



SPROCKETS CATALOG



C.N.INDUSTRIAL PRODUCT

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

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Metric sprockets, double 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
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



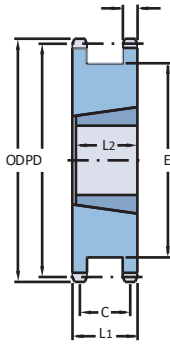
Metric sprockets, double simplex, pilot bore

ISO 12B-1 · 19,05 mm pitch | ISO 16B-1 · 25,40 mm pitch | ISO 20B-1 · 31,75 mm pitch

| Pitch | Number of teeth | Diameters | | Pitch | Type | Dimensions Bore | | | Plate thickness t_1 | Mass | Designation | |
|--------------|-----------------|-----------|--------|-------|------|-----------------|------|------|-----------------------|-------|-------------|-----------------------|
| | | OD | PD | | | Min. | Max. | L | | | | C |
| mm | - | mm | - | mm | - | mm | - | - | kg | - | | |
| 19,05 | 25 | 160,30 | 151,94 | A | 24 | 85,00 | 45,0 | 33,9 | 71 | 11,10 | 5,30 | PHS 12B-1DSA25 |
| 25,40 | 12 | 109,00 | 98,14 | A | 24 | 46,00 | 64,0 | 47,8 | 72 | 16,20 | 2,48 | PHS 16B-1DSA12 |
| | 13 | 117,00 | 106,12 | A | 24 | 50,00 | 64,0 | 47,8 | 78 | 16,20 | 3,09 | PHS 16B-1DSA13 |
| | 14 | 125,00 | 114,15 | A | 24 | 57,00 | 64,0 | 47,8 | 84 | 16,20 | 3,70 | PHS 16B-1DSA14 |
| | 15 | 133,00 | 122,17 | A | 24 | 60,00 | 64,0 | 47,8 | 95 | 16,20 | 4,35 | PHS 16B-1DSA15 |
| | 16 | 141,00 | 130,20 | A | 24 | 68,00 | 64,0 | 47,8 | 101 | 16,20 | 5,00 | PHS 16B-1DSA16 |
| | 17 | 149,00 | 138,22 | A | 24 | 71,00 | 64,0 | 47,8 | 111 | 16,20 | 5,75 | PHS 16B-1DSA17 |
| | 18 | 157,00 | 146,28 | A | 24 | 79,00 | 64,0 | 47,8 | 117 | 16,20 | 6,50 | PHS 16B-1DSA18 |
| | 19 | 165,20 | 154,33 | A | 24 | 82,00 | 64,0 | 47,8 | 127 | 16,20 | 7,40 | PHS 16B-1DSA19 |
| | 20 | 173,20 | 162,38 | A | 24 | 88,00 | 64,0 | 47,8 | 134 | 16,20 | 8,30 | PHS 16B-1DSA20 |
| | 21 | 181,20 | 170,43 | A | 24 | 95,00 | 64,0 | 47,8 | 143 | 16,20 | 9,20 | PHS 16B-1DSA21 |
| | 22 | 189,30 | 178,48 | A | 24 | 100,00 | 64,0 | 47,8 | 151 | 16,20 | 10,15 | PHS 16B-1DSA22 |
| | 23 | 197,50 | 186,59 | A | 24 | 107,00 | 64,0 | 47,8 | 160 | 16,20 | 11,20 | PHS 16B-1DSA23 |
| | 24 | 205,50 | 194,59 | A | 24 | 111,00 | 64,0 | 47,8 | 168 | 16,20 | 12,80 | PHS 16B-1DSA24 |
| | 25 | 213,50 | 178,49 | A | 24 | 115,00 | 64,0 | 47,8 | 176 | 16,20 | 14,40 | PHS 16B-1DSA25 |
| 31,75 | 13 | 147,83 | 132,66 | A | 25 | 63,50 | 68,3 | 49,8 | 96 | 18,50 | 5,09 | PHS 20B-1DSA13 |
| | 14 | 158,24 | 142,67 | A | 25 | 69,85 | 68,3 | 49,8 | 106 | 18,50 | 6,14 | PHS 20B-1DSA14 |
| | 15 | 168,40 | 152,70 | A | 32 | 77,79 | 68,3 | 49,8 | 116 | 18,50 | 7,64 | PHS 20B-1DSA15 |
| | 16 | 178,56 | 162,74 | A | 32 | 82,55 | 68,3 | 49,8 | 114 | 18,50 | 8,77 | PHS 20B-1DSA16 |
| | 17 | 188,98 | 172,80 | A | 32 | 92,08 | 68,3 | 49,8 | 124 | 18,50 | 9,77 | PHS 20B-1DSA17 |
| | 18 | 199,14 | 182,83 | A | 32 | 95,25 | 68,3 | 49,8 | 134 | 18,50 | 10,45 | PHS 20B-1DSA18 |
| | 19 | 209,30 | 192,91 | A | 32 | 106,36 | 68,3 | 49,8 | 157 | 18,50 | 11,36 | PHS 20B-1DSA19 |
| | 20 | 219,46 | 202,97 | A | 32 | 106,36 | 68,3 | 49,8 | 167 | 18,50 | 12,05 | PHS 20B-1DSA20 |
| | 21 | 229,62 | 213,03 | A | 32 | 133,35 | 68,3 | 49,8 | 177 | 18,50 | 13,18 | PHS 20B-1DSA21 |

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-1DSA14.

CNIP SPROCKET



Type A

Metric sprockets, double simplex, taper bushed

ISO 06B-1 · 9,525 mm pitch
ISO 16B-1 · 25,40 mm pitch

| ISO 08B-1 · 12,70 mm pitch | ISO 10B-1 · 15,88 mm pitch | ISO 12B-1 · 19,05 mm pitch |

| Pitch | Number of teeth | Diameters | | Type | Bushing number | Dimensions | | | | | Plate thickness t ₁ | Mass ¹⁾ kg | Designation | | | |
|-------|-----------------|------------|----------|-------|----------------|------------|------|----------------|-------|-------|--------------------------------|-----------------------|------------------|------------------|------------------|----|
| | | Outside OD | Pitch PD | | | Bore | | L ₁ | C | E | | | | L ₂ | | |
| mm | - | mm | mm | - | - | Min. | Max. | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| 9,525 | 18 | 58,30 | 54,85 | A | 1008 | 9 | 25 | 23,5 | 18,17 | 43 | 22,2 | 5,31 | 0,19 | PHS 06B-1DSTBH18 | | |
| | 19 | 61,30 | 57,87 | A | 1008 | 9 | 25 | 23,5 | 18,17 | 46 | 22,2 | 5,31 | 0,23 | PHS 06B-1DSTBH19 | | |
| | 20 | 64,30 | 60,89 | A | 1108 | 9 | 28 | 23,5 | 18,17 | 48 | 22,2 | 5,31 | 0,25 | PHS 06B-1DSTBH20 | | |
| | 21 | 68,00 | 63,91 | A | 1108 | 9 | 28 | 23,5 | 18,17 | 52 | 22,2 | 5,31 | 0,31 | PHS 06B-1DSTBH21 | | |
| | 22 | 71,00 | 66,93 | A | 1108 | 9 | 28 | 23,5 | 18,17 | 55 | 22,2 | 5,31 | 0,36 | PHS 06B-1DSTBH22 | | |
| | 23 | 73,50 | 69,95 | A | 1108 | 9 | 28 | 23,5 | 18,17 | 58 | 22,2 | 5,31 | 0,41 | PHS 06B-1DSTBH23 | | |
| | 24 | 77,00 | 72,97 | A | 1108 | 9 | 28 | 23,5 | 18,17 | 61 | 22,2 | 5,31 | 0,47 | PHS 06B-1DSTBH24 | | |
| | 25 | 80,00 | 76,02 | A | 1108 | 9 | 28 | 23,5 | 18,17 | 64 | 22,2 | 5,31 | 0,53 | PHS 06B-1DSTBH25 | | |
| | 12,70 | 14 | 61,80 | 57,07 | A | 1008 | 9 | 25 | 35,7 | 28,58 | 41 | 22,2 | 7,20 | 0,32 | PHS 08B-1DSTBH14 | |
| | | 15 | 65,30 | 61,09 | A | 1008 | 9 | 25 | 35,7 | 28,58 | 45 | 22,2 | 7,20 | 0,40 | PHS 08B-1DSTBH15 | |
| 16 | | 69,50 | 65,10 | A | 1108 | 9 | 28 | 35,7 | 28,58 | 49 | 22,2 | 7,20 | 0,44 | PHS 08B-1DSTBH16 | | |
| 17 | | 73,60 | 69,11 | A | 1215 | 11 | 32 | 35,7 | 28,58 | 53 | 38,1 | 7,20 | 0,43 | PHS 08B-1DSTBH17 | | |
| 18 | | 77,80 | 73,14 | A | 1215 | 11 | 32 | 35,7 | 28,58 | 58 | 38,1 | 7,20 | 0,46 | PHS 08B-1DSTBH18 | | |
| 19 | | 81,70 | 77,15 | A | 1215 | 11 | 32 | 35,7 | 28,58 | 63 | 38,1 | 7,20 | 0,50 | PHS 08B-1DSTBH19 | | |
| 20 | | 85,80 | 81,18 | A | 1215 | 11 | 32 | 35,7 | 28,58 | 66 | 38,1 | 7,20 | 0,59 | PHS 08B-1DSTBH20 | | |
| 21 | | 89,70 | 85,22 | A | 1615 | 14 | 42 | 35,7 | 28,58 | 70 | 38,1 | 7,20 | 0,59 | PHS 08B-1DSTBH21 | | |
| 22 | | 93,80 | 89,24 | A | 1615 | 14 | 42 | 35,7 | 28,58 | 74 | 38,1 | 7,20 | 0,64 | PHS 08B-1DSTBH22 | | |
| 23 | | 98,20 | 93,27 | A | 1615 | 14 | 42 | 35,7 | 28,58 | 78 | 38,1 | 7,20 | 0,68 | PHS 08B-1DSTBH23 | | |
| 15,88 | 24 | 101,80 | 97,29 | A | 1615 | 14 | 42 | 35,7 | 28,58 | 82 | 38,1 | 7,20 | 0,77 | PHS 08B-1DSTBH24 | | |
| | 25 | 105,80 | 101,33 | A | 2012 | 14 | 50 | 35,7 | 28,58 | 86 | 31,8 | 7,20 | 0,86 | PHS 08B-1DSTBH25 | | |
| 15,88 | 12 | 68,00 | 61,34 | A | 1108 | 9 | 28 | 42,0 | 33,34 | 15,88 | 9,0 | 9,10 | 28,00 | PHS 10B-1DSTBH12 | | |
| | 13 | 73,00 | 66,32 | A | 1108 | 9 | 28 | 42,0 | 33,34 | 15,88 | 9,0 | 9,10 | 28,00 | PHS 10B-1DSTBH13 | | |
| | 14 | 78,00 | 71,34 | A | 1108 | 9 | 28 | 42,0 | 33,34 | 15,88 | 9,0 | 9,10 | 28,00 | PHS 10B-1DSTBH14 | | |
| | 15 | 83,00 | 76,36 | A | 1215 | 11 | 32 | 42,0 | 33,34 | 15,88 | 11,0 | 9,10 | 32,00 | PHS 10B-1DSTBH15 | | |
| | 16 | 88,00 | 81,37 | A | 1215 | 11 | 32 | 42,0 | 33,34 | 15,88 | 11,0 | 9,10 | 32,00 | PHS 10B-1DSTBH16 | | |
| | 17 | 93,00 | 86,39 | A | 1615 | 14 | 42 | 42,0 | 33,34 | 15,88 | 14,0 | 9,10 | 42,00 | PHS 10B-1DSTBH17 | | |
| | 18 | 98,30 | 91,42 | A | 1615 | 14 | 42 | 42,0 | 33,34 | 15,88 | 14,0 | 9,10 | 42,00 | PHS 10B-1DSTBH18 | | |
| | 19 | 103,30 | 96,42 | A | 1615 | 14 | 42 | 42,0 | 33,34 | 15,88 | 14,0 | 9,10 | 42,00 | PHS 10B-1DSTBH19 | | |
| | 20 | 108,40 | 101,49 | A | 1615 | 14 | 42 | 42,0 | 33,34 | 15,88 | 14,0 | 9,10 | 42,00 | PHS 10B-1DSTBH20 | | |
| | 21 | 113,40 | 106,52 | A | 2012 | 14 | 50 | 42,0 | 33,34 | 15,88 | 14,0 | 9,10 | 50,00 | PHS 10B-1DSTBH21 | | |
| 19,05 | 22 | 118,00 | 111,55 | A | 2012 | 14 | 50 | 42,0 | 33,34 | 15,88 | 14,0 | 9,10 | 50,00 | PHS 10B-1DSTBH22 | | |
| | 23 | 123,40 | 116,58 | A | 2012 | 14 | 50 | 42,0 | 33,34 | 15,88 | 14,0 | 9,10 | 50,00 | PHS 10B-1DSTBH23 | | |
| | 24 | 128,30 | 121,62 | A | 2012 | 14 | 50 | 42,0 | 33,34 | 15,88 | 14,0 | 9,10 | 50,00 | PHS 10B-1DSTBH24 | | |
| | 25 | 134,00 | 126,66 | A | 2012 | 14 | 50 | 42,0 | 33,34 | 15,88 | 14,0 | 9,10 | 50,00 | PHS 10B-1DSTBH25 | | |
| | 12 | 81,50 | 73,61 | A | 1215 | 11 | 32 | 49,2 | 38,10 | 19,05 | 11,0 | 11,10 | 32,00 | PHS 12B-1DSTBH12 | | |
| | 13 | 87,50 | 79,59 | A | 1215 | 11 | 32 | 49,2 | 38,10 | 19,05 | 11,0 | 11,10 | 32,00 | PHS 12B-1DSTBH13 | | |
| | 14 | 93,60 | 85,62 | A | 1215 | 11 | 32 | 49,2 | 38,10 | 19,05 | 11,0 | 11,10 | 32,00 | PHS 12B-1DSTBH14 | | |
| | 15 | 99,80 | 91,61 | A | 1615 | 14 | 42 | 49,2 | 38,10 | 19,05 | 14,0 | 11,10 | 42,00 | PHS 12B-1DSTBH15 | | |
| | 16 | 105,50 | 97,63 | A | 1615 | 14 | 42 | 49,2 | 38,10 | 19,05 | 14,0 | 11,10 | 42,00 | PHS 12B-1DSTBH16 | | |
| | 17 | 111,50 | 103,67 | A | 1615 | 14 | 42 | 49,2 | 38,10 | 19,05 | 14,0 | 11,10 | 42,00 | PHS 12B-1DSTBH17 | | |
| 25,40 | 18 | 118,00 | 109,71 | A | 2012 | 14 | 50 | 49,2 | 38,10 | 19,05 | 14,0 | 11,10 | 50,00 | PHS 12B-1DSTBH18 | | |
| | 19 | 124,20 | 115,75 | A | 2012 | 14 | 50 | 49,2 | 38,10 | 19,05 | 14,0 | 11,10 | 50,00 | PHS 12B-1DSTBH19 | | |
| | 20 | 129,70 | 121,78 | A | 2517 | 16 | 65 | 49,2 | 38,10 | 19,05 | 16,0 | 11,10 | 65,00 | PHS 12B-1DSTBH20 | | |
| | 21 | 136,00 | 127,82 | A | 2517 | 16 | 65 | 49,2 | 38,10 | 19,05 | 16,0 | 11,10 | 65,00 | PHS 12B-1DSTBH21 | | |
| | 22 | 141,80 | 133,86 | A | 2517 | 16 | 65 | 49,2 | 38,10 | 19,05 | 16,0 | 11,10 | 65,00 | PHS 12B-1DSTBH22 | | |
| | 23 | 149,00 | 139,90 | A | 2517 | 16 | 65 | 49,2 | 38,10 | 19,05 | 16,0 | 11,10 | 65,00 | PHS 12B-1DSTBH23 | | |
| | 24 | 153,90 | 145,94 | A | 2517 | 16 | 65 | 49,2 | 38,10 | 19,05 | 16,0 | 11,10 | 65,00 | PHS 12B-1DSTBH24 | | |
| | 25 | 160,30 | 151,94 | A | 2517 | 16 | 65 | 49,2 | 38,10 | 19,05 | 16,0 | 11,10 | 65,00 | PHS 12B-1DSTBH25 | | |
| | 12 | 109,00 | 98,14 | A | 1615 | 14 | 42 | 63,5 | 46,50 | 72 | 38,1 | 16,20 | 1,92 | PHS 16B-1DSTBH12 | | |
| | 13 | 117,00 | 106,12 | A | 1615 | 14 | 42 | 63,5 | 46,50 | 80 | 38,1 | 16,20 | 2,53 | PHS 16B-1DSTBH13 | | |
| 14 | 125,00 | 114,15 | A | 2012 | 14 | 50 | 63,5 | 46,50 | 88 | 31,8 | 16,20 | 2,53 | PHS 16B-1DSTBH14 | | | |
| | 133,00 | 122,17 | A | 2012 | 14 | 50 | 63,5 | 46,50 | 96 | 31,8 | 16,20 | 3,10 | PHS 16B-1DSTBH15 | | | |
| | 141,00 | 130,20 | A | 2012 | 14 | 50 | 63,5 | 46,50 | 104 | 31,8 | 16,20 | 3,68 | PHS 16B-1DSTBH16 | | | |



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