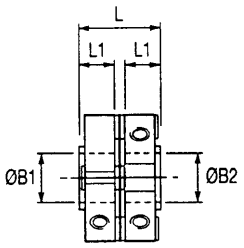
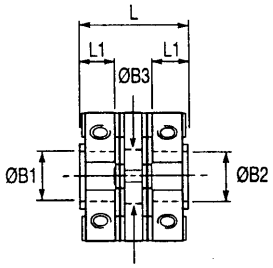
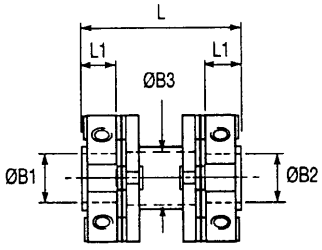
Set screw hubs



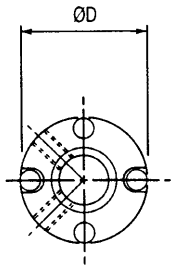
Ref. 460
for use in pairs or with floating shafts



Ref. 464
for precisely aligned shafts

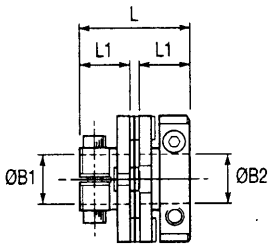


Ref. 468
for greater radial misalignment and lower bearing loads

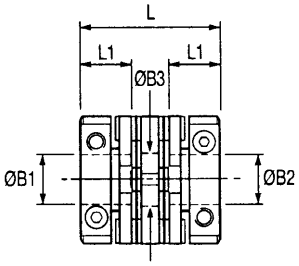


Typical

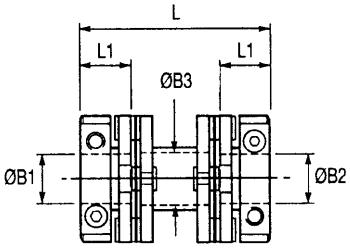
Clamp hubs



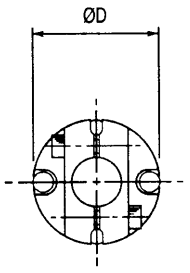
Ref. 462
for use in pairs or with floating shafts



Ref. 466
for precisely aligned shafts

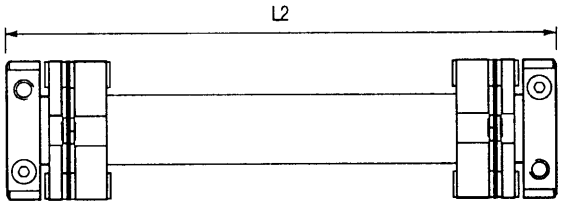


Ref. 470
for greater radial misalignment and lower bearing loads



Typical

Drive shafts



Unless specified otherwise, drive shafts are supplied with inboard hubs cross-pinned and/or bonded to link shaft.

Drive shafts are supplied to order.

Please specify:

- Coupler size
- Hub style and bore diameter at each end
- Keyway details
- Overall length L2
- Minimum torsional stiffness, if critical
- Quantity

Service factors

Peak torque values apply to uniform load, constant speed drives where there is no misalignment or axial motion. Apply the service factors to the application torque as appropriate, eg.,

Application torque = 2 Nm
Service factor = 3
∴ Adjusted torque = 6 Nm

Select a coupler where Peak Torque exceeds 6 Nm.

Note that max compensation values are mutually exclusive. If one parameter is set at maximum, the remaining two must be at zero.

HOW TO ORDER

Combine the COUPLER REF in Main Table with BORE REFS in Standard Bores Table. Please identify both bores e.g.

470.41.3236

Coupler ref.
Ø B1 ref.
Ø B2 ref.

HOW TO INSTALL

Correct installation is important for optimum operation. See *page 12* for details.

MAIN TABLE - DIMENSIONS & ORDER CODES

Coupler Size	Set Screw Hubs	Clamp Hubs	ØD	L	[1] L1	ØB1, ØB2 max	[2] ØB3	Fasteners			[4] Moment of inertia	[4] Mass
								Screw	[3] Torque	Wrench		
	COUPLER REF								Nm	mm	kgm^2 x 10^{-8}	kg x 10^{-3}
19	460.19	-	19.2	13.0	5.6	6.35	N/A	M3	0.94	1.5	30	7
	464.19	-		19.6			7.3				50	10
	468.19	-		27.3							60	12
	-	462.19		20.2	9.2		N/A	M2.5	1.32	2	40	9
	-	466.19		26.8			7.3				60	13
	-	470.19		34.5							60	14
26	460.26	-	25.6	15.8	6.9	10	N/A	M4	2.27	2	120	15
	464.26	-		22.4			11.0				160	18
	468.26	-		30.1							200	23
	-	462.26		21.8	10.0		N/A	M2.5	1.32	2	130	16
	-	466.26		28.4			11.0				160	20
	-	470.26		36.1							210	25
33	460.33	-	33.5	22.5	10.0	12.7	N/A	M5	4.62	2.5	560	37
	464.33	-		32.1			14.1				800	52
	468.33	-		42.8							830	55
	-	462.33		30.5	14.0		N/A	M3	2.43	2.5	520	37
	-	466.33		40.1			14.1				730	51
	-	470.33		50.8							760	55
41	460.41	-	41.5	27.1	12.0	16	N/A	M6	7.61	3	1540	69
	464.41	-		38.5			17.5				2250	97
	468.41	-		50.1							2450	107
	-	462.41		37.1	17.0		N/A	M4	5.66	3	1530	72
	-	466.41		48.5			17.5				2220	100
	-	470.41		60.1							2370	109

Materials & Finishes

Hubs & spacer:
Al. Alloy 7020T6
Clear alocrom finish

Membranes:
Spring quality stainless steel
Heat treated

Rivet assembly:
Brass rivets flanked by formed steel washers
Steel, zinc plate & colour passivate

Fasteners:
Alloy steel, black oiled

Temperature Range

-40°C to +120°C

SERVICE FACTORS

Nature of load	Factor
Uniform load	1.5
Non-uniform load	2
Shock load	3
Reversing shock load	4

PERFORMANCE

Coupler Size	Ref.	[5] Peak torque	[6] Max compensation			[7] Flexural stiffness			
			Angular	Radial	Axial	Torsional	Angular	Radial	Axial
		Nm	± deg	± mm	± mm	Nm / rad	N / deg	N / mm	N / mm
19	460 & 462	0.9	2	0	0.1	220	0.4	-	< 7
	464 & 466		4	0.2	0.2	150	0.25	14	
	468 & 470		4	0.4	0.2	145	0.3	4	
26	460 & 462	2.3	2	0	0.1	585	0.75	-	< 7
	464 & 466		4	0.2	0.2	385	0.5	37	
	468 & 470		4	0.4	0.2	400	0.4	7	
33	460 & 462	5.6	1.5	0	0.1	1560	2	-	< 8
	464 & 466		3	0.2	0.2	935	1	48	
	468 & 470		3	0.4	0.2	980	1.2	13	
41	460 & 462	11.3	1	0	0.1	2710	4	-	< 8
	464 & 466		2	0.2	0.2	1980	2	100	
	468 & 470		2	0.4	0.2	2020	2	25	

1. Length of supported thro' bore.
2. Clearance bore thro' spacer.
3. Recommended tightening torque.
4. Values apply with max bores.
5. ***Peak torque***. Select a size where Peak Torque exceeds the application torque x service factor.
6. Max. compensation values are mutually exclusive.
7. Torsional stiffness values apply at 50% peak torque with no misalignment, measured shaft-to-shaft with largest standard bores. ***Note that in some vendors' catalogues the given torsional stiffness applies to the membrane stack only, giving rise to a greater value.***
8. Couplers can be specified with keyways or 'D' bores. See *page 4* for details.

STANDARD BORES[8]

Coupler Size	ØB1, ØB2 +0.03/-0mm																	
	3	3.175	4	4.763	5	6	6.350	8	9	9.525	10	11	12	12.700	14	15	15.875	16
19	●	●	●	●	●	●	●											
26			●	●	●	●	●	●	●	●	●							
33						●	●	●	●	●	●	●	●	●				
41							●	●	●	●	●	●	●	●	●	●	●	●
Bore ref.	14	16	18	19	20	22	24	28	30	31	32	33	35	36	38	40	41	42
Corresponding bore adaptor					251		253	255			257			259				260

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes.
See *page 32* for details of metallic and electrically insulating adaptors.