Ameridrives Coupling Products
AN AMERIDRIVES INTERNATIONAL COMPANY

Gear Coupling Selection Guide

Amerigear® Design Advantages

Amerigear Fully-Crowned Teeth (Fig. 1) Crowned Flanks, Crowned Tips, Crowned Chamfers – recognized as the ultimate in gear tooth design and the secret of superior mechanical power transmission! Increased tooth contact area improves the load-carrying capacity of the teeth regardless of operating conditions and provides "ball-and-socket" piloting action at all misalignments. As a result, connected equipment is able to operate at higher torques, speeds, and misalignments with resultant longer life.

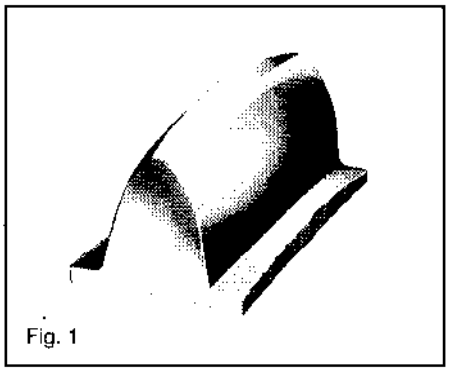
Fig. 1

Rigid, strong, "floating" sleeve (Fig. 2) A floating sleeve, containing internally-cut gear teeth at opposite ends, is made from medium carbon steel. In effect, it provides a "bridge" between driving and driven gear meshes. It can be furnished as a continuous, one-piece sleeve . . . or made in two halves and bolted together.

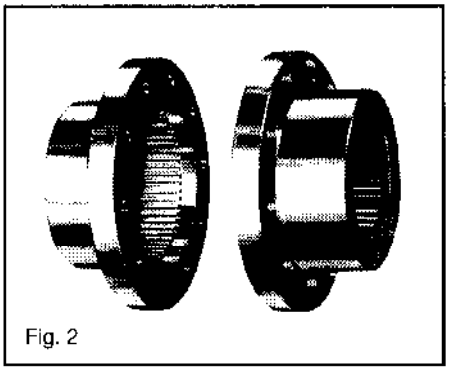
Fig. 2

Precision-machined identical hubs (Fig. 3) Two identical hubs, machined to close tolerences, contain external Fully-Crowned Gear Teeth which totally engage internal teeth of the sleeve. Uniqueness of Fully-Crowned Teeth enables coupling to operate longer, with minimum backlash, and assurance of free axial movement of connected shafts.

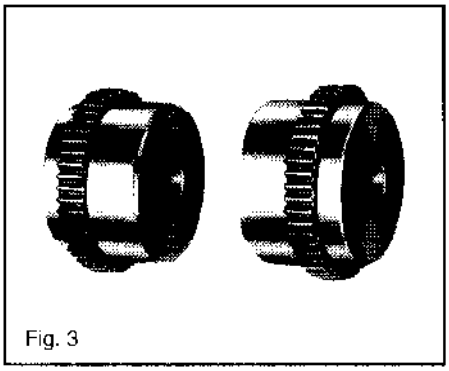
Fig. 3

Positive dust-tight seals (Fig. 4) Buna-N O-ring seals keep contamination out . . . vital lubricant in. Designed to accomodate temperatures up to 250°F. For temperatures of 400°F continuous and 550°F for short periods, Viton O-ring seals are available. These are easily installed without removing coupling hub and sleeve from shafting.

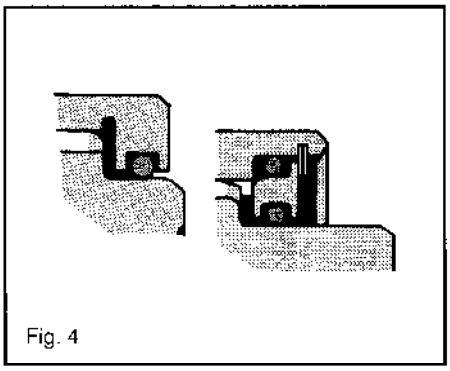
Fig. 4

Gear Coupling Selection Guide

AMERIDRIVES AMERIGEAR			KOPFLEX									FALK						SYSTEMS COMPONENTS						SHROUDED BOLT PATTERN		EXPOSED BOLT PATTERN		FLANGE DIAMETER
200 SERIES ± 1 1/2"			FAST ± 1/2"			SERIES H ± 3/4"			WALDRON ± 1/2"			1000 G ± 1/8"			LIFELIGN GF ± 1/8"			POWERTORK F (O RING) ± 3/4"			POWERTORK SR (METAL SEAL)							
SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	DBC	# - SIZE	DBC	# - SIZE	
200	.81	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.38	4 1/4 - 28	-	-	2.94
201	1.25	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	4 1/4 - 28	-	-	3.56
201.25	1.63	7.6	1	-	-	1 H	1.63	7.56	1 W	1.63	6.3	1010 G	1.88	7.6	1 GF	1.62	7.6	1	1.63	9.8	-	-	-	3.44	4 1/4 - 28	-	-	4.00
201.5	2.25	17.0	1 1/2	1.63	17.0	1 1/2 H	2.25	17.0	1 1/2 W	2.19	15.1	1015 G	2.38	17.01	1 1/2 GF	2.12	18.9	1 1/2	2.19	19.5	1 1/2	1.63	25.2	4.81	8 - 3/8	4.81	8 - 3/8	6.00
202	2.75	31.5	2	2.13	31.5	2 H	2.75	31.5	2 W	2.75	31.5	1020 G	2.88	31.5	2 GF	2.75	31.5	2	2.75	32.1	2	2.13	47.3	5.81	10 - 3/8	5.88	6 - 1/2	7.00
202.5	3.50	53.6	2 1/2	2.75	56.7	2 1/2 H	3.50	56.7	2 1/2 W	3.25	56.7	1025 G	3.62	56.7	2 1/2 GF	3.25	56.7	2 1/2	3.50	56.7	2 1/2	2.75	85.0	7.00	10 - 1/2	7.12	6 - 5/8	8.38
203	4.00	94.5	3	3.13	100.8	3 H	4.00	100.8	3 W	4.00	94.5	1030 G	4.12	94.5	3 GF	4.00	101.0	3	4.00	96.0	3	3.13	151.0	8.00	12 - 1/2	8.12	8 - 5/8	9.44
203.5	4.50	142.0	3 1/2	3.75	148.0	3 1/2 H	4.50	148.0	3 1/2 W	4.75	144.9	1035 G	4.88	144.9	3 1/2 GF	4.50	151.3	3 1/2	4.63	151.0	3 1/2	3.75	221.0	9.28	12 - 5/8	9.50	8 - 3/4	11.00
204	5.50	214.0	4	4.25	236.2	4 H	5.50	236.2	4 W	5.38	220.5	1040 G	5.75	220.5	4 GF	5.38	236.0	4	5.50	240.0	4	4.25	353.0	10.62	14 - 5/8	11.00	8 - 3/4	12.50
204.5	6.25	324.0	4 1/2	4.75	318.1	4 1/2 H	6.00	318.1	4 1/2 W	6.00	302.4	1045 G	6.75	302.4	4 1/2 GF	6.00	324.0	4 1/2	6.00	315.0	4 1/2	4.75	473.0	11.75	14 - 5/8	12.00	10 - 3/4	13.62
205	6.63	416.0	5	5.50	441.0	5 H	6.88	441.0	5 W	6.75	409.5	1050 G	7.38	409.5	5 GF	6.50	441.0	5	6.88	447.0	5	5.50	662.0	13.19	14 - 3/4	13.50	8 - 7/8	15.31
205.5	7.50	551.0	5 1/2	5.88	579.6	5 1/2 H	7.75	579.6	5 1/2 W	7.50	535.5	1055 G	8.25	535.5	5 1/2 GF	7.75	580.0	5 1/2	7.75	583.0	5 1/2	5.88	870.0	14.44	16 - 3/4	14.50	14 - 7/8	16.56
206	8.25	750.0	6	6.50	759.1	6 H	8.63	759.1	6 W	8.25	693.0	1060 G	9.12	693.0	6 GF	8.75	759.0	6	8.75	756.0	6	6.50	1134.0	-	-	15.75	14 - 7/8	18.00
207	9.63	1033.0	7	8.00	1159.2	7 H	10.38	1159.2	7 W	9.25	1008.0	1070 G	10.88	1008.0	7 GF	9.75	1116.0	7	10.38	1166.0	7	8.00	1739.0	-	-	18.25	16 - 1	20.75

* ALL TORQUE RATINGS X(10)³ IN. -LBS.

AMERIDRIVES AMERIGEAR			ZURN AMERIGEAR			RENOLD/AJAX						DECK/POOLE						SIER-BATH			FALK			WALDRON			FLANGE DIAMETER
200 SERIES ± 1 1/2"			100 SERIES ± 1 1/2"			O RING SEAL ± 1 1/2"			METAL SEAL ± 1 1/2"			MXB ± 1/2"			100 SERIES ± 1/2"			SERIES F ± 1 1/2"			SERIES G			SERIES A ± 1/2"			
SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	SIZE	BORE	TORQUE*	
200	.81	1.9	100	.812	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.94
201	1.25	3.2	101	1.25	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.56
201.25	1.63	7.6	101 1/4	1.82	7.6	108	1.63	8.0	-	-	-	1	1.63	6.3	-	-	-	F 1	1.63	4.8	10 G	1.88	5.0	1 1/4 A	1.38	3.78	4.00
201.5	2.25	17.0	101 1/2	2.00	18.9	158	2.13	20.0	156	1.75	20.0	1 1/2	2.19	15.12	150	1.50	9.9	F 1 1/2	2.13	8.9	15 G	2.38	15.1	1 1/2 A	-	-	6.00
202	2.75	31.5	102	2.62	31.5	208	2.75	35.0	206	2.25	35.0	2	2.75	31.5	200	2.00	23.6	F 2	2.75	23.9	20 G	2.88	31.5	2A	2.12	13.2	7.00
202.5	3.50	53.6	102 1/2	3.12	53.6	258	3.25	60.0	256	2.75	60.0	2 1/2	3.25	56.7	250	2.50	44.7	F 2 1/2	3.25	34.5	25 G	3.63	56.7	2 1/2 A	2.62	28.3	8.38
203	4.00	94.5	103	3.75	94.5	308	4.00	100.0	306	3.25	100.0	3	4.00	94.5	300	3.00	73.7	F 3	4.00	55.7	30 G	4.13	94.5	3A	3.19	54.8	9.44
203.5	4.50	142.0	103 1/2	4.38	126	358	4.50	150.0	356	3.75	150.0	3 1/2	4.75	144.9	350	3.50	118.4	F 3 1/2	4.63	86.6	35 G	4.88	126.0	3 1/2 A	3.75	94.5	11.00
204	5.50	214.0	104	5.00	189	408	5.38	270.0	406	4.25	270.0	4	5.38	220.5	400	4.00	159.4	F 4	5.38	123.9	40 G	5.75	189.0	4A	4.25	141.8	12.50
204.5	6.25	324.0	104 1/2	5.38	252	458	6.00	370.0	456	4.75	370.0	4 1/2	6.00	302.4	450	4.50	238.1	F 4 1/2	6.00	198.2	45 G	6.50	267.7	4 1/2 A	4.75	230.0	13.62
205	6.63	416.0	105	6.00	347	508	6.63	500.0	506	5.50	500.0	5	6.75	409.5	500	5.00	292.3	5	6.50	337.8	50 G	7.00	368.5	5A	5.50	330.7	15.31
205.5	7.50	551.0	105 1/2	6.50	472	558	7.50	650.0	556	6.25	650.0	5 1/2	7.50	535.5	550	6.25	439.7	F 5 1/2	7.38	389.5	55 G	7.75	491.4	5 1/2 A	6.00	451.7	16.56
206	8.25	750.0	106	7.38	630	608	8.13	750.0	606	7.00	750.0	6	8.25	693.0	600	7.31	674.1	F 6	8.00	554.5	60 G	8.75	630.0	6A	6.62	606.0	18.00
207	9.63	1033.0	107	8.75	882	708	9.63	925.0	706	8.25	925.0	7	9.25	1008.0	700	8.38	1055.3	F 7	9.00	900.0	70 G	10.00	1008.0	7A	7.50	716.3	20.75

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