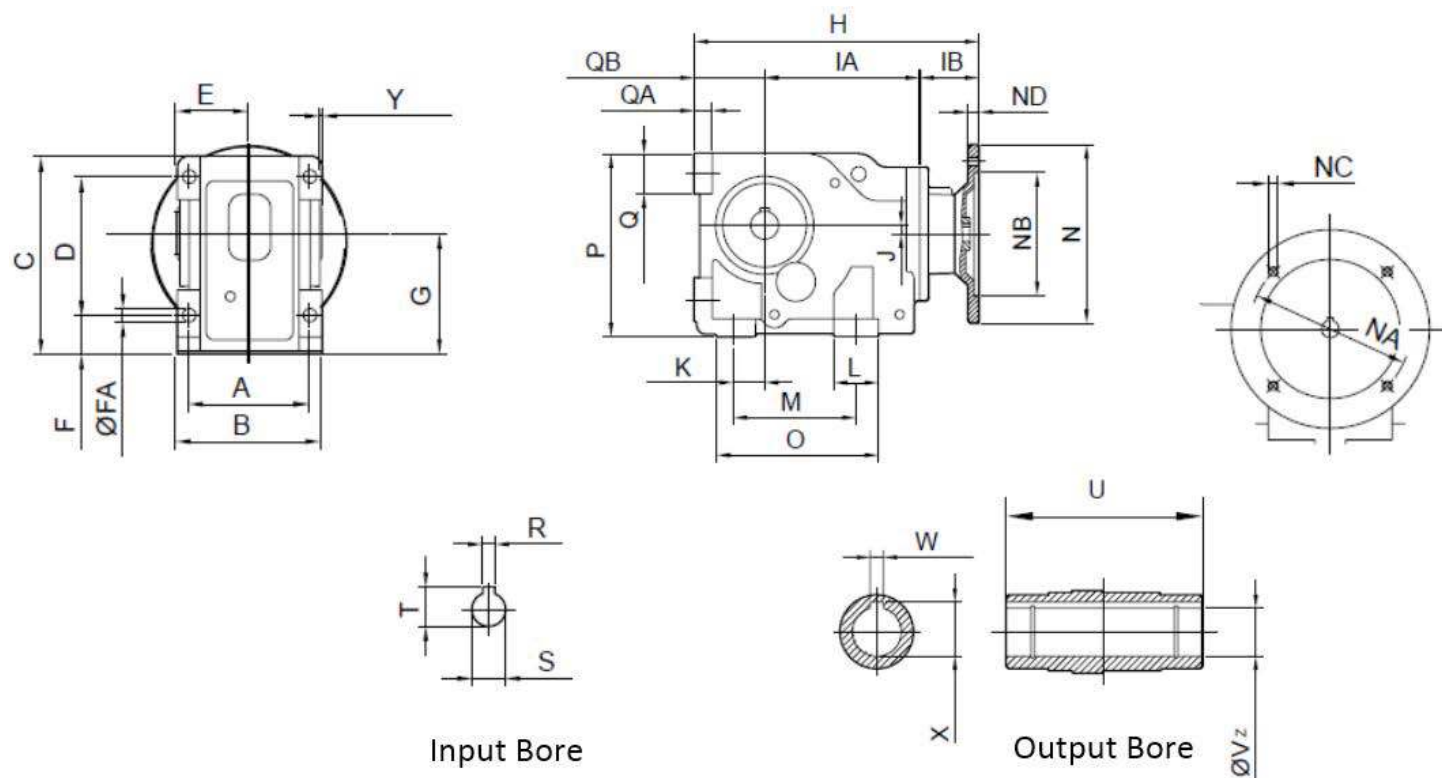
KHN Series - Helical Bevel Reducers: Dimensions (cont.)



All listed dimensions in inches																		
Box Size	NEMA Frame	Q	QA	QB	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)					BORE TOLERANCE
					N	NA	NB	NC	ND	R	S	T	U	V	W	X	Y	
37	56C	1.42	0.63	2.48	6.50	5.875	4.50	4 x 0.41	0.39	0.188	0.625	0.71	4.72	1.250	0.25	1.37	0.08	+ .0010 / -0.0
	143/5TC	1.42	0.63	2.48	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.97	4.72	1.250	0.25	1.37	0.08	+ .0010 / -0.0
47	56C	1.34	0.71	2.80	6.50	5.875	4.50	4 x 0.41	0.39	0.188	0.625	0.71	5.90	1.375	0.31	1.52	0.10	+ .0010 / -0.0
	143/5TC	1.34	0.71	2.80	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.97	5.90	1.375	0.31	1.52	0.10	+ .0010 / -0.0
	182/4TC	1.34	0.71	2.80	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	5.90	1.375	0.31	1.52	0.10	+ .0010 / -0.0
67	56C	2.13	0.94	3.54	6.50	5.875	4.50	4 x 0.41	0.39	0.188	0.625	0.71	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
	143/5TC	2.13	0.94	3.54	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.96	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
	182/4TC	2.13	0.94	3.54	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
77	143/5TC	2.36	1.06	4.41	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.96	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
	182/4TC	2.36	1.06	4.41	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
	213/5TC	2.36	1.06	4.41	9.00	7.250	8.50	4 x 0.55	0.67	0.312	1.375	1.52	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
87	182/4TC	3.46	1.26	5.20	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
	213/5TC	3.46	1.26	5.20	9.00	7.250	8.50	4 x 0.55	0.67	0.312	1.375	1.52	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
	254/6TC	3.46	1.26	5.20	10.00	7.250	8.50	4 x 0.55	0.79	0.375	1.625	1.80	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
97	213/5TC	3.39	1.42	6.30	9.00	7.250	8.50	4 x 0.55	0.67	0.312	1.375	1.52	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0
	254/6TC	3.39	1.42	6.30	10.00	7.250	8.50	4 x 0.55	0.79	0.375	1.625	1.80	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0
	284/6TC	3.39	1.42	6.30	11.26	9.000	10.50	4 x 0.59	0.79	0.500	1.875	2.10	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

KHN Series - Helical Bevel Reducers: Competitor Dimensional Comparison - SEW Eurodrive

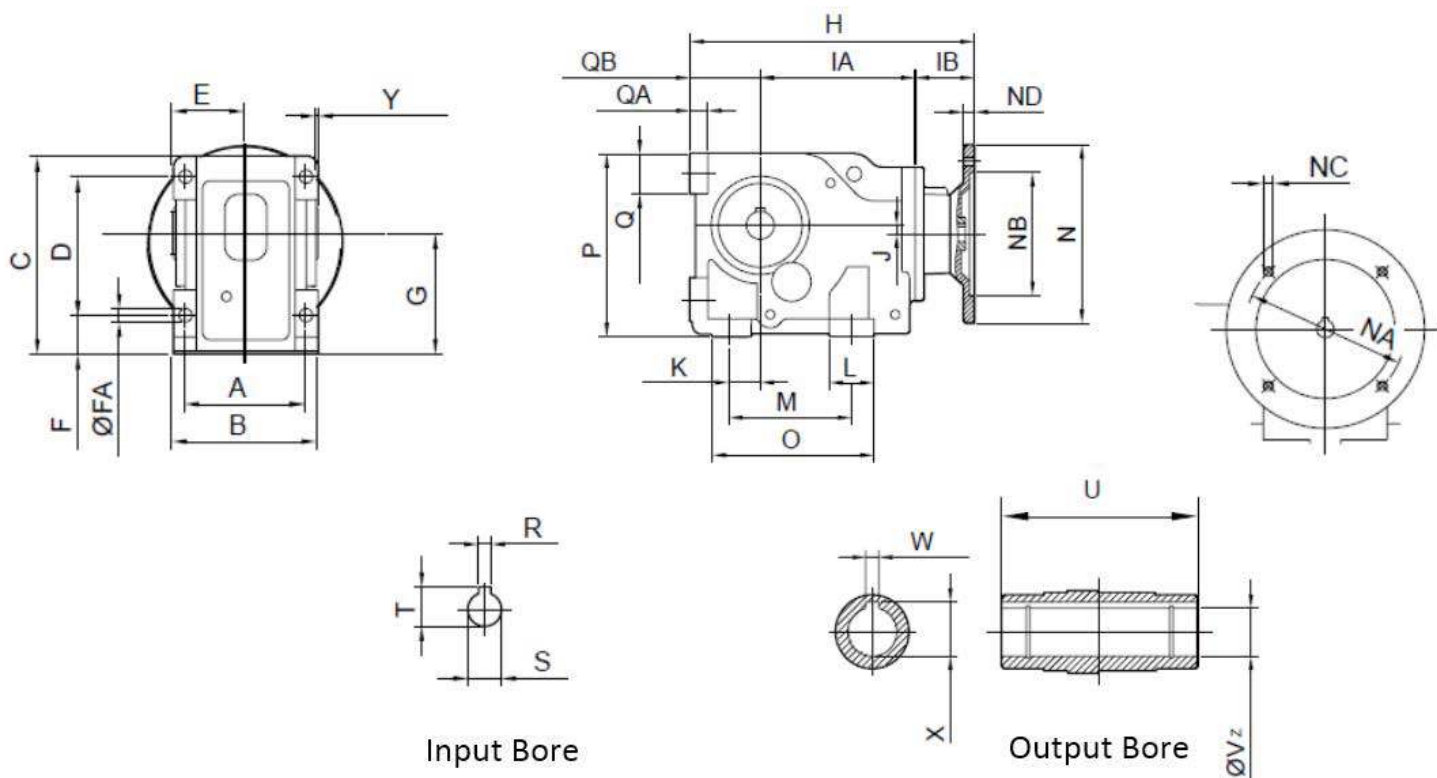


All listed dimensions in inches																		
Box Size	NEMA Frame	A	B	C	D	E	F	FA	G	H	IA	IB	J	K	L	M	O	P
37	56C	3.94	4.72	6.50	4.53	2.36	1.26	0.43	3.94	11.63	5.47	3.68	0.33	1.10	1.50	4.33	5.63	6.50
	143/5TC	3.94	4.72	6.50	4.53	2.36	1.26	0.43	3.94	12.56	5.47	4.61	0.33	1.10	1.50	4.33	5.63	6.50
47	56C	4.72	5.71	7.28	5.12	2.83	1.46	0.43	4.41	12.77	6.54	3.43	0.28	1.38	1.26	5.12	6.38	7.28
	143/5TC	4.72	5.71	7.28	5.12	2.83	1.46	0.43	4.41	13.69	6.54	4.35	0.28	1.38	1.26	5.12	6.38	7.28
	182/4TC	4.72	5.71	7.28	5.12	2.83	1.46	0.43	4.41	15.15	6.54	5.81	0.28	1.38	1.26	5.12	6.38	7.28
67	56C	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	14.02	7.05	3.43	0.79	1.18	1.77	4.72	6.69	8.98
	143/5TC	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	14.94	7.05	4.35	0.79	1.18	1.77	4.72	6.69	8.98
	182/4TC	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	16.40	7.05	5.81	0.79	1.18	1.77	4.72	6.69	8.98
77	143/5TC	6.50	7.87	11.34	7.87	3.98	2.17	0.69	7.09	16.43	7.95	4.07	1.23	1.57	2.17	5.91	8.19	11.34
	182/4TC	6.50	7.87	11.34	7.87	3.98	2.17	0.69	7.09	17.85	7.95	5.49	1.23	1.57	2.17	5.91	8.19	11.34
	213/5TC	6.50	7.87	11.34	7.87	3.98	2.17	0.69	7.09	19.78	7.95	7.42	1.23	1.57	2.17	5.91	8.19	11.34
	182/4TC	7.09	9.06	13.39	9.17	4.57	2.76	0.87	8.35	20.62	10.12	5.30	1.02	2.17	2.95	7.09	10.24	13.39
87	213/5TC	7.09	9.06	13.39	9.17	4.57	2.76	0.87	8.35	22.54	10.12	7.22	1.02	2.17	2.95	7.09	10.24	13.39
	254/6TC	7.09	9.06	13.39	9.17	4.57	2.76	0.87	8.35	24.53	10.12	9.21	1.02	2.17	2.95	7.09	10.24	13.39
	213/5TC	9.45	11.41	16.42	11.61	5.75	2.95	1.02	10.43	24.24	10.91	7.03	1.27	2.95	2.36	9.45	11.57	16.42
97	254/6TC	9.45	11.41	16.42	11.61	5.75	2.95	1.02	10.43	26.23	10.91	9.02	1.27	2.95	2.36	9.45	11.57	16.42
	284/6TC	9.45	11.41	16.42	11.61	5.75	2.95	1.02	10.43	26.50	10.91	9.29	1.27	2.95	2.36	9.45	11.57	16.42

SEW Eurodrive dimensional data was derived from their Catalog 9PD0016/0300.
Shaded cells indicate a dimensional difference. All dimensions are in inches.

Continued On Next Page

KHN Series - Helical Bevel Reducers: Competitor Dimensional Comparison - SEW Eurodrive (cont.)



All listed dimensions in inches																		
Box Size	NEMA Frame	Q	QA	QB	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)					BORE TOLERANCE
					N	NA	NB	NC	ND	R	S	T	U	V	W	X	Y	
37	56C	1.42	0.63	2.48	6.69	5.875	4.50	4 x 0.41	0.43	0.188	0.625	0.71	4.72	1.250	0.25	1.37	0.10	+ .0010 / -0.0
	143/5TC	1.42	0.63	2.48	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	4.72	1.250	0.25	1.37	0.10	+ .0010 / -0.0
47	56C	1.34	0.71	2.80	6.69	5.875	4.50	4 x 0.41	0.43	0.188	0.625	0.71	5.90	1.375	0.31	1.52	0.12	+ .0010 / -0.0
	143/5TC	1.34	0.71	2.80	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	5.90	1.375	0.31	1.52	0.12	+ .0010 / -0.0
	182/4TC	1.34	0.71	2.80	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	5.90	1.375	0.31	1.52	0.12	+ .0010 / -0.0
67	56C	2.13	0.94	3.54	6.69	5.875	4.50	4 x 0.41	0.43	0.188	0.625	0.71	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
	143/5TC	2.13	0.94	3.54	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
	182/4TC	2.13	0.94	3.54	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
	143/5TC	2.36	1.06	4.41	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
77	182/4TC	2.36	1.06	4.41	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
	213/5TC	2.36	1.06	4.41	8.98	7.250	8.50	4 x 0.59	0.63	0.312	1.375	1.52	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
	182/4TC	3.46	1.26	5.20	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
87	213/5TC	3.46	1.26	5.20	8.98	7.250	8.50	4 x 0.59	0.63	0.312	1.375	1.52	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
	254/6TC	3.46	1.26	5.20	8.98	7.250	8.50	4 x 0.59	0.67	0.375	1.625	1.80	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
	213/5TC	3.39	1.42	6.30	8.98	7.250	8.50	4 x 0.59	0.63	0.312	1.375	1.52	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0
97	254/6TC	3.39	1.42	6.30	8.98	7.250	8.50	4 x 0.59	0.67	0.375	1.625	1.80	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0
	284/6TC	3.39	1.42	6.30	11.26	9.000	10.50	4 x 0.59	0.79	0.500	1.875	2.10	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0

SEW Eurodrive dimensional data was derived from their Catalog 9PD0016/0300.
Shaded cells indicate a dimensional difference. All dimensions are in inches.

KHN Series - Helical Bevel Reducers: Shaft Kits

Single Output Shafts

KHN shaft kits are for mounting into WorldWide Electric KHN Series hollow bore reducers for the purpose of turning a hollow bore output unit to a shaft output unit.

» Kit includes single output shaft, key, endplate and bolt.

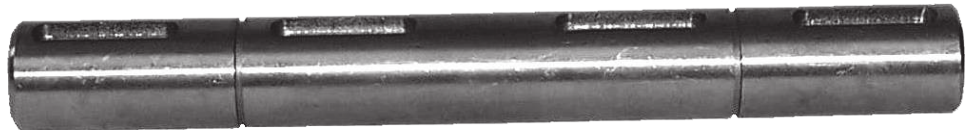


Box Size	Shaft Diameter (Inches)	Shaft Length (Inches)	Model Number	List Price
37	1.25	6.852	KHN37-OPS-S	\$38.72
47	1.375	8.423	KHN47-OPS-S	\$54.20
67	1.5	10.433	KHN67-OPS-S	\$116.15
77	2	12.444	KHN77-OPS-S	\$151.55
87	2.375	14.405	KHN87-OPS-S	\$232.30
97	2.75	17.597	KHN97-OPS-S	\$357.30

Double Output Shafts

KHN shaft kits are for mounting into WorldWide Electric KHN Series hollow bore reducers for the purpose of turning a hollow bore output unit to a shaft output unit.

» Kit includes double output shaft, key, retaining ring and C-clips.



Box Size	Shaft Diameter (Inches)	Shaft Length (Inches)	Model Number	List Price
37	1.25	9.137	KHN37-OPS-DS	\$75.22
47	1.375	11.098	KHN47-OPS-DS	\$109.51
67	1.5	13.938	KHN67-OPS-DS	\$235.62
77	2	16.778	KHN77-OPS-DS	\$305.31
87	2.375	19.519	KHN87-OPS-DS	\$466.81
97	2.75	23.54	KHN97-OPS-DS	\$725.66

How To Read A.G.M.A. Service Factors Table

- » The ratings for gear drives in this manual are based on a service factor of 1.00, for uniform load and uniform power source, up to 10 hours of operation per day. For other operating conditions, the application horsepower or torque must be multiplied by the appropriate service factor, to determine the equivalent gear drive power rating. A gear drive should be selected with a rated capacity equal to or greater than the equivalent rating. A condensed service factor chart is located in the selection information pages for each type of gear drive or reducer.
- » A.G.M.A. Service Factors for Worm and Helical Worm Reducers are listed on pages 56-57.
- » Table 1 indicates the relationship between service factors and load classification numbers.
- » A.G.M.A. service factors are based on a uniform power source. If other power sources are used, the service factors must be converted using Table 2. Determine the required service factor with uniform power source. Locate that service factor in the first column and read straight across to obtain required service factor with multi-cylinder or single cylinder engines.
- » Service factors do not need to be used with thermal ratings.
- » Service Factor charts are for general guidelines in determining required service factors. Past experience may indicate that different service factors are required. Consult the factory for unusual or severe applications, or when there are any safety considerations.

Load Class (S.F.)	Up to 3 Hours Total Operation Per Day	3 to 10 Hours Total Operation Per Day	Over 10 Hours Total Operation Per Day
I (1.0)	Moderate Shock Load	Uniform Load	---
II (1.4)	Heavy Shock Load	Moderate Shock Load	Uniform Load
III (2.0)	---	Heavy Shock Load	Moderate Shock Load

Steam or Gas Turbine Hydraulic or Electric Motor	Multi-Cylinder Engine	Single Cylinder Engine
1.00	1.25	1.50
1.25	1.50	1.75
1.50	1.75	2.00
1.75	2.00	2.25
2.00	2.25	2.50
2.50	2.75	3.00
3.00	3.25	3.50

A.G.M.A. Service Factors: Worm Gear Reducers & Gearmotors

Application	Total Operation			Application	Total Operation			Application	Total Operation		
	< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day
Agitators (mixers)				Cranes				Extruders			
Pure liquids	---	1.00	1.25	Dry dock				General	1.25	1.25	1.25
Liquids and solids	1.00	1.25	1.50	Main hoist	1.25	1.50	1.75	Plastics			
Liquids-variable density	1.00	1.25	1.50	Auxiliary hoist	1.25	1.50	1.75	Variable speed drive	1.50	1.50	1.50
Blowers				Boom hoist	1.25	1.50	1.75	Fixed speed drive	1.75	1.75	1.75
Centrifugal	---	1.00	1.25	Slewing drive	1.25	1.50	1.75	Rubber			
Lobe	1.00	1.25	1.50	Traction drive	1.50	1.50	1.50	Continuous screw operation	1.50	1.50	1.50
Vane	---	1.00	1.25	Container				Intermittent screw operation	1.75	1.75	1.75
Brewing and distilling				Main hoist	---	---	---	Fans			
Bottling machinery	---	1.00	1.25	Boom hoist	---	---	---	Centrifugal	---	1.00	1.25
Brew kettles-continuous duty	---	1.00	1.25	Trolley drive, Gantry drive	---	---	---	Cooling towers	---	---	---
Cookers-continuous duty	---	1.00	1.25	Trolley drive, Traction drive	---	---	---	Forced draft	1.25	1.25	1.25
Mash tubs-continuous duty	---	1.00	1.25	Mill duty				Induced draft	1.00	1.25	1.50
Scale hopper-frequent starts	1.00	1.25	1.50	Main hoist	---	---	---	Industrial and mine	1.00	1.25	1.50
Can filling machines	---	1.00	1.25	Auxiliary	---	---	---	Feeders			
Car dumpers	1.25	1.50	1.75	Bridge	---	---	---	Apron	---	1.25	1.50
Car pullers	1.00	1.25	1.50	Trolley travel	---	---	---	Belt	1.00	1.25	1.50
Clarifiers	---	1.00	1.25	Industrial duty				Disc	---	1.00	1.25
Classifiers	1.00	1.25	1.50	Main	---	---	---	Reciprocating	1.25	1.50	1.75
Clay working machinery				Auxiliary	---	---	---	Screw	1.00	1.25	1.50
Brick press	1.25	1.50	1.75	Bridge	---	---	---	Food industry			
Briquette machine	1.25	1.50	1.75	Trolley travel	---	---	---	Cereal cooker	---	1.00	1.25
Pug mill	1.00	1.25	1.50	Crushers				Dough mixer	1.00	1.25	1.50
Compactors	1.50	1.75	2.00	Stone or ore	1.50	1.75	2.00	Meat grinders	1.00	1.25	1.50
Compressors				Dredges				Slicers	1.00	1.25	1.50
Centrifugal	---	1.00	1.25	Cable reels	1.00	1.25	1.50	Generators and exciters	---	1.00	1.25
Lobe	1.00	1.25	1.50	Conveyors	1.00	1.25	1.50	Hammer mills	1.50	1.50	1.75
Reciprocating, multi-cylinder	1.00	1.25	1.50	Cutter head drives	1.25	1.50	1.75	Hoists			
Reciprocating, single-cylinder	1.25	1.50	1.75	Pumps	1.00	1.25	1.50	Heavy duty	1.25	1.50	1.75
Conveyors-general purpose				Screen drives	1.25	1.50	1.75	Medium duty	1.00	1.25	1.50
Uniformly loaded or fed	---	1.00	1.25	Stackers	1.00	1.25	1.50	Skip hoist	1.00	1.25	1.50
Not uniformly fed	1.00	1.25	1.50	Winches	1.00	1.25	1.50	Laundry			
Reciprocating or shaker	1.25	1.50	1.75	Elevators				Tumblers	1.00	1.25	1.50
				Bucket	1.00	1.25	1.50	Washers	1.25	1.25	1.50
				Centrifugal discharge	---	1.00	1.25				
				Escalators	---	---	---				
				Freight	---	---	---				
				Gravity discharge	---	1.00	1.25				

A.G.M.A. Service Factors: Worm Gear Reducers & Gearmotors (cont.)

Application	Total Operation			Application	Total Operation			Application	Total Operation		
	< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day
Lumber industry				Paper mills				Pumps			
Barkers-spindle feed	1.25	1.25	1.50	Agitator (mixer)	1.50	1.50	1.50	Centrifugal	---	1.00	1.25
Main drive	1.50	1.50	1.50	Agitator for pure liquors	1.25	1.25	1.25	Proportioning	1.00	1.25	1.50
Conveyors-burner	1.25	1.25	1.50	Barking drums	1.75	1.75	1.75	Reciprocating	1.00	1.25	1.50
Main or heavy duty	1.50	1.50	1.50	Barkers - mechanical	1.75	1.75	1.75	Single acting, 3 or more	1.00	1.25	1.50
Main log	1.50	1.50	1.75	Beater	1.50	1.50	1.50	cylinders	1.00	1.25	1.50
Re-saw, merry-go-round	1.25	1.25	1.50	Breaker stack	1.25	1.25	1.25	Double acting, 2 or more	1.00	1.25	1.50
Conveyors				Calender 2)	1.25	1.25	1.25	cylinders	---	1.00	1.50
Slab	1.50	1.50	1.75	Chipper	1.75	1.75	1.75	Rotary	---	1.00	1.50
Transfer	1.25	1.25	1.50	Chip feeder	1.50	1.50	1.50	Gear type	---	1.00	1.25
Chains				Coating rolls	1.25	1.25	1.25	Lobe	---	1.00	1.25
Floor	1.50	1.50	1.50	Conveyors				Vane	---	1.00	1.25
Green	1.50	1.50	1.50	Chip, bark, chemical	1.25	1.25	1.25	Rubber industry			
Cut-off saws				Log (including slab)	1.75	1.75	1.75	Intensive internal mixers			
Chain	1.50	1.50	1.50	Couch rolls	1.25	1.25	1.25	Batch mixers	1.50	1.70	1.75
Drag	1.50	1.50	1.50	Cutter	1.75	1.75	1.75	Continuous mixers	1.25	1.50	1.50
Debarking drums	1.50	1.50	1.75	Cylinder molds	1.25	1.25	1.25	Mixing mill - 2 smooth rolls (if			
Feeds				Dryers 2)				corrugated rolls are used, then			
Edger	1.25	1.25	1.50	Paper machine	1.25	1.25	1.25	use the same service factors			
Gang	1.50	1.50	1.50	Conveyor type	1.25	1.25	1.25	that are used for a cracker warmer)	1.50	1.50	1.50
Trimmer	1.25	1.25	1.50	Embosses	1.25	1.25	1.25	Batch drop mill - 2 smooth rolls	1.50	1.50	1.50
Log deck	1.50	1.50	1.50	Extruder	1.50	1.50	1.50	Cracker warmer-2 rolls; 1 corrugated roll	1.75	1.75	1.75
Log hauls-incline-well type	1.50	1.50	1.50	Fourdrinier rolls	1.25	1.25	1.25	Cracker - 2 corrugated rolls	1.75	1.75	1.75
Log turning devices	1.50	1.50	1.50	(includes lump breaker, dandy				Holding, feed & blend mill - 2 rolls	1.25	1.25	1.25
Planer feed	1.25	1.25	1.50	roll, wire turning, and return rolls)				Refiner - 2 rolls	1.50	1.50	1.50
Planer tilting hoists	1.50	1.50	1.50	Jordan	1.25	1.25	1.25	Calenders	1.50	1.50	1.50
Rolls-live-off bearing-roll cases	1.50	1.50	1.50	Kiln drive	1.50	1.50	1.50	Sand muller	1.00	1.25	1.50
Sorting table	1.25	1.50	1.50	Mt. Hope roll	1.25	1.25	1.25	Sewage disposal equipment			
Tipple hoist	1.25	1.25	1.50	Paper rolls	1.25	1.25	1.25	Bar screens	---	1.00	1.25
Transfers				Platter	1.50	1.50	1.50	Chemical feeders	1.00	1.00	1.25
Chain	1.50	1.50	1.50	Presses - felt & suction	1.25	1.25	1.25	Dewatering screens	1.00	1.25	1.50
Craneway	1.50	1.50	1.50	Pulper	1.50	1.50	1.75	Scum breakers	1.00	1.25	1.50
Tray drives	1.25	1.25	1.50	Pumps - vacuum	1.50	1.50	1.50	Slow or rapid mixers	1.00	1.25	1.50
Veneer lathe drives	---	---	---	Reel (surface type)	1.25	1.25	1.50	Sludge collectors	1.00	1.00	1.25
Metal mills				Screens				Thickeners	1.00	1.25	1.50
Draw bench carriage and main drive	1.00	1.25	1.50	Chip	1.50	1.50	1.50	Vacuum filters	1.00	1.25	1.50
Runout table				Rotary	1.50	1.50	1.50	Screens			
Non-reversing, Group drives	1.00	1.25	1.50	Vibrating	1.75	1.75	1.75	Air washing	---	1.00	1.25
Non-reversing, Individual drives	1.50	1.50	1.75	Size press	1.25	1.25	1.25	Rotary - stone or gravel	1.00	1.25	1.50
Reversing	1.50	1.50	1.75	Super calender 3)	1.25	1.25	1.25	Traveling water intake	---	1.00	1.25
Slab pushers	1.25	1.25	1.50	Thickener (AC motor)	1.50	1.50	1.50	Sugar industry			
Shears	1.50	1.50	1.75	(DC motor)	1.25	1.25	1.25	Beet slicer	1.50	1.50	1.75
Wire drawing	1.00	1.25	1.50	Washer (AC motor)	1.50	1.50	1.50	Cane knives	1.50	1.50	1.50
Wire winding machine	1.00	1.25	1.50	(DC motor)	1.25	1.25	1.25	Crushers	1.50	1.50	1.50
Metal strip processing machinery				Wind and unwind stand	1.00	1.00	1.00	Mills (low speed end)	1.50	1.50	1.50
Bridles	1.25	1.25	1.50	Winders (surface type)	1.25	1.25	1.25	Textile industry			
Coilers and uncoilers	1.00	1.00	1.25	Yankee dryers 2)	1.25	1.25	1.25	Batchers	1.00	1.25	1.50
Edge trimmers	1.00	1.25	1.50	Plastic industry				Calenders	1.00	1.25	1.50
Flatteners	1.25	1.25	1.50	Primary processing				Cards	1.00	1.25	1.50
Loopers (accumulators)	1.00	1.00	1.00	Intensive internal mixers				Dry cans	1.00	1.25	1.50
Pinch rolls	1.25	1.25	1.50	Batch mixers	1.75	1.75	1.75	Dryers	1.00	1.25	1.50
Scrap choppers	1.00	1.25	1.50	Continuous mixers	1.50	1.50	1.50	Dyeing machinery	1.00	1.25	1.50
Shears	1.50	1.50	1.75	Batch drop mill - 2 smooth rolls	1.25	1.25	1.25	Looms	1.00	1.25	1.50
Slitters	1.00	1.25	1.50	Continuous feed, holding, blend mill	1.25	1.25	1.25	Mangles	1.00	1.25	1.50
Mills, rotary type				Compounding mill	1.25	1.25	1.25	Nappers	1.00	1.25	1.50
Ball & rod				Calenders	1.50	1.50	1.50	Pads	1.00	1.25	1.50
Spur ring gear	1.50	1.50	1.75	Secondary processing				Slashers	1.00	1.25	1.50
Helical ring gear	1.50	1.50	1.50	Blow molders	1.50	1.50	1.50	Soapers	1.00	1.25	1.50
Direct connected	1.50	1.50	1.75	Coating	1.25	1.25	1.25	Spinners	1.00	1.25	1.50
Cement kilns	1.50	1.50	1.50	Film	1.25	1.25	1.25	Tenter frames	1.00	1.25	1.50
Dryers & coolers	1.50	1.50	1.50	Pipe	1.25	1.25	1.25	Washers	1.00	1.25	1.50
Mixers				Pre-plasticizers	1.50	1.50	1.50	Winders	1.00	1.25	1.50
Concrete	1.00	1.25	1.50	Rods	1.25	1.25	1.25				
				Sheet	1.25	1.25	1.25				
				Tubing	1.25	1.25	1.50				
				Pullers - barge haul	1.00	1.50	1.75				

4

A.G.M.A. SERVICE FACTOR
AND LOAD CLASS INFO.

A.G.M.A. Load Classifications for Shaft Mount Reducers

Application	Total Operation			Application	Total Operation			Application	Total Operation		
	< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day
Agitators (mixers)	I	I	II	Laundry	II	II	II	Paper mills (Continued)			
Pure liquids	I	II	II	Tumblers	II	II	III	Screens	II	II	II
Liquids and solids	I	II	II	Washers	II	II	III	Chip	II	II	II
Liquids-variable density	I	II	II	Lumber industry	II	II	II	Rotary	II	II	II
Blowers				Barkers-spindle feed	II	II	II	Vibrating	III	III	III
Centrifugal	I	I	II	Main drive	III	III	III	Size press	II	II	II
Lobe	I	II	II	Conveyors-burner	II	II	II	Super calender (3)	II	II	II
Vane	I	II	II	Main or heavy duty	II	II	II	Thickener (AC motor)	II	II	II
Brewing and distilling				Main log	III	III	III	(DC motor)	II	II	II
Bottling machinery	I	I	II	Re-saw, merry-go-round	II	II	II	Washer (AC motor)	II	II	II
Brew kettles-continuous duty	II	II	II	Conveyors	III	III	III	(DC motor)	II	II	II
Cookers-continuous duty	II	II	II	Slab	III	III	III	Wind and unwind stand	I	I	I
Mash tubs-continuous duty	II	II	II	Transfer	II	II	II	Winders (surface type)	II	II	II
Scale hopper-frequent starts	II	II	II	Chains	II	II	II	Yankee dryers (2)	II	II	II
Can filling machines	I	I	II	Floor	II	II	II	Plastic industry			
Car dumpers	I	III	III	Green	II	II	III	Primary processing			
Car pullers	I	II	II	Cut-off saws	II	II	III	Intensive internal mixers			
Clarifiers	I	I	II	Chain	II	II	III	Batch mixers	III	III	III
Classifiers	I	II	II	Drag	II	II	III	Continuous mixers	II	II	II
Clay working machinery				Debaring drums	III	III	III	Batch drop mill - 2 smooth rolls	II	II	II
Brick press	II	III	III	Feeds	II	II	II	Continuous feed, holding, blend mill	II	II	II
Briquette machine	II	III	III	Edger	II	II	II	Calenders	II	II	II
Pug mill	I	II	II	Gang	III	III	III	Secondary processing			
Compactors	III	III	III	Trimmer	II	II	II	Blow molders	II	II	II
Compressors				Log deck	III	III	III	Coating	II	II	II
Centrifugal	I	I	II	Log hauls-incline-well type	III	III	III	Film	II	II	II
Lobe	I	II	II	Log turning devices	III	III	III	Pipe	II	II	II
Reciprocating, multi-cylinder	II	II	III	Planer feed	II	II	II	Pre-plasticizers	II	II	II
Reciprocating, single-cylinder	III	III	III	Planer tilting hoists	II	II	II	Rods	II	II	II
Cranes (1)				Rolls-live-off bearing-roll cases	III	III	III	Sheet	II	II	II
Dry dock	2.50	2.50	2.50	Sorting table	II	II	II	Tubing	II	II	II
Main hoist	2.50	2.50	3.00	Tipple hoist	II	II	II	Pullers - barge haul	II	II	II
Auxiliary hoist	2.50	2.50	3.00	Transfers	II	II	III	Pumps			
Boom hoist	2.50	2.50	3.00	Chain	II	II	III	Centrifugal	I	I	II
Slewing drive	2.50	2.50	3.00	Craneway	II	II	III	Proportioning	II	II	II
Traction drive	3.00	3.00	3.00	Tray drives	II	II	II	Reciprocating			
Container				Veneer lathe drives	II	II	II	Single acting, 3 or more cylinders	II	II	II
Main hoist	3.00	3.00	3.00	Metal mills				Double acting, 2 or more cylinders	II	II	II
Boom hoist	2.00	2.00	2.00	Draw bench carriage and main	II	II	II	Rotary			
Trolley drive, Gantry drive	3.00	3.00	3.00	drive				Gear type	I	I	II
Trolley drive, Traction drive	2.00	2.00	2.00	Runout table	II	II	II	Lobe	I	I	II
Mill duty				Non-reversing, Group drives	II	II	III	Vane	I	I	II
Main hoist	3.50	3.50	3.50	Non-reversing, Individual drives	III	III	III	Rubber industry			
Auxiliary	3.50	3.50	3.50	Reversing	II	II	II	Intensive internal mixers			
Bridge	2.50	3.00	3.00	Slab pushers	III	III	III	Batch mixers	III	III	III
Trolley travel	2.50	3.00	3.00	Shears	III	III	II	Continuous mixers	II	II	II
Industrial duty				Wire drawing	II	II	II	Mixing mill - 2 smooth rolls	II	II	II
Main	2.50	2.50	3.00	Wire winding machine	II	II	II	Mixing mill - 1 or 2 corrugated rolls	III	III	III
Auxiliary	2.50	2.50	3.00	Metal strip processing machinery				Batch drop mill - 2 smooth rolls	II	II	II
Bridge	2.50	3.00	3.00	Bridles	II	I	II	Cracker warmer - 2 rolls; 1 corrugated roll	III	III	III
Trolley travel	2.50	3.00	3.00	Coilers and uncoilers	I	I	II	Cracker - 2 corrugated rolls	III	III	III
Crushers				Edge trimmers	I	II	II	Holding, feed & blend mill - 2 rolls	II	II	II
Stone or ore	III	III	III	Flatteners	I	I	I	Refiner - 2 rolls	II	II	II
Dredges				Loopers (accumulators)	I	I	I	Calenders	II	II	II
Cable reels	II	II	II	Pinch rolls	II	II	II	Sand miller	II	II	II
Conveyors	II	II	II	Scrap choppers	II	II	II	Sewage disposal equipment			
Cutter head drives	III	III	III	Shears	III	III	III	Bar screens	II	II	II
Pumps	III	III	III	Slitters	I	II	II	Chemical feeders	II	II	II
Screen drives	III	III	III	Mills, rotary type				Dewatering screens	II	II	II
Stackers	II	II	II	Ball & rod				Scum breakers	II	II	II
Winches	II	II	II	Spur ring gear	III	III	III	Slow or rapid mixers	II	II	II
Elevators				Helical ring gear	II	II	II	Sludge collectors	II	II	II
Bucket	I	II	II	Direct connected	III	III	III	Thickeners	II	II	II
Centrifugal discharge	I	I	II	Cement kilns	II	II	II	Vacuum filters	II	II	II
Escalators	I	I	II	Dryers & coolers	II	II	II	Screens			
Freight	I	I	II	Mixers				Air washing	I	I	II
Gravity discharge	I	I	II	Concrete	II	II	II	Rotary - stone or gravel	II	II	II
Extruders				Paper mills				Traveling water intake	I	I	I
General	II	II	II	Agitator (mixer)	II	II	II	Screw conveyors			
Plastics	III	III	III	Agitator for pure liquors	II	II	II	Uniformly loaded or fed	I	I	II
Variable speed drive	III	III	III	Barking drums	III	III	III	Heavy duty	I	II	II
Fixed speed drive	III	III	III	Barkers - mechanical	III	III	III	Sugar industry			
Rubber				Beater	II	II	II	Beet slicer	III	III	III
Continuous screw operation	III	III	III	Breaker stack	II	II	II	Cane knives	II	II	II
Intermittent screw operation	III	III	III	Calendar (2)	II	II	II	Crushers	II	II	II
Fans				Chipper	III	III	III	Mills (low speed end)	III	III	III
Centrifugal	I	I	II	Chip feeder	II	II	II	Textile industry			
Cooling towers	III	III	III	Coating rolls	II	II	II	Batchers	II	II	II
Forced draft	II	II	II	Conveyors	II	II	II	Calenders	II	II	II
Induced draft	II	II	II	Chip, bark, chemical	II	II	II	Cards	II	II	II
Industrial and mine	II	II	II	Log (including slab)	II	II	III	Dry cans	II	II	II
Feeders				Couch rolls	II	II	II	Dryers	II	II	II
Apron	I	II	II	Cylinder molds	III	III	III	Dyeing machinery	II	II	II
Belt	I	I	II	Dryers (2)	II	II	II	Looms	II	II	II
Disc	I	I	II	Paper machine	II	II	II	Mangles	II	II	II
Reciprocating	II	III	III	Conveyor type	II	II	II	Nappers	II	II	II
Screw	I	II	II	Embosses	II	II	II	Pads	II	II	II
Food industry				Extruder	II	II	II	Slashers	II	II	II
Cereal cooker	I	I	II	Fourdrinier rolls	II	II	II	Soapers	II	II	II
Dough mixer	II	II	II	(includes lump breaker, dandy				Spinners	II	II	II
Meat grinders	II	II	II	roll, wire turning, and return rolls)				Tenter frames	II	II	II
Slicers	I	II	II	Jordan	II	II	II	Washers	II	II	II
Generators and exciters	II	II	II	Kiln drive	II	II	II	Winders	II	II	II
Hammer mills	III	III	III	Mt. Hope roll	II	II	II				
Hoists				Paper rolls	II	II	II				
Heavy duty	III	III	III	Platter	II	II	II				
Medium duty	II	II	II	Presses - felt & suction	II	II	II				
Skip hoist	II	II	II	Pulper	III	III	III				
				Pumps - vacuum	II	II	II				
				Reel (surface type)	II	II	II				

- (1) Crane drives are to be selected based on gear tooth bending strength, using the numeric service factors in this table. Service factor in durability shall be a minimum of 1.00.
- (2) Anti-friction bearings only.
- (3) A class number of I may be applied at base speed of a super calender operating over-speed range or part range constant horsepower, part range constant torque where the constant horsepower speed range is greater than 1.5 to 1. A class number of II is applicable to super calenders operating over the entire speed range at constant torque or where the constant horsepower speed range is less than 1.5 to 1.

Terms and Conditions of Sale

1. **WARRANTY – WORLDWIDE ELECTRIC CORPORATION (“SELLER”) MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE IN RESPECT TO THE PRODUCT AND THERE IS NO WARRANTY EXPRESS OR IMPLIED EXCEPT THAT THE PRODUCT SHALL BE OF THE KIND AND QUALITY DESCRIBED IN THE SPECIFICATIONS.**
2. **DELIVERY – Unless otherwise stated, delivery will be made f.o.b. point of shipment. Shipping dates are approximate and are based on the prompt receipt of all necessary information from the purchaser.**
3. **LOSS, DAMAGE OR DELAY – Seller shall not be liable for loss, damage, detention, or delay resulting from causes beyond its reasonable control or from fire, strike or other concerted action of workmen, act or omission of any Governmental authority or of the Purchaser, insurrection or riot, embargo, car shortage, wreck or delay in transportation, or inability to obtain necessary labor, materials, or manufacturing facilities from usual sources. In the event of delay due to any such cause, the date of delivery will be postponed by such length of time as may be reasonably necessary to compensate for the delay.**
4. **RISK OF LOSS – Risk of loss of the product, or any part of the same, shall pass to the Purchaser upon delivery of such product or part.**
5. **PAYMENTS – If, in the judgment of Seller, the financial condition of the Purchaser at any time prior to shipment does not support the terms of payment specified, Seller may require full or partial payment in advance. Pro-rata payments shall become due as shipments are made. If shipments are delayed by the Purchaser, payments shall become due from date when Seller is prepared to make shipment. If manufacture is delayed by the Purchaser, payment shall be made based on the contract price and percent of completion. Products held for Purchaser shall be at the risk and expense of the Purchaser.**
6. **PAYMENT BY CREDIT CARD – If Seller accepts payment by credit card, Purchaser agrees to pay the issuer of the credit card the total amount shown on this invoice upon presentation of a bill, without offset or deduction.**
7. **PRICES – Prices are those in effect at time of shipment. In the event of a published increase or reduction in prices by Seller, the new price will become effective immediately on the unshipped portion of the order, unless stated at the time of the change. In no case, however, will a reduction in price be retroactive to shipments made prior to the date of the price change. Purchaser’s order will be entered promptly upon acceptance by Seller and will not thereafter be subject to Cancellation nor to Deferment of Deliveries without Seller’s written consent, except upon terms which take into proper account the work already done and commitments made by Seller. Prices include the Seller’s standard packing for domestic shipments.**
8. **LIMITATION OF LIABILITY – In no event shall Seller be liable for any special, indirect, incidental, consequential or punitive damages, including but not limited to damages for lost profits or business opportunities or damage to reputation. Seller’s maximum liability for any breach of contract or sale, or any other claim related to the product sold hereunder, shall be limited to the price of the product, or portion thereof, on which such liability is based.**
9. **GOVERNING LAW/JURISDICTION/VENUE – This sale shall be governed by and construed in accordance with the laws of the State of New York, without regard to its conflicts of laws principles, and shall be deemed entered into at Seller’s principal place of business in New York. By purchasing Seller’s product, Purchaser expressly consents, for any litigation arising out of or related to the sale, to the exclusive jurisdiction and venue of the courts of competent jurisdiction located in Monroe County, New York (i.e., the U.S. District Court, Western District of New York, and the New York State Supreme Court, County of Monroe) and waives the right and hereby agrees not to assert, by way of motion, defense or otherwise in any proceeding brought in either of such courts, any claim that it is not subject to the personal jurisdiction of such court, that such proceeding is brought in an inconvenient forum, or that the venue of such proceeding is improper.**
10. **TERMINATION – Any order or contract may be terminated by the Purchaser only upon payment of reasonable charges based upon expenses already incurred and commitments made by Seller.**
11. **RETURN OF GOODS – No product or part shall be returned to the Seller without written authorization and shipping instructions first having been obtained from the Seller. Returns may be subject to freight charge and/or restocking charge, as circumstances dictate.**
12. **REPAIR POLICY – Positively no allowance will be made for repairs if made by others without Seller’s written consent.**
13. **NO ASSIGNMENT – Purchaser’s obligations are not transferable or assignable by operation of law, change of control or ownership, or otherwise, without prior written consent of Seller.**

Return Policy

1. All WorldWide Electric products (electric motors, motor controls and gearing products) that are purchased as normal stock items may be returned, with freight to be paid, back to the closest WorldWide Electric warehouse by the customer.
2. Any returned products must be new, undamaged and in original cartons/packaging. Final credit will not be issued until WorldWide Electric has verified the products/shipping cartons as such.
3. All RGA requests must be made within 90 days of original purchase.
4. If the returned products were ordered incorrectly by the customer, 20% will be levied as a restocking charge which carries a minimum \$75 charge.
5. If the customer places an order equal to or greater than the goods being returned, then the restocking charge will be 10% (minimum \$75 charge).
6. If the product being returned was originally shipped to the customer prepaid and allowed, the original freight charge will be deducted from the return credit.
7. If the returned products are not in original condition (as well as the packaging), there will be additional fees applied to repair and/or replace those parts/products.

Freight Terms

Freight terms are as follows on all orders shipped from any of our warehouses. All products can be assorted from all three divisions; motors, controls and gearing.

FedEx / UPS will be utilized for shipments under 100 lbs. and billed on a prepaid and add basis (excluding cast iron motors and gear reducer products). Customers may always choose to have their shipment sent freight collect.

\$5,000 +	Truck - Prepaid and Allowed
\$1,000 - \$4,999	Truck - 10% of Invoice - Prepaid and Add
\$0 - \$999	Truck - \$100 Minimum - Prepaid and Add

Special Freight Prepaid Programs

Worm Gear Reducers: 25 + Pieces Assorted, Prepaid and Allowed

Orders may be picked up from any of our warehouses as a will call. We would prefer a one-hour advance notification for orders to be picked up. However, allowances will be made for special rush and urgent situations. Freight terms are as follows on all orders shipped from any of our warehouses.

Additional Freight Services

Delivery Appointment	\$65.00
Liftgate Delivery	\$200.00
Residential Delivery	\$125.00
Expedited Delivery	Please Call For Quote



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