



BUREAU  
VERITAS



# SPROCKETS CATALOG



## C.N.INDUSTRIAL PRODUCT

(AN ISO : 9001-2015, 14001:2015 & 45001:2018)

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## Metric sprockets, simplex, pilot bore

### CNIP Sprockets

CNIP sprocket range nomenclature has a defined prefix of PHS. All sprockets are made to be applied to standardized chains. CNIP sprockets conform to conventional basic chain part number format – ISO, BS, or DIN.

### Sprockets

The sprocket range designation from CNIP has the following is an example to indicate set up.

#### CNIP Designation prefix

**PHS 80-1 TBH 22**

#### Chain size and type

Example:

80-1 – ANSI series chain, simplex type 16B-3 – ISO/BS series chain, triplex type

#### Supplementary

Many different supplementary designations, examples  
TBH- taper bushing type and hardened teeth  
C – Hub type C  
SS – stainless steel material

#### Note

See CNIP product training for full supplementary notations

#### Teeth

The number of teeth on the sprocket

#### Supplementary

Possible other options and special requirements

### Sprockets (PHS Product Group)

All CNIP sprockets are manufactured according to ISO606 & ASME B29.100 standard. The sprockets are made from steel material C-45 and premium carbon steel no. 20 on hub material if welded. For some special sprockets gray cast iron HT250 or cast iron 250 material is used.

Sprockets 25T and below are hardened as standard (typically 35-40 HRC). This is only valid for sprocket teeth manufactured with steel material C-45. Surface treatment such as black oxide and zinc plating can be offered upon request.

Tolerances are machined according to DIN 8196.

All sprockets are completely deburred and protected with rustproof oil.

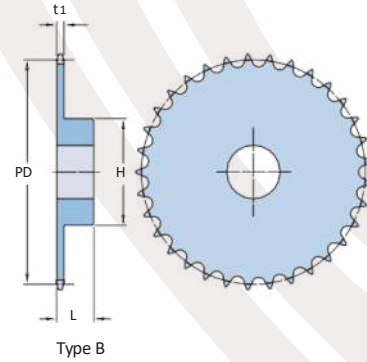
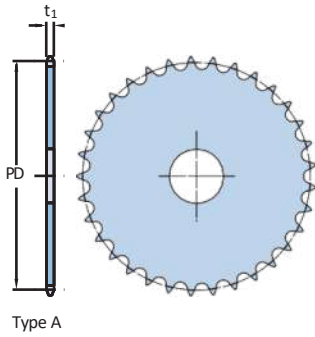


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# CNIP SPROCKETS

Metric sprockets, simplex, pilot bore  
ISO 05xB-1 · 8 mm pitch



Pitch	Number of teeth	Pitch diameter PD	Type	Bore		Hub		Plate thickness t <sub>1</sub>	Mass	Designation
				stock	Min. Max.	H	L			
mm	-	mm	-	mm	-	mm	mm	kg	-	
8	8	20,90	A	6	-	-	-	-	0,01	PHS 05B-1A8
			B	-	6	6	13	12	2,80	0,02
9	9	23,39	A	6	-	-	-	-	0,01	PHS 05B-1A9
			B	-	6	6	15	12	2,80	0,02
10	10	25,89	A	8	-	-	-	-	0,01	PHS 05B-1A10
			B	-	8	8	17	12	2,80	0,02
11	11	28,39	A	8	-	-	-	-	0,01	PHS 05B-1A11
			B	-	8	8	18	13	2,80	0,03
12	12	30,91	A	8	-	-	-	-	0,01	PHS 05B-1A12
			B	-	8	8	20	13	2,80	0,03
13	13	33,42	A	8	-	-	-	-	0,01	PHS 05B-1A13
			B	-	8	8	23	13	2,80	0,05
14	14	35,95	A	8	-	-	-	-	0,02	PHS 05B-1A14
			B	-	8	10	25	13	2,80	0,05
15	15	38,48	A	8	-	-	-	-	0,02	PHS 05B-1A15
			B	-	8	12	28	13	2,80	0,07
16	16	41,01	A	8	-	-	-	-	0,02	PHS 05B-1A16
			B	-	8	14	30	14	2,80	0,08
17	17	43,53	A	8	-	-	-	-	0,03	PHS 05B-1A17
			B	-	8	14	30	14	2,80	0,09
18	18	46,07	A	8	-	-	-	-	0,03	PHS 05B-1A18
			B	-	8	14	30	14	2,80	0,09
19	19	48,61	A	8	-	-	-	-	0,03	PHS 05B-1A19
			B	-	8	14	30	14	2,80	0,10
20	20	51,14	A	8	-	-	-	-	0,04	PHS 05B-1A20
			B	-	8	14	30	14	2,80	0,10
21	21	53,67	A	8	-	-	-	-	0,04	PHS 05B-1A21
			B	-	8	19	35	14	2,80	0,13
22	22	56,21	A	8	-	-	-	-	0,05	PHS 05B-1A22
			B	-	8	19	35	14	2,80	0,13
23	23	58,75	A	8	-	-	-	-	0,05	PHS 05B-1A23
			B	-	8	19	35	14	2,80	0,13
24	24	61,29	A	8	-	-	-	-	0,06	PHS 05B-1A24
			B	-	8	19	35	14	2,80	0,15
25	25	63,83	A	8	-	-	-	-	0,06	PHS 05B-1A25
			B	-	8	19	35	14	2,80	0,15
26	26	66,37	A	10	-	-	-	-	0,07	PHS 05B-1A26
			B	-	10	23	40	16	2,80	0,17
27	27	68,91	A	10	-	-	-	-	0,07	PHS 05B-1A27
			B	-	10	23	40	16	2,80	0,19
28	28	71,45	A	10	-	-	-	-	0,08	PHS 05B-1A28
			B	-	10	23	40	16	2,80	0,20
29	29	73,99	A	10	-	-	-	-	0,08	PHS 05B-1A29
			B	-	10	23	40	16	2,80	0,21

Pitch	Number of teeth	Pitch diameter PD	Type	Bore		Hub		Plate thickness t <sub>1</sub>	Mass	Designation
				stock	Min. Max.	H	L			
m	-	mm	-	mm	-	mm	mm	kg	-	
8	30	76,53	A	10	-	-	-	-	0,09	PHS 05B-1A30
			B	-	10	23	40	16	2,80	0,22
31	31	79,08	A	10	-	-	-	-	0,10	PHS 05B-1A31
			B	-	10	23	40	16	2,80	0,23
32	32	81,61	A	10	-	-	-	-	0,11	PHS 05B-1A32
			B	-	10	23	40	16	2,80	0,23
33	33	84,16	A	10	-	-	-	-	0,12	PHS 05B-1A33
			B	-	10	23	40	16	2,80	0,24
34	34	86,70	A	10	-	-	-	-	0,12	PHS 05B-1A34
			B	-	10	23	40	16	2,80	0,25
35	35	89,24	A	10	-	-	-	-	0,12	PHS 05B-1A35
			B	-	10	23	40	16	2,80	0,25
36	36	91,79	A	10	-	-	-	-	0,13	PHS 05B-1A36
			B	-	10	23	40	16	2,80	0,26
37	37	94,33	A	10	-	-	-	-	0,14	PHS 05B-1A37
			B	-	10	23	40	16	2,80	0,26
38	38	96,88	A	10	-	-	-	-	0,15	PHS 05B-1A38
			B	-	10	23	40	16	2,80	0,27
39	39	99,42	A	10	-	-	-	-	0,16	PHS 05B-1A39
			B	-	10	23	40	16	2,80	0,28
40	40	101,97	A	10	-	-	-	-	0,16	PHS 05B-1A40
			B	-	10	23	40	16	2,80	0,28
41	41	104,51	A	12	-	-	-	-	0,17	PHS 05B-1A41
			B	-	10	23	60	20	2,80	0,29
42	42	107,05	A	12	-	-	-	-	0,18	PHS 05B-1A42
			B	-	10	23	60	20	2,80	0,30
43	43	109,60	A	12	-	-	-	-	0,19	PHS 05B-1A43
			B	-	10	23	60	20	2,80	0,30
44	44	112,14	A	12	-	-	-	-	0,20	PHS 05B-1A44
			B	-	10	23	60	20	2,80	0,31
45	45	114,69	A	12	-	-	-	-	0,21	PHS 05B-1A45
			B	-	12	40	60	20	2,80	0,31
46	46	117,23	A	12	-	-	-	-	0,21	PHS 05B-1A46
			B	-	12	40	60	20	2,80	0,32
47	47	119,77	A	12	-	-	-	-	0,32	PHS 05B-1A47
			B	-	12	40	60	20	2,80	0,33
48	48	122,32	A	12	-	-	-	-	0,34	PHS 05B-1A48
			B	-	12	40	60	20	2,80	0,33
54	54	137,59	A	14	-	-	-	-	0,67	PHS 05B-1A54
			B	-	12	40	80	20	2,80	0,37
57	57	145,22	A	14	-	-	-	-	1,47	PHS 05B-1A57
			B	-	14	55	80	20	2,80	0,39
60	60	152,85	A	14	-	-	-	-	1,53	PHS 05B-1A60
			B	-	14	55	80	34	2,80	0,41

Maximum bores can accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required. All Type B or C sprockets, up to and including 25 tooth, are with hardened teeth as standard.

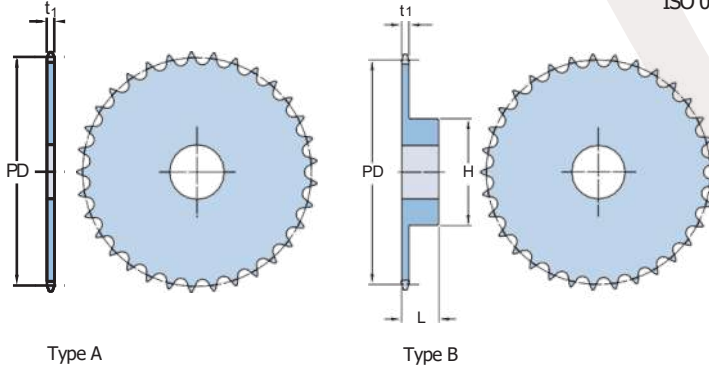
For any additional size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 08B-1AH8.



# CNIP SPROCKET

Metric sprockets, simplex, pilot bore

ISO 06B-1 · 9,525 mm pitch | ISO 08B-1 · 12,70 mm pitch



Pitch	Number of teeth	Pitch diameter PD	Type	Dimensions				Mass	Designation
				Bore stock	Bore Min.	Bore Max.	Hub H L Plate thickness t1		
9,525	80	242,61	A	20	-	-	-	1,53	PHS 06B-1A80
			B	14	52	78 32	5,31	4,40	PHS 06B-1B80
	84	254,74	A	20	-	-	-	1,60	PHS 06B-1A84
			B	14	52	80 32	5,31	4,72	PHS 06B-1B84
	85	257,77	A	20	-	-	-	1,66	PHS 06B-1A85
			B	14	52	80 32	5,31	4,93	PHS 06B-1B85
	90	272,93	A	20	-	-	-	1,72	PHS 06B-1A90
			B	14	55	80 32	5,31	5,20	PHS 06B-1B90
	92	278,99	A	20	-	-	-	2,16	PHS 06B-1A92
			B	14	55	80 32	5,31	5,45	PHS 06B-1B92
	95	288,08	A	20	-	-	-	2,60	PHS 06B-1A95
			B	14	55	80 32	5,31	3,95	PHS 06B-1B95
96	291,11	A	20	-	-	-	2,20	PHS 06B-1A96	
		B	14	55	80 32	5,31	5,68	PHS 06B-1B96	
114	345,68	A	20	-	-	-	3,13	PHS 06B-1A114	
		B	14	55	80 32	5,31	7,12	PHS 06B-1B114	
12,70	8	33,18	A	8	-	-	-	0,03	PHS 08B-1A8
			B	10	10	20 25	7,37	0,06	PHS 08B-1B8
	9	37,13	A	8	-	-	-	0,04	PHS 08B-1A9
			B	10	10	24 25	7,37	0,09	PHS 08B-1B9
	10	41,10	A	8	-	-	-	0,06	PHS 08B-1A10
			B	10	11	26 25	7,37	0,12	PHS 08B-1B10
	11	45,07	A	10	-	-	-	0,07	PHS 08B-1A11
			B	10	13	29 25	7,37	0,15	PHS 08B-1B11
	12	49,07	A	10	-	-	-	0,09	PHS 08B-1A12
			B	10	17	33 28	7,37	0,21	PHS 08B-1B12
	13	53,06	A	10	-	-	-	0,10	PHS 08B-1A13
			B	10	20	37 28	7,37	0,27	PHS 08B-1B13
	14	57,07	A	10	-	-	-	0,12	PHS 08B-1A14
			B	10	24	41 28	7,37	0,33	PHS 08B-1B14
	15	61,09	A	10	-	-	-	0,13	PHS 08B-1A15
			B	10	28	45 28	7,37	0,39	PHS 08B-1B15
	16	65,10	A	10	-	-	-	0,16	PHS 08B-1A16
			B	12	30	50 28	7,37	0,46	PHS 08B-1B16
17	69,11	A	10	-	-	-	0,18	PHS 08B-1A17	
		B	12	30	52 28	7,37	0,51	PHS 08B-1B17	
18	73,14	A	10	-	-	-	0,20	PHS 08B-1A18	
		B	12	35	56 28	7,37	0,59	PHS 08B-1B18	
19	77,16	A	10	-	-	-	0,23	PHS 08B-1A19	
		B	12	40	60 28	7,37	0,67	PHS 08B-1B19	
20	81,19	A	10	-	-	-	0,25	PHS 08B-1A20	
		B	12	40	64 28	7,37	0,77	PHS 08B-1B20	
21	85,22	A	12	-	-	-	0,26	PHS 08B-1A21	
		B	12	40	68 28	7,37	0,85	PHS 08B-1B21	

Pitch	Number of teeth	Pitch diameter PD	Type	Dimensions				Mass	Designation
				Bore stock	Bore Min.	Bore Max.	Hub H L Plate thickness t1		
12,70	22	89,24	A	12	-	-	-	0,30	PHS 08B-1A22
			B	12	40	70 28	7,37	0,92	PHS 08B-1B22
23	93,27	93,27	A	12	-	-	-	0,34	PHS 08B-1A23
			B	14	40	70 28	7,37	0,95	PHS 08B-1B23
24	97,29	97,29	A	12	-	-	-	0,37	PHS 08B-1A24
			B	14	40	70 28	7,37	0,98	PHS 08B-1B24
25	101,33	101,33	A	12	-	-	-	0,41	PHS 08B-1A25
			B	14	40	70 28	7,37	1,01	PHS 08B-1B25
26	105,36	105,36	A	16	-	-	-	0,44	PHS 08B-1A26
			B	16	46	70 30	7,37	1,09	PHS 08B-1B26
27	109,40	109,40	A	16	-	-	-	0,48	PHS 08B-1A27
			B	16	46	70 30	7,37	1,13	PHS 08B-1B27
28	113,42	113,42	A	16	-	-	-	0,51	PHS 08B-1A28
			B	16	46	70 30	7,37	1,17	PHS 08B-1B28
29	117,46	117,46	A	16	-	-	-	0,55	PHS 08B-1A29
			B	16	46	80 30	7,37	1,41	PHS 08B-1B29
30	121,50	121,50	A	16	-	-	-	0,59	PHS 08B-1A30
			B	16	46	80 30	7,37	1,46	PHS 08B-1B30
31	125,54	125,54	A	16	-	-	-	0,63	PHS 08B-1A31
			B	16	46	90 30	7,37	1,75	PHS 08B-1B31
32	129,56	129,56	A	16	-	-	-	0,68	PHS 08B-1A32
			B	16	46	90 30	7,37	1,79	PHS 08B-1B32
33	133,60	133,60	A	16	-	-	-	0,72	PHS 08B-1A33
			B	16	46	90 30	7,37	1,83	PHS 08B-1B33
34	137,64	137,64	A	16	-	-	-	0,78	PHS 08B-1A34
			B	16	46	90 30	7,37	1,87	PHS 08B-1B34
35	141,68	141,68	A	16	-	-	-	0,81	PHS 08B-1A35
			B	16	46	90 30	7,37	1,94	PHS 08B-1B35
36	145,72	145,72	A	16	-	-	-	0,87	PHS 08B-1A36
			B	16	50	90 35	7,37	2,21	PHS 08B-1B36
37	149,76	149,76	A	16	-	-	-	0,92	PHS 08B-1A37
			B	16	50	90 35	7,37	2,24	PHS 08B-1B37
38	153,80	153,80	A	16	-	-	-	0,97	PHS 08B-1A38
			B	16	50	90 35	7,37	2,33	PHS 08B-1B38
39	157,83	157,83	A	16	-	-	-	1,02	PHS 08B-1A39
			B	16	50	90 35	7,37	2,30	PHS 08B-1B39
40	161,87	161,87	A	16	-	-	-	1,08	PHS 08B-1A40
			B	16	50	90 35	7,37	2,44	PHS 08B-1B40
41	165,91	165,91	A	20	-	-	-	1,10	PHS 08B-1A41
			B	16	50	90 40	7,37	2,41	PHS 08B-1B41
42	169,95	169,95	A	20	-	-	-	1,00	PHS 08B-1A42
			B	16	60	90 40	7,37	2,38	PHS 08B-1B42
43	173,99	173,99	A	20	-	-	-	1,24	PHS 08B-1A43
			B	16	50	90 40	7,37	2,35	PHS 08B-1B43

Maximum bores can accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required. All Type B or C sprockets, up to and including 25 tooth, are with hardened teeth as standard.

For any additional size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 08B-1AH8.

# CNIP SPROCKET

## Metric sprockets, simplex, pilot bore

ISO 08B-1 · 12,70 mm pitch | ISO 10B-1 · 15,88 mm pitch

Pitch	Number of teeth	Pitch diameter	Type	Bore		Hub		Plate thickness	Mass	Designation	Pitch	Number of teeth	Pitch diameter	Type	Bore		Hub		Plate thickness	Mass	Designation						
				Min.	Max.	H	L								t <sub>i</sub>	Min.	Max.	H				L	t <sub>i</sub>				
mm	-	mm	-	mm	-	mm	-	mm	kg	-	mm	-	mm	-	mm	-	mm	-	mm	kg	-						
<b>12,70</b>	44	178,03	A B	20	-	16	50	90	40	7,37	1,28 2,32	<b>PHS 08B-1A44</b> <b>PHS 08B-1B44</b>		<b>15,88</b>	18	91,42	A B	12	-	14	50	70	30	9,17	0,41 1,02	<b>PHS 10B-1A18</b> <b>PHS 10B-1BH18</b>	
	45	182,07	A B	20	-	16	50	90	40	7,37	1,00 2,30	<b>PHS 08B-1A45</b> <b>PHS 08B-1B45</b>			19	96,45	A B	12	-	14	50	70	30	9,17	0,46 1,06	<b>PHS 10B-1A19</b> <b>PHS 10B-1BH19</b>	
	46	186,10	A B	20	-	16	50	90	40	7,37	1,43 2,45	<b>PHS 08B-1A46</b> <b>PHS 08B-1B46</b>			20	101,49	A B	12	-	14	50	75	30	9,17	0,52 1,22	<b>PHS 10B-1A20</b> <b>PHS 10B-1BH20</b>	
	47	190,14	A B	20	-	16	50	90	40	7,37	1,50 2,60	<b>PHS 08B-1A47</b> <b>PHS 08B-1B47</b>			21	106,52	A B	12	-	16	50	75	30	9,17	0,57 1,26	<b>PHS 10B-1A21</b> <b>PHS 10B-1BH21</b>	
	48	194,18	A B	20	-	16	64	90	40	7,37	1,57 2,85	<b>PHS 08B-1A48</b> <b>PHS 08B-1B48</b>			22	111,55	A B	12	-	16	50	80	30	9,17	0,62 1,42	<b>PHS 10B-1A22</b> <b>PHS 10B-1BH22</b>	
	50	208,30	A B	20	-	16	64	90	40	7,37	1,81 2,92	<b>PHS 08B-1A50</b> <b>PHS 08B-1B50</b>			23	116,58	A B	12	-	16	50	80	30	9,17	0,67 1,47	<b>PHS 10B-1A23</b> <b>PHS 10B-1BH23</b>	
	54	218,43	A B	20	-	16	64	90	40	7,37	2,00 3,00	<b>PHS 08B-1A54</b> <b>PHS 08B-1B54</b>			24	121,62	A B	12	-	16	50	80	30	9,17	0,74 1,55	<b>PHS 10B-1A24</b> <b>PHS 10B-1BH24</b>	
	57	230,54	A B	20	-	16	50	90	40	7,37	2,22 3,13	<b>PHS 08B-1A57</b> <b>PHS 08B-1B57</b>			25	126,66	A B	12	-	16	50	80	30	9,17	0,81 1,62	<b>PHS 10B-1A25</b> <b>PHS 10B-1BH25</b>	
	60	242,66	A B	20	-	16	64	90	40	7,37	2,50 3,30	<b>PHS 08B-1A60</b> <b>PHS 08B-1B60</b>			26	131,70	A B	16	-	20	55	85	35	9,17	0,88 2,00	<b>PHS 10B-1A26</b> <b>PHS 10B-1B26</b>	
	64	258,82	A B	25	-	16	64	90	40	7,37	2,87 3,60	<b>PHS 08B-1A64</b> <b>PHS 08B-1B64</b>			27	136,75	A B	16	-	20	55	85	35	9,17	0,96 2,05	<b>PHS 10B-1A27</b> <b>PHS 10B-1B27</b>	
	70	283,07	A B	25	-	16	64	90	40	7,37	3,43 3,80	<b>PHS 08B-1A70</b> <b>PHS 08B-1B70</b>			28	141,78	A B	16	-	20	55	90	35	9,17	1,02 2,27	<b>PHS 10B-1A28</b> <b>PHS 10B-1B28</b>	
	72	291,16	A B	25	-	16	64	90	40	7,37	3,62 4,00	<b>PHS 08B-1A72</b> <b>PHS 08B-1B72</b>			29	146,83	A B	16	-	20	55	90	35	9,17	1,09 2,35	<b>PHS 10B-1A29</b> <b>PHS 10B-1B29</b>	
	76	307,33	A B	25	-	16	50	90	40	7,37	3,99 4,12	<b>PHS 08B-1A76</b> <b>PHS 08B-1B76</b>			30	151,87	A B	16	-	20	58	90	35	9,17	1,20 2,42	<b>PHS 10B-1A30</b> <b>PHS 10B-1B30</b>	
	80	323,48	A B	25	-	16	64	90	40	7,37	4,46 5,00	<b>PHS 08B-1A80</b> <b>PHS 08B-1B80</b>			31	156,92	A B	16	-	20	58	95	35	9,17	1,28 2,66	<b>PHS 10B-1A31</b> <b>PHS 10B-1B31</b>	
	84	339,65	A B	25	-	16	64	90	40	7,37	4,93 6,12	<b>PHS 08B-1A84</b> <b>PHS 08B-1B84</b>			32	161,95	A B	16	-	20	58	95	35	9,17	1,38 2,74	<b>PHS 10B-1A32</b> <b>PHS 10B-1B32</b>	
	85	343,69	A B	25	-	16	64	90	40	7,37	5,05 6,32	<b>PHS 08B-1A85</b> <b>PHS 08B-1B85</b>			33	167,00	A B	16	-	20	58	95	35	9,17	1,46 2,80	<b>PHS 10B-1A33</b> <b>PHS 10B-1B33</b>	
	92	371,99	A B	25	-	16	64	90	40	7,37	5,88 6,92	<b>PHS 08B-1A92</b> <b>PHS 08B-1B92</b>			34	172,05	A B	16	-	20	58	95	35	9,17	1,55 2,90	<b>PHS 10B-1A34</b> <b>PHS 10B-1B34</b>	
	95	384,11	A B	25	-	16	55	90	40	7,37	6,23 7,38	<b>PHS 08B-1A95</b> <b>PHS 08B-1B95</b>			35	177,10	A B	16	-	20	58	95	35	9,17	1,63 3,03	<b>PHS 10B-1A35</b> <b>PHS 10B-1B35</b>	
	96	388,15	A B	25	-	16	64	90	40	7,37	6,35 8,00	<b>PHS 08B-1A96</b> <b>PHS 08B-1B96</b>			36	182,15	A B	20	-	20	63	100	35	9,17	2,00 3,27	<b>PHS 10B-1A36</b> <b>PHS 10B-1B36</b>	
	114	460,90	A B	25	-	16	64	90	40	7,37	8,47 9,50	<b>PHS 08B-1A114</b> <b>PHS 08B-1B114</b>			37	187,20	A B	20	-	20	63	100	35	9,17	1,85 3,39	<b>PHS 10B-1A37</b> <b>PHS 10B-1B37</b>	
<b>15,88</b>	8	41,48	A B	10	-	10	11	25	25	9,17	0,07 0,12	<b>PHS 10B-1A8</b> <b>PHS 10B-1BH8</b>		38	192,24	A B	20	-	20	63	100	35	9,17	1,93 3,49	<b>PHS 10B-1A38</b> <b>PHS 10B-1B38</b>		
	9	46,42	A B	10	-	10	15	30	25	9,17	0,10 0,17	<b>PHS 10B-1A9</b> <b>PHS 10B-1BH9</b>		39	197,29	A B	20	-	20	63	100	35	9,17	2,05 3,58	<b>PHS 10B-1A39</b> <b>PHS 10B-1B39</b>		
	10	51,37	A B	10	-	10	18	35	25	9,17	0,12 0,23	<b>PHS 10B-1A10</b> <b>PHS 10B-1BH10</b>		40	202,34	A B	20	-	20	63	100	35	9,17	2,15 3,69	<b>PHS 10B-1A40</b> <b>PHS 10B-1B40</b>		
	11	56,34	A B	10	-	12	21	37	30	9,17	0,15 0,30	<b>PHS 10B-1A11</b> <b>PHS 10B-1BH11</b>		41	207,39	A B	20	-	20	57	100	40	9,17	2,25 3,78	<b>PHS 10B-1A41</b> <b>PHS 10B-1B41</b>		
	12	61,34	A B	10	-	12	25	42	30	9,17	0,18 0,38	<b>PHS 10B-1A12</b> <b>PHS 10B-1BH12</b>		42	212,44	A B	20	-	20	57	100	40	9,17	2,38 3,87	<b>PHS 10B-1A42</b> <b>PHS 10B-1B42</b>		
	13	66,32	A B	10	-	12	28	47	30	9,17	0,21 0,47	<b>PHS 10B-1A13</b> <b>PHS 10B-1BH13</b>		43	217,49	A B	20	-	20	57	100	40	9,17	2,49 3,96	<b>PHS 10B-1A43</b> <b>PHS 10B-1B43</b>		
	14	71,34	A B	10	-	12	32	52	30	9,17	0,24 0,57	<b>PHS 10B-1A14</b> <b>PHS 10B-1BH14</b>		44	222,53	A B	20	-	20	57	100	40	9,17	2,61 4,05	<b>PHS 10B-1A44</b> <b>PHS 10B-1B44</b>		
	15	76,36	A B	10	-	12	35	57	30	9,17	0,28 0,69	<b>PHS 10B-1A15</b> <b>PHS 10B-1BH15</b>		45	227,58	A B	20	-	20	55	100	40	9,17	2,74 4,18	<b>PHS 10B-1A45</b> <b>PHS 10B-1B45</b>		
	16	81,37	A B	12	-	12	40	60	30	9,17	0,31 0,77	<b>PHS 10B-1A16</b> <b>PHS 10B-1BH16</b>		46	232,63	A B	20	-	20	64	100	40	9,17	2,87 4,34	<b>PHS 10B-1A46</b> <b>PHS 10B-1B46</b>		
	17	86,39	A B	12	-	12	40	60	30	9,17	0,36 0,82	<b>PHS 10B-1A17</b> <b>PHS 10B-1BH17</b>		47	237,68	A B	20	-	20	64	100	40	9,17	2,99 4,50	<b>PHS 10B-1A47</b> <b>PHS 10B-1B47</b>		

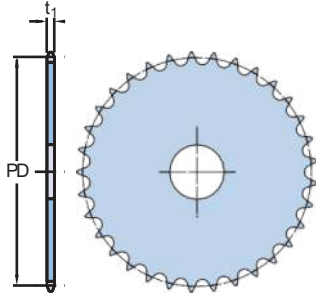
Maximum bores can accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required. All Type B or C sprockets, up to and including 25 tooth, are with hardened teeth as standard.

For any additional size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 08B-1AH8.

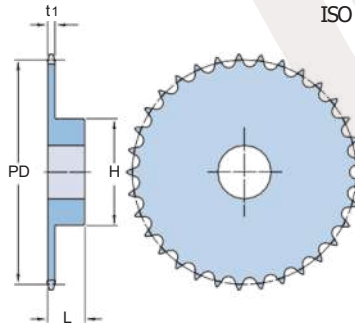
# CNIP SPROCKET

**Metric sprockets, simplex, pilot bore**

ISO 10B-1 · 15,88 mm pitch | ISO 12B-1 · 19,05 mm pitch



Type A



Type B

Pitch mm	Number of teeth	Pitch diameter mm	Type	Dimensions				Mass kg	Designation	
				Bore stock	Bore Min.	Bore Max.	Hub H			Hub L
15,88	48	242,73	A	20	-	-	-	-	3,13	PHS 10B-1A48
			B	20	64	100,40	9,17	4,66	PHS 10B-1B48	
	49	247,78	A	20	-	-	-	-	3,28	PHS 10B-1A49
			B	20	64	100,40	9,17	4,82	PHS 10B-1B49	
	50	252,82	A	20	-	-	-	-	3,43	PHS 10B-1A50
			B	20	64	100,40	9,17	4,98	PHS 10B-1B50	
	51	257,87	A	20	-	-	-	-	3,57	PHS 10B-1A51
			B	20	64	100,40	9,17	5,14	PHS 10B-1B51	
	52	262,92	A	20	-	-	-	-	3,72	PHS 10B-1A52
			B	20	64	100,40	9,17	5,30	PHS 10B-1B52	
	53	267,97	A	20	-	-	-	-	3,87	PHS 10B-1A53
			B	20	64	100,40	9,17	5,46	PHS 10B-1B53	
	54	273,03	A	20	-	-	-	-	4,02	PHS 10B-1A54
			B	20	64	100,40	9,17	5,62	PHS 10B-1B54	
	55	278,08	A	20	-	-	-	-	4,16	PHS 10B-1A55
			B	20	64	100,40	9,17	5,78	PHS 10B-1B55	
	56	283,13	A	25	-	-	-	-	4,31	PHS 10B-1A56
			B	20	64	100,40	9,17	5,94	PHS 10B-1B56	
	57	288,18	A	25	-	-	-	-	4,46	PHS 10B-1A57
			B	20	55	100,40	9,17	6,00	PHS 10B-1B57	
	58	293,23	A	25	-	-	-	-	4,64	PHS 10B-1A58
			B	20	64	100,43	9,17	6,44	PHS 10B-1B58	
	59	298,27	A	25	-	-	-	-	4,83	PHS 10B-1A59
			B	20	64	100,43	9,17	6,88	PHS 10B-1B59	
	60	303,32	A	25	-	-	-	-	5,01	PHS 10B-1A60
			B	20	64	100,43	9,17	7,32	PHS 10B-1B60	
	65	328,58	A	25	-	-	-	-	5,92	PHS 10B-1A65
			B	20	64	100,43	9,17	7,48	PHS 10B-1B65	
	70	353,84	A	25	-	-	-	-	6,83	PHS 10B-1A70
			B	20	64	100,43	9,17	7,76	PHS 10B-1B70	
	72	363,95	A	25	-	-	-	-	7,20	PHS 10B-1A72
			B	20	64	100,43	9,17	8,20	PHS 10B-1B72	
	76	384,16	A	25	-	-	-	-	7,93	PHS 10B-1A76
			B	20	60	100,43	9,17	8,68	PHS 10B-1B76	
	80	404,35	A	25	-	-	-	-	8,89	PHS 10B-1A80
			B	20	70	100,43	9,17	10,20	PHS 10B-1B80	
	84	424,57	A	30	-	-	-	-	9,85	PHS 10B-1A84
			B	20	70	100,50	9,17	11,72	PHS 10B-1B84	
	85	429,62	A	30	-	-	-	-	10,09	PHS 10B-1A85
			B	20	70	100,50	9,17	12,12	PHS 10B-1B85	
	92	464,98	A	30	-	-	-	-	11,76	PHS 10B-1A92
			B	20	70	100,50	9,17	12,91	PHS 10B-1B92	
	95	480,14	A	30	-	-	-	-	12,48	PHS 10B-1A95
			B	20	60	100,50	9,17	13,24	PHS 10B-1B95	

Pitch mm	Number of teeth	Pitch diameter mm	Type	Dimensions				Mass kg	Designation	
				Bore stock	Bore Min.	Bore Max.	Hub H			Hub L
15,88	96	485,19	A	30	-	-	-	-	12,72	PHS 10B-1A96
			B	20	70	100,50	9,17	14,00	PHS 10B-1B96	
	112	566,03	A	30	-	-	-	-	16,55	PHS 10B-1A112
			B	20	70	100,50	9,17	15,55	PHS 10B-1B112	
	114	576,13	A	30	-	-	-	-	17,03	PHS 10B-1A114
			B	20	70	100,50	9,17	16,25	PHS 10B-1B114	
	120	606,45	A	30	-	-	-	-	18,50	PHS 10B-1A120
			B	20	70	100,50	9,17	18,25	PHS 10B-1B120	
19,05	8	49,78	A	12	-	-	-	-	0,13	PHS 12B-1A8
			B	12	16	31	30	11,10	0,22	PHS 12B-1BH8
	9	55,70	A	12	-	-	-	-	0,16	PHS 12B-1A9
			B	12	20	37	30	11,10	0,31	PHS 12B-1BH9
	10	61,64	A	12	-	-	-	-	0,21	PHS 12B-1A10
			B	12	23	42	30	11,10	0,39	PHS 12B-1BH10
	11	67,61	A	14	-	-	-	-	0,25	PHS 12B-1A11
			B	14	28	46	35	11,10	0,54	PHS 12B-1BH11
	12	73,61	A	14	-	-	-	-	0,30	PHS 12B-1A12
			B	14	32	52	35	11,10	0,68	PHS 12B-1BH12
	13	79,59	A	14	-	-	-	-	0,37	PHS 12B-1A13
			B	14	36	58	35	11,10	0,84	PHS 12B-1BH13
	14	85,61	A	14	-	-	-	-	0,43	PHS 12B-1A14
			B	14	40	64	35	11,10	1,01	PHS 12B-1BH14
	15	91,63	A	14	-	-	-	-	0,50	PHS 12B-1A15
			B	14	44	70	35	11,10	1,19	PHS 12B-1BH15
	16	97,65	A	14	-	-	-	-	0,56	PHS 12B-1A16
			B	16	48	75	35	11,10	1,36	PHS 12B-1BH16
	17	103,67	A	14	-	-	-	-	0,65	PHS 12B-1A17
			B	16	55	80	35	11,10	1,56	PHS 12B-1BH17
	18	109,71	A	14	-	-	-	-	0,73	PHS 12B-1A18
			B	16	55	80	35	11,10	1,73	PHS 12B-1BH18
	19	115,75	A	14	-	-	-	-	0,82	PHS 12B-1A19
			B	16	55	80	35	11,10	1,73	PHS 12B-1BH19
	20	121,78	A	14	-	-	-	-	0,90	PHS 12B-1A20
			B	16	55	80	35	11,10	1,83	PHS 12B-1BH20
	21	127,82	A	16	-	-	-	-	0,99	PHS 12B-1A21
			B	20	55	90	40	11,10	2,37	PHS 12B-1BH21
	22	133,86	A	16	-	-	-	-	1,08	PHS 12B-1A22
			B	20	55	90	40	11,10	2,48	PHS 12B-1BH22
	23	139,90	A	16	-	-	-	-	1,21	PHS 12B-1A23
			B	20	55	90	40	11,10	2,58	PHS 12B-1BH23
	24	145,94	A	16	-	-	-	-	1,33	PHS 12B-1A24
			B	20	55	90	40	11,10	2,70	PHS 12B-1BH24
	25	152,00	A	16	-	-	-	-	1,43	PHS 12B-1A25
			B	20	55	90	40	11,10	2,81	PHS 12B-1BH25

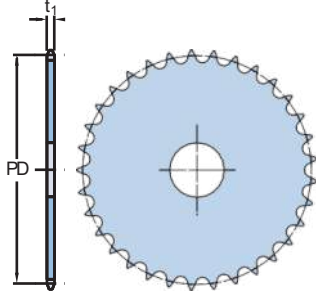




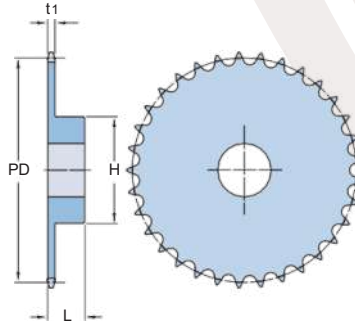
# CNIP SPROCKET

## Metric sprockets, simplex, pilot bore

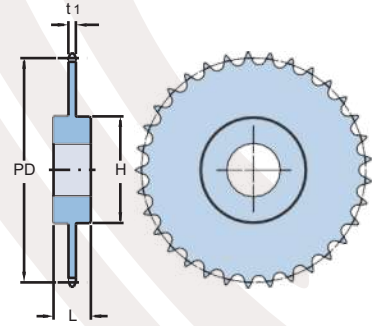
ISO 16B-1 · 25,40 mm pitch | ISO 20B-1 · 31,75 mm pitch



Type A



Type B



Type C

Pitch	Number of teeth	Pitch diameter	Type	Dimensions				Mass	Designation
				Bore stock	Bore	Hub H	Plate thickness L		
mm	-	mm	-	mm	Min.	Max.	kg	-	
25,40	28	226,85	A	20	-	-	-	4,79	<b>PHS 16B-1A28</b>
			B	-	20	76	12050	16,18	7,72
	29	234,92	A	20	-	-	-	5,14	<b>PHS 16B-1A29</b>
			B	-	20	76	12050	16,18	8,11
	30	243,00	A	20	-	-	-	5,53	<b>PHS 16B-1A30</b>
			B	-	20	76	12050	16,18	8,47
	31	251,08	A	25	-	-	-	5,89	<b>PHS 16B-1A31</b>
			B	-	25	76	12050	16,18	8,78
	32	259,13	A	25	-	-	-	6,33	<b>PHS 16B-1A32</b>
			B	-	25	76	12050	16,18	9,19
	33	267,21	A	25	-	-	-	6,70	<b>PHS 16B-1A33</b>
			B	-	25	76	12050	16,18	9,63
	34	275,28	A	25	-	-	-	7,00	<b>PHS 16B-1A34</b>
			B	-	25	76	12050	16,18	10,02
	35	283,36	A	25	-	-	-	7,60	<b>PHS 16B-1A35</b>
			B	-	25	76	12050	16,18	10,50
	36	291,44	A	25	-	-	-	8,08	<b>PHS 16B-1A36</b>
			B	-	25	76	12050	16,18	10,90
	37	299,51	A	25	-	-	-	8,50	<b>PHS 16B-1A37</b>
			B	-	25	76	12050	16,18	11,30
38	307,59	A	25	-	-	-	8,98	<b>PHS 16B-1A38</b>	
		B	-	25	76	12050	16,18	11,86	<b>PHS 16B-1B38</b>
39	315,67	A	25	-	-	-	9,34	<b>PHS 16B-1A39</b>	
		B	-	25	76	12050	16,18	12,32	<b>PHS 16B-1B39</b>
40	323,75	A	25	-	-	-	9,94	<b>PHS 16B-1A40</b>	
		B	-	25	76	12550	16,18	12,86	<b>PHS 16B-1B40</b>
41	331,82	A	25	-	-	-	10,50	<b>PHS 16B-1A41</b>	
		B	-	25	80	12568	16,18	13,40	<b>PHS 16B-1B41</b>
42	339,90	A	25	-	-	-	11,02	<b>PHS 16B-1A42</b>	
		B	-	25	80	12568	16,18	13,94	<b>PHS 16B-1B42</b>
43	347,98	A	25	-	-	-	11,64	<b>PHS 16B-1A43</b>	
		B	-	25	80	12568	16,18	14,48	<b>PHS 16B-1B43</b>
44	356,06	A	25	-	-	-	12,08	<b>PHS 16B-1A44</b>	
		B	-	25	80	12568	16,18	15,02	<b>PHS 16B-1B44</b>
45	364,13	A	25	-	-	-	12,60	<b>PHS 16B-1A45</b>	
		B	-	25	65	12568	16,18	13,00	<b>PHS 16B-1B45</b>
46	372,21	A	25	-	-	-	13,20	<b>PHS 16B-1A46</b>	
		B	-	25	80	12568	16,18	16,10	<b>PHS 16B-1B46</b>
47	380,29	A	25	-	-	-	13,94	<b>PHS 16B-1A47</b>	
		B	-	25	80	12568	16,18	16,64	<b>PHS 16B-1B47</b>
48	388,36	A	25	-	-	-	14,54	<b>PHS 16B-1A48</b>	
		B	-	25	80	12568	16,18	17,18	<b>PHS 16B-1B48</b>
50	404,52	A	25	-	-	-	15,86	<b>PHS 16B-1A50</b>	
		B	-	25	80	12568	16,18	18,26	<b>PHS 16B-1B50</b>

Pitch	Number of teeth	Pitch diameter	Type	Dimensions				Mass	Designation
				Bore stock	Bore	Hub H	Plate thickness L		
mm	-	mm	-	mm	Min.	Max.	kg	-	
25,40	54	436,85	A	30	-	-	-	18,51	<b>PHS 16B-1A54</b>
			B	-	25	85	12568	16,18	20,42
	57	461,07	A	30	-	-	-	20,50	<b>PHS 16B-1A57</b>
			B	-	25	65	12568	16,18	15,50
	60	485,32	A	30	-	-	-	22,95	<b>PHS 16B-1A60</b>
			B	-	25	85	13368	16,18	23,66
	65	525,73	A	30	-	-	-	27,03	<b>PHS 16B-1A65</b>
			B	-	25	85	14068	16,18	26,36
	70	566,14	A	30	-	-	-	31,11	<b>PHS 16B-1A70</b>
			C	-	25	108	14068	16,18	29,06
	72	582,32	A	30	-	-	-	32,74	<b>PHS 16B-1A72</b>
			C	-	25	108	14068	16,18	30,14
	76	614,65	A	30	-	-	-	36,00	<b>PHS 16B-1A76</b>
			C	-	25	75	14068	16,18	28,50
	80	646,96	A	30	-	-	-	40,42	<b>PHS 16B-1A80</b>
			C	-	25	108	14068	16,18	34,46
	84	679,30	A	30	-	-	-	44,84	<b>PHS 16B-1A84</b>
			C	-	25	108	14078	16,18	36,62
	90	727,81	A	30	-	-	-	51,47	<b>PHS 16B-1A90</b>
			C	-	25	108	14078	16,18	39,86
95	768,22	A	30	-	-	-	57,00	<b>PHS 16B-1A95</b>	
		C	-	25	85	14078	16,18	42,56	<b>PHS 16B-1C95</b>
96	766,31	A	30	-	-	-	58,11	<b>PHS 16B-1A96</b>	
		C	-	25	108	14078	16,18	43,10	<b>PHS 16B-1C96</b>
114	921,81	A	30	-	-	-	78,00	<b>PHS 16B-1A114</b>	
		C	-	25	108	14078	16,18	52,82	<b>PHS 16B-1C114</b>
31,75	8	82,97	A	16	-	-	-	0,63	<b>PHS 20B-1A8</b>
			B	-	20	57	53	40	18,59
9	92,83	A	16	-	-	-	0,95	<b>PHS 20B-1A9</b>	
		B	-	20	57	63	40	18,59	1,45
10	102,75	A	16	-	-	-	1,27	<b>PHS 20B-1A10</b>	
		B	-	20	60	70	40	18,59	1,86
11	112,70	A	16	-	-	-	1,59	<b>PHS 20B-1A11</b>	
		B	-	20	70	77	45	18,59	2,40
12	122,67	A	20	-	-	-	1,91	<b>PHS 20B-1A12</b>	
		B	-	20	76	88	45	18,59	2,95
13	132,67	A	20	-	-	-	2,18	<b>PHS 20B-1A13</b>	
		B	-	20	76	98	45	18,59	3,00
14	142,68	A	20	-	-	-	2,49	<b>PHS 20B-1A14</b>	
		B	-	20	76	108	45	18,59	3,40
15	152,71	A	20	-	-	-	2,68	<b>PHS 20B-1A15</b>	
		B	-	20	76	118	50	18,59	4,31
16	162,75	A	20	-	-	-	3,08	<b>PHS 20B-1A16</b>	
		B	-	20	76	120	50	18,59	4,63

# CNIP SPROCKET

## Metric sprockets, simplex, pilot bore

ISO 20B-1 · 31,75 mm pitch | ISO 24B-1 · 38,10 mm pitch

Pitch	Number of teeth	Pitch diameter	Type	Dimensions		Hub	Plate thickness	Mass	Designation	
				Bore stock	Bore					
mm	-	mm	-	mm	Min.	Max.	H	L	t	
										31,75
	18	182,84	A B	20	25	76	12050	18,59	3,81 5,44	PHS 20B-1A18 PHS 20B-1BH18
	19	192,90	A B	20	25	76	12050	18,59	4,31 5,90	PHS 20B-1A19 PHS 20B-1BH19
	20	202,96	A B	20	25	76	12050	18,59	4,58 6,35	PHS 20B-1A20 PHS 20B-1BH20
	21	213,03	A B	25	25	76	14055	18,59	5,17 7,03	PHS 20B-1A21 PHS 20B-1BH21
	22	223,10	A B	25	25	76	14055	18,59	5,72 7,71	PHS 20B-1A22 PHS 20B-1BH22
	23	233,17	A B	25	25	84	14055	18,59	5,99 8,16	PHS 20B-1A23 PHS 20B-1BH23
	24	243,25	A B	25	25	84	14055	18,59	6,62 8,62	PHS 20B-1A24 PHS 20B-1BH24
	25	253,32	A B	25	25	84	14055	18,59	6,94 9,07	PHS 20B-1A25 PHS 20B-1BH25
	26	263,41	A B	25	25	84	15055	18,59	7,62 9,53	PHS 20B-1A26 PHS 20B-1BH26
	27	273,49	A B	25	25	84	15055	18,59	8,35 10,43	PHS 20B-1A27 PHS 20B-1BH27
	28	283,57	A B	25	25	84	15055	18,59	8,85 11,34	PHS 20B-1A28 PHS 20B-1BH28
	29	293,66	A B	25	25	84	15055	18,59	9,43 11,76	PHS 20B-1A29 PHS 20B-1BH29
	30	303,75	A B	25	25	84	15055	18,59	9,98 12,02	PHS 20B-1A30 PHS 20B-1BH30
	31	313,83	A B	25	25	84	15055	18,59	10,73 12,77	PHS 20B-1A31 PHS 20B-1BH31
	32	323,92	A B	25	25	84	15055	18,59	11,49 13,52	PHS 20B-1A32 PHS 20B-1BH32
	33	334,01	A B	25	25	84	15055	18,59	12,24 14,59	PHS 20B-1A33 PHS 20B-1BH33
	34	344,10	A B	25	25	84	15055	18,59	13,00 15,66	PHS 20B-1A34 PHS 20B-1BH34
	35	354,20	A B	25	25	84	15055	18,59	13,75 16,74	PHS 20B-1A35 PHS 20B-1BH35
	36	364,29	A B	25	25	84	15055	18,59	14,50 17,51	PHS 20B-1A36 PHS 20B-1BH36
	37	374,38	A B	25	25	84	15055	18,59	15,25 18,17	PHS 20B-1A37 PHS 20B-1BH37
	38	384,48	A B	25	25	84	15055	18,59	16,01 18,82	PHS 20B-1A38 PHS 20B-1BH38
	39	394,57	A B	25	25	84	15055	18,59	16,76 19,78	PHS 20B-1A39 PHS 20B-1BH39
	40	404,67	A B	25	25	84	15055	18,59	17,52 21,27	PHS 20B-1A40 PHS 20B-1BH40
	41	414,77	A B	30	25	84	15070	18,59	18,27 22,07	PHS 20B-1A41 PHS 20B-1BH41
	42	424,88	A B	30	25	84	15070	18,59	19,03 22,86	PHS 20B-1A42 PHS 20B-1BH42
	43	434,96	A B	30	25	84	15070	18,59	19,78 23,40	PHS 20B-1A43 PHS 20B-1BH43
	44	445,06	A B	30	25	84	15070	18,59	20,53 23,95	PHS 20B-1A44 PHS 20B-1BH44
	45	455,15	A B	30	25	84	15070	18,59	21,29 24,49	PHS 20B-1A45 PHS 20B-1BH45
	46	465,25	A B	30	25	84	15070	18,59	22,04 26,31	PHS 20B-1A46 PHS 20B-1BH46

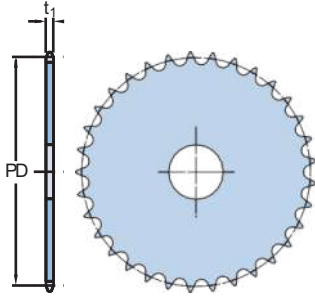
Pitch	Number of teeth	Pitch diameter	Type	Dimensions		Hub	Plate thickness	Mass	Designation	
				Bore stock	Bore					
mm	-	mm	-	mm	Min.	Max.	H	L	t	
										31,75
	48	485,45	A B	30	25	102	15070	18,59	23,55 29,94	PHS 20B-1A48 PHS 20B-1BH48
	49	495,55	A B	30	25	102	15070	18,59	24,30 31,76	PHS 20B-1A49 PHS 20B-1BH49
	50	505,65	A B	30	25	102	15070	18,59	25,06 33,57	PHS 20B-1A50 PHS 20B-1BH50
	51	515,75	A B	30	25	102	15080	18,59	24,43 35,39	PHS 20B-1A51 PHS 20B-1BH51
	52	525,85	A B	30	25	102	15080	18,59	25,85 37,21	PHS 20B-1A52 PHS 20B-1BH52
	53	535,95	A B	30	25	102	15080	18,59	27,27 39,02	PHS 20B-1A53 PHS 20B-1BH53
	54	546,05	A C	30	25	102	15080	18,59	25,70 32,90	PHS 20B-1A54 PHS 20B-1C54
	55	556,15	A C	30	25	102	15080	18,59	30,12 34,77	PHS 20B-1A55 PHS 20B-1C55
	56	566,25	A C	30	25	102	15080	18,59	31,34 36,63	PHS 20B-1A56 PHS 20B-1C56
	57	576,35	A C	30	25	102	15080	18,59	32,96 38,50	PHS 20B-1A57 PHS 20B-1C57
	58	586,45	A C	30	25	102	15080	18,59	35,80 40,37	PHS 20B-1A58 PHS 20B-1C58
	59	596,56	A C	30	25	102	15080	18,59	37,22 42,24	PHS 20B-1A59 PHS 20B-1C59
	60	606,66	A C	30	25	102	15080	18,59	38,64 44,10	PHS 20B-1A60 PHS 20B-1C60
	70	707,68	A C	30	25	133	15080	18,59	52,85 65,36	PHS 20B-1A70 PHS 20B-1C70
	72	727,89	A C	30	25	133	15080	18,59	55,70 67,23	PHS 20B-1A72 PHS 20B-1C72
	76	768,30	A C	30	25	133	15080	18,59	61,38 70,98	PHS 20B-1A76 PHS 20B-1C76
	80	808,71	A C	30	25	133	15080	18,59	67,06 74,70	PHS 20B-1A80 PHS 20B-1C80
	84	849,13	A C	30	25	133	15090	18,59	72,75 78,43	PHS 20B-1A84 PHS 20B-1C84
	90	909,76	A C	30	25	133	15090	18,59	81,27 84,03	PHS 20B-1A90 PHS 20B-1C90
	95	960,28	A C	30	25	133	15090	18,59	102,42 117,18	PHS 20B-1A95 PHS 20B-1C95
	96	970,38	A C	30	25	133	15090	18,59	103,84 117,56	PHS 20B-1A96 PHS 20B-1C96
	114	1152,27	A C	30	25	133	15090	18,59	130,84 124,40	PHS 20B-1A114 PHS 20B-1C114

ores can accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required.  
r C sprockets, up to and including 25 teeth, are with hardened teeth as standard.  
ditional size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 08B-1AH8.

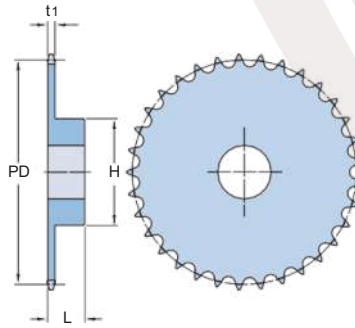
# CNIP SPROCKET

Metric sprockets, simplex, pilot bore

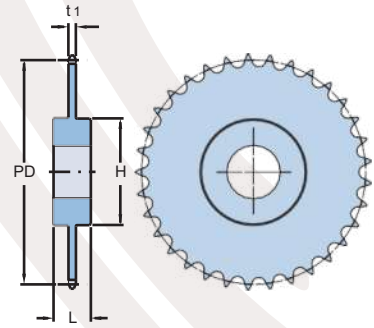
ISO 24B-1 · 38,10 mm pitch | ISO 28B-1 · 44,45 mm pitch



Type A



Type B



Type C

Pitch	Number of teeth	Pitch diameter PD	Type	Bore		Hub H L	Plate thickness t1	Mass kg	Designation	
				Min.	Max.					
38,10	16	195,29	A	25	-	-	-	4,86	PHS 24B-1A16	
			B	-	25	92	136,55	24,13	9,08	PHS 24B-1BH16
	17	207,35	A	25	-	-	-	5,44	PHS 24B-1A17	
			B	-	25	92	136,55	24,13	9,76	PHS 24B-1BH17
	18	219,41	219,41	A	25	-	-	-	6,13	PHS 24B-1A18
				B	-	25	92	136,55	24,13	10,49
	19	231,48	231,48	A	25	-	-	-	7,03	PHS 24B-1A19
				B	-	25	92	136,55	24,13	11,21
	20	243,55	243,55	A	25	-	-	-	7,94	PHS 24B-1A20
				B	-	25	92	136,55	24,13	12,26
	21	255,63	255,63	A	25	-	-	-	8,62	PHS 24B-1A21
				B	-	25	92	150,60	24,13	13,38
	22	267,72	267,72	A	25	-	-	-	9,76	PHS 24B-1A22
				B	-	25	92	150,60	24,13	13,67
	23	179,80	179,80	A	25	-	-	-	10,43	PHS 24B-1A23
				B	-	25	92	150,60	24,13	14,74
	24	291,90	291,90	A	25	-	-	-	11,35	PHS 24B-1A24
				B	-	25	92	150,60	24,13	15,48
	25	303,99	303,99	A	25	-	-	-	12,47	PHS 24B-1A25
				B	-	25	92	150,60	24,13	16,38
	26	316,09	316,09	A	30	-	-	-	13,39	PHS 24B-1A26
				B	-	30	102	150,65	24,13	19,43
	27	328,19	328,19	A	30	-	-	-	14,53	PHS 24B-1A27
				B	-	30	102	150,65	24,13	20,39
	28	340,29	340,29	A	30	-	-	-	15,89	PHS 24B-1A28
				B	-	30	102	150,65	24,13	21,34
	29	352,39	352,39	A	30	-	-	-	17,02	PHS 24B-1A29
				B	-	30	102	150,65	24,13	22,79
	30	364,49	364,49	A	30	-	-	-	18,39	PHS 24B-1A30
				B	-	30	102	150,65	24,13	24,25
	31	376,60	376,60	A	30	-	-	-	20,02	PHS 24B-1A31
				B	-	30	102	150,65	24,13	26,19
	32	388,71	388,71	A	30	-	-	-	21,66	PHS 24B-1A32
				B	-	30	102	150,65	24,13	28,12
	33	400,82	400,82	A	30	-	-	-	23,29	PHS 24B-1A33
				B	-	30	102	150,65	24,13	30,05
	34	412,93	412,93	A	30	-	-	-	24,93	PHS 24B-1A34
				B	-	30	102	150,65	24,13	31,99
35	425,04	425,04	A	30	-	-	-	26,56	PHS 24B-1A35	
			B	-	30	102	150,65	24,13	33,93	PHS 24B-1B35
36	437,15	437,15	A	30	-	-	-	28,19	PHS 24B-1A36	
			B	-	30	102	150,65	24,13	35,86	PHS 24B-1B36
38	461,37	461,37	A	30	-	-	-	31,46	PHS 24B-1A38	
			B	-	30	102	150,65	24,13	39,73	PHS 24B-1B38

Pitch	Number of teeth	Pitch diameter PD	Type	Bore		Hub H L	Plate thickness t1	Mass kg	Designation	
				Min.	Max.					
38,10	40	485,60	A	30	-	-	-	36,23	PHS 24B-1A40	
			B	-	30	102	150,65	24,13	42,52	PHS 24B-1B40
	42	509,83	509,83	A	30	-	-	-	40,99	PHS 24B-1A42
				C	-	30	102	160,90	24,13	45,31
	45	546,19	546,19	A	30	-	-	-	48,14	PHS 24B-1A45
				C	-	30	102	160,90	24,13	50,71
	48	482,54	482,54	A	30	-	-	-	55,29	PHS 24B-1A48
				C	-	30	102	160,90	24,13	57,43
	50	606,78	606,78	A	30	-	-	-	60,05	PHS 24B-1A50
				C	-	30	102	160,90	24,13	61,57
	54	655,26	655,26	A	30	-	-	-	69,58	PHS 24B-1A54
				C	-	30	102	160,100	24,13	69,84
	57	691,62	691,62	A	30	-	-	-	76,73	PHS 24B-1A57
				C	-	30	133	160,100	24,13	76,05
	60	727,99	727,99	A	30	-	-	-	85,19	PHS 24B-1A60
				C	-	30	133	160,100	24,13	80,05
	68	824,97	824,97	A	40	-	-	-	107,74	PHS 24B-1A68
				C	-	30	133	160,100	24,13	93,39
	72	873,43	873,43	A	40	-	-	-	119,02	PHS 24B-1A72
				C	-	30	133	160,100	24,13	111,51
	76	921,96	921,96	A	40	-	-	-	130,30	PHS 24B-1A76
				C	-	30	133	160,100	24,13	129,62
	95	921,96	921,96	A	40	-	-	-	183,88	PHS 24B-1A95
				C	-	30	133	160,100	24,13	215,67
	96	921,96	921,96	A	40	-	-	-	186,70	PHS 24B-1A96
				C	-	30	133	160,100	24,13	220,20
	114	921,96	921,96	A	40	-	-	-	237,46	PHS 24B-1A114
				C	-	30	133	160,100	24,13	301,71
	44,45	11	157,77	A	20	-	-	-	3,18	PHS 28B-1A11
				B	-	25	73	112,70	29,44	5,27
	12	171,74	171,74	A	20	-	-	-	3,95	PHS 28B-1A12
				B	-	25	84	125,70	29,44	6,40
	13	185,74	185,74	A	20	-	-	-	4,31	PHS 28B-1A13
				B	-	25	93	125,70	29,44	8,22
	14	199,76	199,76	A	20	-	-	-	4,77	PHS 28B-1A14
				B	-	25	93	125,70	29,44	9,13
	15	213,79	213,79	A	20	-	-	-	5,45	PHS 28B-1A15
				B	-	25	108	125,70	29,44	11,40
16	227,84	227,84	A	30	-	-	-	6,81	PHS 28B-1A16	
			B	-	30	108	160,75	29,44	12,76	PHS 28B-1BH16
17	241,91	241,91	A	30	-	-	-	7,71	PHS 28B-1A17	
			B	-	30	108	160,75	29,44	13,65	PHS 28B-1BH17
18	255,98	255,98	A	30	-	-	-	8,63	PHS 28B-1A18	
			B	-	30	108	160,75	29,44	13,65	PHS 28B-1BH18

Maximum bores can accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required. All Type B or C sprockets, up to and including 25 tooth, are with hardened teeth as standard.

For any additional size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 08B-1AH8.

# CNIP SPROCKET

Metric sprockets, simplex, pilot bore

ISO 28B-1 · 44,45 mm pitch | ISO 32B-1 · 50,80 mm pitch

Pitch	Number of teeth	Pitch diameter	Type	Dimensions			Hub	Plate thickness	Mass	Designation	Pitch	Number of teeth	Pitch diameter	Type	Dimensions			Hub	Plate thickness	Mass	Designation						
				Bore stock	Bore	Bore									H	L	t <sub>1</sub>					Bore stock	Bore	Bore	H	L	t <sub>1</sub>
				Min.	Max.																	Min.	Max.				
mm	-	mm	-	mm		kg	-	mm	-	mm	-	mm	-	mm		kg	-										
44,45	19	270,06	A B	30	-	108	160,75	29,44	9,53 15,01	PHS 28B-1A19 PHS 28B-1BH19	50,80	17	276,46	A B	30	-	103	160,90	29,44	12,35	PHS 32B-1A17 PHS 32B-1BH17						
	20	284,14	A B	30	-	108	160,75	29,44	10,44 16,84	PHS 28B-1A20 PHS 28B-1BH20									3		20,2						
	21	298,24	A B	30	-	108	160,75	29,44	11,79 18,19	PHS 28B-1A21 PHS 28B-1BH21	18	292,55	A B	30	-	103	160,90	29,44	13,96	PHS 32B-1A18 PHS 32B-1BH18							
	22	312,34	A B	30	-	108	160,75	29,44	13,17 19,11	PHS 28B-1A22 PHS 28B-1BH22								8		21,8							
	23	326,44	A B	30	-	108	160,75	29,44	14,06 20,46	PHS 28B-1A23 PHS 28B-1BH23	19	308,64	A B	30	-	103	160,90	29,44	15,57	PHS 32B-1A19 PHS 32B-1BH19							
	24	340,54	A B	30	-	108	160,75	29,44	15,44 21,84	PHS 28B-1A24 PHS 28B-1BH24								3		23,5							
	25	354,65	A B	30	-	108	160,75	29,44	16,78 22,73	PHS 28B-1A25 PHS 28B-1BH25	20	324,74	A B	30	-	133	180,90	29,44	17,36	PHS 32B-1A20 PHS 32B-1BH20							
	26	368,77	A B	30	-	108	160,75	29,44	18,61 26,83	PHS 28B-1A26 PHS 28B-1BH26								7		25,3							
	27	382,88	A B	30	-	108	160,75	29,44	20,43 27,74	PHS 28B-1A27 PHS 28B-1BH27	21	340,84	A B	30	-	133	180,90	29,44	19,15	PHS 32B-1A21 PHS 32B-1BH21							
	28	397,00	A B	30	-	108	160,75	29,44	20,88 30,29	PHS 28B-1A28 PHS 28B-1BH28								0		27,2							
	30	425,24	A B	30	-	108	160,75	29,44	25,17 32,73	PHS 28B-1A30 PHS 28B-1B30	22	356,96	A B	30	-	133	180,90	29,44	21,13	PHS 32B-1A22 PHS 32B-1BH22							
	32	453,49	A B	30	-	134	180,75	29,44	31,02 34,84	PHS 28B-1A32 PHS 28B-1B32								3		29,2							
	38	538,27	A B	30	-	134	180,75	29,44	48,58 51,25	PHS 28B-1A38 PHS 28B-1B38	23	373,07	A B	30	-	133	180,90	29,44	23,10	PHS 32B-1A23 PHS 32B-1BH23							
	40	566,54	A C	30	-	134	180,75	29,44	52,80 52,84	PHS 28B-1A40 PHS 28B-1C40								5		31,2							
	42	594,81	A C	30	-	134	180,90	29,44	57,02 54,43	PHS 28B-1A42 PHS 28B-1C42	24	389,19	A B	30	-	133	180,90	29,44	25,26	PHS 32B-1A24 PHS 32B-1BH24							
	45	637,22	A C	30	-	134	180,90	29,44	63,35 60,55	PHS 28B-1A45 PHS 28B-1C45								3		35,3							
	48	679,63	A C	30	-	134	180,90	29,44	69,68 62,72	PHS 28B-1A48 PHS 28B-1C48	25	405,32	A B	30	-	133	180,90	29,44	27,41	PHS 32B-1A25 PHS 32B-1BH25							
	54	764,47	A C	30	-	134	180,100	29,44	82,34 74,60	PHS 28B-1A54 PHS 28B-1C54								0		36,8							
	57	806,89	A C	40	-	134	180,100	29,44	88,67 81,77	PHS 28B-1A57 PHS 28B-1C57	26	421,45	A B	30	-	133	180,90	29,44	30,25	PHS 32B-1A26 PHS 32B-1B26							
	60	849,32	A C	40	-	134	180,100	29,44	97,97 88,94	PHS 28B-1A60 PHS 28B-1C60								1		39,4							
	68	962,47	A C	40	-	137	180,100	29,44	122,79 108,05	PHS 28B-1A68 PHS 28B-1C68	27	437,58	A B	30	-	133	180,90	29,44	33,10	PHS 32B-1A27 PHS 32B-1B27							
	72	1 019,04	A C	40	-	137	180,100	29,44	135,19 117,61	PHS 28B-1A72 PHS 28B-1C72								2		42,0							
	76	1 075,62	A C	40	-	137	180,100	29,44	147,60 127,17	PHS 28B-1A76 PHS 28B-1C76	28	453,72	A B	30	-	133	180,90	29,44	35,94	PHS 32B-1A28 PHS 32B-1B28							
	95	1 344,39	A C	40	-	137	180,100	29,44	206,53 172,57	PHS 28B-1A95 PHS 28B-1C95								2		44,6							
	11	180,31	A B	25	-	83	120,90	29,44	5,00 9,04	PHS 32B-1A11 PHS 32B-1BH11	30	485,99	A B	30	-	133	180,90	29,44	41,63	PHS 32B-1A30 PHS 32B-1B30							
	12	196,28	A B	25	-	89	133,90	29,44	6,02 11,11	PHS 32B-1A12 PHS 32B-1BH12								4		49,8							
	13	212,27	A B	25	-	102	145,90	29,44	7,12 12,61	PHS 32B-1A13 PHS 32B-1BH13	32	518,28	A B	30	-	139	180,90	29,44	47,31	PHS 32B-1A32 PHS 32B-1B32							
	14	228,29	A B	30	-	102	145,90	29,44	8,32 14,97	PHS 32B-1A14 PHS 32B-1BH14								8		58,0							
	15	244,33	A B	30	-	102	145,90	29,44	9,50 17,32	PHS 32B-1A15 PHS 32B-1BH15	38	615,17	A B	30	-	139	180,90	29,44	64,37	PHS 32B-1A38 PHS 32B-1B38							
	16	260,39	A B	30	-	103	160,90	29,44	11,64 18,78	PHS 32B-1A16 PHS 32B-1BH16								8		86,7							
											40	647,47	A C	40	-	139	180,90	29,44	72,98	PHS 32B-1A40 PHS 32B-1C40							
																		5		91,3							
											42	679,78	A C	40	-	139	180,90	29,44	81,60	PHS 32B-1A42 PHS 32B-1C42							
																		1		95,9							
											45	728,25	A	40	-	-	-	-	94,52	PHS 32B-1A							



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