



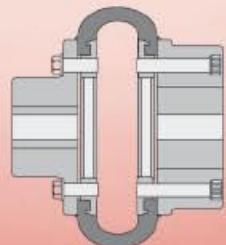
Certificate since 1999



ATEX



Flexible Couplings
Type A



Gummi has over 45 years of experience supplying the global industrial power transmission industry. Our engineered solutions include a broad range of products including; flexible, pneumatic, hydraulic couplings, and various types of Air Clutches and Brake.

Gummi is synonymous with the characteristics of quality products and total customer service. All our products are manufactured according to the ISO 9001 Quality Management System and Norms.

We will continue to improve upon our current product lines, and innovate new products in order to provide a wide variety of power transmission solutions. All this is accomplished with state of the art engineering and design systems, advanced production and machine systems, and a customer oriented company culture which will be the vehicles to lead **Gummi** to the forefront in the global power transmission industry.

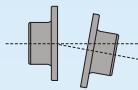


The applications for the **Gummi** product are endless. As our units can be found in operating in every corner of the world, within but not limited to the Cement, Metal forming, Mining, Maritime, Petrochemical, Pulp / Paper, Steel and Textile industries.

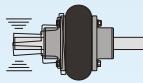


Gummi Quality, Affordability, and Availability.



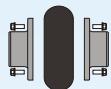


Misalignment Solutions Misalignment is a major reason for failure in bearings, as well as the other components of the motor (gears, gaskets, seals) which were not originally designed to absorb stresses caused by misalignment. The Gummi flexible coupling is the ideal solution to this issue, since its primary features are elasticity, misalignment compensation and shock absorption.



Vibration and Shock Load Dampening

The flexible couplings ability to absorb torsional vibrations and shock loads provides for an extended working life of the machine and or equipment. The amount of vibrations is reduced by approximately 70% when a flexible coupling is installed properly.



Simple Installation

The replacement is simpler and faster because it is comprised of only one rubber element. Using smaller alignment tolerances allows the element to extend the working life of its flexible coupling. It is not necessary to move the parts in order to replace the flexible element.



Symmetry - Security - Balance

Since the rubber element utilized in the Gummi flexible coupling is one single element with integrated mounting flanges, it is guaranteed to be balanced and free from safety or security issues and concerns.



Different models

- Back-Pull-Out - Diesel engines - Axial displacements - Shafts with different diameters - Floating shafts - Torque limiters - Security locking - Conical Shafts - Space Limited Areas



No need to Lubricate

As a result of its design and constructive characteristics, the element does not require lubrication.



Economy

The working life capacity in the applications spare parts increases, reducing costly down time, minimizing the cost of replacement components, lubricants and inventory. The flexible element of the coupling works for a prolonged period of time without needing to be replaced.



Total Quality

Assured quality

Manufactured under the strict Quality System, and produced using only the highest quality raw materials.

Technical Information:

Available through our official distributors and Internet Sites:

www.gummiusa.com - www.gummi.com.ar - www.gummi.com.br - www.gummiitalia.it

When ordering the **Gummi** Flexible Coupling, the following information must be provided.

Example: Flexible coupling model A-105 with two integral hubs and 1 spacer L= 250 mm.

We recommend that you read all instructions before beginning the assembly or installation of our couplings. (see page 8)

1- MODEL

According to the selection (Tables I and III)

2- TYPE OF HUB

Advise the selected type of hub

Without indication - Two conventional hubs

CN Conventional hub

CI Integral hub

CX Axial hub

EC Conventional hub for point of conical shafts

ECl Integral hub for point of conic shafts

3- TYPE OF ASSEMBLY

EF Floating shafts

ES Spacer

A 105 - CI / CI - ES - 250

1- Model

2- Type of Hub

3- Type of Assembly

4- Additional Information

LT Torque limiting

BS Security ties

RE Special covering

DF Disk brakes

CIN Invert hub

APF Pulley brakes

CE Reel

CF Bridle plate

CC Fitted hubs

4- ADDITIONAL INFORMATION

Dimension required

The Flexible Couplings Gummi may be requested with ATEX certification under European Directive 94/9/CE (ATEX 95) II 2GD c 120°C(T4X)

Selection Method

Data required to select appropriate coupling:

Quick selection:

- Power in Kw.
- R.P.M.
- Shaft diameters.
- Service Factor (Table II).

multiply the Kw by the Service Factor

Once the value is obtained from the formula, go to Table I below, and read down on the rpm column until the rpm for the case engine is found. Read across until the closest bigger number or equivalent, to result obtained from the formula is found. Then read up to the top of the chart to find the recommended coupling. Verify on the Table III the diameter of each shaft in relation of its maximum and minimum.

Table I - Max. Temp. 80°C

MODEL	A 20	A 25	A 30	A 35	A 45	A 50	A 60	A 70	A 80	A 90	A 95	A 105	A 120	A 140	A 155	A 165	A 170	A 200	A 240	A 300	A 350	A 400
RPM	0,47	0,64	0,94	1,33	3,56	5,29	9,84	13,48	17,80	25,24	26,70	38,74	71,20	97,91	112,30	140,52	153,19	263,77	450,89	901,78	1243,46	1767,02
100	0,47	0,64	0,94	1,33	3,56	5,29	9,84	13,48	17,80	25,24	26,70	38,74	71,20	97,91	112,30	140,52	153,19	263,77	450,89	901,78	1243,46	1767,02
200	0,94	1,28	1,88	2,66	7,12	10,58	19,69	26,95	35,60	50,47	53,40	77,49	142,41	195,81	224,61	281,05	306,39	527,54	901,78	1803,56	2486,91	3534,03
300	1,41	1,92	2,83	3,99	10,68	15,86	29,53	40,43	53,40	75,71	80,10	116,23	213,61	293,72	336,91	421,57	459,58	791,31	1352,67	2705,34	3730,37	5301,05
400	1,88	2,55	3,77	5,32	14,24	21,15	39,37	53,91	71,20	100,94	106,81	154,97	284,82	391,62	449,21	562,09	612,77	1055,08	1803,56	3607,12	4973,82	7068,06
500	2,36	3,19	4,71	6,65	17,80	26,44	49,21	67,38	89,01	126,18	133,51	193,72	356,02	489,53	561,52	702,62	765,97	1318,85	2254,45	4508,90	6217,28	8835,08
600	2,83	3,83	5,65	7,98	21,36	31,73	59,06	80,86	106,81	151,41	160,21	232,46	427,23	587,43	673,82	843,14	919,16	1582,62	2705,34	5410,68	7460,73	10602,09
700	3,30	4,47	6,60	9,31	24,92	37,02	68,90	94,34	124,61	176,65	186,91	271,20	498,43	685,34	786,13	983,66	1072,36	1846,39	3156,23	6312,46	8704,19	12369,11
720	3,39	4,60	6,79	9,57	25,63	38,07	70,87	97,03	128,17	181,70	192,25	278,95	512,67	704,92	808,59	1011,77	1102,99	1899,14	3246,41	6492,82	8952,88	12722,51
800	3,77	5,11	7,54	10,64	28,48	42,30	78,74	107,81	142,41	201,88	213,61	309,95	569,63	783,25	898,43	1124,19	1225,55	2110,16	3607,12	7214,24	9947,64	14136,13
850	4,01	5,43	8,01	11,30	30,26	44,95	83,66	114,55	151,31	214,50	226,96	329,32	605,24	832,20	954,58	1194,45	1302,15	2242,04	3832,57	7665,13	10569,37	15019,63
900	4,24	5,75	8,48	11,97	32,04	47,59	88,59	121,29	160,21	227,12	240,31	348,69	640,84	881,15	1010,73	1264,71	1378,24	2373,93	4058,01	8116,02	11191,10	15903,14
1000	4,71	6,39	9,42	13,30	35,60	52,88	98,43	134,76	178,01	252,36	267,02	387,43	712,04	979,06	1123,04	1405,24	1531,94	2637,70	4508,90	9017,80		
1100	5,18	7,03	10,37	14,63	39,16	58,17	108,27	148,24	195,81	277,59	293,72	426,18	783,25	1076,96	1235,34	1545,76	1685,13	2901,47	4959,79	9919,58		
1150	5,42	7,35	10,84	15,29	40,94	60,81	113,19	154,98	204,71	290,21	307,07	445,55	818,85	1125,92	1291,49	1616,02	1761,73	3033,35				
1200	5,65	7,66	11,31	15,96	42,72	63,46	118,12	161,72	213,61	302,83	320,42	464,92	854,45	1174,87	1347,64	1686,28	1838,32	3165,24				
1300	6,13	8,30	12,25	17,29	46,28	68,74	127,96	175,19	231,41	328,06	347,12	503,66	925,65	1272,77	1459,95	1826,81	1991,52	3429,01				
1400	6,60	8,94	13,19	18,62	49,84	74,03	137,80	188,67	249,21	353,30	373,82	542,41	996,86	1370,68	1572,25	1967,33	2144,71	3692,77				
1500	7,07	9,58	14,14	19,95	53,40	79,32	147,64	202,15	267,02	378,53	400,52	581,15	1068,06	1468,59	1684,55	2107,85						
1600	7,54	10,22	15,08	21,28	56,96	84,61	157,49	215,62	284,82	403,77	427,23	619,90	1139,27	1566,49								
1700	8,01	10,86	16,02	22,61	60,52	89,90	167,33	229,10	302,62	429,01	453,93	658,64	1210,47	1664,40								
1750	8,25	11,18	16,49	23,27	62,30	92,54	172,25	235,84	311,52	441,62	467,28	678,01										
1800	8,48	11,50	16,96	23,94	64,08	95,18	177,17	242,58	320,42	454,24	480,63	697,38										
2000	9,42	12,77	18,85	26,60	71,20	105,76	196,86	269,53	356,02	504,71	534,03	774,87										
2250	10,60	14,37	21,20	29,92	80,10	118,98	221,47	303,22	400,52	567,80	600,79	871,73										
2500	11,78	15,97	23,56	33,25	89,01	132,20	246,07	336,91	445,03	630,89	667,54	968,59										
2750	12,96	17,57	25,92	36,57	97,91	145,42	270,68	370,60	489,53	693,98	734,29	1065,45										
3000	14,14	19,16	28,27	39,90	106,81	158,64	295,29	404,29	534,03	757,07												
3250	15,31	20,76	30,63	43,22	115,71	171,86	319,90	437,98														
3500	16,49	22,36	32,98	46,54	124,61	185,08	344,50	471,68														
3600	16,96	22,99	33,93	47,87	128,17	190,37																
3750	17,67	23,95	35,34	49,87	133,51	198,30																
4000	18,85	25,55	37,70	53,19																		
4500	21,20	28,74	42,41	59,84																		
5000	23,56	31,94	47,12	66,49																		

Nominal K.W.

All the reading between that fall below the heavy black line correspond to Flexible Couplings models with hubs that are fitted on the flanges (CE).

Engine drive service factor :

In case that engine has four or more cylinders, must be added 1,0 to the Service Factor selected in table II. For engines with more than 6 cylinders add 0,5 to the Service Factor selected in table II. For engines with less than 4 cylinders contact Gummi.

GENERAL INDUSTRY
Table II

AGITATORS	Flight, Screw	1.00	GENERATORS	Hog	2.00
Vertical and Horizontal Screw Propeller, Paddle	Bucket	1.25	Even Load	1.00	1.50
GARGE HAUL PULLER	Live Roll, Shaker and Reciprocating	3.00	Hoist or Railway Service	1.50	
BLowers	Main Hoist	2.00	Welder Load	2.00	
Centrifugal	Slope	1.75	HAMMER MILL	1.75	
Lobe or Vane	CRANES AND HOIST	1.50	LAUNDRY WASHER OR TUMBLER	2.00	
CAR DUMPERS	Slope	1.50	LINE SHAFTS		
CAR PULLERS	Bridge, Travel or Trolley	1.75	Any Processing Machinery	1.50	
CLARIFIER OR CLASSIFIER	DYNAMOMETER ELEVATORS	1.75	MACHINE TOOLS		
COMPRESSORS	Bucket, Centrifugal Discharge	2.00	Auxiliary Drive	1.00	
Centrifugal	Freight	▲	Bending Roll, Notching Press,	1.75	
Rotary, Lobe or Vane	Gravity Discharge	1.25	Punch Press, Planer, Plate Reversing	1.50	
Rotary, Screw	Passenger	▲	Main Drive	1.50	
Reciprocating	ESCALATORS	1.00	Traverse Drive	1.00	
Direct Connected	EXCITER, GENERATOR	1.00	MAN LIFTS	▲	
Without Flywheels	EXTRUDER, PLASTIC	1.50	METAL FORMING MACHINES		
★ With Flywheel and Gear between Compressor and Prime Mover	FANS		Draw Bunch Carriage and Main Drive	2.00	
1 cylinder, single acting	Centrifugal	1.00	Extruder	2.00	
1 cylinder, double acting	Cooling Tower	2.00	Forming Machine and Forming Mills	2.00	
2 cylinders, single acting	Forced Draft - Across the Line start	1.50	Slitters	1.00	
2 cylinders, double acting	Forced Draft Motor	1.00	Wire Drawing or Flattening	2.00	
3 cylinder, single acting	Driven thru fluid or electric slip clutch	1.00	Wire Winder	1.50	
3 cylinder, double acting	Gas Recirculating	1.50	Corlers and Uncorlers	1.50	
4 cylinder, single acting	Induced Draft with damper	1.25	MIXERS (see Agitators)		
4 cylinder, double acting	control or blade cleaner	1.25	Concrete	1.75	
4 cylinders, double acting	Induced Draft without controls	2.00	Muller	1.50	
	FEEDERS	2.00	PRESS, PRINTIN	1.50	
	Apron, Belt, Disc, Screw	1.00	PUG MILL	1.75	
	Reprocating	2.50	PULVERIZERS		
CONVEYORS			Hammermill	1.75	
Apron, Assembly, Belt, Chain					

APPLICATION BY INDUSTRY

AGGREGATE PROCESSING, CEMENT, MINING KILNS, TUBE, ROD AND BALL MILLS	(Reciproacting)	Refer to Factory	Kickout	2.00	Pulp Grinder	2.00
Director or on L.S. shaft of Reducer, with final drive:	Log Haul	2.00	Piercer	3.00	Reel, Rewinder, Winder	1.50
Machined Spur Gears	Planer	1.75	Reeler	2.50	Stock Chest, Washer, Thickener	1.50
Single Helical or Herringbone Gears	Rolls, Non-Reversing	1.50	Thrust Block	2.50	Suction Roll	1.75
Conveyors, Feeders, Screens, Elevators	Rolls, Reversing	2.00	Tube Conveyor Rolls	2.00	RUBBER INDUSTRY	
Crushers, Ore or Stone	Sawdust Conveyor	1.25	Sideguards	2.00	Calender	2.00
Dryer, Rotary	Slab Conveyor	1.75	Skelp Mills	Refer to factory	Craker, Plasticator	2.50
Grizzly	Sorting Table	1.50	Slitters, Steel Mill only	1.75	Extruder	1.75
Hammermill or Hog	Trimmer	1.75	Soaking Pit Cover Drives		Intensive or Banbury Mixer	
Tumbling Mill or Barrel	METAL ROLLING MILL AUXILIARIES		Lift	1.50	Mixing Mill, Refiner or Sheeter	
BOTTLE AND DISTILLING	Coilers (up or down) Cold Mills only	1.50	Travel	2.50	One or two in line	2.50
Bottle and Can Filling Machines	Coilers (up or down) Hot Mills only	2.00	Straighteners	2.00	Three or four in line	2.00
Brew Kettle	Coke Plants	1.50	Unscramblers (Billet Bundle Busters)	2.00	Five or more in line	1.75
Cookers, Continuous Duty	Door Opener	2.00	Wire Drawing Machinery	2.00	Tire Building Machine	2.50
Lauter Tub	Pusher or Lorry Car	3.50	Chiller	1.25	Tire & Tube Press Opener (Peak Torque)	1.00
Mash Tub	Traction Drive	3.50	Oilwell Pumping (not over 150% peak torque)	2.00	Tuber, Strainer, Pelletizer	1.75
Scale Hopper, Frequent Peaks	Pusher Ram Drive	2.50	Paraffin Filter Press	1.50	Warming Mill	
CLAY WORKING INDUSTRY	Cold Mills		Rotary Kiln	2.00	Oner or two Mills in line	2.00
Brick Press, Briquette Machine, Clay Working Machine, Pug Mill	Strip Mills	Refer to factory	PAPAR MILLS	2.25	Three or more Mills in line	1.75
DREGES	Cooling Beds	Refer to factory	Barker Auxiliary, Hydraulic	2.25	Washer	2.50
Cable Reel	Drawbench	1.50	Barker, Mechanical		SEWAGE DISPOSAL EQUIPMENT	
Conveyors	Feed Rolls - Blooming Mill	2.00	Barking Drum		Bar Screen, Chemical Feeders, Collectors, Dewatering Screen, Grit Collector	1.00
Cutter Head, Jig Drive	Furnace Pushers	2.00	L.S. shaft of reducer with final drive - Helical or Herringbone Gear	2.00	Cane Carrier & Leveler	1.75
Maneuvering Winch	Hot and Cold Saws	2.00	Machined Spur Gear	2.50	Cane Knife & Crusher	2.00
Pumps (uniform load)	Hot Mills	Refer to factory	Cast Tooth Spur Gear	3.00	Mill Stands, Turbine Driven	
Screen Drive, Stackter	Edger Drivers	Refer to factory	Beater & Pilper	1.75	with all helical or herringbone gears	1.50
Utility Winch	Reversing Blooming or Slabbing Mills	Refer to factory	Beathers, Coaters	1.00	Electric Drive or Steam Engine	
FOOD INDUSTRY	Strip or Sheet Mills	Refer to factory	Calender & Super Calender	2.00	Drive with Helical Herringbone, or Spur Gears with any Prime Mover	1.75
Beet Slicer	Ingot Cars	2.50	Chipper	3.00	TEXTILE INDUSTRY	
Bottling, Can Filling Machine	Manipulators	3.50	Converting Machine	1.50	Batcher	1.25
Cereal Cooker	Merchant Mills	Refer to factory	Couch	1.75	Calender, Card Machine	1.50
Dough Mixer, Meat Grinder	Mill Tables		Cutter, Felt Whipper	2.00	Cloth Finishing Machine	1.50
LUMBER	Hot Bed or Transfer non-reversing	2.00	Cylinder, Dryer	1.75	Dry Can, Loom	1.50
Band Resaw	Roughing Breakdown Mills	4.00	Felt Stretcher	1.25	Dyeing Machinery	1.25
Circular Resaw, Cut off	Runout, non-reversing, non-plugging	2.50	Fourdrinier	1.75	Knitting Machine	Refer to factory
Edger, Head Rig, Hog	Runout, reversing	4.00	Jordan	2.00	Mangle, Napper, Soaper	1.25
Grang Saw	Reel Drives	1.75	Log Haul	2.00	Spinner, Tenter Frame, Winder	1.50
	Rod Mills	Refer to factory	Line Shaft	1.50		
	Screwdown	1.50	Press	2.00		
	Seamless Tube Mills					

• For motor driven reducers with resilient high speed and low speed shaft coupling, refer to Table II A. For motors with brakes, select the coupling based on the higher of the two torque ratings.

* For balanced opposed design, divide number of cylinders by two and use above table for reciprocating compressors.

Selection of the coupling using the nominal torque (tn)

Use one of the following formula in relation to the power unit" y poner las 3 formulas:

$$Tn: 7062 \times HP \times FS$$

RPM

$$Tn: 7162 \times CV \times FS$$

RPM

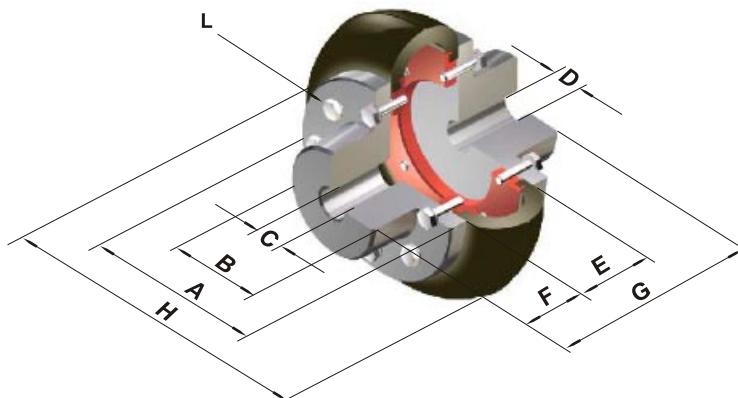
$$Tn: 9550 \times KW \times FS$$

RPM

Please look in Table III for the model which the nominal torque is the same or higher than the one which was originally calculated, and verify the diameter between the shafts depending on the max and minimum. (see table III - page 4)

Conventional Model

With two Normal Hubs (drawing 1)



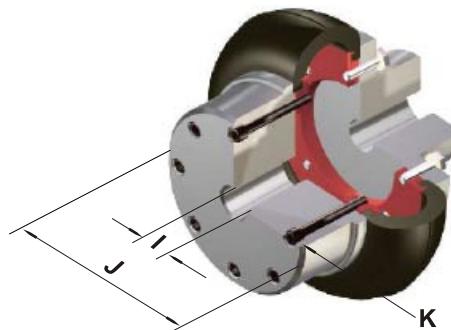
- A - Ø Flange of the Hub
- B - Ø Neck of the Hub
- C - Ø Máx. bore
- D - Ø Min. bore
- E - With of the Flexible Element
- F - Length of the Hub
- G - Length of the Flexible Coupling
- H - Ø Flexible Element
- L - Screw

Table III

NORMAL HUB													Metric Hex Cap Screws	
MODEL	Nominal Torque Nm	Torsion (°)	weight (1) (Kg.)	Gd2 (Kg m2)	A	B	C Max	D Min	E	F	G	H	N.	Dimension mm
A-20	45	2°	1.05	0.0017	74	36	24	10	30	25	80	95	12	6 x 1 x 20
A-25	61	5°	1.09	0.0018	74	36	24	10	30	25	80	95	12	6 x 1 x 20
A-30	90	2°	2.40	0.0094	96	49	32	10	40	35	110	127	16	8 x 1,25 x 25
A-35	127	4°	2.65	0.0098	96	49	32	10	40	35	110	127	16	8 x 1,25 x 25
A-45	340	3°	5.00	0.0382	127	70	48	15	50	45	140	167	20	8 x 1,25 x 25
A-50	505	6°	5.32	0.0402	127	70	48	15	50	45	140	167	20	8 x 1,25 x 25
A-60	940	5°	12.50	0.1065	169	100	65	25	65	60	185	224	24	10 x 1,50 x 35
A-70	1287	9°	13.30	0.1593	169	100	65	25	65	60	185	224	24	10 x 1,50 x 35
A-80	1700	5°	24.90	0.594	218	116	85	30	90	80	250	302	20	12 x 1,75 x 45
A-90	2410	6°	26.00	0.639	218	116	85	30	90	80	250	302	20	12 x 1,75 x 45
A-95	2550	4°	34.90	0.912	235	138	100	40	90	80	250	330	24	12 x 1,75 x 45
A-105	3700	8°	44.00	0.982	235	138	100	40	90	80	250	330	24	12 x 1,75 x 45
A-120/120	6800	5°	86.00	3.80	297	195	120	45	120	130	380	403	20	16 x 2 x 60
A-140/140	9350	9°	94.00	3.82	297	195	140	45	120	130	380	403	20	16 x 2 x 60
A-155/155	10725	6°	126.00	5.76	350	220	155	50	140	150	440	470	14	16 x 2 x 60
A-165/165	13420	10°	135.00	5.85	350	220	165	50	140	150	440	470	14	16 x 2 x 60
A-170/70			170.20	12.22		150	70	30		80	345			
A-170/130	14630	7°	211.80	13.75	436	236	130	70	185	130	445	550	24	20 x 2,50 x 75
A-170/170			242.80	17.65		276	170	120		180	545			
A-200/90			192.60	13.30		186	90	40		100	385			
A-200/140	25190	11°	202.40	13.75	436	200	140	70	185	130	445	550	24	20 x 2,50 x 75
A-200/200			276.80	19.20		276	200	120		180	545			
A-240/150			364.70	51.50		225	150	100		160	556			
A-240/200	43060	4°	447.40	55.35	535	290	200	100	236	180	596	740		
A-240/240			633.60	84.50		390	240	100		275	786			
A-300/150			370.00	50.70		225	150	110		160	556			
A-300/200			450.00	54.50		290	200	100		200	636			
A-300/250	86120	10°	640.00	69.40	535	350	250	100	236	275	786	740		
A-300/300			695.00	83.70		390	300	100		275	786			
A-350/200			1049.00	453.20		290	200	120		200	735			
A-350/250	118750	6°	1211.00	466.40	820	350	250	120	335	275	885	1130		
A-350/350			2237.00	691.00		600	350	120		375	1085			
A-400/250	168750	10°	1219.00	459.20	820	350	250	120	335	275	885	1130		
A-400/400			2245.00	697.00		600	400	120		375	1085			

The information displayed in this catalog is subject to modifications without warning.

With one Normal hub and one integral hub (design 2)



I - Ø Máx. bore
J - Ø Neck of the Hub
K - Screw

Table IV

INTEGRAL HUB			Metric Socket Head Cap Screws		INTEGRAL HUB			Metric Socket Head Cap Screws	
Size	I Max	J	N. (1)	Dimension mm	Size	I Max	J	N. (1)	Dimension mm
A-20	30	66	6	6 x 1 x 30	A-120	170	*	10	16 x 2 x 150
A-25	30	66	6	6 x 1 x 30	A-140	170	*	10	16 x 2 x 150
A-30	44	86	8	8 x 1,25 x 40	A-155	200	*	14	16 x 2 x 165
A-35	44	86	8	8 x 1,25 x 40	A-165	200	*	14	16 x 2 x 165
A-45	60	110	10	8 x 1,25 x 50	A-170	250	*	12	20 x 2,5 x 200
A-50	60	110	10	8 x 1,25 x 50	A-200	250	*	12	20 x 2,5 x 200
A-60	90	150	12	10 x 1,50 x 65	A-240	*	*	30	
A-70	90	150	12	10 x 1,50 x 65	A-300	*	*	30	
A-80	100	180	10	12 x 1,75 x 95	A-350	*	*	30	
A-90	100	180	10	12 x 1,75 x 95	A-400	*	*	30	
A-95	125	198	12	12 x 1,75 x 95					
A-105	125	198	12	12 x 1,75 x 95					

Integral Hubs can be used when the shaft diameter is greater than the ones listed in Table III.

The Assembly can be used with one or two integral hubs according to the applications needs.

The information displayed in this catalog is subject to modifications without warning.

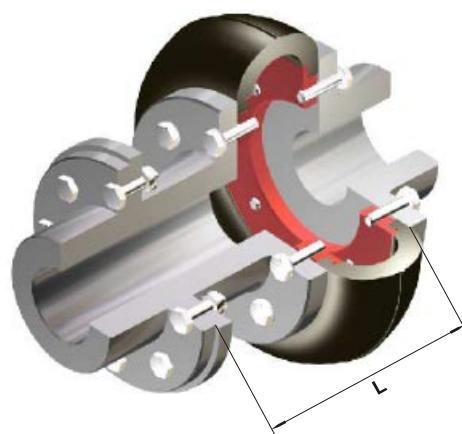
TYPE OF ASSEMBLY

With spacer (ES)

All the different coupling version can be outfitted with a spacer, which facilitates the disassembling, which is common in pump applications (Back pull-out).

For this request, please indicate the distances between the shaft points "L".

MODEL	ES 75	ES 100	ES 140	ES 180
A-20/25	*	*	*	
A-30/35		*	*	*
A-45/50		*	*	*
MODEL	ES 140	ES 180	ES 215	ES 250
A-60/70	*	*	*	
A-80/90		*	*	*
A-95/105		*	*	*

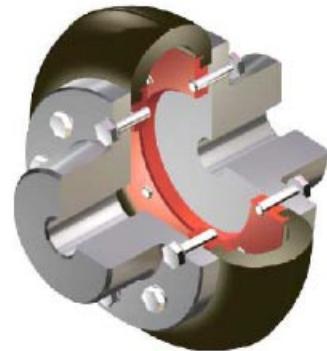


Special Versions

High speeds (CE)

For applications where the speeds fall outside of the parameters in the table, the shafts must be dynamically balanced and aligned, and used with fitted hubs.

When making this request, please indicate the rotating speed (RPM)

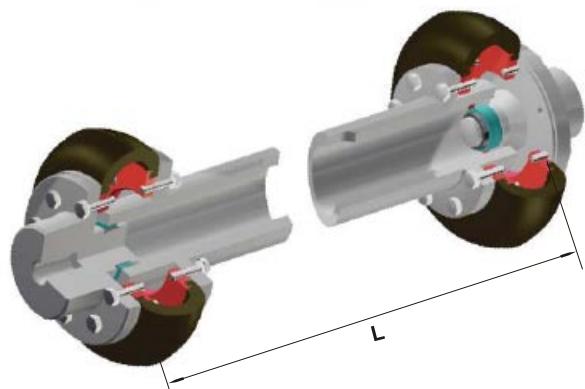


Floating Shafts (EF)

The floating shaft coupling used with the shaft tip guide allows for a higher angular and axial movement.

Specially designed to be used in cooling tower applications.

For this request, please indicate the distances between shaft points.

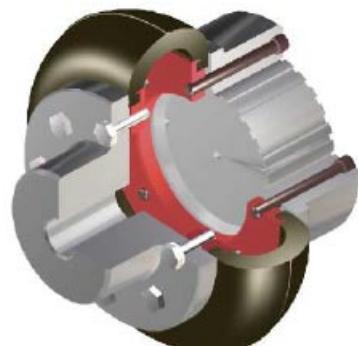


Axial Hub (CX)

This model has been developed for applications that do not allow for axial displacement due to their construction characteristics. Use indicated hubs for machines with sliding shafts.

When making the request, indicate the maximum displacement.

MODEL	Ø Max.	Ø Min.	MODEL	Ø Max.	Ø Min.
A-20/25	21	15	A-95/105	73	40
A-30/35	29	15	A-120/140	102	50
A-45/50	42	15	A-155/165	140	60
A-60/70	60	25	A-170/200	180	70
A-80/90	64	30			



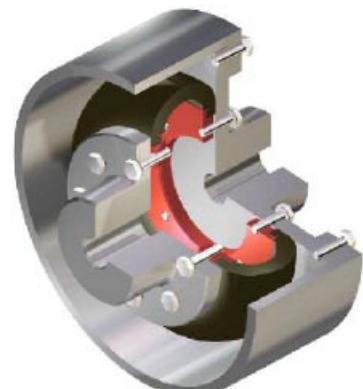
The information displayed in this catalog is subject to modifications without warning.

With Drum Brakes (APF)

Combined with drum brakes, and applies to mechanical, electromagnetic, and Air Brakes.

It is recommended only with standard drums which have an outside diameters of 6", 8", 10", 12", 14", and 16".

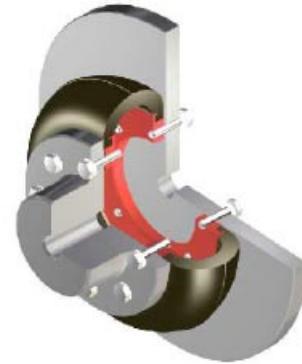
If your application requires other diameters, please consult with our engineering department.



Assembly on Fly Wheels - Mounting Plate (CF)

For applications where it is convenient to assemble the coupling onto the fly wheel of an engine, when the mounting space is limited, it is recommended that you use a Mounting Plate model.

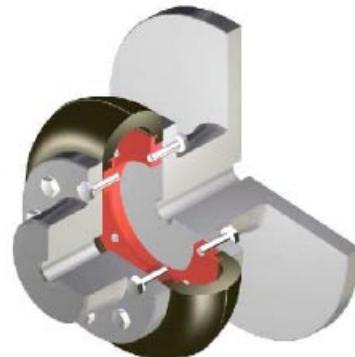
Indicate flange size when ordering.



Assembly of Fly Wheels - Extended Mounting Plate (CC)

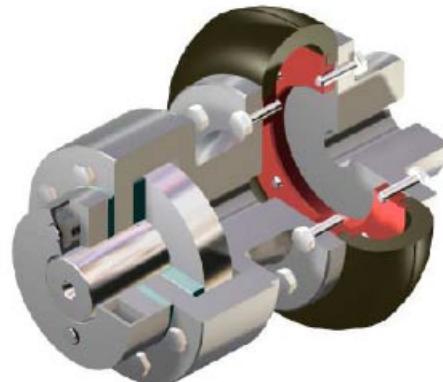
For applications where it is convenient to assemble the coupling onto the fly wheel of an engine, when the mounting space in not limited, it is recommended that you use a Extended Mounting Plate.

Consult with Gummi Engineering Department for different size models.



Torque Limiters (LT)

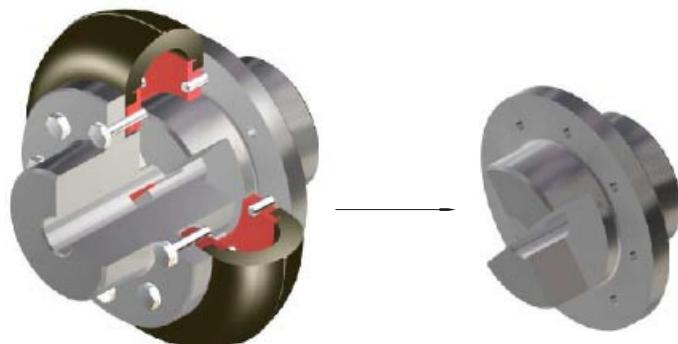
Designed to protect the transmission on Torque overloads. The LT type coupling allows slippage, avoiding any adverse effect of the torque overload on the transmission.



Security Ties (BS)

Used in applications when the transmission must continue functioning, regardless of overloads.

The Security Ties limit the possibility of failure with the Flexible Coupling.

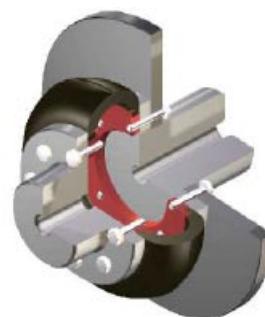


Special Versions

For Disc Brakes (DF)

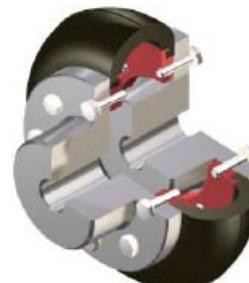
Designed to be used with a disc or ventilated brake, or with air / hydraulic systems.

For the disc diameters, consult Gummi Engineering Department.



Inverted Hub (CIN)

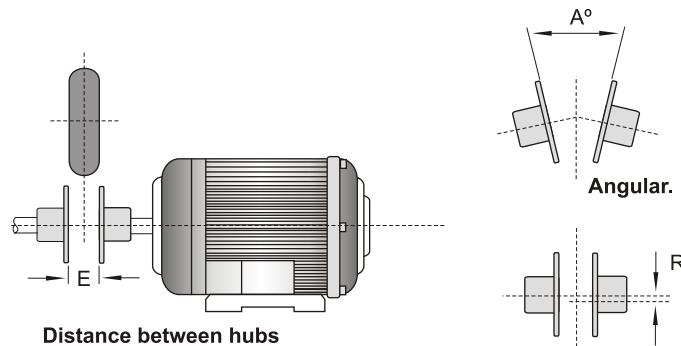
For installations where a standard coupling configuration would be difficult to mount, due to reduced space between shafts. The type CIN design allows the coupling to be mounted with one inverted hub greatly reducing the coupling overall width.



Assembly Instructions

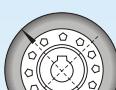
The Values "A" and "R" are the maximum tolerances allowed.

MODEL	E (mm)	+tol (mm)	ANGULAR (°)	RADIAL (mm)	TORQUE (Nm)	
					Tightening cross	circular
A20 / 25	30	0.5	0.5	0.25	5	5
A30 / 35	40	0.5	1	0.4	7.5	10
A45 / 50	50	1	1.5	0.5	10	20
A60 / 70	65	1	1	0.8	20	30
A80 / 90	90	2	1.5	1	50	60
A95 / 105	90	2	1.5	1	50	60
A120 / 140	120	4	2	2	60	70
A155 / 165	140	4	2	2	60	70
A170 / 200	185	4	3	3	100	150
A240 / 300	236	5	4	3	150	220
A350 / 400	335	5	4	3	180	250

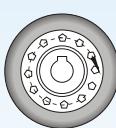


In the initial assembly, the hubs must be aligned and left with a gap between both hubs equal to the distance "E" indicated in the table.

Example to assembly the coupling



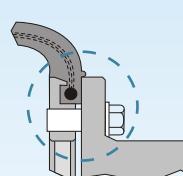
- First adjustment in the shape of the cross.



- Second adjustment in circular motion.

For a precise adjustment, use a torque wrench and tighten according to the torque values shown in the table.

For the adjustment of taper lock hubs and or flywheels, use only Dynamometer.

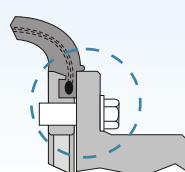


Correct Adjustment

We recommend that you check and re tighten the coupling after the first 24 Hours of operation after installation.

Incorrect Adjustment

Over tightening can cause premature failure in the flexible coupling.



Hazardous Environments (BE)

The elastomeric compound used within Gummi's rubber elements generally provides good resistance to chemical products and aggressive agents. In the cases where the coupling will be continuously operating Hazardous environments, the application of a special coating on to the rubber element is recommended. When ordering, please indicate what agents and conditions will be encountered and on what frequency.

Steam	○○
Acid	○○
Oil	○
Ethanol Glycerin	○○○
Outdoors - extreme heat or cold	○○

○ Low ○○ Medium ○○○ High



Due to the importance of these applications, and faced with the challenge to satisfy the request of these customers, Gummi continues to develop new and exclusive technologies that apply to High Torque applications.



As with our standard line of flexible couplings, Gummi continues to develop our newest coupling models and compounds that increase the ability to transmit power by 25%.

Gummi, Total Quality.



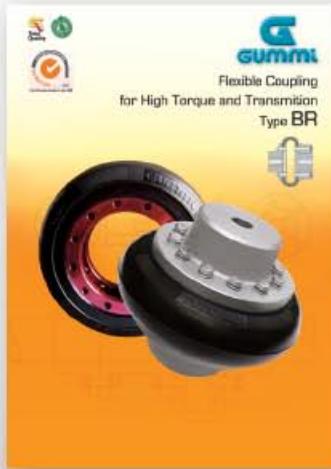
In the last few years, Gummi has become a consultant to various companies that invest in preventative maintenance and technical development in order to optimize their cost in high performance applications.

As a result, we have designed couplings with the following performance characteristics;

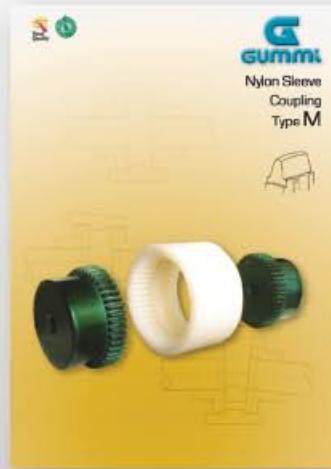
- High Capacity to transmit torque
- Compact Designs*
- Protection to increase working life of primary and secondary machine components and parts

* in the same side of flexible coupling, we get until 5 times the nominal torque.

Couplings



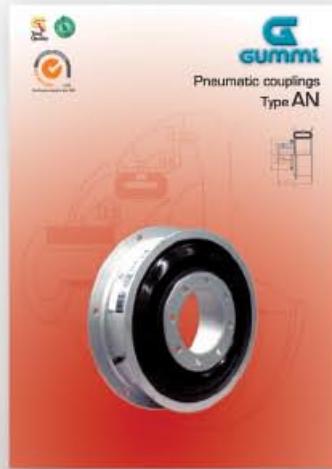
Flexible



Nylon Coupling

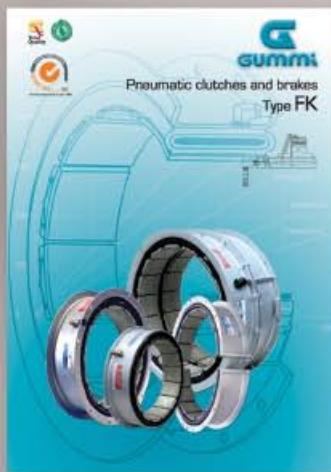


Hydraulic



Pneumatic

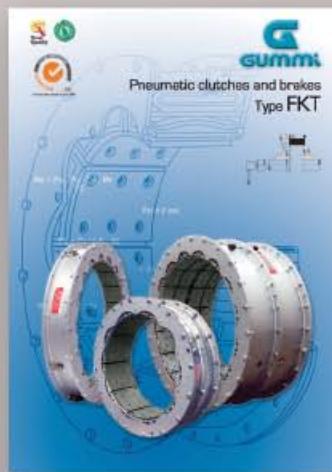
Pneumatic Clutches and Brakes



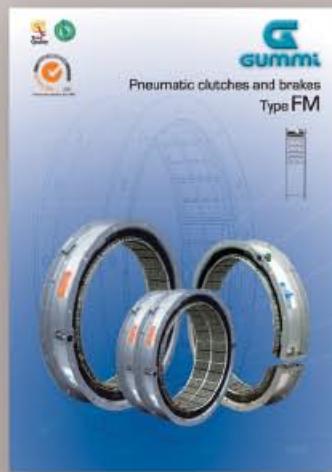
Type FK



Type FKE - FKR



Type FKT

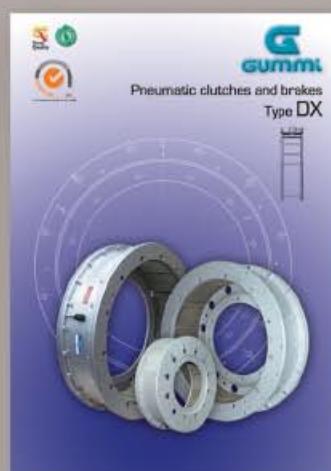


Type FM

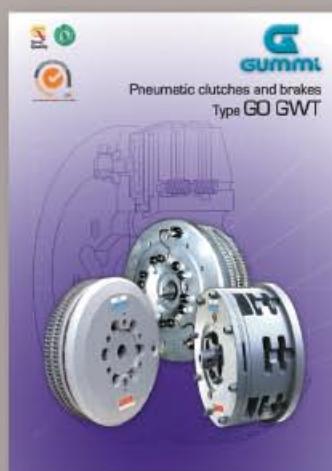
Rotorseal & QRV



Type RN - RNT



Type DX



Type GO - GWT

