



Crownpin Coupling

Brochure

RENOLD | Couplings

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Innovation Everyday

Renold have been driving industry forward through innovation since 1879. Renold Couplings drives industry the world over, from marine, cranes and hoists to manufacture, mass transportation and the pulp and paper industry. Our couplings connect machines to machines through stock solutions and bespoke-crafted connections, all manufactured in our high-tech engineering factories.

Engineering capability

A team of in-house design engineers work to continuously improve the existing product range, introduce new products and deliver innovative new solutions to our customers challenges.

British manufacturer

Since 1946 Renold Couplings have manufactured a full range of couplings and clutches.

Based in Cardiff, UK, we control the full design and manufacture process, bringing class leading quality and complete customer peace of mind.

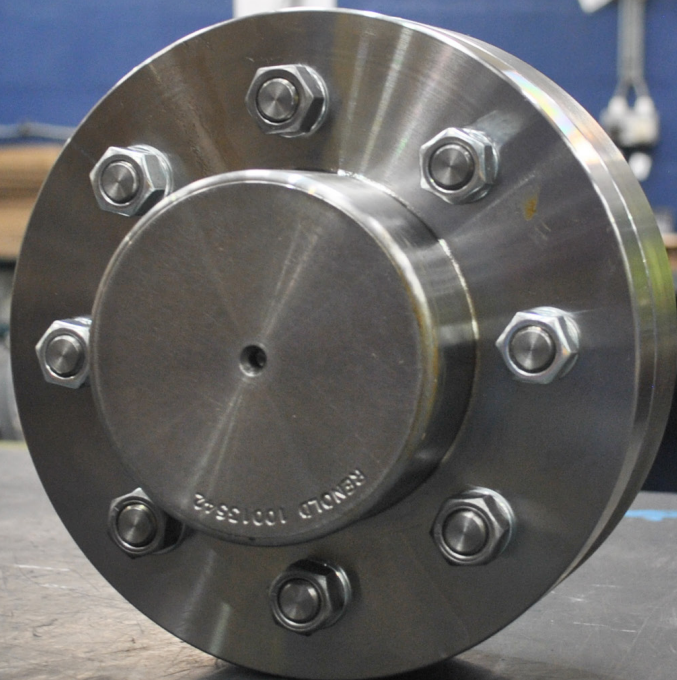
Worldwide support

With manufacturing facilities in 4 continents and support offices in over 30 countries Renold Couplings can offer service that understands the requirements and challenges of your particular market.

Availability

Renold Couplings holds significant stock of standard items and component parts both in our UK facility and with our partners around the world.

Controlling the full manufacturing process, Renold Couplings can deliver responsive lead times for manufactured parts.



Crownpin

An established pin/buffer coupling, offering extended power capacity where the demand for long life and simplicity of construction make it suitable for working in arduous conditions.

Coupling capacity

- Maximum power at 100RPM: 2611kW
- Maximum torque: 249,400Nm

General details

- Cast Iron Half Bodies
- Neoprene Buffers:
- Temp range - 30° to + 95°c



Standard range comprises

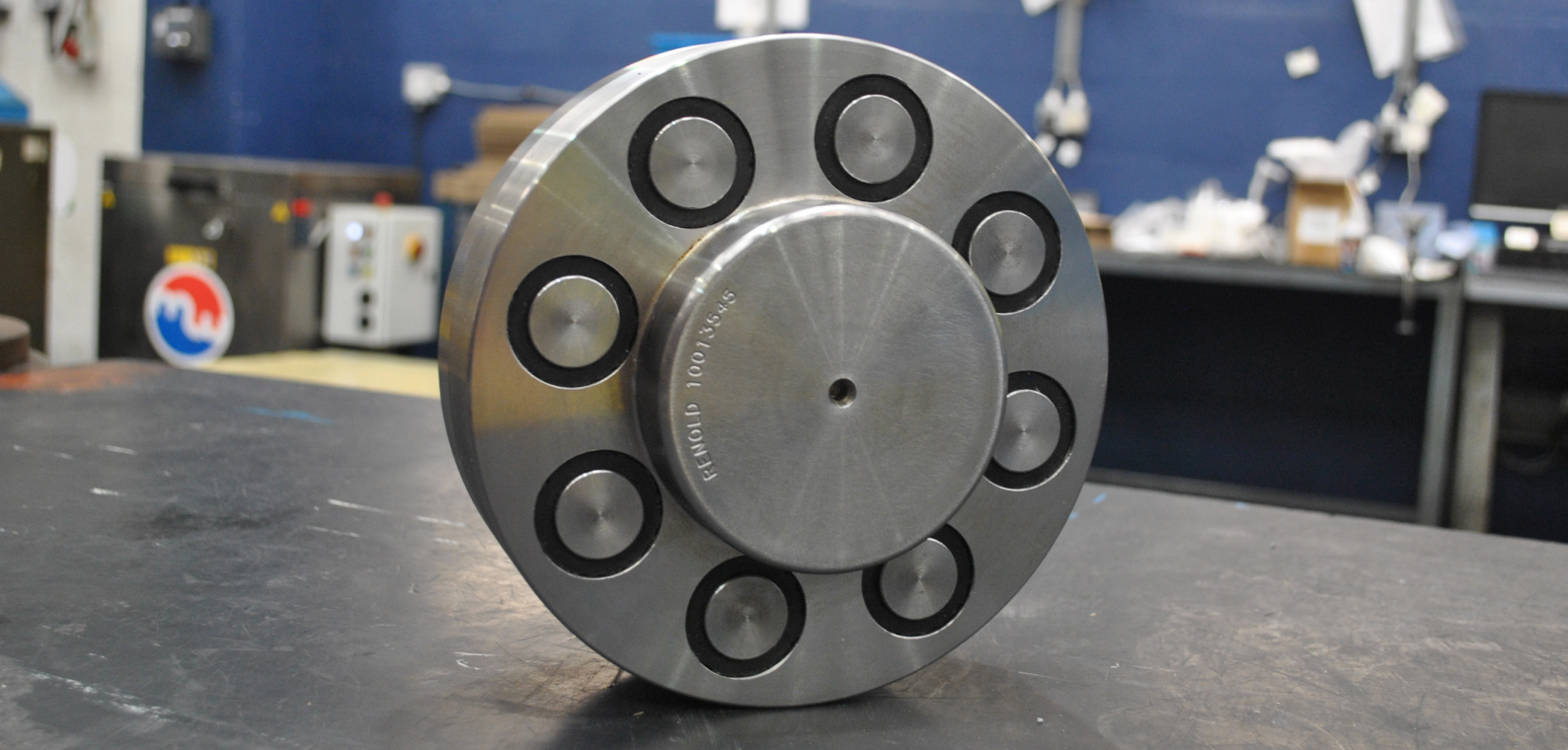
- Shaft to Shaft
- Shear pin
- Brake drum

Applications

- Conveyors
- Cranes
- Fans
- Leisure Rides
- Lifts
- Pumps
- Screens
- Washers
- General Industrial Applications

Features and benefits

- Misalignment capabilities allowing flexible installation
- Maintenance free – minimum number of wearing parts
- Torsionally flexible – shock absorbing, extending machine life
- Heavy duty coupling suitable for shock load conditions
- Neoprene rubber buffers for robust flexibility



Keyway dimensions

Metric (mm)

Keyways comply with BS4235: Part 1: 1972

Shaft dia.		Keyway		
Over	Incl.	J	K	L
6	8	2	2	1.0
8	10	3	3	1.4
10	12	4	4	1.8
12	17	5	5	2.3
17	22	6	6	2.8
22	30	8	7	3.3
30	38	10	8	3.3
38	44	12	8	3.3
44	50	14	9	3.8
50	58	16	10	4.3
58	65	18	11	4.4
65	75	20	12	4.9
75	85	22	14	5.4
85	95	25	14	5.4
95	110	28	16	6.4
110	130	32	18	7.4
130	150	36	20	8.4
150	170	40	22	9.4
170	200	45	25	10.4
200	230	50	28	11.4

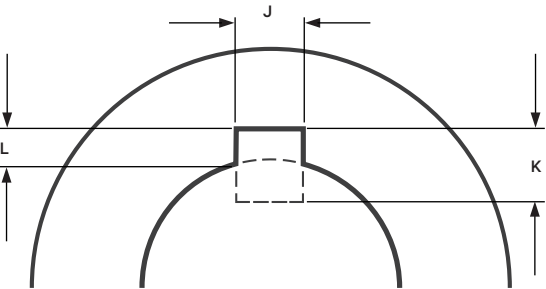
Imperial (inches)

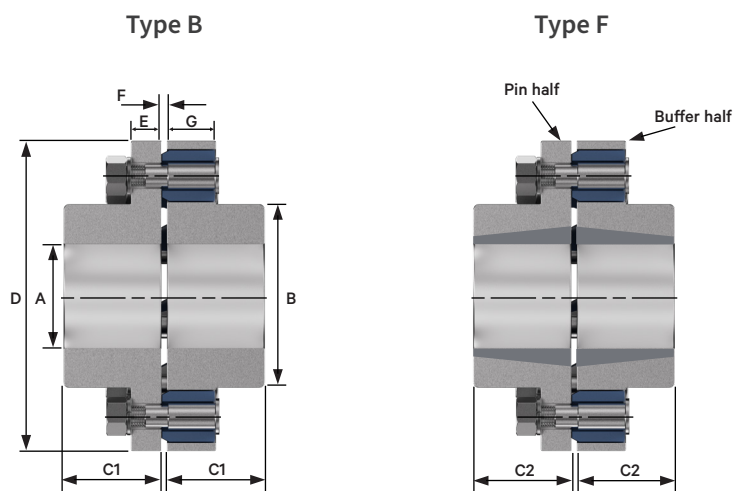
Keyways comply with BS46: Part 1: 1958

Shaft dia.		Keyway		
Over	Incl.	J	K	L
0.25	0.05	0.125	0.125	0.060
0.50	0.75	0.187	0.187	0.088
0.75	1.00	0.250	0.250	0.115
1.00	1.25	0.312	0.250	0.090
1.25	1.50	0.375	0.250	0.085
1.50	1.75	0.437	0.312	0.112
1.75	2.00	0.500	0.312	0.108
2.00	2.50	0.625	0.437	0.162
2.50	3.00	0.750	0.500	0.185
3.00	3.50	0.875	0.625	0.245
3.50	4.00	1.000	0.750	0.293
4.00	5.00	1.250	0.875	0.340
5.00	6.00	1.500	1.000	0.384

Keyway dimensions

Parallel keyways are supplied unless customer states otherwise.





Ordering code

CP 77 # # 8

Crownpin — Size — No of pins

Pin half type
B – Plain bore
F – Taper bush

Buffer half type
B – Plain bore
F – Taper bush

Max angular misalignment 0.15°

Max offset misalignment:-

CP36 to CP135 - 0.13mm
CP150 to CP480 - 0.18mm

Renold continue to supply the following components as spares and replacement parts but recommend Pinflex for new applications.

Catalogue number	Product number	Power/ 100rpm kW	Torque nominal Nm	Speed max rpm	Type B		Bush size	Type F		Dimensions								No of pins	Spare parts code
					Bore A			Bore		B mm	C1 mm	C2 mm	D mm	E mm	F mm	G mm	Mass kg		
					Max	Min		Max	Min										
CP36BB3	7032303	0.37	35	6210	20	0	N/A	-	-	37	32	-	94	15	2.4	23	1.9	3	A
CP48BB4	7032105	0.74	71	4760	35	0	N/A	-	-	62	38	-	122	15	2.4	23	3.7	4	A
CP48BB8	7032305	1.48	142	4760	35	0	N/A	-	-	62	38	-	122	15	2.4	23	3.7	8	A
CP57##4	7032106	1.85	177	3980	45	0	TB1215	32	11	73	45	38	146	19	2.4	29	6.6	4	B
CP57##8	7032306	3.7	354	3980	45	0	TB1215	32	11	73	45	38	146	19	2.4	29	6.6	8	B
CP65##8	7032307	5.21	497	3520	50	0	TB1615	42	14	83	51	38	165	22	3.2	35	10	8	C
CP77##8	7032308	7.45	711	2950	65	0	TB2017	50	18	103	60	45	197	22	3.2	35	15	8	D
CP91##4	7032309	10.44	997	2510	75	38	TB2525	60	19	121	70	64	232	29	4.8	46	30	4	E
CP91##8	7032309	20.9	1995	2510	75	38	TB2525	60	19	121	70	64	232	29	4.8	46	30	8	E
CP106##10	7032310	32.8	3134	2510	90	38	TB3030	75	35	156	83	76	270	29	4.8	46	45	10	E
CP120##8	7032312	41.8	3990	1900	95	45	TB3535	90	35	165	95	89	305	33	6.4	54	63	8	F
CP135##10	7032313	62.7	5984	1690	115	50	TB4040	100	40	203	108	102	343	33	6.4	54	90	10	F
CP150BB10	7032315	97	9262	1520	120	60	N/A	-	-	222	121	-	381	40	6.4	65	130	10	G
CP165BB10	7032316	112	10690	1380	140	65	N/A	-	-	254	133	-	419	40	6.4	65	168	10	G
CP180BB10	7032318	164	15660	1270	145	70	N/A	-	-	267	146	-	457	48	7.9	71	218	10	H
CP210BB12	7032321	246	23490	1090	150	70	N/A	-	-	279	172	-	533	48	7.9	71	295	12	H

The following Crownpin components are recommended for high torque applications as they exceed the Pinflex range.

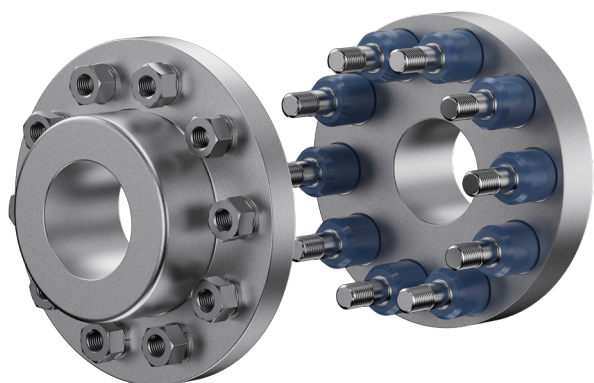
Catalogue number	Product number	Power/ 100rpm kW	Torque nominal Nm	Speed max rpm	Type B		Bush size	Type F		Dimensions								No of pins	Spare parts code
					Bore A			Bore		B mm	C1 mm	C2 mm	D mm	E mm	F mm	G mm	Mass kg		
					Max	Min		Max	Min										
CP240BB12	7032324	373	35620	950	180	85	N/A	-	-	330	197	-	609	56	8.7	83	450	12	K
CP270BB14	7032327	496	46990	840	200	85	N/A	-	-	368	216	-	686	56	8.7	83	587	14	K
CP300BB14	7032330	746	71240	760	230	95	N/A	-	-	406	229	-	762	67	9.5	102	825	14	L
CP360BB18	7032336	1194	114000	630	250	95	N/A	-	-	470	254	-	914	67	9.5	102	1160	18	L
CP420BB16	7032342	1716	163900	540	280	110	N/A	-	-	482	279	-	1067	83	12.7	127	1700	16	M
CP480BB20	7032348	2611	249400	470	300	110	N/A	-	-	533	305	-	1220	83	12.7	127	2250	20	M

Other pin configurations are available - please consult Renold.

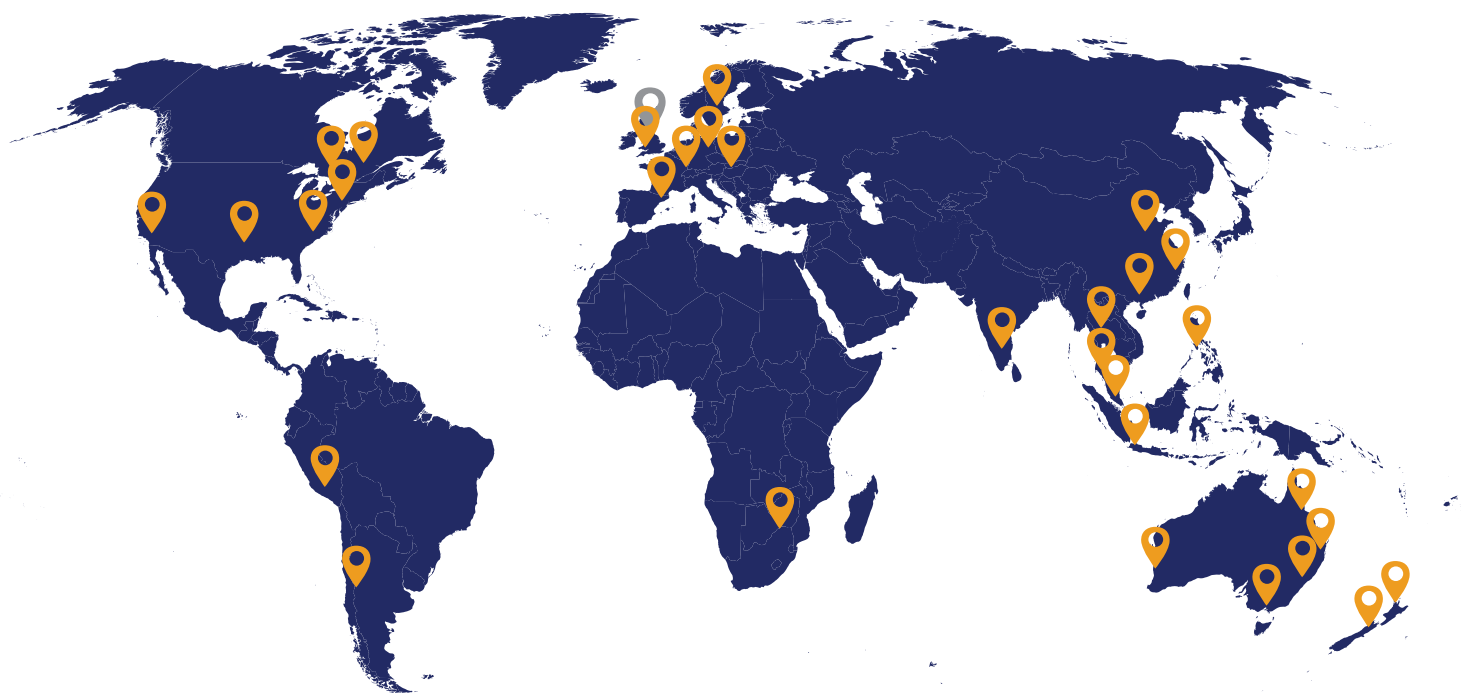


Component spares

Coupling number	Product number	Pin half body		Buffer half body		Pin & nut	Neoprene buffer
		Pilot bored	Taper bored	Pilot bored	Taper bored		
CP36BB3	7032303	7032303/1	N/A	7032303/2	N/A	7030003/60	7030003/3
CP48BB4	7032105	7032105/1	N/A	7032105/2	N/A	7030003/60	7030003/3
CP48BB8	7032305	7032305/1	N/A	7032305/2	N/A	7030003/60	7030003/3
CP57##4	7032106	7032106/1	7032106/177	7032106/2	7032106/277	7030006/60	7030006/3
CP57##8	7032306	7032306/1	7032306/177	7032306/2	7032306/277	7030006/60	7030006/3
CP65##8	7032307	7032307/1	7032307/177	7032307/2	7032307/277	7030007/60	7030007/3
CP77##8	7032308	7032308/1	7032308/177	7032308/2	7032308/277	7030008/60	7030008/3
CP91##4	7032109	7032109/1	7032109/177	7032109/2	7032109/277	7030009/60	7030009/3
CP91##8	7032309	7032309/1	7032309/177	7032309/2	7032309/277	7030009/60	7030009/3
CP106##10	7032310	7032310/1	7032310/177	7032310/2	7032310/277	7030009/60	7030009/3
CP120##8	7032312	7032312/1	7032312/177	7032312/2	7032312/277	7030012/60	7030012/3
CP135##10	7032313	7032313/1	7032313/177	7032313/2	7032313/277	7030012/60	7030012/3
CP150BB10	7032315	7032315/1	N/A	7032315/2	N/A	7030015/60	7030015/3
CP165BB10	7032316	7032316/1	N/A	7032316/2	N/A	7030015/60	7030015/3
CP180BB10	7032318	7032318/1	N/A	7032318/2	N/A	7030018/60	7030018/3
CP210BB12	7032321	7032321/1	N/A	7032321/2	N/A	7030018/60	7030018/3
CP240BB12	7032324	7032324/1	N/A	7032324/2	N/A	7030024/60	7030024/3
CP270BB14	7032327	7032327/1	N/A	7032327/2	N/A	7030024/60	7030024/3
CP300BB14	7032330	7032330/1	N/A	7032330/2	N/A	7030030/60	7030030/3
CP360BB18	7032336	7032336/1	N/A	7032336/2	N/A	7030030/60	7030030/3
CP420BB16	7032342	7032342/1	N/A	7032342/2	N/A	7030042/60	7030042/3
CP480BB20	7032348	7032348/1	N/A	7032348/2	N/A	7030042/60	7030042/3



Global services



 **Head office**  **Renold locations**



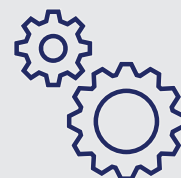
Internal support

Sales team embedded in the manufacturing site with unrivalled product knowledge



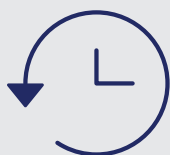
Large engineering team

Our team can design a quality coupling to match your exact requirements



Manufacturing facility

Designed and manufactured in house by Renold; giving ultimate control on our solutions



History and Longevity

Manufacturing in the UK for over 100 years and commitment in our facilities for the long term, we are here to stay



Excellent Communication

From an accessible sales team, weekly order updates and a global sales network we make it easy to communicate



Record investment

Heavy investment in our business; spending millions of pounds upgrading CNC equipment, metrology arms and the newest software and test rigs

Get in touch

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sales and service location

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