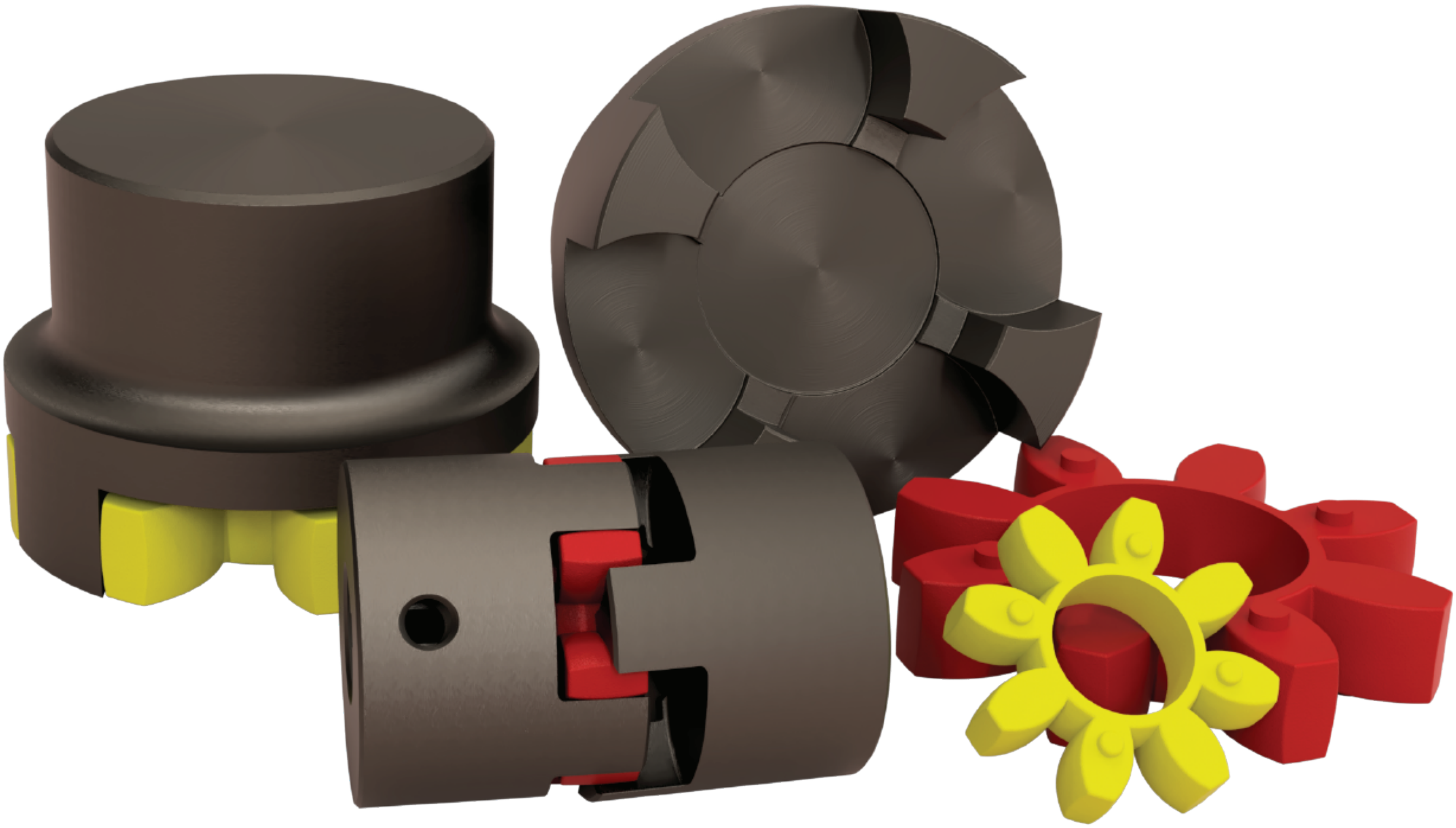
CURVED JAW COUPLINGS



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POWER TRANSMISSION PRODUCTS

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Curved Jaw Couplings

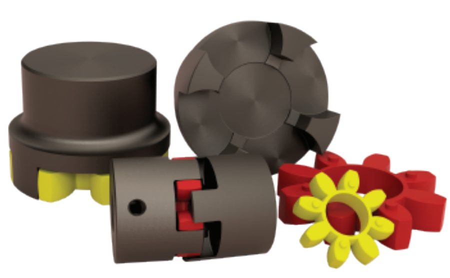
This three-piece curved jaw design was specifically designed to reduce the edge pressure of the driving lugs to the insert. These couplings are perfectly interchangeable with other German and Italian designs of the same type. Hubs are made in both aluminum, and sintered steel. The elements, or spiders, are made from variable durometer urethane. Available in 10 sizes, bores to 110mm (4.33). These couplings are great for electric motor driven pumps, gearboxes, conveyors, as well as applications with reversing loads, due to compressive nature of the design. These couplings are torsionally flexible and designed to dampen operational vibrations and shock loading. With the teeth of the spider being crowed, to avoid edge pressure, it allows for greater shaft misalignments over couplings of a similar design (Straight Jaw). With the concave tooth design this coupling is subject to a pressure only load as compared to other straight jaw couplings, which are prone to a bending stress as well. Due to this difference in driving ability, the coupling will withstand considerably higher loads.

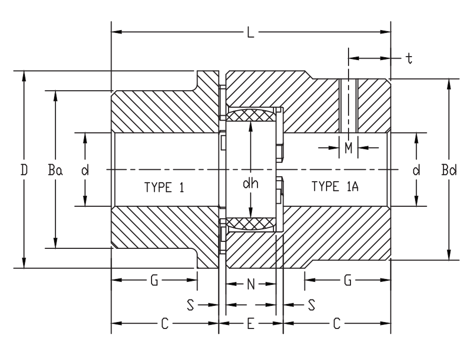
Product Characteristics:

- Greater compensation for axial, radial and angular shaft misalignments than standard straight jaw couplings.
- Axial Plug In
- Easy Assembly
- Operating temperature Range (-40°F to +212 °F), Max temperature of 248 °F
- Dampens torsional vibrations
- Multiple bore options (English, Metric, Splined, Tapered, etc.)
- No Lubrication Required
- No Metal to Metal Contact
- Urethane spiders provide high abrasion resistance and elasticity.
- Resistant to oil, dirt, sand, grease, moisture, many solvents.

Hayes Curved Jaw (English)

Size	Type	Spider Rated Torque (ft.lbs)			Std Bore	Finish Bore	L	C	E	N	S	D	dh	Ba;Bd	G	Finish Bore	
		92 Sh A	98 Sh A	64 Sh D	(d)	(d) min-Max										M	t
19/24	1a	7	12	15	0.24	.24 - 1.00	2.60	0.98	0.63	0.47	0.08	1.57	0.71	1.57	-	M5	0.39
24/32	1a	26	44	55	0.35	.35 - 1.38	3.07	1.18	0.71	0.55	0.08	2.17	1.06	2.17	-	M5	0.39
28/38	1a	70	118	147	0.39	.39 - 1.57	3.54	1.38	0.79	0.59	0.10	2.56	1.18	2.56	-	M8	0.59
38/45	1	140	239	299	0.47	.47 - 1.88	4.49	1.77	0.94	0.71	0.12	3.15	1.50	2.76	1.46	M8	0.59
42/55	1	195	331	413	0.47	.47 - 2.16	4.96	1.97	1.02	0.79	0.12	3.74	1.81	3.35	1.57	M8	0.79
48/60	1	229	387	483	0.47	.47 - 2.44	5.51	2.20	1.10	0.83	0.14	4.13	2.01	3.74	1.77	M8	0.79
55/70	1	302	505	608	0.59	.59 - 2.83	6.30	2.56	1.18	0.87	0.16	4.72	2.36	4.33	2.05	M10	0.79
65/75	1	461	693	866	0.59	.59 - 3.14	7.28	2.95	1.38	1.02	0.18	5.31	2.68	4.53	2.40	M10	0.79
75/90	1	944	1,416	1,770	0.59	.59 - 3.74	8.27	3.35	1.57	1.18	0.20	6.30	3.15	5.31	2.72	M10	0.98
90/100	1	1,770	2,655	3,319	1.50	1.50 - 4.33	9.65	3.94	1.77	1.34	0.22	7.87	3.94	6.30	3.19	M12	0.98





SEE PAGE 3 FOR METRIC DIMENSIONAL CHART
SEE PAGE 4 FOR STANDARD BORE OPTIONS

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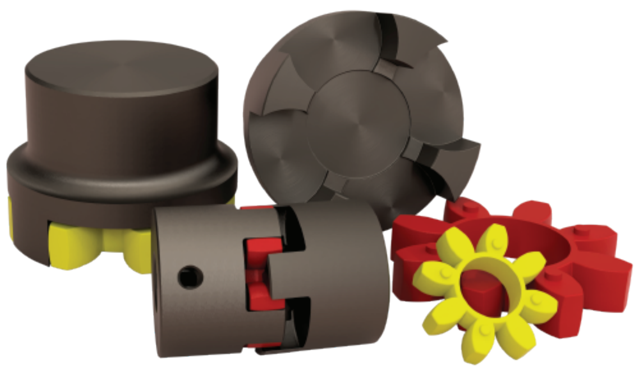
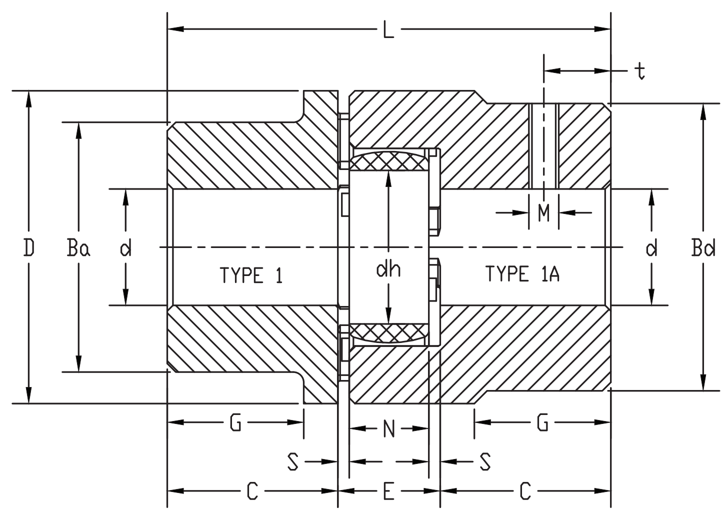
Curved Jaw Couplings

Hayes Curved Jaw (Metric)

Size	Type	Spider Rated Torque (Nm)			Std Bore	Finish Bore										Finish Bore	
		92 Sh A	98 Sh A	64 Sh D	(d)	(d) min-Max	L	C	E	N	S	D	dh	Ba;Bd	G	M	t
19/24	1a	10	17	21	6	6-25	66	25	16	12	2	40	18	40	-	M5	10
24/32	1a	35	60	75	9	9-35	78	30	18	14	2	55	27	55	-	M5	10
28/38	1a	95	160	200	10	10-40	90	35	20	15	2.5	65	30	65	-	M8	15
38/45	1	190	325	405	12	12-48	114	45	24	18	3	80	38	70	37	M8	15
42/55	1	265	450	560	12	12-55	126	50	26	20	3	95	46	85	40	M8	20
48/60	1	310	525	655	12	12-62	140	56	28	21	3.5	105	51	95	45	M8	20
55/70	1	410	685	825	15	15-72	160	65	30	22	4	120	60	110	52	M10	20
65/75	1	625	940	1,175	15	15-80	185	75	35	26	4.5	135	68	115	61	M10	20
75/90	1	1,280	1,920	2,400	15	15-95	210	85	40	30	5	160	80	135	69	M10	25
90/100	1	2,400	3,600	4,500	38	38-110	245	100	45	34	5.5	200	100	160	81	M12	25





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Curved Jaw Couplings

OPTIONS FOR SHAFT TO SHAFT COUPLINGS

STANDARD

Option No.	Inch Sizes	
	Bore (in)	Key (in)
-01	3/8	1/16
-02	7/16	3/32
-03	1/2	1/8
-04	9/16	1/8
-05	5/8	3/16
-06	11/16	3/16
-07	3/4	3/16
-08	13/16	3/16
-09	7/8	3/16
-10	15/16	1/4
-11	1	1/4
-12	1-1/16	1/4
-13	1-1/8	1/4
-14	1-3/16	1/4
-15	1-1/4	1/4
-16	1-5/16	5/16
-17	1-3/8	5/16
-18	1-7/16	3/8
-19	1-1/2	3/8
-20	1-9/16	3/8
-21	1-5/8	3/8
-22	1-11/16	3/8
-23	1-3/4	3/8
-24	1-13/16	1/2
-25	1-7/8	1/2
-26	1-15/16	1/2
-27	2	1/2
-28	2-1/16	1/2
-29	2-1/8	1/2
-30	2-3/16	1/2
-31	2-1/4	1/2
-32	2-5/16	5/8
-33	2-3/8	5/8
-34	2-7/16	5/8
-35	2-1/2	5/8
-36	2-5/8	5/8
-37	2-3/4	5/8

STANDARD

Option No.	Metric Sizes	
	Bore (mm)	Key (mm)
-51		
-52		
-53		
-54	15	5
-55		
-56	17	5
-57	18	6
-58	19	6
-59	20	6
-60	22	6
-61	24	8
-62	25	8
-63		
-64	28	8
-65	30	8
-66	32	10
-67	33	10
-68	35	10
-69		
-70	38	10
-71	40	12
-72	42	12
-73	45	14
-74		
-75	48	14
-76	50	14
-77	55	16
-78	60	18
-79	65	18
-80		
-81		
-82		
-83		
-84		

SEMI-STANDARD

Option No.	Size	
	Bore	Key
-38	1/2	3/32
-39	5/8	5/32
-40	3/4	1/8
-41	7/8	1/4
-42	1	3/16
-43	1-1/4	5/16
-44	1-3/8	3/8
-45	1-1/2	5/16
-46	1-3/4	7/16
-47	.5295	1/8
-48		
-49	2-7/8	3/4
-50	BLANK	

SPLINED COUPLING SIZES

Option No.	Teeth	Pitch	P.A.	Major O.D.	Min. Series
-85					
-86	17	12/24	30	1.580	40
-87	11	16/32	30	.770	20
-88	9	16/32	30	.625	20
-89	15	16/32	30	1.000	20
-90	13	8/16	30	1.750	40
-91	13	16/32	30	.885	ALL
-92	14	12/24	30	1.250	20
-93	15	8/16	30	2.000	50
-94	21	16/32	30	1.375	30
-95	23	16/32	30	1.500	40
-96	27	16/32	30	1.750	40
-97					
-98	20	16/32	30	1.312	30