



BUREAU
VERITAS



SPROCKETS CATALOG



C.N.INDUSTRIAL PRODUCT

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

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Metric sprockets, duplex, taper bushed

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
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.

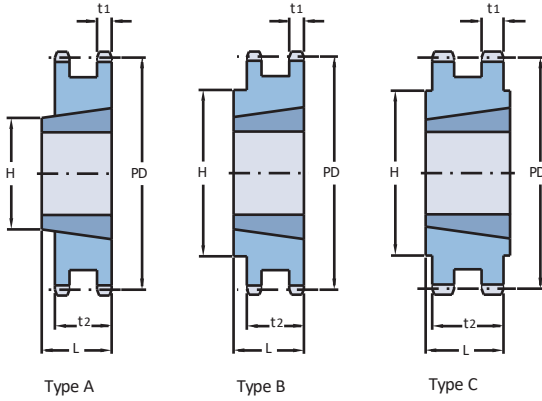
All sprockets are completely deburred and protected with rustproof oil.



**BUREAU
VERITAS**



CNIP SPROCKET



Metric sprockets, duplex, taper bushed

ISO 08B-2 · 12,70 mm pitch | ISO 10B-2 · 15,88 mm pitch | ISO 12B-2 · 19,05 mm pitch

Pitch	Number of teeth	Pitch diameter PD	Type	Bushing number	Dimensions Bore		L	H	Plate thickness		Mass Rim	Bushing	Designation	
					Min.	Max.			t1	t2				
mm	-	mm	-	-	mm						kg	-	-	
12,70	68	274,99	C	2517	16	63,5	32,0	100	7,24	21,13	4,33	1,30	PHS 08B-2TB68	
	70	283,07	C	2517	16	63,5	32,0	100	7,24	21,13	4,46	1,30	PHS 08B-2TB70	
	72	291,15	C	2517	16	63,5	32,0	100	7,24	21,13	4,59	1,30	PHS 08B-2TB72	
	76	307,31	C	2012	14	50,8	32,0	100	7,24	21,13	4,72	0,59	PHS 08B-2TB76	
	84	339,65	C	2517	16	63,5	32,0	100	7,24	21,13	6,45	1,30	PHS 08B-2TB84	
	95	384,10	C	2012	14	50,8	32,0	100	7,24	21,13	8,18	0,59	PHS 08B-2TB95	
	96	388,15	C	2517	16	63,5	32,0	110	7,24	21,13	9,00	1,30	PHS 08B-2TB96	
	114	460,90	C	2517	16	63,5	45,0	110	7,24	21,13	10,50	1,30	PHS 08B-2TB114	
	15,88	14	71,34	A	1008	9	25,4	25,5	-	8,97	25,22	0,43	0,09	PHS 10B-2TBH14
		15	76,36	A	1210	11	31,8	25,5	-	8,97	25,22	0,39	0,21	PHS 10B-2TBH15
		16	81,37	A	1610	14	41,3	25,5	-	8,97	25,22	0,35	0,31	PHS 10B-2TBH16
		17	86,39	A	1610	14	41,3	25,5	-	8,97	25,22	0,46	0,31	PHS 10B-2TBH17
18		91,42	A	1610	14	41,3	25,5	-	8,97	25,22	0,62	0,31	PHS 10B-2TBH18	
19		96,45	A	1610	14	41,3	25,5	-	8,97	25,22	0,75	0,31	PHS 10B-2TBH19	
20		101,49	B	1610	14	41,3	25,5	-	8,97	25,55	0,87	0,31	PHS 10B-2TBH20	
21		106,52	B	1610	14	41,3	25,5	-	8,97	25,55	1,05	0,31	PHS 10B-2TBH21	
22		111,55	B	1610	14	41,3	25,5	-	8,97	25,55	1,20	0,31	PHS 10B-2TBH22	
23		116,58	B	1610	14	41,3	25,5	-	8,97	25,55	1,38	0,31	PHS 10B-2TBH23	
24		121,62	B	2012	14	50,8	32,0	90	8,97	25,55	1,43	0,59	PHS 10B-2TBH24	
25		126,66	B	2012	14	50,8	32,0	90	8,97	25,55	1,62	0,59	PHS 10B-2TBH25	
26		131,70	B	2012	14	50,8	32,0	90	8,97	25,55	1,79	0,59	PHS 10B-2TBH26	
27		136,75	B	2012	14	50,8	32,0	90	8,97	25,55	2,00	0,59	PHS 10B-2TBH27	
28		141,78	B	2012	14	50,8	32,0	90	8,97	25,55	2,20	0,59	PHS 10B-2TBH28	
29		146,83	B	2012	14	50,8	32,0	90	8,97	25,55	2,43	0,59	PHS 10B-2TBH29	
30		151,87	B	2012	14	50,8	32,0	90	8,97	25,55	2,66	0,59	PHS 10B-2TBH30	
36		182,15	C	2517	16	63,5	45,0	110	8,97	25,55	4,33	1,30	PHS 10B-2TB36	
38		192,24	C	2517	14	50,8	45,0	110	8,97	25,55	4,88	0,59	PHS 10B-2TB38	
42		212,44	C	2517	16	63,5	45,0	110	8,97	25,55	5,99	1,30	PHS 10B-2TB42	
45		227,58	C	2517	16	63,5	45,0	110	8,97	25,55	6,83	1,30	PHS 10B-2TB45	
48		242,73	C	2517	16	63,5	45,0	110	8,97	25,55	7,66	1,30	PHS 10B-2TB48	
57		288,18	C	2517	16	63,5	45,0	110	8,97	25,55	10,15	1,30	PHS 10B-2TB57	
60		303,32	C	2517	16	63,5	45,0	110	8,97	25,55	10,99	1,30	PHS 10B-2TB60	
68	343,74	C	2517	16	63,5	45,0	110	8,97	25,55	13,21	1,30	PHS 10B-2TB68		
76	384,16	C	2517	16	63,5	45,0	110	8,97	25,55	15,43	1,30	PHS 10B-2TB76		
84	424,57	C	2517	16	63,5	45,0	110	8,97	25,55	17,65	1,30	PHS 10B-2TB84		
95	480,14	C	2517	16	63,5	45,0	110	8,97	25,55	20,70	1,30	PHS 10B-2TB95		
114	576,13	C	2517	16	63,5	45,0	110	8,97	25,55	25,97	1,30	PHS 10B-2TB114		
19,05	12	73,61	A	1215	11	31,8	30,3	-	10,87	30,33	0,19	0,30	PHS 12B-2TBH12	
	13	79,59	A	1215	14	41,3	30,3	-	10,87	30,33	0,36	0,30	PHS 12B-2TBH13	
	14	85,61	A	1215	14	41,3	30,3	-	10,87	30,33	0,53	0,30	PHS 12B-2TBH14	
	15	91,63	A	1610	14	41,3	30,3	-	10,87	30,33	0,70	0,31	PHS 12B-2TBH15	
	16	97,65	A	1610	14	41,3	30,3	-	10,87	30,33	0,87	0,31	PHS 12B-2TBH16	
	17	103,67	A	1610	14	41,3	30,3	-	10,87	30,33	1,10	0,31	PHS 12B-2TBH17	
	18	109,71	B	2012	14	50,8	31,8	90	10,87	30,33	1,05	0,59	PHS 12B-2TBH18	
	19	115,75	B	2012	14	50,8	32,0	90	10,87	30,33	1,29	0,59	PHS 12B-2TBH19	
	20	121,78	B	2517	16	63,5	45,0	102	10,87	30,33	1,34	1,30	PHS 12B-2TBH20	
	21	127,82	B	2517	16	63,5	45,0	108	10,87	30,33	1,71	1,30	PHS 12B-2TBH21	
	22	133,86	B	2517	16	63,5	45,0	108	10,87	30,33	2,03	1,30	PHS 12B-2TBH22	
	23	139,90	B	2517	16	63,5	45,0	108	10,87	30,33	2,51	1,30	PHS 12B-2TBH23	
	24	145,94	B	2517	16	63,5	45,0	108	10,87	30,33	2,58	1,30	PHS 12B-2TBH24	
	25	152,00	B	2517	16	63,5	45,0	108	10,87	30,33	3,38	1,30	PHS 12B-2TBH25	
	26	158,04	B	2517	16	63,5	45,0	108	10,87	30,33	3,24	1,30	PHS 12B-2TB26	
	27	164,09	B	2517	16	63,5	45,0	108	10,87	30,33	4,00	1,30	PHS 12B-2TB27	

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 06B-2TBH16.

CNIP SPROCKET

Metric sprockets, duplex, taper bushed

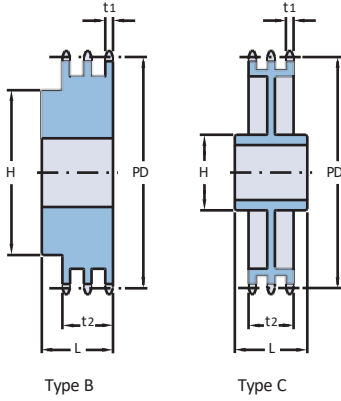
ISO 12B-2 · 19,05 mm pitch | ISO 16B-2 · 25,40 mm pitch

Pitch	Number of teeth	Pitch diameter PD	Type	Bushing number	Dimensions Bore				Plate thickness		Mass Rim kg	Bushing	Designation
					Min.	Max.	L	H	t ₁	t ₂			
					mm	mm	mm	mm	mm	mm			
19,05	28	170,13	B	2517	16	63,5	45,0	108	10,87	30,33	3,92	1,30	PHS 12B-2TB28
	30	182,25	B	2517	16	63,5	45,0	108	10,87	30,33	5,14	1,30	PHS 12B-2TB30
	32	194,36	B	2517	16	63,5	44,5	130	10,87	30,33	5,92	1,30	PHS 12B-2TB32
	35	212,52	B	2517	16	63,5	44,5	130	10,87	30,33	7,08	1,30	PHS 12B-2TB35
	38	230,69	B	3020	25	76,2	51,0	140	10,87	30,33	6,95	2,24	PHS 12B-2TB38
	40	242,81	C	3020	25	76,2	51,0	140	10,87	30,33	9,03	2,24	PHS 12B-2TB40
	42	254,93	C	3020	25	76,2	51,0	140	10,87	30,33	9,81	2,24	PHS 12B-2TB42
	45	273,10	C	3020	25	76,2	51,0	140	10,87	30,33	9,33	2,24	PHS 12B-2TB45
	54	327,64	C	3020	25	76,2	51,0	140	10,87	30,33	14,47	2,24	PHS 12B-2TB54
	57	345,81	C	3020	25	76,2	51,0	140	10,87	30,33	10,50	2,24	PHS 12B-2TB57
	60	363,99	C	3020	25	76,2	51,0	140	10,87	30,33	16,80	2,24	PHS 12B-2TB60
	65	394,29	C	3020	25	76,2	51,0	140	10,87	30,33	18,75	2,24	PHS 12B-2TB65
	70	424,60	C	3020	25	76,2	51,0	140	10,87	30,33	20,69	2,24	PHS 12B-2TB70
	76	460,99	C	3020	25	76,2	51,0	140	10,87	30,33	17,06	2,24	PHS 12B-2TB76
84	509,48	C	3020	25	76,2	51,0	140	10,87	30,33	26,13	2,24	PHS 12B-2TB84	
95	576,17	C	3020	25	76,2	51,0	140	10,87	30,33	28,50	2,24	PHS 12B-2TB95	
114	691,36	C	3020	25	76,2	76,0	140	10,87	30,33	37,80	2,24	PHS 12B-2TB114	
25,40	13	106,12	A	1615	14	42,0	47,7	–	15,83	47,71	0,51	0,59	PHS 16B-2TBH13
	14	114,15	A	2012	14	50,8	47,7	–	15,83	47,71	1,01	0,59	PHS 16B-2TBH14
	15	122,17	A	2012	14	50,8	47,7	–	15,83	47,71	2,12	0,59	PHS 16B-2TBH15
	16	130,20	A	2517	16	63,5	47,7	–	15,83	47,71	2,01	1,30	PHS 16B-2TBH16
	17	138,22	A	2517	16	63,5	47,7	–	15,83	47,71	2,51	1,30	PHS 16B-2TBH17
	18	146,28	A	2517	16	63,5	47,7	–	15,83	47,71	3,13	1,30	PHS 16B-2TBH18
	19	154,33	A	2517	16	63,5	47,7	–	15,83	47,71	3,76	1,30	PHS 16B-2TBH19
	20	162,38	B	2517	16	63,5	47,7	140	15,83	47,71	4,43	1,30	PHS 16B-2TBH20
	21	170,43	B	3020	25	76,2	51,0	140	15,83	47,71	4,13	2,24	PHS 16B-2TBH21
	22	178,48	B	3020	25	76,2	51,0	140	15,83	47,71	4,95	2,24	PHS 16B-2TBH22
	23	186,53	B	3020	25	76,2	51,0	140	15,83	47,71	5,80	2,24	PHS 16B-2TBH23
	24	194,59	B	3020	25	76,2	51,0	140	15,83	47,71	6,68	2,24	PHS 16B-2TBH24
	25	202,66	B	3020	25	76,2	51,0	140	15,83	47,71	7,65	2,24	PHS 16B-2TBH25
	26	210,72	B	3020	25	76,2	51,0	140	15,83	47,71	8,50	2,24	PHS 16B-2TB26
	27	218,79	B	3020	25	76,2	51,0	140	15,83	47,71	9,47	2,24	PHS 16B-2TB27
	28	226,85	B	3020	25	76,2	51,0	140	15,83	47,71	10,46	2,24	PHS 16B-2TB28
	29	234,92	B	3020	25	76,2	51,0	140	15,83	47,71	11,48	2,24	PHS 16B-2TB29
	30	243,00	B	3020	25	76,2	51,0	140	15,83	47,71	12,50	3,04	PHS 16B-2TB30
	35	283,36	C	3030	35	76,2	76,0	140	15,83	47,71	16,36	3,04	PHS 16B-2TB35
	38	307,59	C	3030	25	63,5	51,0	140	15,83	47,71	13,48	3,04	PHS 16B-2TB38
	42	339,90	C	3030	35	76,2	76,0	140	15,83	47,71	22,52	2,24	PHS 16B-2TB42
	45	364,13	C	3030	35	76,2	76,0	140	15,83	47,71	18,30	3,04	PHS 16B-2TB45
	57	461,07	C	3525	35	100,0	63,5	175	15,83	47,71	27,00	3,56	PHS 16B-2TB57
	76	614,65	C	3525	35	100,0	63,5	175	15,83	47,71	43,50	3,56	PHS 16B-2TB76
	95	768,22	C	4040	40	101,6	102,0	215	15,83	47,71	67,00	5,54	PHS 16B-2TB95
	114	921,81	C	4040	40	101,6	102,0	215	15,83	47,71	85,88	5,54	PHS 16B-2TB114

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 06B-2TBH16.

CNIP SPROCKET



Metric sprockets, triplex, standard

ISO 06B-3 · 9,525 mm pitch | ISO 08B-3 · 12,70 mm pitch

Pitch	Number of teeth	Pitch diameter PD	Type	Dimensions		Hub		Plate thickness		Mass kg	Designation
				Bore		H	L	t1	t2		
				Min.	Max.						
mm	-	mm	-	mm							-
9,525	12	36,80	B	10	16	25	35	5,20	25,70	0,23	PHS 06B-3BH12
	13	39,79	B	10	18	28	35	5,20	25,70	0,27	PHS 06B-3BH13
	14	42,80	B	12	18	31	35	5,20	25,70	0,32	PHS 06B-3BH14
	15	45,81	B	12	20	34	35	5,20	25,70	0,36	PHS 06B-3BH15
	16	48,82	B	12	20	37	35	5,20	25,70	0,45	PHS 06B-3BH16
	17	51,83	B	12	24	40	35	5,20	25,70	0,54	PHS 06B-3BH17
	18	54,85	B	12	25	43	35	5,20	25,70	0,64	PHS 06B-3BH18
	19	57,87	B	12	28	46	35	5,20	25,70	0,72	PHS 06B-3BH19
	20	60,89	B	12	30	49	35	5,20	25,70	0,77	PHS 06B-3BH20
	21	63,91	B	14	30	52	40	5,20	25,70	0,86	PHS 06B-3BH21
	22	66,93	B	14	35	55	40	5,20	25,70	0,95	PHS 06B-3BH22
	23	69,95	B	14	38	58	40	5,20	25,70	1,04	PHS 06B-3BH23
	24	72,97	B	14	39	61	40	5,20	25,70	1,18	PHS 06B-3BH24
	25	76,02	B	14	40	64	40	5,20	25,70	1,27	PHS 06B-3BH25
	26	79,02	B	14	42	67	40	5,20	25,70	1,31	PHS 06B-3BH26
	27	82,02	B	14	45	70	40	5,20	25,70	1,36	PHS 06B-3BH27
	28	85,07	B	14	48	73	40	5,20	25,70	1,50	PHS 06B-3BH28
	29	88,09	B	14	50	76	40	5,20	25,70	1,68	PHS 06B-3BH29
	30	91,12	B	14	52	79	40	5,20	25,70	1,72	PHS 06B-3BH30
	32	97,17	B	16	52	80	40	5,20	25,70	2,00	PHS 06B-3BH32
	35	106,26	B	16	52	85	40	5,20	25,70	2,25	PHS 06B-3BH35
	36	109,29	B	16	60	90	40	5,20	25,70	2,33	PHS 06B-3BH36
	38	115,35	B	16	60	90	40	5,20	25,70	2,49	PHS 06B-3BH38
	40	121,40	B	16	60	90	40	5,20	25,70	2,65	PHS 06B-3BH40
	42	127,46	B	16	60	90	56	5,20	25,70	2,81	PHS 06B-3BH42
	45	136,55	B	16	60	90	56	5,20	25,70	3,00	PHS 06B-3BH45
	48	145,64	B	16	60	90	56	5,20	25,70	3,20	PHS 06B-3BH48
	52	157,75	B	16	60	90	56	5,20	25,70	3,46	PHS 06B-3BH52
	57	172,91	B	16	60	90	56	5,20	25,70	4,77	PHS 06B-3BH57
	60	181,99	B	16	60	90	56	5,20	25,70	5,02	PHS 06B-3BH60
	68	206,24	B	16	60	90	56	5,20	25,70	5,69	PHS 06B-3BH68
	70	212,30	B	16	60	90	56	5,20	25,70	5,86	PHS 06B-3BH70
72	218,37	B	16	60	90	56	5,20	25,70	6,02	PHS 06B-3BH72	
76	230,49	B	16	64	90	56	5,20	25,70	8,48	PHS 06B-3BH76	
84	254,74	B	16	64	90	56	5,20	25,70	9,37	PHS 06B-3BH84	
95	288,08	B	16	64	90	56	5,20	25,70	13,61	PHS 06B-3BH95	
96	291,11	B	16	64	90	56	5,20	25,70	13,75	PHS 06B-3BH96	
114	345,69	B	16	64	90	56	5,20	25,70	17,48	PHS 06B-3BH114	
12,70	11	45,07	B	14	22	32	50	7,24	35,05	0,32	PHS 08B-3BH11
	12	49,07	B	14	24	35	50	7,24	35,05	0,45	PHS 08B-3BH12
	13	53,06	B	14	25	38	50	7,24	35,05	0,59	PHS 08B-3BH13
	14	57,07	B	14	28	42	50	7,24	35,05	0,72	PHS 08B-3BH14
	15	61,09	B	14	31	46	50	7,24	35,05	0,81	PHS 08B-3BH15
	16	65,10	B	16	35	50	50	7,24	35,05	0,90	PHS 08B-3BH16
	17	69,11	B	16	36	54	50	7,24	35,05	1,04	PHS 08B-3BH17
	18	73,14	B	16	38	58	50	7,24	35,05	1,22	PHS 08B-3BH18
	19	77,16	B	16	40	62	50	7,24	35,05	1,41	PHS 08B-3BH19
	20	81,19	B	16	40	66	50	7,24	35,05	1,58	PHS 08B-3BH20
	21	85,22	B	16	45	70	55	7,24	35,05	1,81	PHS 08B-3BH21
	22	89,24	B	16	45	70	55	7,24	35,05	2,03	PHS 08B-3BH22
	23	93,27	B	16	45	70	55	7,24	35,05	2,27	PHS 08B-3BH23
24	97,29	B	16	50	75	55	7,24	35,05	2,44	PHS 08B-3BH24	
25	101,33	B	16	52	80	55	7,24	35,05	2,54	PHS 08B-3BH25	

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 06B-3BH12.



CALL US FOR MORE DETAILS

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