



## **ROTOFLEX®** COUPLINGS

## For Motor Vehicle Propeller Shafts · Half Shafts Steering Columns · Industrial Drives, etc.

Accommodates large angular and axial displacements with minimum resistance.

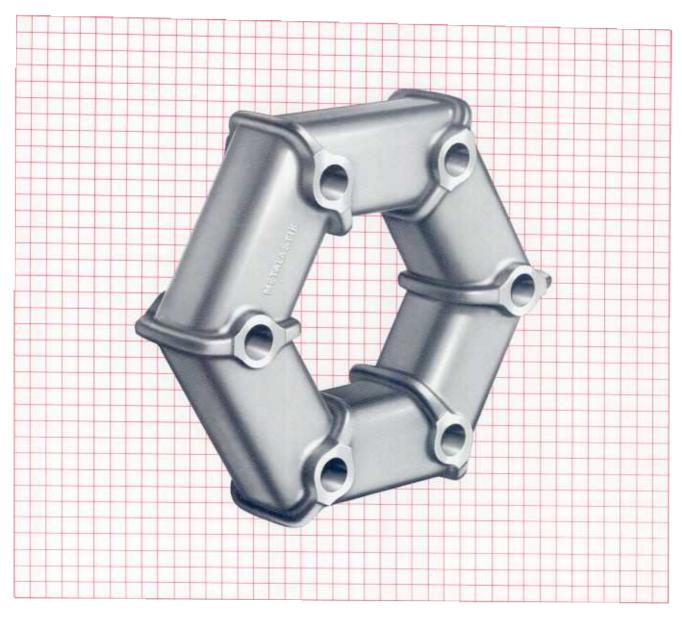
Reduces torsional vibration and noise.

Absorbs torque fluctuations.

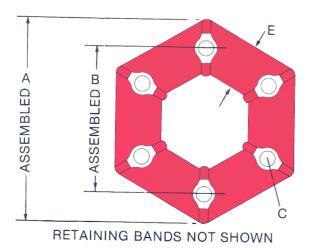
Replaces mechanical joints, eliminating lubrication and metal-to-metal wear.

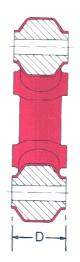
No servicing required.

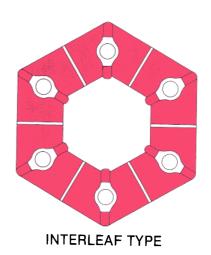
Unaffected by dust, grit or moisture.



The Metalastik Rotoflex Coupling consists of a regular polygon of rubber with metal inserts bonded in position. It can have 4, 6 or 8 sides. After moulding, the rubber elements in the coupling are compressed by the fitting of a steel retaining band. This important design feature ensures maximum fatigue life. The retaining band is discarded after assembly. Metal interleaves bonded into the rubber elements provide increased torque capacity when required. Rotoflex couplings have proved highly successful for motor car propeller and half-shaft applications for auxiliary drives on road vehicles and for many industrial drives.

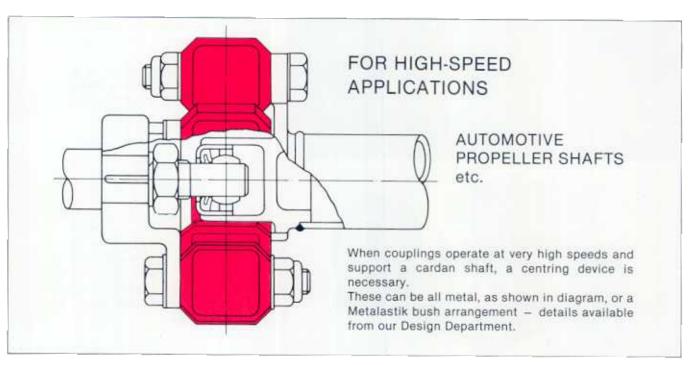






PART No.		A OVERALL DIAMETER (ASSEMBLED)	B P.C.D. OF BOLT CENTRES (ASSEMBLED)	C DIAMETER OF FIXING HOLES	D WIDTH ACROSS METAL FACES	E DIAMETER OF RUBBER CROSS SECTION
21/555/1	mm.	91	65	8	28	22
	ins.	3 · 58	2 · 58	·32	1 · 10	·87
21/1026/1	mm.	117	85	10	32	27
217102071	ins.	4 · 61	3 · 35	· 39	1.26	1.06
21/892/1	mm.	137	96	11	46	33 SQUARE
	ins.	5.38	3.78	· 45	1.83	1.3 SQUARE
21/932/1	mm.	162	113	13	47	37 × 42
	ins.	6 · 38	4 · 44	·52	1.84	1·44×1·66
21/967/1	mm.	137	96	11	46	33 SQUARE
-1.00//1	ins.	5.38	3.78	· 45	1.83	1·3 SQUARE
21/979/1	mm.	162	113	13	47	37 × 42
	ins.	6.38	4 · 44	· 52	1.84	1 · 44 × 1 · 66
21/924/1	mm.	187	133	16	57	44
	ins.	7 · 38	5 · 25	· 64	2 · 25	1.75
21/524/1	mm.	234	170	20	62	50
	ins.	9 · 21	6.69	· 79	2 · 44	1.97
21/933/1	mm.	187	133	16	70	44 × 57
	ins.	7 · 38	5 · 25	·64	2.75	1 · 75 × 2 · 25
21/525/1	mm.	254	186	20	68	56
	ins.	10.00	7 · 32	·79	2.68	2 · 20
21/526/1	mm.	281	210	20	78	60
21102011	ins.	11.06	8 · 27	· 79	3.07	2 · 36





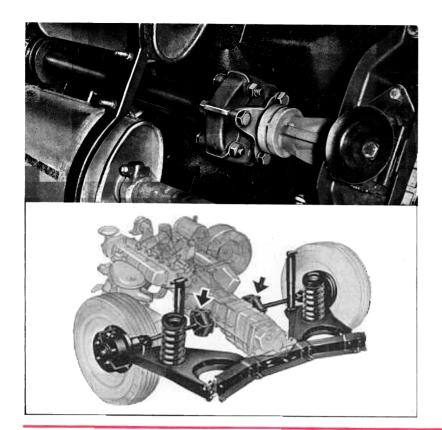
Our engineers will be pleased to advise on any application on receipt of the following - torque, speed and misalignment.

	TOP	QUE			NORMAL	NORMAL CONTINUOUS CARDAN DEFLECTION	
PART No.	NORMAL Nm. lb.ft.	MAXIMUM Nm. lb.ft.	TORSIONAL STIFFNESS Nm./deg.lb.ft./deg.	AXIAL STIFFNESS	AXIAL DEFLECTION mm. ins.		
	40	100				degrees	
21/555/1	30	75	5,4	55 310	2,54 0 · 10	- 5	
21/1026/1	80	200	10,8	60	4.06	5	
	60	145	8	345	0 · 16		
21/892/1	190	460	27	115	5,08	_	
21/052/1	140	340	20	650	0 · 20	5	
21/932/1	240	600	32	105	6,35	5	
2170027	180	440	24	590	0 · 25	5	
21/967/1	280	680	37 115		5,08	5	
21100111	210	500	27	650	0 · 20	5	
21/979/1	340	830	45	105	6,35	5	
21/3/3/1	250	610	33	33 590		5	
21/924/1	450	1080	65	160	7,62	5	
21/324/1	330	800	48	890	0.30	5	
21/524/1	550	1400	65	80	8,89	5	
	405	1030	48	450	0 · 35	3	
21/933/1	570	1360	75 255		3,81	- 3	
	420	1000	55	1450	0 · 15	3	
21/525/1	800	1990	102	105	9,40	- 5	
21/020/1	590	1470	75	600	0.37		
21/526/1	1190	2980	190	175	7,62	3	
	880	2200	140	1000	0.30		

Larger continuous cardan deflections can be accommodated in certain applications. For shock and bump loads increase the above figures by a factor of 3.

The couplings listed will cater for running speeds up to 8,000 r.p.m. for the smallest size, and up to 2,000 r.p.m. for the largest size.



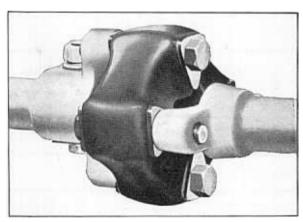


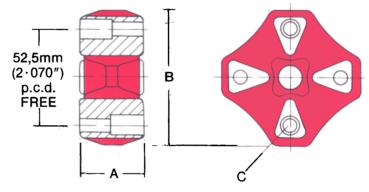
Rotoflex couplings provide torsional and axial flexibility in the drive shaft system.

When applied to motor-car propeller shafts a centring device is necessary. See diagram on page 3.

Accommodating axial as well as universal movements, Rotoflex couplings reduce loads on gear-box casing and bearings and obviate the need for sliding splines. Their flexibility promotes a smooth drive and helps to reduce noise.

## ROTOFLEX STEERING COLUMN COUPLINGS





Assembled on P.C.D. 49 mm. (1.937")

PART No.		А	В	С	MAXIMUM ANGULAR MISALIGNMENT degrees	TORSIONAL STIFFNESS Nm./deg. lb.ft./deg.	AXIAL STIFFNESS kN/m. lb.in.
21/568/1	mm. ins.	33,27 1·312	73 2·875	C/BORED	10°	4,3 3·2	150 860
21/1014	mm. ins.	33,27 1·312	73 2·875	PLAIN	10°	4,3 3·2	150 860
21/940/1	mm. ins.	25,40 1·00	70,4 2·77	KEYED	15°	3,1 2·3	105 600

Part No. 21/940/1 has a retaining band



VIBRATION CONTROL SYSTEMS

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The Metalastik product range is subject to development which may result in amendment or withdrawal of the data provided in this literature.

Product performance information given is calculated nominal static data which must be verified by adequate testing by the buyer in the configuration in which the components are to be used. If incorrectly used danger or damage may result.

For any proposed application additional free technical assistance will be provided on request.

The buyer shall take all reasonable measures to eliminate or reduce any risk to health or safety which may arise from use of the goods. Product data sheets providing information in accordance with Section 6 of the U.K. Health & Safety at Work Act 1974 are available upon request.