



BUREAU  
VERITAS



# SPROCKETS CATALOG



## C.N.INDUSTRIAL PRODUCT

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

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## ANSI sprockets, duplex, 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.



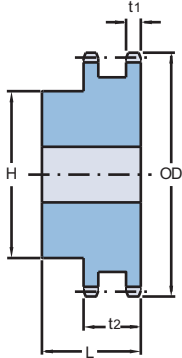
**BUREAU  
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# CNIP SPROCKET

## ANSI sprockets, duplex, pilot bore

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



Type B

Pitch	Number of teeth	Outside diameter OD	Type	Dimensions Bore				Plate thickness		Mass kg	Designation	
				Min.	Max.	H	L	t <sub>1</sub>	t <sub>2</sub>			
mm	in.	mm	-	mm							-	
9,53	3/8	12	41,40	B	12,70	14,29	25,00	31,75	4,110	14,250	0,15	PHS 35-2BH12
		13	44,45	B	12,70	17,46	28,18	31,75	4,110	14,250	0,16	PHS 35-2BH13
		14	47,50	B	12,70	22,23	31,75	31,75	4,110	14,250	0,20	PHS 35-2BH14
		15	50,55	B	12,70	23,81	35,72	31,75	4,110	14,250	0,25	PHS 35-2BH15
		16	53,59	B	12,70	23,81	37,31	31,75	4,110	14,250	0,29	PHS 35-2BH16
		17	56,64	B	12,70	17,46	40,48	31,75	4,110	14,250	0,34	PHS 35-2BH17
		18	59,69	B	12,70	20,64	43,66	31,75	4,110	14,250	0,38	PHS 35-2BH18
		19	62,74	B	12,70	23,81	47,63	31,75	4,110	14,250	0,44	PHS 35-2BH19
		20	65,79	B	19,05	23,81	49,21	34,93	4,110	14,250	0,49	PHS 35-2BH20
		21	68,83	B	19,05	34,93	52,39	34,93	4,110	14,250	0,56	PHS 35-2BH21
		22	71,88	B	19,05	36,51	55,56	34,93	4,110	14,250	0,64	PHS 35-2BH22
		23	74,93	B	19,05	38,10	57,15	34,93	4,110	14,250	0,70	PHS 35-2BH23
		24	77,98	B	19,05	38,10	57,15	34,93	4,110	14,250	0,73	PHS 35-2BH24
		25	81,03	B	19,05	38,10	57,15	34,93	4,110	14,250	0,75	PHS 35-2BH25
		26	84,07	B	19,05	44,45	63,50	34,93	4,110	14,250	0,90	PHS 35-2B26
		30	96,27	B	19,05	44,45	63,50	34,93	4,110	14,250	1,06	PHS 35-2B30
		36	114,55	B	19,05	44,45	63,50	34,93	4,110	14,250	1,36	PHS 35-2B36
		42	132,84	B	19,05	44,45	63,50	34,93	4,110	14,250	1,72	PHS 35-2B42
		48	151,13	B	19,05	44,45	63,50	34,93	4,110	14,250	2,11	PHS 35-2B48
		52	163,32	B	19,05	44,45	63,50	34,93	4,110	14,250	2,45	PHS 35-2B52
		60	187,45	B	19,05	44,45	63,50	34,93	4,110	14,250	3,10	PHS 35-2B60
		68	211,84	B	19,05	60,33	88,90	38,10	4,110	14,250	4,54	PHS 35-2B68
		72	223,77	B	19,05	60,33	88,90	38,10	4,110	14,250	5,01	PHS 35-2B72
		76	235,97	B	19,05	60,33	88,90	38,10	4,110	14,250	5,42	PHS 35-2B76
		84	260,35	B	19,05	60,33	88,90	38,10	4,110	14,250	6,79	PHS 35-2B84
		95	293,62	B	25,40	60,33	88,90	38,10	4,110	14,250	7,90	PHS 35-2B95
96	296,67	B	25,40	60,33	88,90	38,10	4,110	14,250	8,23	PHS 35-2B96		
102	314,96	B	25,40	60,33	88,90	38,10	4,110	14,250	9,04	PHS 35-2B102		
12,70	1/2	11	50,80	B	12,70	19,05	36,51	38,10	6,990	21,360	0,28	PHS 40-2BH11
		12	55,12	B	12,70	23,81	39,69	38,10	6,990	21,360	0,34	PHS 40-2BH12
		13	59,18	B	12,70	25,40	38,10	38,10	6,990	21,360	0,39	PHS 40-2BH13
		14	63,25	B	12,70	28,58	42,86	38,10	6,990	21,360	0,49	PHS 40-2BH14
		15	67,31	B	12,70	31,75	46,04	38,10	6,990	21,360	0,56	PHS 40-2BH15
		16	71,37	B	15,88	34,93	50,80	38,10	6,990	21,360	0,64	PHS 40-2BH16
		17	75,69	B	15,88	36,51	53,98	38,10	6,990	21,360	0,74	PHS 40-2BH17
		18	79,76	B	15,88	38,10	58,74	38,10	6,990	21,360	0,87	PHS 40-2BH18
		19	83,82	B	15,88	44,45	63,50	38,10	6,990	21,360	1,01	PHS 40-2BH19
		20	87,88	B	15,88	47,63	66,68	41,28	6,990	21,360	1,20	PHS 40-2BH20
		21	91,95	B	15,88	47,63	69,85	41,28	6,990	21,360	1,33	PHS 40-2BH21
		22	96,01	B	15,88	47,63	73,03	41,28	6,990	21,360	1,44	PHS 40-2BH22
		23	100,08	B	15,88	50,80	76,20	41,28	6,990	21,360	1,60	PHS 40-2BH23
		24	104,14	B	15,88	57,15	82,55	41,28	6,990	21,360	1,83	PHS 40-2BH24
		25	108,20	B	15,88	57,15	82,55	41,28	6,990	21,360	1,93	PHS 40-2BH25
		26	112,27	B	15,88	57,15	82,55	41,28	6,990	21,360	2,03	PHS 40-2B26
		30	128,52	B	22,23	57,15	82,55	41,28	6,990	21,360	2,42	PHS 40-2B30
		35	148,84	B	22,23	57,15	82,55	41,28	6,990	21,360	3,08	PHS 40-2B35
		36	152,91	B	23,81	63,50	95,25	41,28	6,990	21,360	3,27	PHS 40-2B36
		40	168,91	B	23,81	63,50	95,25	44,45	6,990	21,360	4,26	PHS 40-2B40
42	177,04	B	23,81	63,50	95,25	44,45	6,990	21,360	4,63	PHS 40-2B42		
45	189,23	B	23,81	63,50	95,25	44,45	6,990	21,360	5,15	PHS 40-2B45		
48	201,42	B	23,81	63,50	95,25	44,45	6,990	21,360	5,74	PHS 40-2B48		
52	217,68	B	23,81	63,50	95,25	44,45	6,990	21,360	6,56	PHS 40-2B52		
54	225,81	B	23,81	63,50	95,25	44,45	6,990	21,360	7,02	PHS 40-2B54		

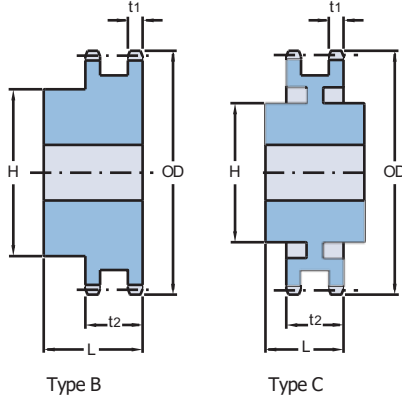
an accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required. rockets, up to and including 25 tooth, are with hardened teeth as standard.

l size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 35-2BH12.

# CNIP SPROCKET

## ANSI sprockets, duplex, pilot bore

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



Pitch	Number of teeth	Outside diameter	Type	Dimensions Bore		Plate thickness		Mass	Designation					
				Min.	Max.	H	L			t <sub>1</sub>	t <sub>2</sub>			
mm	in.	mm	mm	mm	mm	mm	mm	kg	mm					
12,70	1/2	60	249,94	B	23,81	63,50	95,25	44,45	6,990	21,360	8,44	PHS 40-2B60		
		68	282,45	B	30,16	69,85	107,95	53,98	6,990	21,360	11,32	PHS 40-2B68		
		72	298,45	B	30,16	69,85	107,95	53,98	6,990	21,360	12,65	PHS 40-2B72		
		76	314,71	B	30,16	69,85	107,95	53,98	6,990	21,360	13,69	PHS 40-2B76		
		84	346,96	B	30,16	69,85	107,95	53,98	6,990	21,360	16,44	PHS 40-2B84		
		95	391,41	B	30,16	69,85	107,95	53,98	6,990	21,360	17,62	PHS 40-2B95		
		96	395,48	B	30,16	69,85	107,95	53,98	6,990	21,360	17,92	PHS 40-2B96		
		102	419,86	B	30,16	69,85	107,95	53,98	6,990	21,360	19,38	PHS 40-2B102		
		112	460,25	B	30,16	69,85	107,95	53,98	6,990	21,360	25,19	PHS 40-2B112		
		15,88	5/8	11	63,50	B	15,88	23,81	37,31	44,45	8,430	26,540	0,44	PHS 50-2BH11
				12	68,83	B	15,88	28,58	42,86	44,45	8,430	26,540	0,57	PHS 50-2BH12
				13	73,91	B	15,88	33,34	47,63	44,45	8,430	26,540	0,71	PHS 50-2BH13
14	78,99			B	15,88	34,93	52,39	44,45	8,430	26,540	0,84	PHS 50-2BH14		
15	84,33			B	19,05	38,10	58,74	44,45	8,430	26,540	1,01	PHS 50-2BH15		
16	89,41			B	19,05	44,45	63,50	44,45	8,430	26,540	1,19	PHS 50-2BH16		
17	94,49			B	19,05	47,63	68,26	44,45	8,430	26,540	1,38	PHS 50-2BH17		
18	99,57			B	19,05	49,21	74,61	44,45	8,430	26,540	1,62	PHS 50-2BH18		
19	104,65			B	25,40	53,98	79,38	44,45	8,430	26,540	1,77	PHS 50-2BH19		
20	109,73			B	25,40	57,15	82,55	44,45	8,430	26,540	1,93	PHS 50-2BH20		
21	114,81			B	25,40	60,33	88,90	44,45	8,430	26,540	2,22	PHS 50-2BH21		
22	119,89			B	25,40	60,33	90,49	47,63	8,430	26,540	2,53	PHS 50-2BH22		
23	124,97			B	25,40	63,50	92,08	47,63	8,430	26,540	2,77	PHS 50-2BH23		
24	130,05			B	25,40	63,50	92,08	47,63	8,430	26,540	2,95	PHS 50-2BH24		
25	135,13			B	25,40	63,50	92,08	47,63	8,430	26,540	3,15	PHS 50-2BH25		
26	140,21			B	25,40	63,50	95,25	47,63	8,430	26,540	3,42	PHS 50-2B26		
30	160,53			B	25,40	63,50	95,25	47,63	8,430	26,540	4,26	PHS 50-2B30		
32	170,69			B	25,40	63,50	95,25	47,63	8,430	26,540	4,74	PHS 50-2B32		
35	185,93			B	25,40	63,50	95,25	47,63	8,430	26,540	5,57	PHS 50-2B35		
36	191,01			B	30,16	69,85	101,60	53,98	8,430	26,540	6,32	PHS 50-2B36		
40	211,33	B	30,16	69,85	101,60	53,98	8,430	26,540	7,50	PHS 50-2B40				
42	221,49	B	30,16	69,85	101,60	53,98	8,430	26,540	8,13	PHS 50-2B42				
45	236,47	B	30,16	69,85	101,60	53,98	8,430	26,540	9,21	PHS 50-2B45				
48	251,71	B	30,16	69,85	107,95	60,33	8,430	26,540	10,92	PHS 50-2B48				
52	272,03	B	30,16	69,85	107,95	60,33	8,430	26,540	12,44	PHS 50-2B52				
54	282,19	B	30,16	69,85	107,95	60,33	8,430	26,540	13,23	PHS 50-2B54				
60	312,42	B	33,34	76,20	114,30	60,33	8,430	26,540	16,27	PHS 50-2B60				
68	352,81	B	33,34	76,20	114,30	60,33	8,430	26,540	20,40	PHS 50-2B68				
72	373,13	B	33,34	76,20	114,30	60,33	8,430	26,540	22,78	PHS 50-2B72				
76	393,45	B	33,34	76,20	114,30	60,33	8,430	26,540	20,70	PHS 50-2B76				
84	433,83	B	33,34	76,20	114,30	60,33	8,430	26,540	23,42	PHS 50-2B84				
95	489,46	B	33,34	76,20	114,30	60,33	8,430	26,540	29,18	PHS 50-2B95				
96	494,54	B	33,34	76,20	114,30	60,33	8,430	26,540	30,58	PHS 50-2B96				
102	524,76	B	33,34	76,20	114,30	60,33	8,430	26,540	32,97	PHS 50-2B102				
112	575,31	B	33,34	84,14	133,35	60,33	8,430	26,540	40,92	PHS 50-2B112				
19,05	3/4	11	76,20	B	25,40	31,75	46,04	53,98	11,280	34,060	0,73	PHS 60-2BH11		
		12	82,55	B	25,40	36,51	53,98	53,98	11,280	34,060	1,00	PHS 60-2BH12		
		13	88,65	B	25,40	38,10	57,15	53,98	11,280	34,060	1,18	PHS 60-2BH13		
		14	95,00	B	25,40	44,45	63,50	53,98	11,280	34,060	1,47	PHS 60-2BH14		
		15	101,09	B	25,40	47,63	71,44	53,98	11,280	34,060	1,80	PHS 60-2BH15		
		16	107,19	B	25,40	50,80	76,20	53,98	11,280	34,060	2,10	PHS 60-2BH16		
		17	113,28	B	25,40	57,15	82,55	53,98	11,280	34,060	2,45	PHS 60-2BH17		
		18	119,38	B	25,40	60,33	88,90	53,98	11,280	34,060	2,83	PHS 60-2BH18		
		19	125,73	B	25,40	63,50	93,66	53,98	11,280	34,060	3,18	PHS 60-2BH19		
		20	131,83	B	25,40	63,50	95,25	53,98	11,280	34,060	3,50	PHS 60-2BH20		

bores can accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required.  
or C sprockets, up to and including 25 teeth, are with hardened teeth as standard.  
Additional size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 35-2BH12.

# CNIP SPROCKET

## ANSI sprockets, duplex, pilot bore

ANSI 60-2 · 19,05 mm (3/4") pitch | ANSI 80-2 · 25,40 mm (1") pitch | ANSI 100-2 · 31,75 mm (1 1/4") pitch | ANSI 120-2 · 38,10 mm (1 1/2") pitch

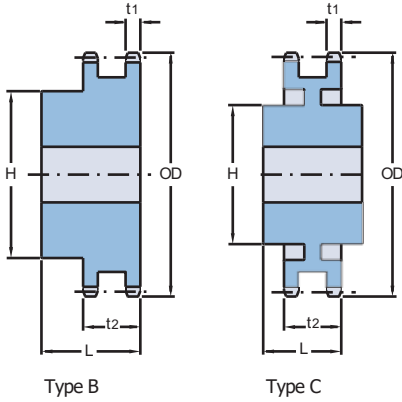
Pitch		Number of teeth	Outside diameter OD	Type	Dimensions Bore			Plate thickness		Mass kg	Designation			
mm	in.				Min.	Max.	H	L	t <sub>1</sub>			t <sub>2</sub>		
19,05	3/4	21	137,92	B	25,40	69,85	104,78	53,98	11,280	34,060	4,00	PHS 60-2BH21		
		22	144,02	B	25,40	69,85	107,95	53,98	11,280	34,060	4,39	PHS 60-2BH22		
		23	150,11	B	25,40	69,85	107,95	53,98	11,280	34,060	4,67	PHS 60-2BH23		
		24	156,21	B	25,40	69,85	107,95	53,98	11,280	34,060	5,05	PHS 60-2BH24		
		25	162,31	B	25,40	69,85	107,95	53,98	11,280	34,060	5,42	PHS 60-2BH25		
		26	168,40	B	25,40	69,85	107,95	53,98	11,280	34,060	5,76	PHS 60-2B26		
		30	192,79	B	25,40	69,85	107,95	53,98	11,280	34,060	7,42	PHS 60-2B30		
		32	204,98	B	31,75	76,20	114,30	60,33	11,280	34,060	8,85	PHS 60-2B32		
		35	223,01	B	31,75	76,20	114,30	60,33	11,280	34,060	10,34	PHS 60-2B35		
		36	229,11	B	31,75	76,20	114,30	60,33	11,280	34,060	10,80	PHS 60-2B36		
		40	253,49	B	31,75	82,55	120,65	69,85	11,280	34,060	13,99	PHS 60-2B40		
		42	265,68	B	31,75	82,55	120,65	69,85	11,280	34,060	15,00	PHS 60-2B42		
		45	283,97	B	31,75	82,55	120,65	69,85	11,280	34,060	16,82	PHS 60-2B45		
		52	326,39	B	31,75	82,55	120,65	69,85	11,280	34,060	22,09	PHS 60-2B52		
		60	374,90	B	31,75	82,55	120,65	69,85	11,280	34,060	28,62	PHS 60-2B60		
		68	423,42	C	31,75	84,14	127,00	76,20	11,280	34,060	24,35	PHS 60-2C68		
		72	447,80	C	31,75	84,14	127,00	76,20	11,280	34,060	24,38	PHS 60-2C72		
		76	471,93	C	31,75	84,14	127,00	76,20	11,280	34,060	27,34	PHS 60-2C76		
		95	587,25	C	31,75	95,25	139,70	88,90	11,280	34,060	39,53	PHS 60-2C95		
		25,40	1	10	93,47	B	25,40	38,10	65,09	69,85	14,150	43,430	1,63	PHS 80-2BH10
				11	101,85	B	25,40	44,45	63,50	63,50	14,150	43,430	1,81	PHS 80-2BH11
				12	109,98	B	25,40	47,63	72,23	63,50	14,150	43,430	2,31	PHS 80-2BH12
				13	118,36	B	25,40	57,15	80,17	63,50	14,150	43,430	2,86	PHS 80-2BH13
				14	126,49	B	25,40	60,33	88,11	63,50	14,150	43,430	3,45	PHS 80-2BH14
				15	134,62	B	25,40	63,50	96,44	63,50	14,150	43,430	4,08	PHS 80-2BH15
				16	143,00	B	25,40	69,85	101,60	69,85	14,150	43,430	4,99	PHS 80-2BH16
				17	151,13	B	25,40	76,20	112,32	69,85	14,150	43,430	5,99	PHS 80-2BH17
				18	159,26	B	25,40	82,55	120,25	69,85	14,150	43,430	6,80	PHS 80-2BH18
19	167,39			B	25,40	84,14	127,00	69,85	14,150	43,430	7,71	PHS 80-2BH19		
20	175,51			B	25,40	84,14	127,00	69,85	14,150	43,430	8,26	PHS 80-2BH20		
21	183,90			B	25,40	84,14	127,00	69,85	14,150	43,430	8,89	PHS 80-2BH21		
22	192,02			B	25,40	84,14	127,00	69,85	14,150	43,430	9,53	PHS 80-2BH22		
23	200,15			B	25,40	84,14	127,00	69,85	14,150	43,430	10,34	PHS 80-2BH23		
24	208,28			B	25,40	88,90	133,35	69,85	14,150	43,430	11,39	PHS 80-2BH24		
25	216,41			B	25,40	88,90	133,35	76,20	14,150	43,430	12,84	PHS 80-2BH25		
26	224,54			B	25,40	88,90	133,35	76,20	14,150	43,430	13,56	PHS 80-2B26		
30	256,79			B	31,75	95,25	146,05	76,20	14,150	43,430	17,92	PHS 80-2B30		
32	273,05			B	31,75	95,25	146,05	76,20	14,150	43,430	19,87	PHS 80-2B32		
35	297,43			B	31,75	95,25	146,05	76,20	14,150	43,430	22,27	PHS 80-2B35		
36	305,56			B	31,75	95,25	146,05	79,38	14,150	43,430	24,58	PHS 80-2B36		
42	354,08			B	31,75	95,25	146,05	79,38	14,150	43,430	32,43	PHS 80-2B42		
45	378,46			B	31,75	95,25	146,05	79,38	14,150	43,430	33,34	PHS 80-2B45		
52	435,10			C	38,10	95,25	146,05	95,25	14,150	43,430	35,56	PHS 80-2C52		
60	499,87			C	38,10	95,25	146,05	95,25	14,150	43,430	42,32	PHS 80-2C60		
68	564,64			C	38,10	96,84	152,40	101,60	14,150	43,430	43,64	PHS 80-2C68		
76	629,41			C	38,10	96,84	152,40	101,60	14,150	43,430	51,26	PHS 80-2C76		
95	783,08			C	38,10	101,60	152,40	107,95	14,150	43,430	74,84	PHS 80-2C95		
31,75	1 1/4			9	106,17	B	25,40	41,28	60,33	73,03	16,990	52,760	2,09	PHS 100-2BH9
				10	116,84	B	25,40	47,63	69,85	73,03	16,990	52,760	2,81	PHS 100-2BH10
				11	127,25	B	25,40	53,98	79,38	73,03	16,990	52,760	3,58	PHS 100-2BH11
				12	137,67	B	28,58	57,15	85,73	73,03	16,990	52,760	4,22	PHS 100-2BH12
				13	147,83	B	28,58	63,50	96,84	73,03	16,990	52,760	5,17	PHS 100-2BH13
				14	158,24	B	28,58	69,85	106,36	73,03	16,990	52,760	6,17	PHS 100-2BH14
				15	168,40	B	31,75	79,38	117,48	79,38	16,990	52,760	7,76	PHS 100-2BH15
				16	178,56	B	31,75	84,14	127,00	79,38	16,990	52,760	9,12	PHS 100-2BH16
		17	188,98	B	31,75	88,90	133,35	79,38	16,990	52,760	10,48	PHS 100-2BH17		
		18	199,14	B	31,75	88,90	133,35	79,38	16,990	52,760	11,52	PHS 100-2BH18		
		19	209,30	B	31,75	95,25	139,70	85,73	16,990	52,760	13,43	PHS 100-2BH19		
		20	219,46	B	31,75	95,25	139,70	85,73	16,990	52,760	14,70	PHS 100-2BH20		
		21	229,62	B	31,75	95,25	139,70	85,73	16,990	52,760	16,01	PHS 100-2BH21		
		22	239,78	B	31,75	95,25	139,70	85,73	16,990	52,760	17,42	PHS 100-2BH22		
		23	249,94	B	31,75	95,25	139,70	85,73	16,990	52,760	18,73	PHS 100-2BH23		
		24	260,35	B	31,75	95,25	146,05	85,73	16,990	52,760	20,46	PHS 100-2BH24		
		25	270,51	B	31,75	95,25	146,05	85,73	16,990	52,760	22,00	PHS 100-2BH25		
		26	280,67	B	38,10	95,25	146,05	85,73	16,990	52,760	23,36	PHS 100-2B26		
		30	321,06	B	38,10	95,25	146,05	85,73	16,990	52,760	29,48	PHS 100-2B30		
		35	371,86	C	38,10	96,84	152,40	107,95	16,990	52,760	34,02	PHS 100-2C35		
		45	473,20	C	38,10	96,84	152,40	114,30	16,990	52,760	46,72	PHS 100-2C45		
		60	624,84	C	38,10	136,53	190,50	127,00	16,990	52,760	79,38	PHS 100-2C60		
		70	725,93	C	38,10	136,53	190,50	127,00	16,990	52,760	89,36	PHS 100-2C70		
		80	827,28	C	38,10	136,53	190,50	127,00	16,990	52,760	104,78	PHS 100-2C80		
38,10	1 1/2	11	152,65	B	38,10	60,33	90,49	95,25	22,710	68,150	6,17	PHS 120-2BH11		
		12	165,10	B	38,10	69,85	103,19	95,25	22,710	68,150	7,85	PHS 120-2BH12		

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.  
 3 additional size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 35-2BH12.

# CNIP SPROCKET

## ANSI sprockets, duplex, pilot bore

ANSI 120-2 · 38,10 mm (1½") pitch | ANSI 140-2 · 44,45 mm (1¾") pitch | ANSI 160-2 · 50,80 mm (2") pitch



Pitch	Number of teeth	Outside diameter	Type	Dimensions Bore		H	L	Plate thickness		Mass	Designation				
				Min.	Max.			t <sub>1</sub>	t <sub>2</sub>						
mm	in.	mm		mm					kg						
38,10	1 ½	13	B	177,55	38,10	76,20	114,30	95,25	22,710	68,150	9,57	PHS 120-2BH13			
		14	B	189,74	38,10	84,14	127,00	95,25	22,710	68,150	11,61	PHS 120-2BH14			
		15	B	202,18	38,10	88,90	133,35	95,25	22,710	68,150	13,56	PHS 120-2BH15			
		16	B	214,38	38,10	88,90	133,35	95,25	22,710	68,150	15,33	PHS 120-2BH16			
		17	B	226,57	38,10	88,90	133,35	95,25	22,710	68,150	16,74	PHS 120-2BH17			
	38,10	1 ½	18	B	239,01	38,10	88,90	133,35	95,25	22,710	68,150	19,01	PHS 120-2BH18		
			19	B	251,21	38,10	88,90	133,35	95,25	22,710	68,150	21,09	PHS 120-2BH19		
			20	B	263,40	38,10	88,90	139,70	95,25	22,710	68,150	22,77	PHS 120-2BH20		
			21	B	275,59	38,10	88,90	139,70	95,25	22,710	68,150	25,22	PHS 120-2BH21		
			22	B	287,78	38,10	96,84	146,05	101,60	22,710	68,150	29,03	PHS 120-2BH22		
			23	B	299,97	38,10	114,30	165,10	101,60	22,710	68,150	34,02	PHS 120-2BH23		
			24	B	312,17	38,10	114,30	165,10	101,60	22,710	68,150	35,83	PHS 120-2BH24		
			25	B	324,36	38,10	114,30	165,10	101,60	22,710	68,150	38,10	PHS 120-2BH25		
			26	B	336,55	38,10	114,30	165,10	101,60	22,710	68,150	40,82	PHS 120-2B26		
			30	B	385,32	38,10	114,30	165,10	101,60	22,710	68,150	53,98	PHS 120-2B30		
			35	C	446,28	38,10	136,53	190,50	152,40	22,710	71,580	67,13	PHS 120-2C35		
			45	C	567,69	38,10	136,53	190,50	152,40	22,710	71,580	85,28	PHS 120-2C45		
			60	C	749,81	38,10	161,93	241,30	158,75	22,710	71,580	139,25	PHS 120-2C60		
			44,45	1 ¾	13	B	207,01	41,28	84,14	127,00	95,25	22,710	71,580	13,15	PHS 140-2BH13
					14	B	221,49	41,28	95,25	139,70	95,25	22,710	71,580	15,79	PHS 140-2BH14
15	B	235,71			41,28	114,30	165,10	95,25	22,710	71,580	19,28	PHS 140-2BH15			
16	B	250,19			41,28	133,35	177,80	101,60	22,710	71,580	21,82	PHS 140-2BH16			
17	B	264,41			41,28	133,35	177,80	101,60	22,710	71,580	26,08	PHS 140-2BH17			
44,45	1 ¾	18		B	278,89	44,45	133,35	177,80	101,60	22,710	71,580	29,76	PHS 140-2BH18		
		19		B	293,12	44,45	133,35	177,80	101,60	22,710	71,580	32,66	PHS 140-2BH19		
		20		B	307,34	44,45	133,35	177,80	101,60	22,710	71,580	34,47	PHS 140-2BH20		
		21		B	321,56	44,45	133,35	177,80	101,60	22,710	71,580	37,19	PHS 140-2BH21		
		22		B	335,79	44,45	133,35	177,80	101,60	22,710	71,580	42,64	PHS 140-2BH22		
		23		B	350,01	44,45	133,35	177,80	101,60	22,710	71,580	45,36	PHS 140-2BH23		
		24		B	364,24	44,45	133,35	177,80	101,60	22,710	71,580	47,17	PHS 140-2BH24		
		25		B	378,46	44,45	133,35	177,80	101,60	22,710	71,580	54,43	PHS 140-2BH25		
		26		B	392,68	44,45	133,35	177,80	101,60	22,710	71,580	58,06	PHS 140-2B26		
		35		C	520,45	38,10	136,53	190,50	152,40	22,710	71,580	81,65	PHS 140-2C35		
		45		C	662,43	38,10	136,53	190,50	152,40	22,710	71,580	105,23	PHS 140-2C45		
		60		C	874,78	38,10	161,93	241,30	158,75	22,710	71,580	168,74	PHS 140-2C60		
		50,80		2	13	B	236,47	50,80	101,60	152,40	120,65	28,420	86,970	21,77	PHS 160-2BH13
					14	B	252,98	50,80	120,65	171,45	120,65	28,420	86,970	26,31	PHS 160-2BH14
					15	B	269,49	50,80	133,35	177,80	120,65	28,420	86,970	30,84	PHS 160-2BH15
16	B		286,00		50,80	133,35	177,80	120,65	28,420	86,970	34,02	PHS 160-2BH16			
17	B		302,26		50,80	133,35	177,80	120,65	28,420	86,970	41,28	PHS 160-2BH17			
50,80	2		18	B	318,52	50,80	133,35	177,80	120,65	28,420	86,970	43,54	PHS 160-2BH18		
			19	B	335,03	50,80	133,35	177,80	120,65	28,420	86,970	48,53	PHS 160-2BH19		
			20	B	351,28	50,80	133,35	177,80	120,65	28,420	86,970	53,98	PHS 160-2BH20		
			21	B	367,54	50,80	136,53	190,50	120,65	28,420	86,970	58,97	PHS 160-2BH21		
			22	B	383,79	50,80	136,53	190,50	120,65	28,420	86,970	63,96	PHS 160-2BH22		
			23	B	400,05	50,80	136,53	190,50	120,65	28,420	86,970	71,21	PHS 160-2BH23		
			24	B	416,31	50,80	136,53	190,50	120,65	28,420	86,970	77,56	PHS 160-2BH24		
			25	B	432,56	50,80	136,53	190,50	120,65	28,420	86,970	84,82	PHS 160-2BH25		
			26	B	448,82	50,80	136,53	190,50	120,65	28,420	86,970	91,17	PHS 160-2B26		
			35	C	594,87	38,10	171,45	241,30	168,28	28,420	86,970	138,80	PHS 160-2C35		
			45	C	756,92	38,10	177,80	254,00	180,98	28,420	86,970	195,50	PHS 160-2C45		
			60	C	999,74	38,10	177,80	254,00	180,98	28,420	86,970	255,83	PHS 160-2C60		

es can accommodate standard keyways. Larger bores are available where a shallow keyway is used or no keyway is required.  
 sprockets, up to and including 25 teeth, are with hardened teeth as standard.  
 onal size sprockets with hardened teeth, add "H" before the number of teeth, e.g. PHS 35-2BH12.

**ANSI sprockets, duplex, pilot bore**  
ANSI 200-2 · 63,50 mm (2½") pitch

Pitch	Number of teeth	Outside diameter OD	Type	Dimensions				Plate thickness		Mass	Designation	
				Bore		H	L	t <sub>1</sub>	t <sub>2</sub>			
				Min.	Max.					kg		
mm	in.	mm		mm								
<b>63,50</b>	2 ½	<b>11</b>	254,51	B	50,80	95,25	139,70	149,23	34,140	105,690	25,85	<b>PHS 200-2BH11</b>
		<b>12</b>	275,08	B	50,80	114,30	165,10	158,75	34,140	105,690	36,29	<b>PHS 200-2BH12</b>
		<b>13</b>	295,66	B	50,80	133,35	177,80	161,93	34,140	105,690	43,54	<b>PHS 200-2BH13</b>
		<b>14</b>	316,48	B	50,80	139,70	203,20	161,93	34,140	105,690	53,98	<b>PHS 200-2BH14</b>
		<b>15</b>	336,80	B	50,80	146,05	215,90	161,93	34,140	105,690	62,60	<b>PHS 200-2BH15</b>
		<b>16</b>	357,38	B	50,80	146,05	215,90	168,28	34,140	105,690	73,03	<b>PHS 200-2BH16</b>
		<b>17</b>	377,70	B	50,80	146,05	215,90	168,28	34,140	105,690	80,74	<b>PHS 200-2BH17</b>
		<b>18</b>	398,27	B	50,80	146,05	215,90	168,28	34,140	105,690	88,90	<b>PHS 200-2BH18</b>
		<b>19</b>	418,59	B	50,80	146,05	215,90	168,28	34,140	105,690	98,43	<b>PHS 200-2BH19</b>
		<b>20</b>	439,17	B	50,80	146,05	215,90	168,28	34,140	105,690	107,05	<b>PHS 200-2BH20</b>
		<b>21</b>	459,49	B	50,80	146,05	215,90	168,28	34,140	105,690	113,40	<b>PHS 200-2BH21</b>
		<b>22</b>	479,81	B	50,80	146,05	215,90	168,28	34,140	105,690	128,82	<b>PHS 200-2BH22</b>
		<b>23</b>	500,13	B	50,80	146,05	215,90	168,28	34,140	105,690	139,71	<b>PHS 200-2BH23</b>
		<b>24</b>	520,45	B	50,80	146,05	215,90	168,28	34,140	105,690	149,69	<b>PHS 200-2BH24</b>
		<b>25</b>	540,77	B	50,80	146,05	215,90	168,28	34,140	105,690	162,39	<b>PHS 200-2BH25</b>
		<b>26</b>	561,09	B	50,80	146,05	215,90	168,28	34,140	105,690	175,09	<b>PHS 200-2B26</b>
		<b>45</b>	946,15	C	38,10	177,80	254,00	215,90	34,140	105,690	301,64	<b>PHS 200-2C45</b>
		<b>60</b>	1249,68	C	38,10	177,80	254,00	228,60	34,140	105,690	440,89	<b>PHS 200-2C60</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 35-2BH12.



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