

METRIC SPROCKETS, TAPER BUSHED



All specified sprockets below are those which has pitch of 1/2 inches, 5/8 inches or 12.7 millimeters and 15.88 millimeters. They design has tapered bore bush fitting for extra flexibility.

Following table shows technical information of Metric sprockets. All specified sprockets are suitable with following chains:
40, 41, 42, 43; 410, 415/415H, 420, 428/428H for 1/2 inches pitch and 520/520H, 520-2, 525, 530 for 5/8 inches pitch.

Please refer to the table below for more technical information about specified sprockets.

12,70 mm / 0,5-inch Pitch Sprocket		
Sprocket 15 Teeth	Sprocket 16 Teeth	Sprocket 17 Teeth
<p>0,18 KG</p>	<p>0,24 KG</p>	<p>0,24 KG</p>
Suitable with chains		
40, 41, 42, 43, 410, 415/415H, 420, 428/428H		

15,88 mm / 0,625-inch Pitch Sprocket	
Sprocket 15 Teeth	Sprocket 16 Teeth
<p>0,33 KG</p>	<p>0,32 KG</p>
Suitable with chains	
520/520H, 520-2, 525, 530	

ORDER EXAMPLE

Please provide us following information:

A. Motor type to be used with

- HPM 10K

1. Number of teeth
2. Pitch of the sprocket or chain model

- 15 Teeth
- 12,70 mm (0,5 inch) or 410 chain

Or

B. Size of the axle

- 22 mm

1. Number of teeth
2. Pitch of the sprocket or chain model

- 15 Teeth
- 12,70 mm (0,5 inch) or 410 chain

Sprocket set consist of:

1. Sprocket
2. Tapered bush
3. Chain

Bore diameter of the taper locks will be respective to your order.

As an option as well you can order separately additional Taper bushing with required diameter.

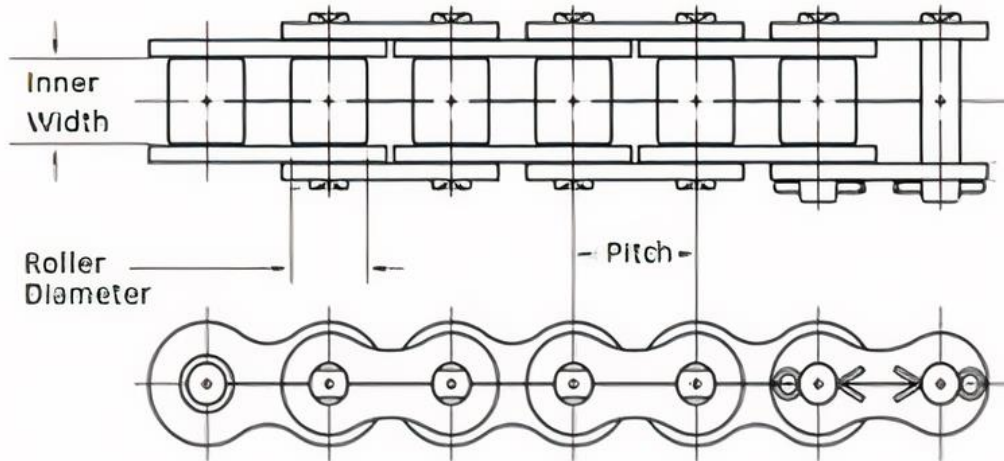
If you would like to order Taper bushing additionally as separate part – please let us know.

Necessary provide:

1. Required Bore diameter of taper bushing.
2. Sprocket model for that you plan to use Taper lock bushing for example.



CHAIN TYPE ACCORDING TO THE SPROCKET MODEL



Chain Number	Pitch	Roller Diameter	Between Inner Plates	Pin Diameter	Average Tensile Strength	Lbs. per foot
#40 (#425)	1/2	.312	5/16	.156	3,700	.41
#41	1/2	.306	1/4	.141	2,000	.27
#410 (#43)	1/2	.306	1/8	.141	1,600	.19
#415 (#42)	1/2	.306	3/16	.141	1,600	.26
#415H (#42H)	1/2	.306	3/16	.141	1,600	.26
#420	1/2	.306	1/4	.156	3,700	.38
#425 (#40)	1/2	.312	5/16	.156	3,700	.41
#428	1/2	.335	5/16	.177	4,200	.44
#428H	1/2	.335	5/16	.177	4,200	.44
<u>#520</u>	<u>5/8</u>	<u>.400</u>	<u>1/4</u>	<u>.200</u>	<u>6,100</u>	<u>.64</u>
<u>#520H</u>	<u>5/8</u>	<u>.400</u>	<u>1/4</u>	<u>.200</u>	<u>6,100</u>	<u>.68</u>
<u>#520-2</u>	<u>5/8</u>	<u>.400</u>	<u>1/4</u>	<u>.200</u>	<u>12,200</u>	<u>1.26</u>
<u>#525</u>	<u>5/8</u>	<u>.400</u>	<u>5/16</u>	<u>.200</u>	<u>6,100</u>	<u>.65</u>
<u>#530 (50)</u>	<u>5/8</u>	<u>.400</u>	<u>3/8</u>	<u>.200</u>	<u>6,100</u>	<u>.66</u>

Chain types are identified by number; ie. a number 40 chain. The rightmost digit is 0 for chain of the standard dimensions; 1 for lightweight chain; and 5 for rollerless bushing chain. The digits to the left indicate the *pitch of the chain in eighths of an inch*. For example, a number 40 chain would have a pitch of four-eighths of an inch, or 1/2", and would be of the standard dimensions in width, roller diameter, etc.

The roller diameter is "nearest binary fraction" (32nd of an inch) to 5/8ths of the pitch; pin diameter is half of roller diameter. The width of the chain, for "standard" (0 series) chain, is the nearest binary fraction to 5/8ths of the pitch; for narrow chains (1 series) width is 41% of the pitch. Sprocket thickness is approximately 85-90% of the roller width.

Plate thickness is 1/8th of the pitch, except "extra-heavy" chain, which is designated by the suffix H, and is 1/32" thicker.

EXTENDED DATA SHEET OF TAPER BUSHED METRIC SPROCKETS

Pitch	Number of teeth	Pitch diameter PD	Type	Bushing number	Dimensions Bore				Plate thickness t_1	Mass Rim kg	Bushing	Designation	
					Min.	Max.	L	H					
mm	-	mm	-	-	mm				kg	-	-		
12,70	14	57,07	B	1008	9	25,4	22,0	46,0*	7,37	0,12	0,14	PHS 08B-1TBH14	
	15	61,09	B	1008	9	25,4	22,0	45,0	7,37	0,18	0,14	PHS 08B-1TBH15	
	16	65,10	B	1108	9	28,0	22,0	52,0	7,37	0,24	0,16	PHS 08B-1TBH16	
	17	69,11	B	1210	11	31,8	25,0	60,0*	7,37	0,24	0,27	PHS 08B-1TBH17	
	18	73,14	B	1210	11	31,8	25,0	60,0*	7,37	0,30	0,27	PHS 08B-1TBH18	
	19	77,16	B	1210	11	31,8	25,0	63,0	7,37	0,33	0,27	PHS 08B-1TBH19	
	20	81,19	B	1610	11	31,8	25,0	71,0	7,37	0,32	0,41	PHS 08B-1TBH20	
	21	85,22	B	1610	14	41,3	25,0	71,0	7,37	0,37	0,41	PHS 08B-1TBH21	
	22	89,24	B	1610	14	41,3	25,0	76,0	7,37	0,50	0,41	PHS 08B-1TBH22	
	23	93,27	B	1610	14	41,3	25,0	76,0	7,37	0,53	0,41	PHS 08B-1TBH23	
	24	97,29	B	1610	14	41,3	25,0	76,0	7,37	0,54	0,41	PHS 08B-1TBH24	
	25	101,33	B	1610	14	41,3	25,0	76,0	7,37	0,59	0,41	PHS 08B-1TBH25	
	26	105,36	B	1610	14	41,3	25,0	76,0	7,37	0,61	0,41	PHS 08B-1TBH26	
	27	109,40	B	1610	14	41,3	25,0	76,0	7,37	0,94	0,41	PHS 08B-1TB27	
	28	113,42	B	2012	14	50,8	25,0	90,0	7,37	0,86	0,77	PHS 08B-1TB28	
	29	117,46	B	2012	14	50,8	25,0	90,0	7,37	0,90	0,77	PHS 08B-1TB29	
	30	121,50	B	2012	14	50,8	32,0	90,0	7,37	0,94	0,59	PHS 08B-1TB30	
	32	129,57	B	2012	14	50,8	32,0	90,0	7,37	1,12	0,59	PHS 08B-1TB32	
	35	141,68	B	2012	14	50,8	32,0	90,0	7,37	1,30	0,59	PHS 08B-1TB35	
	36	145,72	B	2012	14	50,8	32,0	90,0	7,37	1,48	0,59	PHS 08B-1TB36	
	38	153,80	B	2012	14	50,8	32,0	90,0	7,37	1,67	0,59	PHS 08B-1TB38	
	40	161,87	B	2012	14	50,8	32,0	90,0	7,37	1,80	0,59	PHS 08B-1TB40	
	42	169,94	B	2012	14	50,8	32,0	100,0	7,37	1,93	0,59	PHS 08B-1TB42	
	45	182,07	B	2012	14	50,8	32,0	100,0	7,37	2,06	0,59	PHS 08B-1TB45	
	48	194,18	B	2012	14	50,8	32,0	100,0	7,37	2,36	0,59	PHS 08B-1TB48	
	12,70	54	218,42	B	2012	14	50,8	32,0	100,0	7,37	2,66	0,59	PHS 08B-1TB54
		57	230,53	B	2012	14	50,8	32,0	100,0	7,37	3,07	0,59	PHS 08B-1TB57
		60	242,66	B	2012	14	50,8	32,0	100,0	7,37	3,23	0,59	PHS 08B-1TB60
		70	283,07	B	2012	14	50,8	32,0	100,0	7,37	3,39	0,59	PHS 08B-1TB70
		72	291,15	B	2012	14	50,8	32,0	100,0	7,37	3,55	0,59	PHS 08B-1TB72
		76	307,31	B	2012	14	50,8	32,0	100,0	7,37	3,71	0,59	PHS 08B-1TB76
		80	323,49	B	2012	14	50,8	32,0	100,0	7,37	4,55	0,59	PHS 08B-1TB80
		84	339,65	B	2012	14	50,8	32,0	100,0	7,37	5,39	0,59	PHS 08B-1TB84
		95	384,10	B	2012	14	50,8	32,0	100,0	7,37	6,23	0,59	PHS 08B-1TB95
		96	388,15	B	2012	14	50,8	32,0	100,0	7,37	7,00	0,59	PHS 08B-1TB96
	114	460,90	B	2517	16	63,5	45,0	110,0	7,37	8,10	1,30	PHS 08B-1TB114	
15,88	12	61,34	B	1008	9	25,4	22,0	49,2*	9,17	0,21	0,09	PHS 10B-1TBH12	
	13	66,32	B	1008	9	25,4	22,0	47,0	9,17	0,25	0,09	PHS 10B-1TBH13	
	14	71,34	B	1108	9	25,4	22,0	52,0	9,17	0,27	0,12	PHS 10B-1TBH14	
	15	76,36	B	1210	11	31,8	25,0	60,0	9,17	0,33	0,21	PHS 10B-1TBH15	
	16	81,37	B	1610	14	41,3	25,0	70,6*	9,17	0,32	0,31	PHS 10B-1TBH16	
	17	86,39	B	1610	14	41,3	25,0	71,0*	9,17	0,40	0,31	PHS 10B-1TBH17	
	18	91,42	B	1610	14	41,3	25,0	75,0	9,17	0,50	0,31	PHS 10B-1TBH18	
	19	96,45	B	1610	14	41,3	25,0	75,0	9,17	0,56	0,31	PHS 10B-1TBH19	
	20	101,49	B	1610	14	41,3	25,0	76,0	9,17	0,64	0,31	PHS 10B-1TBH20	
	21	106,52	B	1610	14	41,3	25,0	76,0	9,17	0,69	0,31	PHS 10B-1TBH21	
	22	111,55	B	1610	14	41,3	25,0	76,0	9,17	0,75	0,31	PHS 10B-1TBH22	
	23	116,58	B	1610	14	41,3	25,0	76,0	9,17	0,81	0,31	PHS 10B-1TBH23	
	24	121,62	B	2012	14	50,8	32,0	90,0	9,17	1,00	0,59	PHS 10B-1TBH24	
	25	126,66	B	2012	14	50,8	32,0	90,0	9,17	1,06	0,59	PHS 10B-1TBH25	
	26	131,70	B	2012	14	50,8	32,0	90,0	9,17	1,14	0,59	PHS 10B-1TBH26	
	27	136,75	B	2012	14	50,8	32,0	90,0	9,17	1,19	0,59	PHS 10B-1TB27	
	28	141,78	B	2012	14	50,8	32,0	90,0	9,17	1,28	0,59	PHS 10B-1TB28	
	29	146,83	B	2012	14	50,8	32,0	90,0	9,17	1,37	0,59	PHS 10B-1TB29	
	30	151,87	B	2012	14	50,8	32,0	90,0	9,17	1,65	0,59	PHS 10B-1TB30	
	32	161,96	B	2012	14	50,8	32,0	98,0	9,17	2,21	0,59	PHS 10B-1TB32	
	35	177,10	B	2012	14	50,8	32,0	98,0	9,17	3,05	0,59	PHS 10B-1TB35	
	36	182,15	B	2012	14	50,8	32,0	98,0	9,17	3,33	0,59	PHS 10B-1TB36	
	38	192,24	B	2012	14	50,8	32,0	100,0	9,17	3,89	0,59	PHS 10B-1TB38	
	40	202,33	B	2012	14	50,8	32,0	100,0	9,17	4,45	0,59	PHS 10B-1TB40	
	42	212,43	B	2012	14	50,8	32,0	100,0	9,17	5,01	0,59	PHS 10B-1TB42	
	45	227,58	B	2012	14	50,8	32,0	100,0	9,17	3,97	0,59	PHS 10B-1TB45	
	48	242,73	B	2012	14	50,8	32,0	100,0	9,17	6,69	0,59	PHS 10B-1TB48	
	54	273,03	B	2012	14	50,8	32,0	100,0	9,17	8,37	0,59	PHS 10B-1TB54	
	57	288,19	B	2012	14	50,8	32,0	100,0	9,17	5,45	0,59	PHS 10B-1TB57	
	60	303,33	B	2012	14	50,8	32,0	100,0	9,17	10,05	0,59	PHS 10B-1TB60	
	70	353,84	B	2012	16	63,5	45,0	100,0	9,17	12,85	1,30	PHS 10B-1TB70	
	72	363,95	B	2012	16	63,5	45,0	100,0	9,17	13,41	1,30	PHS 10B-1TB72	
	76	384,15	B	2012	14	50,8	45,0	100,0	9,17	7,43	0,59	PHS 10B-1TB76	
	80	404,35	B	2012	16	63,5	45,0	110,0	9,17	15,65	1,30	PHS 10B-1TB80	
	84	424,70	B	2012	16	63,5	45,0	110,0	9,17	16,77	1,30	PHS 10B-1TB84	
	95	480,14	B	2517	14	50,8	45,0	110,0	9,17	19,85	0,59	PHS 10B-1TB95	
96	485,30	B	2517	16	63,5	45,0	110,0	9,17	20,13	1,30	PHS 10B-1TB96		
114	576,13	B	2517	16	63,5	45,0	110,0	9,17	25,17	1,30	PHS 10B-1TB114		