



SPROCKETS CATALOG



C.N.INDUSTRIAL PRODUCT

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

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ANSI sprockets, triplex, 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.



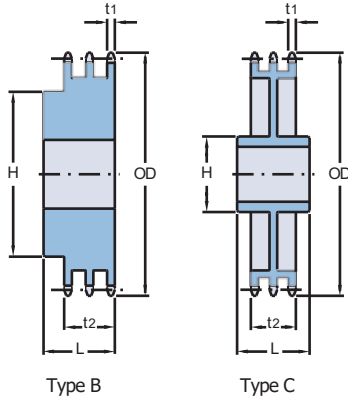
**BUREAU
VERITAS**



CNIP SPROCKET

ANSI sprockets, triplex, pilot bore

ANSI35-3 · 9,53 mm (3/8") pitch | ANSI40-3 · 12,70 mm (1/2") pitch



Pitch	Number of teeth	Outside diameter OD	Type	Dimensions Bore		H	L	Plate thickness		Mass	Designation			
				Min.	Max.			t ₁	t ₂					
–	in.	mm	–	mm	mm	mm	mm	mm	mm	kg	–			
9,53	3/8	13	44,45	B	12,70	17,46	28,18	44,45	4,110	24,380	0,2	PHS 35-3BH13		
		14	47,50	B	12,70	22,23	31,75	44,45	4,110	24,380	0,3	PHS 35-3BH14		
		15	50,55	B	12,70	23,81	35,72	44,45	4,110	24,380	0,4	PHS 35-3BH15		
		16	53,59	B	12,70	23,81	37,31	44,45	4,110	24,380	0,4	PHS 35-3BH16		
		17	56,64	B	12,70	17,46	40,48	44,45	4,110	24,380	0,5	PHS 35-3BH17		
		18	59,69	B	12,70	20,64	43,66	44,45	4,110	24,380	0,6	PHS 35-3BH18		
		19	62,74	B	12,70	23,81	47,63	44,45	4,110	24,380	0,6	PHS 35-3BH19		
		20	65,79	B	19,05	23,81	49,21	47,63	4,110	24,380	0,7	PHS 35-3BH20		
		21	68,83	B	19,05	34,93	52,39	47,63	4,110	24,380	0,8	PHS 35-3BH21		
		22	71,88	B	19,05	36,51	55,56	47,63	4,110	24,380	0,9	PHS 35-3BH22		
		23	74,93	B	19,05	38,10	57,15	47,63	4,110	24,380	1,0	PHS 35-3BH23		
		24	77,98	B	19,05	38,10	57,15	47,63	4,110	24,380	1,0	PHS 35-3BH24		
		25	81,03	B	19,05	38,10	57,15	47,63	4,110	24,380	1,1	PHS 35-3BH25		
		26	84,07	B	19,05	38,10	63,50	47,63	4,110	24,380	1,3	PHS 35-3B26		
		30	96,27	B	19,05	44,45	63,50	47,63	4,110	24,380	1,6	PHS 35-3B30		
		36	114,55	B	19,05	44,45	63,50	47,63	4,110	24,380	2,1	PHS 35-3B36		
		42	132,84	B	19,05	44,45	63,50	47,63	4,110	24,380	2,7	PHS 35-3B42		
		48	151,13	B	19,05	44,45	63,50	47,63	4,110	24,380	3,4	PHS 35-3B48		
		52	163,32	B	19,05	44,45	63,50	47,63	4,110	24,380	3,9	PHS 35-3B52		
		60	187,45	B	19,05	44,45	63,50	47,63	4,110	24,380	5,1	PHS 35-3B60		
		68	211,84	B	19,05	60,33	88,90	47,63	4,110	24,380	7,0	PHS 35-3B68		
		72	223,77	B	19,05	60,33	88,90	47,63	4,110	24,380	7,9	PHS 35-3B72		
		76	235,97	B	19,05	60,33	88,90	47,63	4,110	24,380	8,6	PHS 35-3B76		
		84	260,35	B	19,05	60,33	88,90	47,63	4,110	24,380	10,4	PHS 35-3B84		
		95	293,62	B	25,40	63,50	95,25	53,98	4,110	24,380	13,3	PHS 35-3B95		
		96	296,67	B	25,40	63,50	95,25	53,98	4,110	24,380	13,6	PHS 35-3B96		
		102	314,96	B	25,40	63,50	95,25	53,98	4,110	24,380	15,1	PHS 35-3B102		
		12,70	1/2	11	50,80	B	12,70	19,05	36,51	53,98	6,990	35,740	0,4	PHS 40-3BH11
				12	55,12	B	12,70	23,81	39,69	53,98	6,990	35,740	0,5	PHS 40-3BH12
				13	59,18	B	12,70	25,40	38,10	53,98	6,990	35,740	0,6	PHS 40-3BH13
14	63,25			B	12,70	28,58	42,86	53,98	6,990	35,740	0,7	PHS 40-3BH14		
15	67,31			B	12,70	31,75	46,04	53,98	6,990	35,740	0,8	PHS 40-3BH15		
16	71,37			B	15,88	34,93	50,80	53,98	6,990	35,740	0,9	PHS 40-3BH16		
17	75,69			B	15,88	36,51	53,98	53,98	6,990	35,740	1,1	PHS 40-3BH17		
18	79,76			B	15,88	38,10	58,74	53,98	6,990	35,740	1,2	PHS 40-3BH18		
19	83,82			B	15,88	44,45	63,50	53,98	6,990	35,740	1,4	PHS 40-3BH19		
20	87,88			B	15,88	47,63	66,68	57,15	6,990	35,740	1,7	PHS 40-3BH20		
21	91,95			B	15,88	47,63	69,85	57,15	6,990	35,740	1,8	PHS 40-3BH21		
22	96,01			B	15,88	47,63	73,03	57,15	6,990	35,740	2,1	PHS 40-3BH22		
23	100,08			B	15,88	50,80	76,20	57,15	6,990	35,740	2,3	PHS 40-3BH23		
24	104,14			B	15,88	57,15	82,55	57,15	6,990	35,740	2,6	PHS 40-3BH24		
25	108,20			B	15,88	57,15	82,55	57,15	6,990	35,740	2,7	PHS 40-3BH25		
26	112,27			B	15,88	57,15	82,55	57,15	6,990	35,740	2,9	PHS 40-3B26		
30	128,52			B	22,23	57,15	82,55	57,15	6,990	35,740	3,6	PHS 40-3B30		
35	148,84			B	22,23	57,15	82,55	57,15	6,990	35,740	4,7	PHS 40-3B35		
36	152,91			B	23,81	63,50	95,25	60,33	6,990	35,740	5,3	PHS 40-3B36		
42	177,04			B	23,81	63,50	95,25	60,33	6,990	35,740	7,0	PHS 40-3B42		
48	201,42			B	23,81	63,50	95,25	60,33	6,990	35,740	8,8	PHS 40-3B48		
52	217,68			B	23,81	63,50	95,25	60,33	6,990	35,740	10,2	PHS 40-3B52		
60	249,94			B	23,81	63,50	95,25	60,33	6,990	35,740	13,6	PHS 40-3B60		
68	282,45			B	30,16	69,85	101,60	66,68	6,990	35,740	17,4	PHS 40-3B68		
72	298,45			B	30,16	69,85	101,60	66,68	6,990	35,740	19,3	PHS 40-3B72		
76	314,71			B	30,16	69,85	101,60	66,68	6,990	35,740	21,3	PHS 40-3B76		

an accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required. Sprockets, up to and including 25 tooth, are with hardened teeth as standard. size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 35-3BH13.

CNIP SPROCKET

ANSI sprockets, triplex, pilot bore

ANSI 40-3 · 12,70 mm (1/2") pitch | ANSI 50-3 · 15,88 mm (5/8") pitch | ANSI 60-3 · 19,05 mm (3/4") pitch |
ANSI 80-3 · 25,40 mm (1") pitch

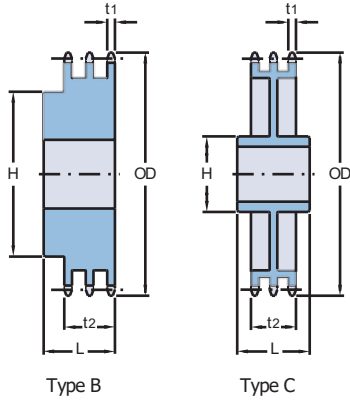
Pitch	Number of teeth	Outside diameter OD	Type	Dimensions Bore		H	L	Plate thickness		Mass	Designation	
				Min.	Max.			t ₁	t ₂			
–	in.	mm	–	mm	–	–	–	–	–	kg	–	
12,70	1/2	84	346,96	B	30,16	69,85	107,95	69,85	6,990	35,740	26,0	PHS 40-3B84
		95	391,41	B	30,16	69,85	107,95	69,85	6,990	35,740	28,2	PHS 40-3B95
		102	419,86	B	30,16	69,85	107,95	69,85	6,990	35,740	31,0	PHS 40-3B102
15,88	5/8	11	63,50	B	15,88	23,81	37,31	63,50	8,430	44,650	0,6	PHS 50-3BH11
		12	68,83	B	15,88	28,58	42,86	63,50	8,430	44,650	0,8	PHS 50-3BH12
		13	73,91	B	15,88	33,34	47,63	63,50	8,430	44,650	1,0	PHS 50-3BH13
		14	78,99	B	15,88	34,93	52,39	63,50	8,430	44,650	1,2	PHS 50-3BH14
		15	84,33	B	19,05	38,10	58,74	63,50	8,430	44,650	1,5	PHS 50-3BH15
		16	89,41	B	19,05	44,45	63,50	63,50	8,430	44,650	1,7	PHS 50-3BH16
		17	94,49	B	19,05	47,63	68,26	63,50	8,430	44,650	2,0	PHS 50-3BH17
		18	99,57	B	19,05	49,21	74,61	63,50	8,430	44,650	2,3	PHS 50-3BH18
		19	104,65	B	25,40	53,98	79,38	63,50	8,430	44,650	2,5	PHS 50-3BH19
		20	109,73	B	25,40	57,15	82,55	66,68	8,430	44,650	2,9	PHS 50-3BH20
		21	114,81	B	25,40	60,33	88,90	66,68	8,430	44,650	3,4	PHS 50-3BH21
		22	119,89	B	25,40	60,33	90,49	66,68	8,430	44,650	3,6	PHS 50-3BH22
		23	124,97	B	25,40	63,50	92,08	66,68	8,430	44,650	4,0	PHS 50-3BH23
		24	130,05	B	25,40	63,50	92,08	66,68	8,430	44,650	4,3	PHS 50-3BH24
		25	135,13	B	25,40	63,50	92,08	66,68	8,430	44,650	4,6	PHS 50-3BH25
		26	140,21	B	25,40	63,50	95,25	66,68	8,430	44,650	5,0	PHS 50-3B26
		30	160,53	B	25,40	63,50	95,25	66,68	8,430	44,650	6,5	PHS 50-3B30
		35	185,93	B	25,40	63,50	95,25	66,68	8,430	44,650	8,6	PHS 50-3B35
		36	191,01	B	30,16	69,85	101,60	69,85	8,430	44,650	9,3	PHS 50-3B36
		42	221,49	B	30,16	69,85	101,60	69,85	8,430	44,650	12,5	PHS 50-3B42
		48	251,71	B	30,16	69,85	101,60	79,38	8,430	44,650	16,6	PHS 50-3B48
		52	272,03	B	30,16	69,85	101,60	79,38	8,430	44,650	19,3	PHS 50-3B52
		60	312,42	B	33,34	76,20	114,30	79,38	8,430	44,650	25,8	PHS 50-3B60
		68	352,81	B	33,34	76,20	114,30	79,38	8,430	44,650	33,2	PHS 50-3B68
		72	373,13	C	33,34	76,20	120,65	88,90	8,430	44,650	24,7	PHS 50-3C72
		76	393,45	C	33,34	76,20	120,65	88,90	8,430	44,650	23,2	PHS 50-3C76
84	433,83	C	33,34	76,20	120,65	88,90	8,430	44,650	29,6	PHS 50-3C84		
95	489,46	C	33,34	76,20	120,65	95,25	8,430	44,650	33,8	PHS 50-3C95		
102	524,76	C	33,34	76,20	120,65	95,25	8,430	44,650	36,3	PHS 50-3C102		
19,05	3/4	11	76,20	B	25,40	31,75	46,04	76,20	11,280	56,850	1,1	PHS 60-3BH11
		12	82,55	B	25,40	36,51	53,98	76,20	11,280	56,850	1,5	PHS 60-3BH12
		13	88,65	B	25,40	38,10	57,15	76,20	11,280	56,850	1,8	PHS 60-3BH13
		14	95,00	B	25,40	44,45	63,50	76,20	11,280	56,850	2,0	PHS 60-3BH14
		15	101,09	B	25,40	47,63	71,44	76,20	11,280	56,850	2,5	PHS 60-3BH15
		16	107,19	B	25,40	50,80	76,20	76,20	11,280	56,850	3,0	PHS 60-3BH16
		17	113,28	B	25,40	57,15	82,55	76,20	11,280	56,850	3,5	PHS 60-3BH17
		18	119,38	B	25,40	60,33	88,90	76,20	11,280	56,850	3,9	PHS 60-3BH18
		19	125,73	B	25,40	63,50	93,66	76,20	11,280	56,850	4,5	PHS 60-3BH19
		20	131,83	B	25,40	63,50	95,25	76,20	11,280	56,850	5,1	PHS 60-3BH20
		21	137,92	B	25,40	69,85	104,78	76,20	11,280	56,850	5,7	PHS 60-3BH21
		22	144,02	B	25,40	69,85	107,95	76,20	11,280	56,850	6,0	PHS 60-3BH22
		23	150,11	B	25,40	69,85	107,95	76,20	11,280	56,850	6,6	PHS 60-3BH23
		24	156,21	B	25,40	69,85	107,95	76,20	11,280	56,850	7,2	PHS 60-3BH24
		25	162,31	B	25,40	69,85	107,95	76,20	11,280	56,850	7,7	PHS 60-3BH25
		26	168,40	B	25,40	69,85	107,95	76,20	11,280	56,850	8,4	PHS 60-3B26
		30	192,79	B	25,40	69,85	107,95	76,20	11,280	56,850	10,5	PHS 60-3B30
		35	223,01	B	31,75	76,20	114,30	82,55	11,280	56,850	15,7	PHS 60-3B35
		36	229,11	B	31,75	76,20	114,30	82,55	11,280	56,850	16,8	PHS 60-3B36
		42	265,68	B	31,75	82,55	120,65	92,08	11,280	56,850	22,2	PHS 60-3B42
		45	283,97	B	31,75	82,55	120,65	92,08	11,280	56,850	25,9	PHS 60-3B45
		52	326,39	C	31,75	82,55	120,65	88,90	11,280	56,850	33,1	PHS 60-3C52
		60	374,90	C	31,75	82,55	120,65	88,90	11,280	56,850	28,6	PHS 60-3C60
		68	423,42	C	31,75	82,55	127,00	88,90	11,280	56,850	33,1	PHS 60-3C68
		72	447,80	C	31,75	82,55	127,00	88,90	11,280	56,850	38,6	PHS 60-3C72
		76	471,93	C	38,10	95,25	139,70	88,90	11,280	56,850	37,2	PHS 60-3C76
95	587,25	C	38,10	95,25	139,70	101,60	11,280	56,850	47,6	PHS 60-3C95		
25,40	1	11	101,85	B	25,40	44,45	63,50	92,08	14,150	72,720	2,7	PHS 80-3BH11
		12	109,98	B	25,40	47,63	72,23	92,08	14,150	72,720	3,4	PHS 80-3BH12
		13	118,36	B	25,40	57,15	80,17	92,08	14,150	72,720	4,2	PHS 80-3BH13
		14	126,49	B	25,40	60,33	88,11	92,08	14,150	72,720	5,0	PHS 80-3BH14
		15	134,62	B	25,40	63,50	96,44	92,08	14,150	72,720	5,9	PHS 80-3BH15
		16	143,00	B	25,40	69,85	101,60	98,43	14,150	72,720	7,2	PHS 80-3BH16
		17	151,13	B	25,40	76,20	112,32	98,43	14,150	72,720	8,4	PHS 80-3BH17
		18	159,26	B	25,40	82,55	120,25	98,43	14,150	72,720	9,6	PHS 80-3BH18
		19	167,39	B	25,40	84,14	127,00	98,43	14,150	72,720	10,8	PHS 80-3BH19
		20	175,51	B	25,40	84,14	127,00	98,43	14,150	72,720	11,8	PHS 80-3BH20
		21	183,90	B	25,40	84,14	127,00	98,43	14,150	72,720	12,9	PHS 80-3BH21
		22	192,02	B	25,40	84,14	127,00	98,43	14,150	72,720	14,1	PHS 80-3BH22
		23	200,15	B	25,40	84,14	127,00	98,43	14,150	72,720	15,2	PHS 80-3BH23
		24	208,28	B	25,40	88,90	133,35	98,43	14,150	72,720	16,8	PHS 80-3BH24

1 bores can accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required.
2 or C sprockets, up to and including 25 tooth, are with hardened teeth as standard.
Additional size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 35-3BH13.

CNIP SPROCKET

ANSI sprockets, triplex, pilot bore

ANSI 80-3 · 25,40 mm (1") pitch | ANSI 100-3 · 31,75 mm (1 1/4") pitch



Pitch	Number of teeth	Outside diameter OD	Type	Dimensions Bore		H	L	Plate thickness		Mass	Designation				
				Min.	Max.			t ₁	t ₂						
–	in.	mm	–	mm					kg	–					
25,40	1	25	216,41	B	25,40	88,90	133,35	98,43	14,150	72,720	18,2	PHS 80-3BH25			
		26	224,54	B	25,40	88,90	133,35	98,43	14,150	72,720	19,5	PHS 80-3B26			
		30	256,79	B	31,75	95,25	146,05	107,95	14,150	72,720	24,7	PHS 80-3B30			
		35	297,43	B	31,75	95,25	146,05	107,95	14,150	72,720	36,1	PHS 80-3B35			
		36	305,56	B	31,75	95,25	146,05	107,95	14,150	72,720	38,1	PHS 80-3B36			
	42	1	42	354,08	C	31,75	96,84	152,40	114,30	14,150	72,720	38,5	PHS 80-3C42		
			45	378,46	C	31,75	96,84	152,40	114,30	14,150	72,720	41,9	PHS 80-3C45		
			52	435,10	C	38,10	96,84	152,40	114,30	14,150	72,720	48,5	PHS 80-3C52		
			60	499,87	C	38,10	107,95	158,75	120,65	14,150	72,720	58,1	PHS 80-3C60		
			68	564,64	C	38,10	107,95	158,75	120,65	14,150	72,720	63,5	PHS 80-3C68		
			76	629,41	C	38,10	107,95	158,75	120,65	14,150	72,720	74,8	PHS 80-3C76		
			95	783,08	C	38,10	114,30	171,45	127,00	14,150	72,720	108,9	PHS 80-3C95		
			31,75	1 1/4	11	127,25	B	25,40	53,98	79,38	107,95	16,990	88,520	5,3	PHS 100-3BH11
					12	137,67	B	28,58	57,15	85,73	107,95	16,990	88,520	6,2	PHS 100-3BH12
13	147,83	B			28,58	63,50	96,84	107,95	16,990	88,520	7,7	PHS 100-3BH13			
14	158,24	B			28,58	69,85	106,36	107,95	16,990	88,520	9,2	PHS 100-3BH14			
15	168,40	B			31,75	79,38	117,48	114,30	16,990	88,520	11,3	PHS 100-3BH15			
16	178,56	B			31,75	84,14	127,00	114,30	16,990	88,520	13,3	PHS 100-3BH16			
17	188,98	B			31,75	88,90	133,35	114,30	16,990	88,520	15,3	PHS 100-3BH17			
18	199,14	B			31,75	88,90	133,35	120,65	16,990	88,520	17,5	PHS 100-3BH18			
19	209,30	B			31,75	95,25	139,70	120,65	16,990	88,520	19,6	PHS 100-3BH19			
20	219,46	B			31,75	95,25	139,70	120,65	16,990	88,520	21,7	PHS 100-3BH20			
21	1 1/4	21	229,62	B	31,75	95,25	139,70	120,65	16,990	88,520	23,7	PHS 100-3BH21			
		22	239,78	B	31,75	95,25	139,70	120,65	16,990	88,520	26,1	PHS 100-3BH22			
		23	249,94	B	31,75	95,25	139,70	120,65	16,990	88,520	28,4	PHS 100-3BH23			
		24	260,35	B	31,75	95,25	146,05	120,65	16,990	88,520	31,3	PHS 100-3BH24			
		25	270,51	B	31,75	95,25	146,05	120,65	16,990	88,520	33,1	PHS 100-3BH25			
		26	280,67	B	38,10	96,84	146,05	120,65	16,990	88,520	35,8	PHS 100-3B26			
		30	321,06	B	38,10	96,84	146,05	120,65	16,990	88,520	46,7	PHS 100-3B30			
		35	371,86	C	38,10	101,60	152,40	127,00	16,990	88,520	49,0	PHS 100-3C35			
		45	473,20	C	38,10	101,60	152,40	127,00	16,990	88,520	64,9	PHS 100-3C45			
		60	624,84	C	38,10	136,53	190,50	127,00	16,990	88,520	98,4	PHS 100-3C60			
70	1 1/4	70	725,93	C	38,10	136,53	190,50	127,00	16,990	88,520	118,8	PHS 100-3C70			
		80	827,28	C	38,10	136,53	190,50	127,00	16,990	88,520	142,0	PHS 100-3C80			

1 bores can accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required.
 i or C sprockets, up to and including 25 tooth, are with hardened teeth as standard.
 additional size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 35-3BH13.



CALL US FOR MORE DETAILS

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