

Steel Adaptors for Platewheels



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Steel adaptors, used in conjunction with standard platewheels (pp 59-68) enable low cost production of steel sprockets with tooth range 19-114 teeth. Three types of adaptors are available, threaded adaptor, weld-on hubs, and detachable hubs.

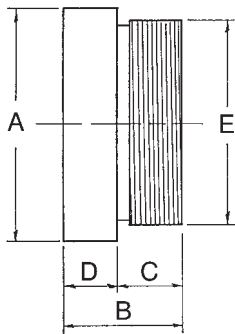
The threaded adaptors were originally developed to convert cycle sprockets for industrial use. They enable simple, quick exchange of platewheels to adjust drives for prototypes and development work. These adaptors are suitable for simplex platewheels from $\frac{3}{8}$ " to $\frac{3}{4}$ " pitch chain, and also for Industrial Ratchet Freewheels (refer catalogue 'Freewheel Clutches').

The weld-on hubs are designed to enable conversion of platewheels to sprockets, with a fully welded construction. They are available with pilot parallel bore, finish bored and keyed, or bored to suit standard taper bushes.

Detachable hubs enable modifications in the field by replacement of platewheels. A limited level of phasing can also be achieved, dependant on number of teeth in the sprocket. In addition to production of sprockets, adaptors can also be used in the construction of fans, wheels and conveyor rollers.



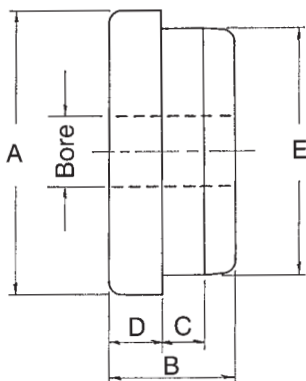
Threaded Adaptors with Solid Bore



Hub Ref.	Max Bore	A Max	B	C	D	E R.H. Thread C.E.I. Form 24T.P.I.	Approx. Weight Kg
A211	20	42	27	14.3	12.7	1.37"	0.23
A212	24	48	27	14.3	123.7	1.625"	0.32
A213	30	58	27	14.3	12.7	2.00"	0.48

Hubs can be supplied bored, keywayed and setscrewed to customers requirements. Some sizes platewheels for 081, and 08B-1 chain stocked with threaded bore for A211 adaptor.

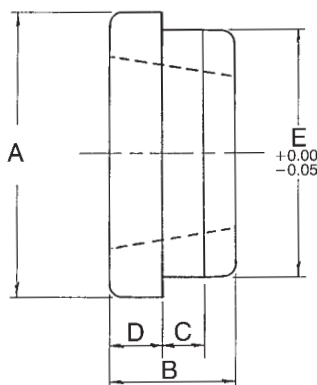
Steel Weld-on Hubs with Pilot Bore



Hub Ref.	Pilot Bore Size	Max Bore	A	B	C	D	E	Approx. Weight Kg
A214	20	40	70	38	11	16	60.00 59.95	0.89
A215	20	45	80	38	11	16	70.00 59.95	1.25
A216	25	55	95	44	13	19	85.00 84.95	2.10
A217	25	70	120	44	13	19	110.00 109.95	3.51
A218	25	85	145	51	16	19	130.00 129.95	5.78

Hubs can be supplied bored and keywayed to customers requirements.

Steel Weld-on Hubs with Taper Bore



Hub Ref.	Use Bush Size	Max Bore	A	B	C	D	E	Approx. Weight Kg
H12	1210	32	70	25	10	9	65	0.25
H16	1610	42	80	25	10	9	75	0.41
H20	2012	50	95	32	12	12	90	0.75
H25	2517	60	115	45	15	19	110	1.48
H30	3020	75	145	51	15	19	140	2.73
W30	3030	75	145	76	15	19	140	4.05
H35	3525	90	190	65	25	25	180	4.70
W35	3535	90	190	89	25	25	180	6.40
H40	4040	100	200	102	30	32	190	13.80

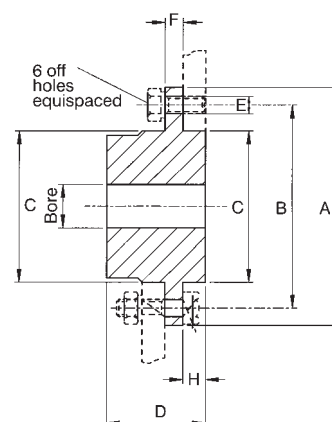
Hubs are taper bored and drilled to suit standard taper bushes (refer pp. 38/39). Earlier series 'M' taper bore hubs are available on short delivery. M25 & M30 have been superseded by H25 & H30 respectively. All dimensions in mm.

Steel Adaptors and Idler Sprockets



Detachable Hubs

Hub Ref.	Min. Bore	Max. Bore	A	B	C	D	E	F	H	App. Wt.
D30	8	20	55	45	30	20.0	4.2	4	3.0	0.15
D40	10	26	70	58	40	25.0	5.2	5	5.2	0.32
D50	14	32	80	67	50	32.0	6.2	7	7.0	0.61
D60	16	40	90	76	60	38.5	6.2	7	8.7	0.95
D70	20	45	110	94	70	45.5	8.2	8	10.5	1.90
D80	25	52	130	107	80	55.0	8.2	12	15.0	2.65
D100	30	65	170	140	100	73.0	10.2	17	23.0	6.00
D140	35	90	220	182	140	83.0	12.2	20	23.0	13.08
D160	40	104	245	205	160	93.0	16.5	25	25.0	18.80



All dimensions in mm.
Hubs can be supplied bored and keywayed to customers requirements.

Idler Sprockets

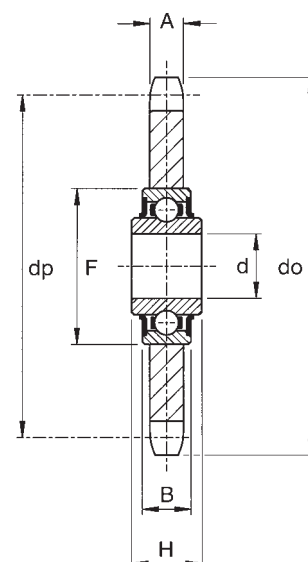
The standard Idler Sprockets in this series are supplied complete with built in fully shielded and greased for life ball bearing, providing full lifetime maintenance free operation. Two standards of bearings are offered, an economy bearing for light duty applications, and a top quality European bearing for higher loads and speeds.

The extended width inner race enables correct mounting on the shaft without the need for spacers. The sprocket is manufactured from medium carbon steel and secured to the outer race of the bearing by press fit. Many chain drives, by virtue of their design, require a tensioning sprocket, and where fixed idlers are preferred this range of Idler Sprockets provides the ideal solution.

In addition to the standard range, Idler Sprockets can be manufactured to order to suit other sizes of B.S. Standard Chains and ANSI Series, in both Simplex and Multistrand construction, and with alternate numbers of teeth.



Part No.	Chain Size	Sprocket Dimensions				Bearing Dimensions				Weight
		No. Teeth	P.C.D.	OD	Tooth Width	Min Bore	Hub Dia	LTB	Approx. kg	
		Z	dp	do	A	d	F	B	H	
IS05B1-23T	05B1	23	58.75	62.0	7.0	16.0	40.0	12.0	18.3	0.15
IS06B1-20T	06B1	20	60.89	64.3	7.0	16.0	40.0	12.0	18.3	0.07
IS06B1-21T	06B1	21	63.90	68.0	7.0	16.0	40.0	12.0	18.3	0.16
IS081-18T	081	18	73.14	78.9	7.0	16.0	40.0	12.0	18.3	0.21
IS083-16T	083	16	65.10	70.9	7.0	16.0	40.0	12.0	18.3	0.50
IS083-18T	083	18	73.14	78.9	7.0	16.0	40.0	12.0	18.3	0.20
IS08B1-14T	08B1	14	57.07	61.8	7.2	16.0	40.0	12.0	18.3	0.11
IS08B1-15T	08B1	15	61.09	65.5	7.2	16.0	40.0	12.0	18.3	0.12
IS08B1-16T	08B1	16	65.10	69.5	7.2	16.0	40.0	12.0	18.3	0.18
IS08B1-18T	08B1	18	73.14	77.8	7.2	16.0	40.0	12.0	18.3	0.23
IS08B1-20T	08B1	20	81.19	85.8	7.2	16.0	40.0	12.0	18.3	0.26
IS08B1-21T	08B1	21	85.22	89.7	7.2	16.0	40.0	12.0	18.3	0.26
IS10B1-13T	10B1*	13	66.32	73.0	9.1	16.0	40.0	12.0	18.3	0.24
IS10B1-14T	10B1*	14	71.34	78.0	9.1	16.0	40.0	12.0	18.3	0.24
IS10B1-15T	10B1*	15	76.36	83.0	9.1	16.0	40.0	12.0	18.3	0.27
IS10B1-16T	10B1*	16	81.37	88.0	9.1	16.0	40.0	12.0	18.3	0.32
IS10B1-17T	10B1*	17	86.39	93.0	9.1	16.0	40.0	12.0	18.3	0.33
IS10B1-18T	10B1*	18	91.42	98.3	9.1	16.0	40.0	12.0	18.3	0.30
IS10B1-21T	10B1*	21	106.52	113.4	9.1	16.0	40.0	12.0	18.3	0.50
IS12B1-12T	12B1	12	73.60	81.5	11.1	16.0	40.0	12.0	18.3	0.32
IS12B1-13T	12B1	13	79.59	87.5	11.1	16.0	40.0	12.0	18.3	0.36
IS12B1-15T	12B1	15	91.63	99.8	11.1	16.0	40.0	12.0	18.3	0.45
IS12B1-16T	12B1	16	97.65	105.5	11.1	16.0	40.0	12.0	18.3	0.50
IS16B1-12T	16B1	12	98.14	109.0	16.2	20.0	47.0	14.0	17.7	0.65
IS16B1-15T	16B1	15	122.17	133.0	16.2	20.0	47.0	14.0	17.7	1.10
IS16B1-17T	16B1	17	138.24	149.0	16.2	20.0	47.0	14.0	17.7	1.50
IS20B1-13T	20B1	13	132.65	147.8	18.5	25.0	52.0	15.0	21.0	1.50



*Also suitable for ANSI 50 Chain.