SKF Transmission chains





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Standards and compliance

SKF chains are manufactured in state of the art facilities with tight quality controls. All products conform to ISO standards and other industrial standards like ANSI, BS, DIN and JIS. SKF Oil Field Chains are American Petroleum Institute (API) approved and each box carries the API monogram. SKF automotive chains meets the ISO/TS16949 Quality Assurance System technical specification. This specification aligns American (QS-9000), German (VDA6.1), French (EAQF) and the Italian (AVSQ) automotive quality system standards within the global automotive industry.

All SKF chains, with the exception of stainless steel, can accommodate temperatures from -20 to 150 °C. Stainless steel chains have a temperature range of -20 to 400 °C. For temperatures exceeding above mentioned values, alternative lubricants should be used. Note: For temperatures above 200 °C and below -20 °C, breaking load values are reduced. Apart from stainless steel chains also other anti-corrosion treatments and special coatings are readily available upon request.



Raw material

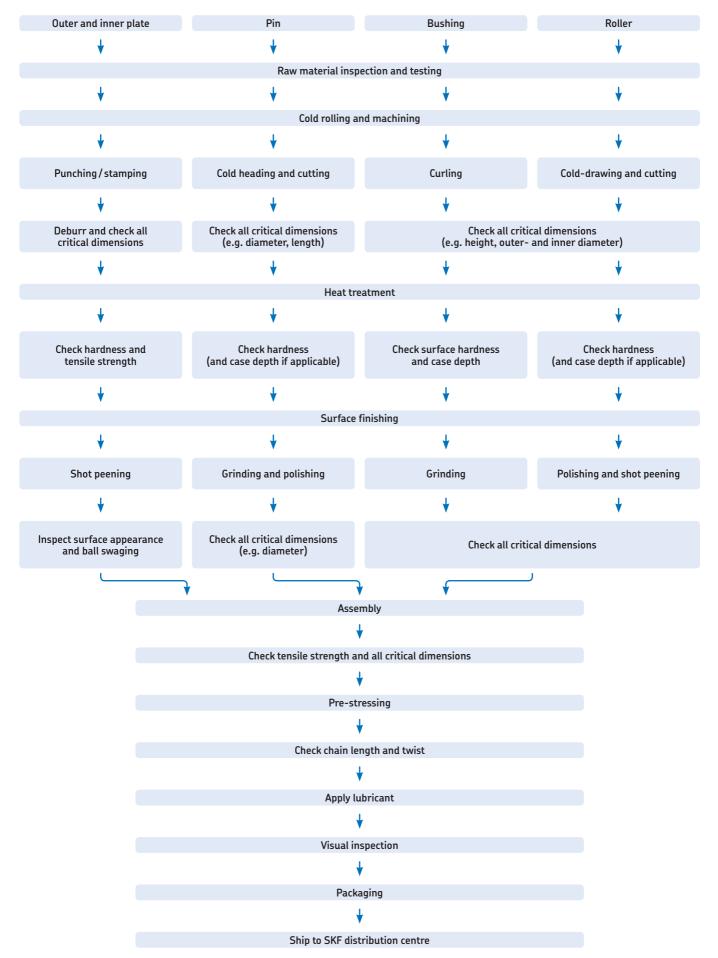
The raw materials used to manufacture each component of the chain must meet very stringent specifications. As a result, there are very tight controls over all incoming materials. These controls range from carefully selecting the steel mills to regular material audits. Every shipment of raw material must include a laboratory report certifying the material composition of the steel. In addition, samples are thoroughly tested to confirm that the steel meets all specifications.

After stringent inspections, the steel undergoes the pre-production process, which starts with annealing. Annealing softens and relieves any stresses in the steel. From there, the material goes through a multi-stage rolling process to provide a consistent plate thickness. Other pre-production steps depend on the type of material and how the material will be used.

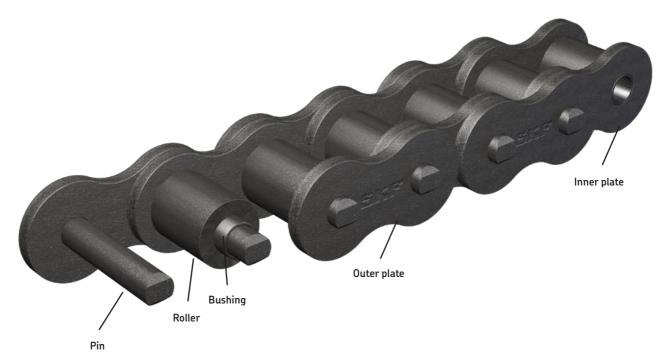


Continuous rolling machine to achieve uniform thickness of plate material

The manufacturing process



Chain parts



Link plates (inner and outer plates)

The shape of inner and outer plates on SKF chains have been adopted to a wider waist link plate design. This provides an increase in fatigue strength. By subjecting the raw material to a series of cold rolling processes and stringent thickness controls, the plates achieve uniform thicknesses which are critical to a smooth running chain. The plates endurance and strength is fully optimized via thru-hardening, shot peening and an aperture ball-burnishing process.

Shot peening improves fatigue strength and crack resistance



Furnaces for heat treatment process



Pins

Pins are made from alloy steel that has been case hardened in rotary furnaces. These furnaces provide an even heat for a consistent and uniform case depth, which helps to resist damage from shock loads and provide maximum wear resistance.



Rotary furnaces used in the heat treatment process provide a uniform heat for a more consistent and uniform result



Pins are precision ground to enhance wear resistance and increase chain service life

Bushings

Cold rolling provides a uniform wall thickness which is extremely important in achieving a precise and consistent pitch. Precision curling units offer a uniform bushing roundness, inside and out, for an optimum bushing-link plate fit. The case hardening process provides the bushing with a wear-resistant case and a tough, impact resistant core. After heat treatment, the bushings are precision ground to improve service life.

Automated assembly process rejects parts that do not meet, fit or tolerance specifications



Conveyor furnace line used for roller and bushing heat treatment, e.g. carbon-nitriding



Rollers

SKF chains use solid rollers that are cold-drawn from bar stock to improve fatigue strength and resist the damaging effects of shock loads. All rollers go through a hardening process to improve wear resistance and increase service life. To reduce cracking, the rollers undergo shot peening which significantly improves fatigue strength.



Parts manufacturing lines



Microhardness testing equipment, where batch tests are done, to ensure hardness is within specification

Assembly process

The automated assembly process rejects parts that do not meet, fit or tolerance specifications, giving SKF chains a precisely spaced pitch and a near perfect fit. Every part and process is subject to tight quality controls with frequent checks to conform to tolerances and standards. The assembled chains are then pre-stressed. This running-in of the chain not only avoids elongation, but it also improves the chain's fatigue resistance.

The final lubrication process provides SKF chains the lubricant they need for initial start-up. The lubricant also protects the chain against corrosion to significantly prolong shelf life.



Pre-lubrication product line

Pre-stressing after final assembly

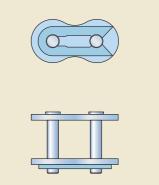


Connecting links

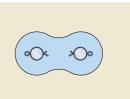
These links are used to connect two ends of a chain together. Both the spring clip and cotter pin type can be disassembled and replaced easily. The riveted type provides a very strong link, and has a similar fatigue strength as the other links in the chain.

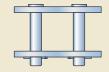
						Table 1
Standard	connecting li	nks				
Chain nur ANSI	nber		BS/ISO			
25-1	25-2	25-3	04B-1	04B-2	04B-3	Spring clip
			05B-1	05B-2	05B-3	Spring clip
35-1	35-2	35-3	06B-1	06B-2	06B-3	Spring clip
40-1	40-2	40-3	08B-1	08B-2	08B-3	Spring clip
50-1	50-2	50-3	10B-1	10B-2	10B-3	Spring clip
60-1	60-2	60-3	12B-1	12B-2	12B-3	Spring clip
80-1	80-2	80-3	16B-1	16B-2	16B-3	Spring clip
100-1	100-2	100-2	20B-1	20B-2	20B-3	Cotter pin
120-1	120-2	120-3	24B-1	24B-2	24B-3	Cotter pin
140-1	140-2	140-3	28B-1	28B-2	28B-3	Cotter pin
160-1	160-2	160-3	32B-1	32B-2	32B-3	Cotter pin
180-1	180-2	180-3	36B-1	36B-2	36B-3	Cotter pin
200-1	200-2	200-3	40B-1	40B-2	40B-3	Cotter pin
240-1	240-2	240-3	48B-1	48B-2	48B-3	Cotter pin

Connecting link riveted type is also available on request.



Connecting link (spring clip type)





Connecting link (cotter pin type)





Connecting link (riveted type)

Offset links

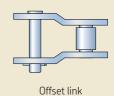
Offset links are used when an odd number of pitches are required in a chain. These links consist of two cranked plates which are press fitted onto a bush and roller. The wide end is placed over the last link in the chain and a connecting pin is installed and secured with a split pin.

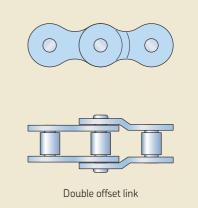
NOTE: It should be noted the use of the offset link de-rates the capacity of the standard transmission chain, particularly the use of the one pitch off-set link.

Off-set links should avoided on higher speed applications, shockloaded drives, and only be used where set centres are required, and no other option is available.

Off-set links are NOT available for any of the heavy or superheavy series chains such as the H, SH, SHH or SPH range.







Chain selection procedure and design guidelines

The following is a general guideline for the selection of roller transmission chains, whether DIN/BS or ANSI.

Information required

For correct selection, as much of the following information should be supplied

- Power (kW or HP) or torque
- Type of prime mover (e.g. electric motor, I.C. engine etc..)
- Type of DriveN equipment
 - Hours of operation
 - Type of loading / environment / duty etc
- Speeds (dR and dN) or one speed and the ratio
- Centre distance (nominal) usually between 30 80 pitches

Service factors

Application service factor (F_a)

For transmission chain there may be a number of service factors that need to be applied. These may be:

- Application service factor (F_a) Takes into account the application,
- Speed factor (F_n)

.

• Temperature factor (F_t) Compensates for the ambient temperature (up to 250 °C)

 \rightarrow Table 2

type of prime mover duty etc

Compensates for the chains' speed

Additionally, the service factor should be increased by a factor of 1.05 to 1.1 for each of the following conditions

- Frequent stop / starts
- Insufficient lubrication
- Short centres (usually regarded as less than 30 pitches)
- More than two sprocket system
- Reversing torque / load
- High load variations

				Table 1
Application service	factor (F _a)	Type of prime m	over	
Load classification	Driven equipment	Electric motor or turbine	Internal combustion engine > 6 cylinders, with flywheel, or hydraulic coupling	Internal combustion engine <6 cylinders, with NO flywheel, or hydraulic coupling
Uniform load (U)	Agitators; centrifugal blowers; generators, centrifugal pumps; Uniformly loaded belt conveyor, lightly loaded chain conveyors	1.0	1.0	1.2
Moderate shock (M	Centrifugal compressors,; kilns and dryers; conveyors and elevators with intermittent, medium load fluctuations Dryers; Pulverisers; machinery with moderate pulsating loads (machine tools paper, textiles)	1.3	1.2	1.4
Heavy shock (H)	Press, construction and mining equipment; reciprocating machinery, (compressors, reciprocating feeders, oil well rigs) rubber mixers, roll lines, machinery with heavy shock or reversing torques	1.5	1.4	1.7 - 1.9

Temperature factor (F_T)

(NOTE: for STANDARD Transmission chains only)

When chains are operating in the temperature conditions below. their respective ratings or capacity to perform must be re-rated. The power ratings shown in the following selection tables must be multiplied by the F_T factor below \rightarrow **Table 3**.

Sprocket selection

In selecting sprockets in a chain drive, there are a number of considerations that need to be taken into account for good life / wear. The ideal small tooth sprocket is 25 Tooth, as the tangential forces are minimal and the chain articulation around the sprocket is smooth with little or no chordal or polygon effect. (see note 4.3 below).

However, often space, and cost make this impractical. As a result the 19 Tooth is a good compromise, as it still offers good articulation and is more cost-effective. On a 1:1 drive, the best combination is again 25T... so the total drive system has the best number of teeth in contact - i.e. 50. Where practicable, drives should have this number in contact.

Chrocket colection narameters

- The number of teeth should include an odd number (for even wear over all teeth in the system)... e.g. 19, 21, 23, 25T...
- The smaller sprocket should be at least 19 tooth, if possible
- Using sprockets below 19T has several effects on the chain
 - Poor articulation about the sprocket (this is extenuated even further as the number of teeth reduce)
 - High loading on the sprocket tooth and subsequently in the pin / bush / roller bearing area, ultimately limiting the chains' capacity
 - Increased overhung load on the bearings of the driver / driven.
 - Reduced kW capacity
 - Reduced life
 - High point loads on the sprocket pitch line from transfer of the bushing / roller loads
- Where space (diameter) is an issue consideration can be given to using multi-strands of chain (keeping in mind the resultant overhung loads (FR) will still apply, but the chain capacity will increase)

Preferred sprocket sizes

The BS/DIN and ANSI (US) standards have "preferred sizes" for sprocket teeth (\rightarrow Table 4).

Sprod	cket s	electio	n para	mete	rs							Table 3
•			•						Temper	ature fact	or (F _T)	
done:	ing points	need to be co	onsidered w	inen initial s	Selection is				Temper	ature range	e °C	F_{T} factor
				-40 °C	to –30 °C		Not suitable					
Speed of	f chain	Speed	factor	Snee	d of chain	Sne	Table 2 ed factor		-30 °C	to –20 °C		0.25
		Speca		opee					–20 °C	to –10 °C		0.33
m/s		Fn		m/s		Fn			-10 °C	to +150 °C		1.00
Less thar	n 0.17	1.0		>0.5	- < 0.67	1.3			150 °C	to +200 °C		0.75
>0.17 an		1.1			7 – < 0.83	1.4			+200 °(C to +250 °	С	0.5
>0.33 an		1.2			3 - <1.17	1.6			> +250	°C		Refer SKFPTP
												Table 4
BS / DIN	l preferred s	prockets										
11	12	13	15	17	19	20	21	2	23	25	27	30
38	45	57	76	95	114							
	eferred spro	ckots										
ANJIPIC	elelled splo	UCKEUS										
9	10	11	12	13	14	15	16	1	17	18	19	20
28	30	32	35	36	40	42	45	L	8	52	54	60
70	72	80	84	96	112							

- Those listed in italics should only be used when necessary.
- Not all sprocket sizes are available in all pitches, or multiple strand options (e.g. duplex, triplex...).
- Other intermediate sizes, while "non-preferred", are available from SK PTP. See pages 163–236 of the General Catalogue 11015EN (II)

Sprocket type

A reduced number of teeth in the drive results in very high pressure in the pin / bush / roller zones. It is particularly noticeable at the point of roller contact with the driver (smaller) sprocket tooth. In severe conditions, it may result over time, in tooth hooking or even roller cracking.

If the circumstances mean larger sprockets are impractical, the consideration must be given to the sprocket teeth being hardened, preferably by induction hardening, as the control of depth and heat distribution is generally better.

Hardened teeth

The use of hardened tooth sprockets should be considered in the following conditions:

- Low speeds, heavily loaded drives
- Large ratio drives
- Abrasive or corrosive conditions

Using hardened tooth sprockets over 25T has little or no effect on the drive, as the chain roller sprocket pressure is no longer as much of an issue for correctly sized chains. Additionally, the chordal effect may be considered to be virtually zero.

The hardening of the tooth (typically between 35-50 HRC*), will give better sprocket resistance to roller impact and the high point loads of the chain running on smaller sprockets. This should reduce sprocket tooth "hooking" and give better sprocket wear over the life of the chain. (*Hardening ranges above and below this mid-range (SKF reference IH2) are available on request only... e.g. IH1: 30-45HRC or IH3, 40-55HRC), subject to charges.

NOTE: The SKF stock range of Type B sprockets, up to and including 25T will ALL be HARDENED tooth (to SKF Ref IH2) – as STANDARD.

Chain pitch

Use the smallest chain pitch that will meet the application. If a single strand has insufficient capacity, then the use of multi-strand chains should be considered (see Multi-strand chains at **page 13**). The higher the chain speed, the smaller the recommended pitch.

Drive life

A chain is usually selected for 15,000 hours, based on normal selection procedure. The tent graphs of chain power ratings are based on a 19T to 57T (3:1 ratio), with centres of between 30-80 pitches. This is based on a well selected, lubricated, and maintained chain with correct tension.

- Tentative selection should be based on the 19T sprocket. However sprocket teeth as low as 11T may be used at very slow speeds. At high speeds it is recommended to use up to 25T for smooth operation
- When using sprockets below z = 19T, the chain capacity is "re-rated" as illustrated in the following power tables. As a guideline only, typical values for the Tooth Factor (F2) are shown below in
 → Table 5:

From the above it can be seen that using (say) a 15T sprocket will reduce the chains' power ratings by approximately 40%... and a 12 tooth by up to 65%. Conversely, using sprockets over 19T will increase the chains' capacity.

(NOTE: These factors are **for reference only**, and have already been incorporated in the following power rating tables)

					Table 5								
Sprocket Correction Factors													
No. teeth Z	Tooth Factor F2	No. teeth Z	Tooth Factor F2	No. teeth Z	Tooth Factor F2								
23	1.22	17	0.90	12	0.35								
21	1.11	15	0.60	11	0.30								
19	1.00	13	0.40	10	NR∆								

Chordal or polygon effect

When the chain articulates about the sprocket, the pitch line of the chain forms a series of tangential lines between adjacent sprocket teeth... whether they be an odd or even number. A correctly selected and sized sprocket will ensure these lines actually closely follow the sprocket pitch line... hence the larger the better.

As the number of teeth reduces, the tangent angles can become extreme, with the chain effectively moving about a series of angles. The forces exerted by the chain become very high, leading to poor efficiency and high wear due to high friction between the loaded points of the pin / bush and roller.

Additionally, the chain, trying to overcome the tangential forces will start to ride up on the sprocket tooth... this riding up the tooth

			Table 6										
Multiple strand factor													
No. strands	Multiplier K2	No. strands 1	Multiplier K2										
1	1.0	4	3.3.										
2	1.7	5	3.9										
3	2.5	6	4.6										

¹ BS or DIN chain are only available up to "triplex" or 3 strand configuration, unless against special demand (MTO)

alters the radius the chain should be running at. The result is the chain linear speed changes.... In extreme cases the chain seems to be going fast then slow... this effect is called "hunting" and is a direct result of the chordal (or tangential) effect.

Chain wrap and drive ratio

In general the minimum wrap on the small sprocket should be no less that 120°, to ensure smooth operation. Additionally single reduction drives should be limited to a maximum of 7:1. If larger reductions are required, a two stage or double reduction is recommended.

Multiple strand drives

The use of MULTIPLE strand chain will increase the power capacity (and drive width) while maintaining the same diameters, and should be considered if space is an issue, or if centre distances are small (less than 30 pitches).

Typical power multipliers are shown in **Table 6**, (applicable for BS / DIN or ANSI chains):

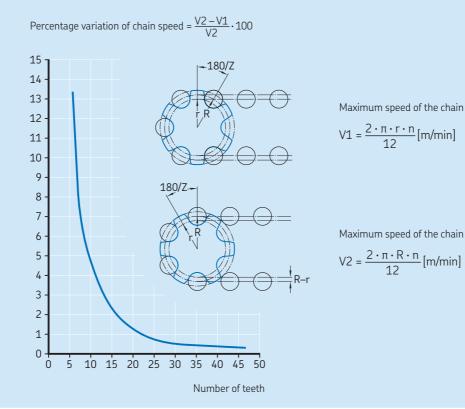


Diagram of chordal or polygon effect

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Diagram 1

Lubrication

On the power rating tables, the foot of each table shows a "Lubrication Type". This is the recommended method of lubrication at that

operating speed. The types referred to are shown in **Table 7** below:

		Table	: 7
Lubrication methods			
Туре	Lubrication method	Description	
Type I (Low speed)	Manual lubrication Drip feed lubrication	Oil is applied manually by brush or oil-can Via a drip system in a case, oil is fed via the sump to drip nozzles at a pre-determined rate	
Type II (Low- Medium speed)	Oil bath Disc lubrication	In a leak proof casing, the chain dips into the sump reservoir by about 13–17mm. In a leak proof casing, a disc or flinger supplies oil to the chain, which operates above the oil level.	
Type III (High speed)	Pump lubrication	In a leak proof casing oil is pumped directly onto the chain links. The oil is circulated usually via an external filter / cooling system.	

Relative speed range for lubrication tables Type I: Low speed is considered to be less than 60% of the maximum permissible chain speed. Type II: Low-Medium speed is between 60% and 80% of the maximum permissible chain speed. Type III: High speed is when the chain is operating over 80% of the permissible chain speed.

In general, the larger the chain pitch, the lower the permissible speed range. If higher speeds are required, consider using multi-strand chains.

Chain length

If not already determined, the actual chain length may be calculated from the following formulae and the 'K' factor table (\rightarrow Table 8). The shaft centres should be between 30 and 80 pitches.

Where:

- L = Chain length (in pitches)
- Z_1 = No. of teeth of small sprocket
- Z_2 = No. of teeth of large sprocket
- C = Shaft centres (in pitches)
- K = A constant, determined from $(Z_2 Z_1)$, in **Table 8**

$$L = \frac{Z_2 + Z_1}{2} + 2C + \frac{K}{C}$$

													Table 8
'K' Facto	ors												
Z ₁ -Z ₂	К	Z ₁ -Z ₂	K	Z ₁ -Z ₂	K	Z ₁ -Z ₂	К	Z ₁ -Z ₂	К	Z ₁ -Z ₂	К	Z ₁ -Z ₂	K
1 2 3 4 5 6 7 8 9 10 71 73 74 75 76 77 78 79 80	0,0 0,1 0,2 0,4 0,6 0,9 1,2 1,6 2,1 2,5 127,7 131,3 135,0 138,7 142,5 146,3 150,2 154,1 158,1 162,1	11,00 12,00 13,00 14,00 15,00 16,00 17,00 18,00 80,00 81,00 82,00 83,00 84,00 84,00 85,00 85,00 86,00 87,00 88,00 89,00 90,00	3,06 3,65 4,28 4,96 5,70 6,48 7,32 8,21 9,14 10,13 166,19 170,32 174,50 178,73 183,01 187,34 191,73 196,16 200,64 205,18	21,00 22,00 23,00 24,00 25,00 26,00 27,00 28,00 91,00 91,00 92,00 91,00 92,00 94,00 95,00 96,00 97,00 98,00 99,00 100,00	11,17 12,26 13,40 14,59 15,83 17,12 18,47 19,86 21,30 22,80 209,76 214,40 219,08 223,82 228,61 233,44 238,33 243,27 248,26 253,30	31,00 32,00 33,00 34,00 35,00 36,00 37,00 38,00 40,00 101,00 102,00 104,00 105,00 106,00 106,00 107,00 108,00 109,00 110,00	24,34 25,94 27,58 29,28 31,03 32,83 34,68 36,58 38,53 40,53 258,39 263,54 268,73 273,97 279,27 284,67 290,01 295,45 300,95 306,50	41,00 42,00 43,00 44,00 45,00 46,00 47,00 47,00 49,00 50,00 111,00 112,00 114,00 115,00 116,00 117,00 118,00 119,00 120,00	42,58 44,68 46,84 49,04 51,29 53,60 55,95 58,36 60,82 63,33 312,09 317,74 323,44 329,19 334,99 340,84 346,75 352,70 358,70 364,76	51,00 52,00 53,00 54,00 56,00 57,00 59,00 60,00 121,00 122,00 122,00 122,00 125,00 126,00 122,00 126,00 127,00 128,00 129,00 130,00	65,88 68,49 71,15 73,86 76,62 79,44 82,30 85,21 88,17 91,19 370,86 377,02 383,22 389,48 395,79 402,14 408,55 415,01 421,52 428,08	61 62 63 64 65 66 67 68 69 70 131 132 133 134 135 136 137 138 139 140	94,25 97,37 100,54 103,75 107,02 110,34 113,71 117,13 120,6 124,12 434,69 441,36 448,07 454,83 461,64 468,51 475,42 482,39 489,41 496,47

Power rating tables

The following Power Rating Tables (**pages 16** to **31**) are based on the following general parameters:

- Normal ambient conditions
- Power rating is for a single strand chain
- Service Factor (Fs) for the values shown is 1.0.
- Lubrication is appropriate for the speed shown
- The shafts are parallel, and well aligned
- Any load variation is minimal

Any variation to the above conditions will require the application of the relevant Service factor, with regards to application, no. of chain strands, and temperature.

06B-1	; (9.53 m	nm Pitcl	n) Power	ratings	in kilowa	att (Euro	opean st	andard)									
No of teeth	Pitch circle Dia.	rpm of	f small (i	faster) s	procket z	1											
Z	mm	25	50	75	100	200	400	500	750	1 000	1 200	1 4 4 0	1 750	2 000	2 250	2 500	3 000
13 15 17 19 21 23 25	39,80 45,81 51,84 57,87 63,91 69,95 76,00	0,05 0,06 0,07 0,08 0,09 0,10 0,10	0,10 0,11 0,13 0,15 0,18 0,19 0,21	0,14 0,15 0,19 0,22 0,24 0,26 0,28	0,18 0,19 0,23 0,27 0,30 0,32 0,35	0,35 0,37 0,46 0,54 0,59 0,64 0,70	0,67 0,71 0,87 1,01 1,11 1,22 1,31	0,76 0,80 0,99 1,15 1,27 1,38 1,50	1,14 1,22 1,48 1,73 1,91 2,08 2,25	1,49 1,59 1,95 2,27 2,49 2,72 2,95	1,73 1,83 2,25 2,62 2,87 3,14 3,40	2,05 2,17 2,68 3,11 3,42 3,73 4,05	2,67 2,82 3,47 4,04 4,44 4,84 5,25	2,95 3,12 3,83 4,46 4,90 5,36 5,80	3,30 3,50 4,30 5,00 5,50 5,99 6,50	3,55 3,76 4,62 5,38 5,91 6,45 6,99	4,31 4,57 5,61 6,53 7,18 7,84 9,21
Lubrica	ubrication TYPE 1 nethod								ΤY	'PE 2							

Table 9b

Table 9a

08B-1; (12.70 mm Pitch) power ratings in kilowatt (European standard)

No of teeth	Pitch circle Dia.	rpm of	f small (faster) s	procket	z ₁											
Z	mm	25	50	75	100	200	400	500	750	1 000	1 200	1 4 4 0	1 800	2 000	2 250	2 400	3 000
13 15 17 19 21 23 25	53,07 61,08 69,12 77,16 85,21 93,27 101,33	0,16 0,18 0,22 0,25 0,27 0,30 0,32	0,24 0,28 0,32 0,36 0,39 0,43 0,48	0,43 0,45 0,56 0,65 0,71 0,78 0,84	0,59 0,62 0,76 0,89 0,98 1,06 1,15	0,82 0,96 1,10 1,25 1,39 1,52 1,67	1,55 1,80 2,06 2,33 2,60 2,85 3,12	2,18 2,32 2,84 3,31 3,64 3,97 4,30	3,24 3,44 4,22 4,91 5,41 5,89 6,39	4,06 4,31 5,28 6,15 6,77 7,37 7,99	4,14 4,84 5,53 6,24 6,96 7,67 8,39	4,56 5,28 5,94 6,91 7,60 8,29 8,98	5,14 6,38 7,69 9,01 10,04 11,07 12,10	6,59 6,99 8,59 9,99 10,99 11,99 12,99	5,33 5,64 6,93 8,06 8,87 9,68 10,49	3,34 4,14 5,00 5,90 6,86 7,86 8,93	2,39 2,97 3,57 4,22 4,91 5,62 6,38
	Lubrication TYPE 1 method			TYPE 2						TYPE 3							

10B-1; (15.875 mm Pitch) Power ratings in kilowatt (European standard) No of circle Dia. Z mm 25 50 75 100 200 300 400 500 750 1 000 1 200 1 800 2 100 2 400 2 700 13 66,34 0.25 0.43 0.66 0.82 1.60 2.19 2.81 3.48 4.94 6.47 7.68 7.81 5.84 4.62 3.79 3.17 15 76,35 0.27 0.52 0.70 0.95 1.70 2.58 2.99 4.06 5.24 6.86 9.01 9.70 7.24 5.73 4.70 3.93 17 86,39 0.33 0.59 0.85 1.09 2.08 2.94 3.67 4.64 6.44 8.43 10.22 11.67 8.76 6.91 5.67 4.76 19 96,45 0.38 0.66 1.09 2.92 3.24 3.26 7.49 9.80 11.59 13.82 10.38 8.16 6.70 5.61 21																		Table 9c
teeth circle Dia. Z mm 25 50 75 100 200 300 400 500 750 1000 1 200 1 500 1 800 2 100 2 400 2 700 13 66,34 0.25 0.43 0.66 0.82 1.60 2.19 2.81 3.48 4.94 6.47 7.68 7.81 5.84 4.62 3.79 3.17 15 76,35 0.27 0.52 0.70 0.95 1.70 2.58 2.99 4.06 5.24 6.86 9.01 9.70 7.24 5.73 4.70 3.93 17 86,39 0.33 0.59 0.85 1.09 2.08 2.94 3.67 4.64 6.44 8.43 10.22 11.67 8.76 6.91 5.67 4.76 19 96,45 0.38 0.66 1.00 1.23 2.42 3.32 4.26 5.23 7.49 9.80 11.59 13.82 10.38 8.16 6.70 5.61 21 106,51 0.42 0.74 1.10 <	10B-1	; (15.87	5 mm Pi	itch) Pov	ver ratin	ıgs in kilo	watt (E	uropear	ı standa	rd)								
13 66,34 0,25 0,43 0,66 0,82 1,60 2,19 2,81 3,48 4,94 6,47 7,68 7,81 5,84 4,62 3,79 3,17 15 76,35 0,27 0,52 0,70 0,95 1,70 2,58 2,99 4,06 5,24 6,86 9,01 9,70 7,24 5,73 4,70 3,93 17 86,39 0,33 0,59 0,85 1,09 2,08 2,94 3,67 4,64 6,44 8,43 10,22 11,67 8,76 6,91 5,67 4,76 19 96,45 0,38 0,66 1,00 1,23 2,42 3,32 4,26 5,23 7,49 9,80 11,59 1,38 1,60 5,61 21 106,51 0,42 0,74 1,10 1,38 2,67 3,69 4,69 5,84 8,24 10,77 12,88 15,79 12,02 9,45 7,79 6,55 23 116,51 0,45 0,81 1,19 1,51 2,90 4,08 <		circle Dia.																
15 76,35 0,27 0,52 0,70 0,95 1,70 2,58 2,99 4,06 5,24 6,86 9,01 9,70 7,24 5,73 4,70 3,93 17 86,39 0,33 0,59 0,85 1,09 2,08 2,94 3,67 4,64 6,44 8,43 10,22 11,67 8,76 6,91 5,67 4,76 19 96,45 0,38 0,66 1,00 1,23 2,42 3,32 4,26 5,23 7,49 9,80 11,59 13,82 10,38 8,16 6,70 5,61 21 106,51 0,42 0,74 1,10 1,38 2,67 3,69 4,69 5,84 8,24 10,77 12,88 15,79 12,02 9,45 7,79 6,55 23 116,51 0,45 0,81 1,19 1,51 2,90 4,08 5,12 6,42 8,98 11,75 14,16 17,33 13,82 10,82 8,93 7,49 25 126,66 0,49 0,90 1,30 1,67	Z	mm	25	50	75	100	200	300	400	500	750	1 000	1 200	1 500	1 800	2 100	2 400	2 700
	15 17 19 21 23 25 Lubrica	76,35 86,39 96,45 106,51 116,51 126,66	0,27 0,33 0,38 0,42 0,45	0,52 0,59 0,66 0,74 0,81 0,90	0,70 0,85 1,00 1,10 1,19 1,30	0,95 1,09 1,23 1,38 1,51	1,70 2,08 2,42 2,67 2,90	2,58 2,94 3,32 3,69 4,08	2,99 3,67 4,26 4,69 5,12	4,06 4,64 5,23 5,84 6,42 7,03	5,24 6,44 7,49 8,24 8,98 9,73	6,86 8,43 9,80 10,77 11,75	9,01 10,22 11,59 12,88 14,16	9,70 11,67 13,82 15,79 17,33	7,24 8,76 10,38 12,02 13,82	5,73 6,91 8,16 9,45 10,82 12,36	4,70 5,67 6,70 7,79 8,93 10,12	3,93 4,76 5,61 6,55 7,49

Refer multiple strand factor multiplier on **table 6**, **page 13** For requirements at faster speeds, or sprocket sizes contact SKF 400 4 /40 0

128-1	; (19.05	mm Pit	ch) Pow	er rating	js in kilov	vatt (Eu	ropean	standard	1)								
No of teeth	Pitch circle Dia.	rpm o	f small (faster) s	procket z	1											
Z	mm	25	50	75	100	200	300	400	500	750	1 000	1 200	1 440	1 800	2 000	2 200	2 400
13 15 17 19 21 23 25	79,60 91,62 103,67 115,74 127,82 139,90 151,99	0,60 0,66 0,72	0,64 0,74 0,84 0,96 1,07 1,17 1,29	1,09 1,15 1,42 1,65 1,81 1,98 2,14	1,18 1,37 1,58 1,78 1,98 2,18 2,39	2,21 2,59 2,97 3,34 3,73 4,10 4,49	3,57 3,79 4,66 5,42 5,96 6,50 7,05	4,59 4,87 5,98 6,95 7,65 8,34 9,04	5,04 5,88 6,74 7,62 8,45 9,35 10,22	8,12 8,61 10,58 12,20 13,52 14,76 15,99	10,27 10,90 13,38 15,56 17,12 18,67 20,23	10,48 12,96 14,94 16,74 18,72 20,60 22,58	8,31 10,30 12,54 14,76 17,08 19,65 22,23	5,73 7,08 8,58 10,12 11,76 13,47 15,27	4,86 6,03 7,27 8,58 9,96 11,51 12,96	4,21 5,22 6,30 7,49 8,67 9,87 11,25	3,70 4,58 5,53 6,53 7,62 8,76 9,87
Lubrica metho			T	YPE 1				T	YPE 2					ΤY	′PE 3		

16B-1; (25.4mm Pitch) Power ratings in kilowatt (European standard)

No of teeth	Pitch circle Dia.	rpm of	f small (f	aster) s	procket z	21											
Z	mm	25	50	75	100	200	300	400	500	600	700	800	1 000	1 200	1 400	1 600	1 800
13 15 17 19 21 23 25	106,14 122,17 138,23 154,32 170,42 186,54 202,66	1,15 1,33 1,49 1,67 1,83	1,85 2,16 2,47 2,79 3,11 3,43 3,76	3,05 3,23 3,97 4,61 5,08 5,54 5,99	3,46 4,04 4,61 5,21 5,80 6,41 7,01	6,45 7,53 8,58 9,70 10,82 11,93 13,05	9,27 10,82 12,44 13,99 15,63 17,17 18,80	12,02 14,08 16,05 18,11 20,26 22,32 24,38	14,68 17,17 19,65 22,15 24,72 27,21 29,87	19,27 20,45 25,11 29,20 32,13 35,04 37,97	19,91 23,26 26,60 30,05 33,48 36,90 40,35	24,60 26,09 32,04 37,27 40,99 44,72 48,44	21,63 26,78 32,27 38,19 44,37 50,81 55,70	16,48 20,42 24,54 29,10 33,81 28,41 43,86	13,05 16,22 19,49 23,09 26,78 29,80 34,84	10,73 13,21 15,97 18,88 21,97 25,15 28,50	8,93 11,07 13,39 15,79 18,36 21,12 23,87
Lubric metho		Υ	YPE 1					TYPE 2	2						TYPE	3	

teeth	circle Dia.																
Z	mm	10	25	50	75	100	150	200	300	400	500	600	700	750	800	900	1 000
13 15 17 19 21 23 25	132,67 152,71 172,79 192,90 213,03 233,17 253,32	0,97 1,11 1,26 1,40 1,55	1,91 2,22 2,54 2,86 3,19 3,52 3,85	3,54 4,14 5,35 5,95 3,52 3,85	5,58 5,92 7,27 8,46 9,30 10,15 10,99	6,62 7,73 8,84 9,96 11,07 12,28 13,39	10,74 13,19 15,35 16,88 18,42	14,42 16,48 18,62 20,78 22,84	17,77 20,78 23,77 26,78 29,87 32,96 36,05	23,09 26,96 30,82 34,76 38,71 42,66 46,69	28,15 32,88 37,68 42,49 47,30 52,19 57,08	33,22 38,80 44,37 50,04 55,70 61,54 67,29	38,19 44,55 50,99 57,61 64,04 70,64 77,33	43,11 45,72 56,17 65,31 71,84 78,37 84,90	36,13 44,81 53,99 63,86 72,18 79,65 87,55	30,30 37,51 45,24 53,48 62,14 71,25 80,77	25,83 32,01 38,63 45,66 53,05 60,85 68,93
Lubric metho			TYPE	1			ΤY	′PE 2						TYPE	3		

Refer multiple strand factor multiplier on **table 6**, **page 13** For requirements at faster speeds, or sprocket sizes contact SKF

No of Pitch rpm of small (faster) sprocket z1

SKF

Table 9d

Table 9e

Table 9f

19

24B-1	; (38.10 m	ım Pito	h) Pow	er ratin	gs in kilo	owatt (E	uropean	standaı	rd)								
No of teeth	Pitch circle Dia.	rpm (of sma	ll (faster) sprock	et z ₁											
Z	mm	10	25	50	75	100	150	200	250	300	400	500	600	700	800	900	1000
13 15 17 19 21 23 25	159,20 183,25 207,35 231,48 255,63 279,80 303,99	1,69 1,97 2,26 2,54 2,83 3,12 3,42	3,85 4,49 5,14 5,79 6,46 7,13 7,81	7,18 8,38 9,61 10,82 12,02 13,31 14,50	10,39 11,02 13,54 15,75 17,32 18,90 20,48	13,39 15,71 17,94 20,17 22,48 24,80 27,21	19,23 22,58 25,75 29,10 32,36 35,71 39,14	25,06 29,18 33,39 37,60 41,97 46,35 50,65	30,43 32,27 39,64 46,10 50,72 55,32 59,94	36,05 42,05 48,07 54,33 60,51 66,77 72,95	46,78 54,41 62,40 70,30 78,36 86,70 94,42	57,08 66,52 76,30 85,83 96,13 106,43 115,88	113,30 124,45	125,32 143,35	49,26 62,14 74,85 88,40 103,00 117,60 133,90	98,70	35,87 44,47 53,56 63,26 73,56 84,28 95,28
Lubric metho		ΤY	'PE 1				TYPE	2						TYPE 3			

Table 9h

Table 9g

28B-1; (44.45 mm Pitch) Power ratings in kilowatt (European standard)

Z mm 10 25 50 75 100 125 150 200 250 300 350 400 450 500 550 600	
	00
	45,92 75,95 93,98

																	Table 9i
32B-1	; (50.80 m	ım Pitc	h) Pow	ver ratin	gs in kilo	owatt (E	uropean	standaı	rd)								
No of teeth	Pitch circle Dia.	rpm o	of smal	ll (faster) sprock	et z ₁											
Z	mm	10	25	50	75	100	125	150	175	200	225	250	300	350	400	450	500
13 15 17 19 21 23 25	212,27 244,33 276,46 308,64 340,84 373,07 405,32	3,47 4,04 4,64 5,22 5,81 6,42 7,02	12,02 13,31 14,76	14,85 17,25 19,75 222,32 24,80 527,38 430,05	21,30 22,59 27,75 32,27 35,49 38,73 41,95	27,55 32,19 36,82 41,54 46,35 51,07 55,88	32,46 34,42 42,29 49,17 54,09 59,01 63,92	40,09 46,27 52,96 59,66 66,52 73,39 80,34	45,13 47,86 58,81 68,38 75,22 82,06 88,90	51,32 59,92 68,67 77,43 86,70 95,28 103,85		115,88	124,45 137,33	128,75 142,48 157,93	128,75 145,05	157,52 173,27 189,03	137,33 157,08 177,68 197,42 218,02
Lubrica metho		ΤY	PE 1			ΤY	'PE 2						ΤY	PE 3			

Refer multiple strand factor multiplier on **table 6**, **page 13** For requirements at faster speeds, or sprocket sizes contact SKF

SKF

40B-1	; (63.5 mr	n Pitch) Powe	er rating	s in kilov	vatt (Eu	ropean s	tandard)								
No of teeth	Pitch circle Dia.	rpm o	of sma	ll (faster) sprock	et z ₁											
Z	mm	5	10	15	20	30	40	50	60	80	100	150	200	250	300	350	400
13 15 17 19 21 23 25	265,34 305,42 345,58 385,79 426,05 466,34 506,65	3,22 3,76 4,29 4,82 5,40 5,96 6,52	11,08	8,63 10,07 11,59 12,94 7 14,46 3 15,99 3 17,51	11,17 13,11 14,97 16,92 18,78 20,73 22,66	16,07 18,86 21,49 24,28 26,98 29,86 32,56	20,89 24,36 27,91 31,47 35,02 38,65 42,30	25,55 29,77 34,18 38,32 42,80 47,37 51,59	30,02 35,10 40,17 45,25 50,42 55,74 60,90	38,90 45,50 52,02 58,62 65,39 72,24 78,92	47,71 55,49 63,52 71,73 79,93 87,97 97,27	126,88	119,26 134,49 148,87 164,10	126,88 144,64 163,24 182,70 200,46	127,72 152,25 167,48 181,00 210,61 223,30 235,15	153,09 165,78 178,47 189,47 197,93	134,49 144,64 153,09 159,86 164,94
Lubrica metho				٦	TYPE 1				ΤY	'PE 2				TY	PE 3		

48B-1; (76.2mm Pitch) Power ratings in kilowatt (European standard)

No of teeth	Pitch circle Dia.	rpm o	of sma	ll (faster) sprock	et z ₁											
Z	mm	5	10	15	20	30	40	50	60	80	100	150	175	200	250	300	350
13 15 17 19 21 23 25	318,41 366,50 414,69 462,96 511,26 599,61 607,98	4,94 5,77 6,61 7,44 8,30 9,14 9,98	10,74 12,35 13,88 15,48 17,08 18,70	13,28 4 15,48 5 17,76 3 20,05 3 22,33 3 24,61 0 26,90	17,17 20,12 23,01 25,96 28,93 31,89 34,84	24,79 28,93 33,07 37,30 41,62 45,93 50,24	32,15 37,47 42,88 48,39 53,88 59,46 65,04			110,81	104,04 116,73 135,33	123,50 141,26 159,02 176,78 195,39	142,10 157,33 171,71 185,24 197,93	138,72 153,09 165,78 178,47 189,47 199,62	110,81 122,64 133,65 143,80 152,25 159,86 165,78	98,12 104,88 109,95 113,35 115,88	66,23 64,03 60,06
Lubrica metho			٦	TYPE 1				ΤY	'PE 2					TY	PE 3		

Refer multiple strand factor multiplier on **table 6**, **page 13** For requirements at faster speeds, or sprocket sizes contact SKF Table 9k

В

21

35-1 (06C-1);	(9.53 m	m Pitch) Power	ratings ir	n kilowa	tt (ANSI	standar	d)								
No of teeth	Pitch circle Dia.	rpm (N	N ₁) of sm	nall (fast	er) sproc	ket z ₁											
Z	mm	50	100	200	240	500	700	900	1 200	1 500	1 800	2 100	2 500	3 000	3 500	4 000	4 500
13 15 17 19 21 23 25	39,80 45,81 51,84 57,87 63,91 69,95 76,00	0,10 0,11 0,13 0,14 0,16 0,17 0,19	0,19 0,22 0,25 0,28 0,31 0,34 0,37	0,37 0,43 0,48 0,54 0,60 0,66 0,72	0,45 0,51 0,58 0,65 0,72 0,79 0,86	0,90 1,04 1,18 1,31 1,45 1,60 1,73	1,25 1,43 1,63 1,82 2,01 2,20 2,39	1,58 1,83 2,07 2,31 2,56 2,80 3,04	2,09 2,41 2,73 3,05 3,37 3,69 4,01	2,59 2,98 3,38 3,77 4,18 4,57 4,97	3,08 3,55 4,03 4,50 4,98 5,45 5,92	3,57 4,12 4,67 5,22 5,77 6,32 6,86	3,70 4,59 5,52 6,17 6,82 7,47 8,12	2,81 3,49 4,21 4,98 5,78 6,62 7,51	2,24 2,77 3,34 3,95 4,59 5,26 5,96	1,83 2,27 2,74 3,23 3,75 4,30 4,88	1,53 1,90 2,29 2,71 3,15 3,60 4,09
Lubrica metho			T	YPE 1					TYPE	2					TYPE	3	

40-1 (08A-1); (12.70 mm Pitch) Power ratings in kilowatt (ANSI standard)

Dia.															
Z mm 25	50	100	180	200	300	500	700	900	1 000	1 200	1 400	1 600	1 800	2 500	3 000
13 53,07 0,1 15 61,08 0,1 17 69,12 0,1 19 77,16 0,1 21 85,21 0,1 23 93,27 0,2 25 101,33 0,2 Lubrication method	4 0,27 6 0,31 8 0,34 9 0,38 1 0,41	0,46 0,52 0,60 0,66 0,73 0,81 0,87 1	0,80 0,93 1,04 1,17 1,29 1,42 1,54	0,89 1,02 1,16 1,29 1,42 1,57 1,70	1,31 1,51 1,71 1,91 2,11 2,31 2,51	2,13 2,46 2,79 3,12 3,44 3,77 4,10	2,95 3,39 3,85 4,30 4,75 5,21 5,66	3,74 4,33 4,90 5,48 6,05 6,63 7,21	4,15 4,78 5,42 6,06 6,70 7,33 7,97 TYPE 2	4,94 5,70 6,46 7,22 7,97 8,74 9,50	5,73 6,61 7,49 8,37 9,25 10,13 11,01	5,33 6,61 7,97 9,43 10,52 11,52 12,52	4,47 5,54 6,68 7,90 9,18 10,52 11,92	2,73 3,39 4,09 4,83 5,61 6,43 7,28	2,08 2,57 3,11 3,67 4,27 4,89 5,54

																Table 10c
41-1 (083-1)	; (12.70	mm Pitcl	h) Power	ratings	in kilow	att (ANS	5l standa	ard)								
No of Pitch teeth circle Dia.	rpm o	f small (i	faster) s	procket	z 1											
Z mm	25	50	100	180	200	300	500	700	900	1 000	1 200	1 400	1 600	1 800	2 500	3 000
13 53,07 15 61,08 17 69,12 19 77,16 21 85,21 23 93,27 25 101,3 Lubrication method	0,07 0,09 0,10 0,10	0,13 0,15 0,17 0,19 0,21 0,22 0,25 TYPE	0,25 0,29 0,33 0,37 0,40 0,44 0,48 1	0,44 0,51 0,57 0,64 0,71 0,78 0,84	0,48 0,56 0,63 0,71 0,78 0,86 0,93	0,72 0,83 0,94 1,05 1,16 1,27 1,38	1,17 1,35 1,53 1,72 1,89 2,07 2,25	1,62 1,87 2,12 2,36 2,62 2,86 3,11	2,06 2,38 2,69 3,01 3,33 3,65 3,96	2,16 2,63 2,98 3,33 3,69 4,04 4,39 TYPE	1,64 2,04 2,45 2,90 3,37 3,86 4,38	1,31 1,62 1,95 2,31 2,68 3,07 3,48	1,07 1,32 1,60 1,89 2,19 2,51 2,84	0,90 1,11 1,34 1,58 1,84 2,10 2,39	0,54 0,68 0,82 0,96 1,12 1,28 1,45	0,42 0,51 0,62 0,73 0,85 0,98 1,11

For multiple strand ratings – Refer mutiple strand factor multiplier on page. For requirements at faster speeds, or sprocket sizes contact SKF Table 10a

Table 10b

50 -1 (:	10A-1);	(15.875	mm Pit	ch) Pow	er ratings	s in kilo	watt (AN	ISI stand	lard)								
No of teeth	Pitch circle Dia.	rpm of	f small (i	faster) s	procket z	1											
Z	mm	10	25	50	100	140	200	300	500	700	900	1 200	1 500	1 800	2 100	2 500	3 000
13 15 17 19 21 23 25	66,34 76,35 86,39 96,45 106,51 116,59 126,66	0,17	0,23 0,27 0,31 0,34 0,38 0,41 0,45	0,46 0,52 0,60 0,66 0,73 0,81 0,87	0,89 1,02 1,16 1,29 1,43 1,57 1,70	1,22 1,41 1,60 1,78 1,98 2,16 2,35	1,72 1,98 2,25 2,51 2,78 3,04 3,31	2,54 2,93 3,32 3,72 4,10 4,49 4,89	4,15 4,78 5,42 6,06 6,70 7,33 7,97	5,73 6,61 7,49 8,37 9,25 10,13 11,02	7,29 8,41 9,53 10,65 11,78 12,90 14,02	9,61 11,09 12,57 14,05 15,52 17,00 18,48	7,03 8,71 10,50 12,41 14,43 16,53 18,73	5,34 6,62 7,99 9,44 10,97 12,58 14,26	4,24 5,26 6,34 7,50 8,71 9,98 11,31	3,27 4,04 4,89 5,77 6,71 7,68 8,71	2,48 3,08 3,72 4,39 5,10 5,85 6,62
Lubrica metho	rication TYPE 1 hod										TYPE	2					TYPE 3

60-1 (12A-1); (19.05 mm Pitch) Power ratings in kilowatt (ANSI standard)

No of teeth	Pitch circle Dia.	rpm of	f small (i	faster) s	procket z	1											
Z	mm	10	25	50	100	120	200	400	600	800	1 000	1 200	1 400	1 800	2 000	2 500	3 000
13 15 17 19 21 23 25	79,60 91,62 103,67 115,74 127,82 139,90 151,99	0,25 0,27 0,30	0,40 0,46 0,52 0,59 0,65 0,71 0,78	0,78 0,90 1,02 1,14 1,26 1,38 1,50	1,52 1,75 1,98 2,22 2,45 2,69 2,92	1,81 2,09 2,36 2,65 2,92 3,20 3,48	2,95 3,41 3,86 4,32 4,77 5,23 5,68	5,75 6,64 7,52 8,41 9,30 10,18 11,06	7,12 8,22 9,32 10,41 11,51 12,61 13,70	11,19 12,91 14,64 16,35 18,08 19,80 21,52	13,86 15,99 18,13 20,26 22,39 24,53 26,66	11,36 14,08 16,99 20,07 23,32 26,74 30,30	9,01 11,18 13,48 15,93 18,51 21,22 24,04	6,18 7,66 9,25 10,93 12,70 14,55 16,49	5,28 6,54 7,89 9,33 10,84 12,43 14,08	3,77 4,68 7,89 9,33 10,84 12,43 14,08	2,87 3,56 5,65 6,68 7,76 8,89 10,08
Lubrica metho	prication TYPE 1 thod							ΤY	'PE 2					ΤY	'PE 3		

																	Table 10f
60H-1	; (19.05	mm Pit	ch) Pow	er rating	s in kilo	watt (AN	ISI stan	lard)									
No of teeth	Pitch circle Dia.	rpm of	f small (†	faster) s	procket	z ₁											
Z	mm	10	25	50	90	100	200	400	600	800	1 000	1 200	1 400	1 800	2 000	2 500	3 000
13	79,60	0,19	0,46	0,90	1,59	1,75	3,42	6,64	9,80	12,92		11,36	9,01	6,18	5,28	3,77	2,87
15		0,22	0,54	1,04	1,83	2,02	3,94	7,66	11,31	14,91	18,47	14,08	11,18	7,66	6,54	4,68	3,56
17 19	103,67 115,74		0,60 0,68	1,18 1,32	2,07 2,32	2,30 2,57	4,47 4,99	8,68 9.71	12,82 14.33	16,90 18.89	20,93 23.39	16,99 20.07	13,48 15,93	9,25 10.93	7,89 9.33	5,65 6,68	4,30 5,08
21	127,82		0,08	1,32	2,52	2,87	4,99 5,51	10.73	15.84	20.87	25,86	23,32	18.51	15.15	10.84	7.76	5,08
23	139,90		0,82	1,60	2,80	3,10	6,04	11,75	17,34	22,86	28,33	26,74	21,22	14,55	12,43	8,89	6,77
25	151,99	0,37	0,90	1,74	3,05	3,37	6,56	12,77	18,85	24,85	30,79	30,30	24,04	16,49	14,08	10,08	7,66
Lubric metho			TYPE	1			T	YPE 2						TYPE	3		

For multiple strand ratings – Refer mutiple strand factor multiplier on page. For requirements at faster speeds, or sprocket sizes contact SKF

В

Table 10d

Table 10e

80-1 (:	16A-1); (25.4 m	m Pitch)	Power	ratings i	n kilowa	tt (ANSI	standar	d)								
No of teeth	Pitch circle Dia.	rpm of	f small (f	aster) s	procket :	Z 1											
Z	mm	10	25	50	75	100	300	500	700	900	1 200	1 400	1 600	1 800	2 000	2 500	3 000
13 15 17 19 21 23 25	106,14 122,17 138,23 154,32 170,42 186,54 202,66	0,45 0,51 0,57 0,63 0,69	0,94 1,08 1,22 1,37 1,51 1,66 1,81	1,83 2,10 2,39 2,66 2,95 3,23 3,51	2,69 3,10 3,52 3,94 4,35 4,77 5,18	3,55 4,10 4,64 5,18 5,74 6,28 6,83	10,19 11,76 13,32 14,89 16,46 18,03 19,60	19,82 19,20 21,76 24,32 26,88 29,44 32,00	22,98 26,52 30,06 33,59 37,13 40,66 44,20	22,01 27,29 32,92 38,90 45,20 51,76 56,26	14,30 17,72 21,38 25,27 29,36 33,65 38,14	11,35 14,06 16,97 20,05 23,30 26,71 30,27	9,29 11,51 13,89 16,41 19,07 21,86 24,77	7,78 9,65 11,64 13,76 15,98 18,31 20,76	6,65 8,24 9,94 11,74 13,64 15,64 17,72	4,75 5,89 7,11 8,40 9,77 11,19 6,09	3,62 4,48 5,41
Lubrica metho		T	/PE 1			T١	/PE 2						ΤY	′PE 3			

80H-1; (25.4 mm Pitch) Power ratings in kilowatt (ANSI standard)

No of teeth	Pitch circle Dia.	rpm of	f small (f	aster) s	procket :	z ₁											
Z	mm	10	25	50	70	100	300	500	700	900	1 200	1 400	1 600	1 800	2 000	2 500	3 000
13 15 17 19 21 23 25	106,14 122,17 138,23 154,32 170,42 186,54 202,66	0,50 0,57 0,63 0,70 0,77	1,04 1,21 1,37 1,53 1,69 1,85 2,01	2,04 2,35 2,66 2,98 3,29 3,60 3,92	2,81 3,25 3,69 4,12 4,55 4,98 5,42	3,96 4,57 5,18 5,80 6,41 7,01 7,62	11,38 13,14 14,88 16,64 18,39 20,14 21,90	18,59 21,45 24,31 27,17 30,03 32,89 35,75	25,68 29,62 33,58 37,52 41,48 45,42 49,38	22,01 27,29 32,92 38,90 45,20 51,81 58,71	14,30 17,72 21,38 25,27 29,36 33,65 38,14	11,35 14,06 16,97 20,05 23,30 26,71 30,27	9,29 11,51 13,89 16,41 19,07 21,86 24,77	7,78 9,65 11,64 13,76 15,98 18,31 20,76	6,65 8,24 9,94 11,74 13,64 15,64 17,72	4,75 5,89 7,11 8,40	3,62 4,48 5,41
Lubric metho		Υ	YPE 1			Υ	YPE 2						T١	/PE 3			

																	Table 10i
100-1	(20A-1)	; (31.75	mm Pit	ch) Powe	er rating	ıs in kilov	watt (AN	SI stand	lard)								
No of teeth	Pitch circle Dia.	rpm of	f small (f	faster) sp	orocket	z ₁											
Z	mm	10	25	50	71	100	150	200	400	600	800	1 000	1 200	1 400	1 600	1 800	2 000
13 15	132,67 152,71		1,80 2,07	3,49 4,04	4,89 5,65	6,80 7,84	10,03 11.58	13,23 15.26	25,72 29.68	37,96 43.81	31,41 38.93	22,47 27.85	17,10 21.19	13,56 16.81	11,10 13.76	9,30 11,53	7,94 9,85
17	172,79	0,98	2,35	4,57	6,40	8,89	13,12	17,29	33,64	49,65	46,96	33,61	25,57	20,28	16,61	13,91	11,88
19 21	192,90 213,03		2,63 2,90	5,11 5,65	7,15 7,91	9,94 10,98	14,67 16,21	19,33 21,37	37,60 41,56	55,49 61,33	55,49 64,48	39,70 46,14	30,21 35,10	23,97 27,85	19,62 22,80	16,44 19,11	14,04 16,32
23 25	233,17 253,32		3,18 3,45	6,18 6,72	8,65 9,41	12,03 13,07	17,75 19,29	23,39 25,43	45,51 49,47	67,17 73,01	73,91 83,75	52,88 59,93	40,23 45,59	31,92 36,17	26,13 29,61	21,90 24,81	18,69 0,00
Lubrica metho			TYPE	1			ΤY	/PE 2						TYPE	3		

For multiple strand ratings – Refer mutiple strand factor multiplier on page. For requirements at faster speeds, or sprocket sizes contact SKF Table 10g

Table 10h

100H-	1; (31.7	5 mm P	itch) Pov	ver rating	gs in kil	owatt (A	NSI stan	dard)									
No of teeth	Pitch circle Dia.	rpm of	f small (f	faster) sp	orocket	z ₁											
Z	mm	10	25	50	58	100	200	300	400	500	600	700	800	900	1 000	1 200	1 800
13 15 17 19 21 23 25	132,67 152,71 172,79 192,90 213,03 233,17 253,32	0,94 1,07 1,19 1,32 1,45	1,97 2,27 2,57 2,88 3,18 3,48 3,78	3,83 4,42 5,01 5,60 6,18 6,77 7,36	4,42 5,10 5,77 6,45 7,13 7,81 8,49	7,45 8,59 9,74 10,88 12,03 13,17 14,32	14,49 16,72 18,94 21,17 23,40 25,63 27,86	21,38 24,67 27,96 31,25 34,54 37,83 41,12	28,18 32,52 36,85 41,19 45,52 49,86 54,20	34,91 40,28 45,66 51,03 56,40 61,77 67,14	41,59 47,99 54,39 60,78 67,18 73,59 79,99	38,37 47,56 57,37 67,80 77,90 85,32 92,74	31,41 38,93 46,96 55,49 64,48 73,91 83,75	26,32 32,62 39,36 46,51 54,03 61,93 70,19	22,47 27,85 33,61 39,70 46,14 52,88 59,93	17,10 21,19 25,57 30,21 35,10 40,23 45,59	9,30 11,53 13,91 16,44 19,11 21,90 22,14
Lubrica metho			TYPE	1			ΤY	'PE 2						TYPE 3	3		

120-1 (24A-1); (38.10 mm Pitch) Power ratings in kilowatt (ANSI standard)

No of Pitch teeth circle Dia.	rpm of	small (fa	aster) sp	orocket z	41											
Z mm	10	25	50	75	100	150	200	300	400	500	600	700	800	900	1 000	1 200
13 159,20 15 183,25 17 207,35 19 231,48 21 255,63 23 279,80 25 303,99 Lubrication Lubrication	1,45 1,65 1,84 2,04 2,23 2,42	3,04 3,50 3,97 4,43 4,90 5,36 5,83 (PE 1	5,90 6,81 7,76 8,62 9,53 10,44 11,35	8,71 10,05 11,39 12,73 14,07 15,40 16,75	11,48 13,25 15,01 16,78 18,55 20,31 22,07	16,94 19,55 22,16 24,76 27,37 29,97 32,58	22,33 25,77 29,20 32,64 36,08 39,51 42,95	32,96 38,03 43,10 48,17 53,24 58,31 63,38	43,44 50,12 56,81 63,49 70,18 76,85 83,54	53,82 62,10 70,38 78,66 86,94 95,22 103,50		104,47	96,91	30,45 37,74 45,54 53,81 62,52 71,66 81,21 PE 3	26,00 32,23 38,88 45,94 53,38 61,19 69,34	19,78 24,51 29,58 34,95 40,61 46,54 52,75

120H- No of teeth	1; (38.10 Pitch circle Dia.			ver ratin faster) sp	-		NSI stan	dard)									Table 1
Z	mm	10	25	50	75	100	150	200	300	400	500	600	700	800	900	1 000	1 200
13 15 17 19 21 23 25	159,20 183,25 207,35 231,48 255,63 279,80 303,99	1,57 1,78 1,98 2,19 2,40	3,27 3,78 4,28 4,79 5,29 5,80 6,30	6,37 7,36 8,33 9,32 10,29 11,28 12,26	9,41 10,85 12,30 13,75 15,20 16,64 18,09	12,40 14,31 16,21 18,12 20,03 21,94 23,84	18,30 21,11 23,93 26,74 29,56 32,38 35,19	24,12 27,83 31,54 35,26 38,96 42,67 46,39	35,60 41,07 46,55 52,03 57,50 62,98 68,46	46,92 54,14 53,90 68,58 75,79 83,01 90,24		55,94 69,34 83,66 98,85 111,86 122,52 133,17	104,47	/ -	30,45 37,74 45,54 53,81 62,52 71,66 81,21	26,00 32,23 38,88 45,94 53,38 61,19 69,34	19,78 24,51 29,58 34,95 40,61 46,54 52,75
Lubrica metho		T	/PE 1				ΤY	PE 2						ΤY	'PE 3		

For multiple strand ratings – Refer mutiple strand factor multiplier on page. For requirements at faster speeds, or sprocket sizes contact SKF

5KF

В

Table 10k

140-1	(28A-1);	(44.45	mm Pito	h) Powe	er rating:	s in kilov	vatt (AN	SI stand	ard)								
No of teeth	Pitch circle Dia.	rpm of	f small (fá	aster) sı	procket z	1											
Z	mm	5	10	25	50	75	100	150	200	300	400	500	600	700	800	900	1 000
13 15 17 19 21 23 25	185,74 213,79 241,91 270,06 298,24 326,44 354,65	1,16 1,31 1,46 1,62 1,77	1,95 2,25 2,54 2,85 3,15 3,45 3,74	4,69 5,42 6,14 6,86 7,58 8,30 9,03	9,13 10,53 11,94 13,35 14,75 16,15 17,56	13,47 15,55 17,62 14,11 21,77 23,84 25,92	17,76 20,49 23,22 19,69 28,69 31,45 34,16	26,21 30,24 34,28 25,96 42,34 46,38 50,41	34,55 39,87 45,19 38,31 55,82 61,13 66,45	51,00 58,84 66,68 50,50 82,37 90,22 98,06	118,91	83,19 96,08 108,89 98,23 134,51 147,32 160,14	121,70 129,93 148,86	118,19	84,39 96,73	34,45 42,69 51,51 60,87 70,73 81,07 91,87	29,41 36,46 43,98 51,97 60,39 69,21 78,44
Lubrica metho		T١	/PE 1					TYPE	2						TYPE 3	;	

140H-1; (44.45 mm Pitch) Power ratings in kilowatt (ANSI standard)

No of teeth	Pitch circle Dia.	rpm of	small (fa	aster) sj	procket z	21											
Z	mm	5	10	25	50	75	100	150	200	300	400	500	600	700	800	900	1 000
13 15 17 19 21 23 25	185,74 213,79 241,91 270,06 298,24 326,44 354,65	1,24 1,40 1,57 1,73 1,89	2,08 2,40 2,72 3,04 3,36 3,69 4,01	5,02 5,79 6,56 7,33 8,11 8,88 9,65	9,76 11,26 12,76 14,26 15,77 17,27 18,77	14,41 16,62 18,84 21,05 23,28 25,49 27,71	18,99 21,91 24,83 27,75 30,68 33,59 36,52	28,03 32,34 36,65 40,96 45,27 49,58 53,89	36,94 42,62 48,30 53,99 59,67 65,35 71,03		82,91 93,97	143,81 157,50	94,64 111,82 129,93 148,93	103,11 118,19	96,73	34,45 42,69 51,51 60,87 70,73 81,07 91,87	29,41 36,46 43,98 51,97 60,39 69,21 78,44
	ubrication TYPE 1 nethod						ΤY	'PE 2						ΤY	PE 3		

																٦	Table 10o
160-1	(32A-1);	(50.80	mm Pito	:h) Powe	r rating	s in kilov	vatt (AN	SI stand	ard)								
No of teeth	Pitch circle Dia.	rpm of	small (fa	aster) sp	orocket z	41											
Z	mm	5	10	25	50	75	100	150	200	300	400	500	600	700	800	900	1 000
		4.45	0.00		10.05	10.55			50.40	70.00	07.54	00.57	70.40				00.70
13 15	212,27 244.33		2,83 3.26	6,81 7.86	13,25 15.29	19,55 22.56	25,77 29,74	38,03 43.88	50,12 57.84	73,98 85.36	97,51 112.51	. ,	70,42 87.28	55,88 69.27	45,74 56.69	38,33 47.51	32,73 40.57
17	276,46		3,69	8,91	17,32	25,57	33,70	49,73	65,55	96,74	127,51	/	/ -	,	68,40	57,32	48,95
19 21	308,64 340,84	, -	4,13 4,57	9,95 11.00	19,36 21.40	28,57 31.58	37,66 41.63	55,58 61.43	73,26 80.97	, .	142,52 157.52				80,81 93 91	67,73 78.70	57,83 67.19
23	373,07	2,57	5,00	12,05	23,44	34,58	45,59	67,28	88,68	130,89	172,52	213,74	165,72	131,51	107,64	90,21	77,02
25	405,32	2,79	5,43	13,09	25,48	37,60	49,56	73,14	96,40	142,27	187,52	232,32	187,80	149,03	121,98	102,22	87,28
Lubrica metho		ΤY	'PE 1				ΤY	PE 2						ΤY	PE 3		

For multiple strand ratings – Refer mutiple strand factor multiplier on page. For requirements at faster speeds, or sprocket sizes contact SKF Table 10m

Table 10n

160H-	160H-1; (50.80 mm Pitch) Power ratings in kilowatt (ANSI standard)																
No of teeth	Pitch circle Dia.	rpm of	small (fa	aster) sp	orocket z	1											
Z	mm	5	10	25	50	75	100	150	200	300	400	500	600	700	800	900	1000
13 15 17 19 21 23 25	212,27 244,33 276,46 308,64 340,84 373,07 405,32	1,78 2,01 2,25 2,49 2,72	3,00 3,46 3,92 4,38 4,84 5,30 5,77	7,22 8,33 9,44 10,56 11,67 12,78 13,89	14,05 16,21 18,37 20,54 22,69 24,86 27,02	20,74 23,92 27,12 30,31 33,50 36,69 39,87	27,33 31,53 35,74 39,95 44,15 48,36 52,56	40,34 46,54 52,75 58,96 65,16 71,37 77,58	/	90,54 102,61 114,69 126,76 138,83	103,43 119,35 135,26 151,17 167,08 182,99 198,91	114,73 138,43 163,56 190,06 217,85	105,31 124,43 144,58 165,72	98,74 114,73 131,51	107,64	,	32,73 40,57 48,95 57,83 67,19 77,02 87,28
Lubrica metho		T١	/PE 1				ΤY	PE 2				TYPE 3					

180-1 (36A-1); (57.15 mm Pitch) Power ratings in kilowatt (ANSI standard)

No of teeth	Pitch circle Dia.	rpm of	^f small (f	aster) s	procket z	1											
Z	mm	2	5	10	25	43	50	75	100	150	200	300	400	500	600	700	800
13 15 17 19 21 23 25	238,81 274,88 311,02 347,22 383,45 419,71 455,98	0,96 1,09 1,22 1,34 1,47	2,01 2,31 2,63 2,93 3,24 3,55 3,86	3,90 4,50 5,10 5,70 6,30 6,90 7,50	9,40 10,85 12,29 13,74 15,19 16,64 18,08	15,82 18,26 20,69 23,13 25,57 28,00 30,43	18,29 21,10 23,92 26,74 29,55 32,36 35,17	27,00 31,15 35,30 39,41 43,60 47,76 51,91	35,58 41,05 46,53 52,00 57,48 62,95 68,42	60,59 68,67 76,75 84,83 92,91	79,87 90,51 101,16 111,81 122,46	117,87 133,59 149,30 165,02 180,73	196,79 217,50 238,22	126,07 152,11 179,73 208,84 239,37	,	108,50 126,07 144,50	103,19 118,27
	Lubrication method		T١	/PE1					ΤY	PE 2					TY	PE 3	

																٦	Table 10r
180H-:	180H-1; (57.15 mm Pitch) Power ratings in kilowatt (ANSI standard)																
No of teeth	Pitch circle Dia.	rpm of	small (fa	aster) sp	procket z	1											
Z	mm	2	5	10	25	37	50	75	100	150	200	300	400	500	600	700	800
13 15 17 19 21 23 25	238,81 274,88 311,02 347,22 383,45 419,71 455,98	1,01 1,15 1,28 1,42 1,55	2,11 2,44 2,79 3,09 3,42 3,74 4,07	4,11 4,74 5,38 6,01 6,64 7,27 7,91	9,91 11,44 12,96 14,49 16,01 17,53 19,06	14,44 16,58 18,88 21,10 23,33 25,55 27,77	19,28 22,25 25,21 28,18 31,15 34,11 37,08	28,45 32,83 37,21 41,59 45,97 50,34 54,72	37,51 43,28 49,04 54,82 60,58 66,36 72,12	63,87 72,38 80,90 89,42 97,93	84,19 95,41 106,63 117,86 129,08	107,68 124,25 140,81 157,38 173,94 190,51 207,07	163,76 185,60 207,43 229,27 251,10	126,07 152,11 179,73 208,84 239,37	95,91 115,71 136,72 158,87 182,10	108,50 126,07 144,50	103,19 118,27
	Lubrication TYPE 1 method							TYPE 2	2					TYPE 3			

For multiple strand ratings – Refer multiple strand factor multiplier on page. For requirements at faster speeds, or sprocket sizes contact SKF

5KF

В

Table 10q

200-1	200-1 (40A-1); (63.5 mm Pitch) Power ratings in kilowatt (ANSI standard)																
No of teeth	Pitch circle Dia.	rpm of	small (f	aster) sp	rocket z	1											
Z	mm	2	5	10	25	40	50	75	100	150	200	250	300	400	500	600	700
13 15 17 19	265,34 305,42 345,58 385,79	1,28 1,45	2,66 3,07 3,48 3,89	5,18 5,98 6,77 7,57	12,48 14,41 16,32 18,25	19,60 22,62 25,63 28,65	24,28 28,02 31,76 35,49	35,84 41,35 46,87 52,38	47,24 54,51 61,78 69,04	80,45 91,18	106,04 120,17	131,36 148,88	135,63 156,50 177,36 198,23	191,68 231,27	137,16 165,49	104,34 125,89	99,90
21 23 25	426,05 466,34 506,65	1,95	4,30 4,71 5,12	8,37 9,16 9,96	20,16 22,09 24,01	31,67 34,68 37,70	39,23 42,96 46,70	57,90 63,41 68,92	76,31 83,58 90,85	, .	163,34	201,43	239,96	316,28	260,42	198,11	,
	Lubrication TYPE 1 method								TYPE 2	2					ΤY	PE 3	

Table 10t

Table 10s

200H-1; (63.5 mm Pitch) Power ratings in kilowatt (ANSI standard)

No of teeth	Pitch circle Dia.	rpm of	f small (1	faster) sp	orocket z	41											
Z	mm	2	5	10	25	33	50	75	100	150	200	250	300	400	500	600	700
13 15 17 19 21 23 25	265,34 305,42 345,58 385,79 426,05 466,34 506,65	1,40 1,58 1,77 1,95 2,14	2,92 3,36 3,81 4,26 4,71 5,16 5,61	5,68 6,55 7,42 8,30 9,17 10,04 10,91	13,67 15,78 17,88 19,99 22,09 24,19 26,30	17,85 20,60 23,34 26,09 28,84 31,59 34,33	26,60 30,70 34,79 38,88 42,97 47,07 51,16	39,26 45,30 51,34 57,38 63,42 69,46 75,50	51,75 59,71 67,67 75,64 83,60 91,56 99,52	111,62 123,37	116,16 131,65 147,13 162,62 178,11	201,47 220,66	171,43 194,29 217,15 240,00 262,86	191,68 231,27 273,26 317,53 346,47	137,16 165,49 195,53 227,20 260,42	104,34 125,89 148,74 172,84 198,11	99,90 118,04 137,16 157,21
Lubrica metho			TYPE	1					TYPE	2					ΤY	PE 3	

Table 10u

240-1 (48A-1); (76.2 mm Pitch) Power ratings in kilowatt (ANSI standard)

Z mm 2 5 10 25 36 50 75 100 150 200 250 300 400 500 60 13 318,41 1,78 4,29 8,34 20,10 28,53 39,11 57,73 76,08 112,30 148,01 183,37 218,44 178,94 128,04 97 15 366,50 2,05 4,95 9,62 23,20 32,92 45,13 66,60 87,79 129,57 170,78 211,58 252,05 221,79 158,70 11 17 414,69 2,33 5,61 10,91 26,29 37,31 51,15 75,49 99,49 146,84 193,55 239,79 285,66 267,59 191,47 14 19 462,96 2,60 6,27 12,19 29,38 41,70 57,17 84,37 111,20 164,12 216,33 268,00 319,27 316,17 226,23 11 21 511,26 2,87 6,93 13,48 32,48 46,10 63,18 93,25 122,91 <td< th=""><th>No of teeth</th><th>Pitch circle Dia.</th><th>rpm of</th><th>^rsmall (f</th><th>aster) sp</th><th>orocket z</th><th>1</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	No of teeth	Pitch circle Dia.	rpm of	^r small (f	aster) sp	orocket z	1											
15 366,50 2,05 4,95 9,62 23,20 32,92 45,13 66,60 87,79 129,57 170,78 211,58 252,05 221,79 158,70 12 17 414,69 2,33 5,61 10,91 26,29 37,31 51,15 75,49 99,49 146,84 193,55 239,79 285,66 267,59 191,47 14 19 462,96 2,60 6,27 12,19 29,38 41,70 57,17 84,37 111,20 164,12 216,33 268,00 319,27 316,17 226,23 1 21 511,26 2,87 6,93 13,48 32,48 46,10 63,18 93,25 122,91 181,40 239,09 296,21 352,87 367,39 262,88 14 23 599,61 3,15 7,59 14,76 35,57 50,48 69,20 102,13 134,62 124,07 261,86 324,42 386,48 421,10 301,32 23 <th>Z</th> <th>mm</th> <th>2</th> <th>5</th> <th>10</th> <th>25</th> <th>36</th> <th>50</th> <th>75</th> <th>100</th> <th>150</th> <th>200</th> <th>250</th> <th>300</th> <th>400</th> <th>500</th> <th>600</th> <th>700</th>	Z	mm	2	5	10	25	36	50	75	100	150	200	250	300	400	500	600	700
Lubrication TYPE 1 TYPE 2 TYPE	15 17 19 21 23 25	366,50 414,69 462,96 511,26 599,61 607,98	2,05 2,33 2,60 2,87 3,15	4,95 5,61 6,27 6,93 7,59 8,25	9,62 10,91 12,19 13,48 14,76 16,05	23,20 26,29 29,38 32,48 35,57	32,92 37,31 41,70 46,10 50,48	45,13 51,15 57,17 63,18 69,20	66,60 75,49 84,37 93,25 102,13	87,79 99,49 111,20 122,91 134,62 146,32	129,57 146,84 164,12 181,40 124,07 215,94	170,78 193,55 216,33 239,09 261,86	211,58 239,79 268,00 296,21 324,42	252,05 285,66 319,27 352,87 386,48	221,79 267,59 316,17 367,39 421,10	158,70 191,47 226,23 262,88 301,32 341,46	120,73 145,66 172,10 199,98 229,22 259,76	115,59 136,58 158,70 181,90

For multiple strand ratings – Refer mutiple strand factor multiplier on page. For requirements at faster speeds, or sprocket sizes contact SKF

240H-	240H-1; (76.2 mm Pitch) Power ratings in kilowatt (ANSI standard)																
No of teeth	Pitch circle Dia.	rpm of	f small (f	faster) sp	procket z	1											
Z	mm	2	5	10	25	27	50	75	100	150	200	250	300	400	500	600	700
13 15 17 19 21 23 25	318,41 366,50 414,69 462,96 511,26 599,61 607,98	2,37 2,69 3,01 3,32 3,63	4,95 5,71 6,48 7,24 8,00 8,76 9,53	9,63 11,12 12,60 14,08 15,56 17,05 18,52	23,22 26,79 30,36 33,93 37,50 41,07 44,65	25,00 28,84 32,69 36,53 40,38 44,22 48,07	45,16 52,11 59,06 66,01 72,96 79,90 86,85	76,91 87,16 97,42 107,67	101,37 114,89 128,41 141,92 155,44	149,61 169,56 189,51 209,46 229,41	197,21 223,49 249,79 276,08 302,38	342,03 374,61	291,04 329,85 368,66 407,46 446,26	221,79 267,59 316,17 367,39 421,10	158,70 191,47 226,23 262,88 301,32	120,73 145,66 172,10 199,98 229,22	115,59 136,58 158,70 181,90
Lubrica metho			T١	/PE1					TYPE 2	2					TYPE 3	}	

Table 10v

В

For multiple strand ratings – Refer multiple strand factor multiplier on page. For requirements at faster speeds, or sprocket sizes contact SKF

Basic Selection procedure

The following are the basic procedures, based on the above guidelines and stated parameters, for the correct selection of a standard transmission chains

- Establish the power (P_M) in kw for BS/DIN chains, or HP for ANSI series, to be transmitted. If the actual demand power is indeterminable, use the motor / prime-mover nameplate power.
- From Tables 2.1 and 2.2 select the relevant Service Factors for (a) the application (F_a) and (b) the speed (F_n) also considering all aspects of the additional factors detailed in the table footnote.
- Multiply the power by the Service Factor(s)... This will give the Design power (P_d)... the basis for selection

 $P_D = P_M \times F_a \times F_n$ (kW or HP)

• Confirm the ratio of the sprockets required to obtain the final (driven) speed, by dividing the faster speed by the low rpm.

Sprocket ratio (i) = $\frac{\text{Faster speed N}_1}{\text{Faster speed N}_2} = \frac{Z_2}{Z_2}$

• Select sprockets (Z₁ and Z₂) that will meet the ratio requirements.

As a general rule

- start with the smaller sprocket (Z₁) being 19T.
- If the ratio is close to 1:1, try to use a larger number of teeth.
- For the benefit of even wear, use odd number of teeth on at least one of the sprockets.
- Avoid even numbers on both sprockets if possible.
- From either the BS / DIN (kW) Tables (→ pages 15–18) or the ANSI (kW) (→ pages 19–26) select a chain that has sufficient or greater capacity than the figure calculated in 6.3 above.
 NOTE: This selection is based on the faster sprocket speed (N₁)
- Check the pitch diameters of the sprockets selected, either from the SKF PT General Catalogue PUB PT 11015 EN (→ pages 163–236), or from the following formulae:

$$D_p = Sin \left(\frac{180}{z}\right)^{-1}xp$$

Where:

- D_p Pitch Diameter
- p chain pitch

z No. of sprocket teeth

Use either mm, or inch for BOTH measurements (mm or inch)

- If the diameter is too large, consider a smaller pitch chain in multiple strands. For multiple strand chains, the power capacities shown in the Power Ratings tables MUST be re-adjusted by the factors shown in **Table 6, page 13** above.
- Calculate the actual chain length (L) ensuring the shaft centres are between 30 and 80 pitches in length. Where possible the total chain length, including the complete number of pitches, including the connector id=s an even number, to avoid the use of an offset link (non-preferred).
- A check should also be made of the hub capacity to accept the required finished bore. Refer SKF PT General Catalogue PUB PT 11015 EN (→ pages 163–236).

В

Special considerations

- If the chain is operating outside the -10 °C to +150 °C temperature range, the power rating values obtained in either (6.5) or (6.7) above, the power ratings obtained from the Power Ratings Tables, must be re-adjusted according to the factors shown in table 3, page 11.
- For materials other than the standard chains, (e.g. 300 and 400 class stainless steel) refer to SKF PTP for ratings).
- Refer to the INSTALLATION & MAINTENANCE instructions for guidelines on correct layouts, installation procedures, and lubrication types and recommendations

Example

A chain drive is required for the final stage on a conveyor drive, from the out shaft of the gear reducer (57 rpm) to the conveyor head shaft 32 rpm). The electric motor power is 7.5 kW. The loading is light duty, with the shaft centre adjustable to suit. Shaft diameters are 65 mm and 55 mm respectively, with no space restrictions

Step 1: Establish the Service Factor for the application

From **table 1, page 10** the Service Factor for the duty given (uniform) is 1.0

Step 2: Calculate the Design Power (DP)

DP = 1.0 x 7.5 = 7.5kW

Step 3: Establish the ratio for the sprocket and select suitable teeth numbers

$$i = \frac{57}{32} = 1.78:1$$

Step 4: Make tentative selection of sprockets based on the ratio calculated in step 3

17T – 30T,

(most economical, but also $19T - 34T^*$ and 21T - 38T give an acceptable ratio (*however the 34T is non standard size and should be avoided)

Step 5: Check the ratings table (BS/DIN) based on 17T @ 57rpm

If necessary consider multi strand chains, using the the Multiple Strand Factor (K2) to correct the chain capacity.

- 5(i) From the Power Ratings Tables for DIN/BS chain on pages 15–18, it can be seen that for a 17 Tooth sprocket at 57rpm, for 24B-1,
- , by interpolation, has a capacity of

$$kW = 9.61 + \left[\frac{13.54 - 9.61}{25} \times 7\right]$$

= 10.71 kW

5(ii) (NOTE: By using a Duplex chain 20B-2, a smaller drive is possible, with a capacity of 9.26 kW... (including the Multiple Strand Factor K2 of 1.7, as shown in **table 6, page 13**, still with sufficient capacity for the application).

Step 6: Check sprocket Diameters and bore capacities either by calculation ...

$$D_p = Sin \left(\frac{180}{z}\right)^{-1} \times p$$

Where:

D_p Pitch Diameter (mm or inch)

Z No. of Sprocket Teeth

P Chain pitch (mm or inch)

or referring to SKF PT General Catalogue 11015 EN (II), page 173

PHS 24B-1BH17	Dp	Ø207,35 mm
PHS 24B-1B30	Dp	Ø364,49 mm
Alternatively,		
PHS 20-2BH17	Dp	Ø172,79 mm

Note the smaller sprockets (17T) above are both offerred with hardened teeth, as standard, indicated by the "H" in the designation

Step 7

Calculate the chain length.

The centres should be between 30 and 80 pitches for good life.

Use the formulae in (7) above.

$$L = \frac{Z_2 + Z_1}{2} + 2C + \frac{K}{C}$$

This calculates the length in pitches so the actual chain length (even in number preferably, to avoid the use of offset inks) will determined by the actual chain pitch chosen

NOTE: If the above example was operating at a temperature above 150 °C, the Power ratings would have to be re-rated, by a factor of 0,75, resulting in the 20B-2 no longer being an option.

Additionally, the 24B chain originally selected would need to changed to a DUPLEX e.g. 24B-2. (The sprocket diameters will remain the same).

If we take the centre at (say) 40 pitches...

$$L = \frac{30 + 17}{2} + 80 + \frac{4.28}{40}$$

= 103.6 pitches∴ Use 104 pitches including connector

(i) 104 pitches (3,962.4mm) PHC 24B-1...
(ii) 104 pitches (3,303,0mm) PHC 20B-2...

The option of the 20B-2 offers a more compact and cost effective solution in this instance.

1 1 off PHS 20B-2BH17

2 1 off PHS 20B-2B30

3 3,303 mm PHC 20B-2... including the connector

Sprockets are available with pilot bore, finished bore (upon request), or with the option of a Taper bush, in most sizes. The option of friction-locking assemblies (SKF FX bushings) is also available on request.

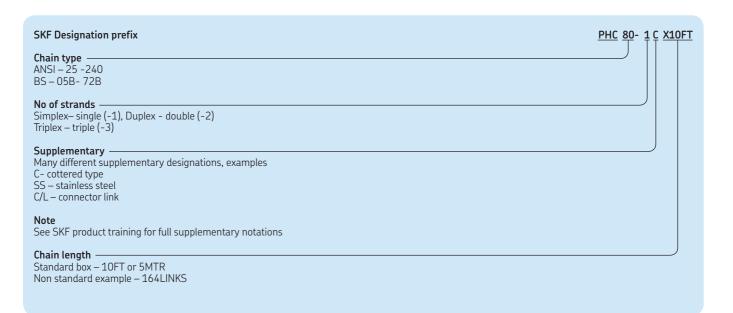
NOTE: This chain is usually available in either 10ft OR 5MTR boxes only. Each box contains one (1) connector.

SKF chains

SKF chain range nomenclature has a defined prefix of PHC. All standardized chains we produce conform to conventional basic part number format – ISO, BS, or DIN.

Roller chains

The Roller chains designation format is constant through the range, with the following example to indicate set up.

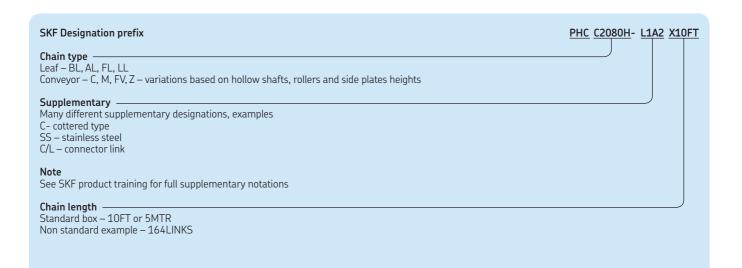


SKF chains

SKF chain range nomenclature has a defined prefix of PHC. All standardized chains we produce conform to conventional basic part number format – ISO, BS, or DIN.

Special chains - Leaf, Conveyor

The special and conveyor chains designation format is constant through the range, but there are very many combinations of materials, attachments and special considerations, the following is an example to indicate set up.



Chains (PHC Product Group)

SKF chains completely conform to international standards (ISO) and other advanced industrial standards (i.e. ANSI and DIN) as shown below:

- Short pitch transmission precision roller chains are manufactured according to ISO 606- 1994, ASME B29.1M-1993 and DIN 8187/DIN 8188
- Double pitch precision roller chains for transmission and conveyors are manufactured according to ISO 1275-1995, ASME B29.3M-1994/AMSE B29.4M-1994 and DIN 8181-2000
- Short pitch transmission precision bush chains are manufactured according to ISO 1395-1997, ASME B29.12M-1997 and DIN 8154/DIN 8164
- Steel roller chains/attachments (types S and C) are manufactured according to ISO 487-1998, ASME B29.19M-1996 and DIN 8169-1997
- Conveyor chains/attachments are manufactured according to ISO 1977-2000, ASME B29.15M-1997 and DIN 8165/ DIN 8166/DIN 8167
- Heavy duty cranked link transmission chains are manufactured according to ISO 3512, ASME B29.10M-1997 and DIN 8182 Leaf chains are manufactured according to ISO 4347-1992, ASME B29.8M-1983 and DIN 8152
- Silent chains are manufactured according to ASME B29.2M-1982 and DIN 8190
- Oil field chains are manufactured according to API SPEC 7F-1993
- Hollow pin chains are manufactured according to ASME B29.27M-2001 and DIN 8168

Depending and the type and style, SKF conveyor chains comply with international standards such as DIN 8187, ISO 1977 and BS 4116 (Part IV).

Other cast and steel chains comply with the relevant industry accepted standards for performance and dimensions.

For the full range of SKF Conveyor Chains, please refer to SKF Conveyor Chain catalogue (**PUB PT/P2 10818 EN, Edition 2**).

For the full range of available sprockets please refer to SKF Power Transmission Products catalogue (**11015 EN, Edition 2, pages 161** to **236**).

This catalogue covers small pitch (SP) transmission drive chains, agricultural chains, SP attachment chain and a limited range of their attachments, where applicable.

For the full range of Long Pitch (LP) series conveyor, elevator and Engineered Steel chains, and attachments, please refer to **SKF PT catalogue PUB PT/P2 10818 EN**.



Typical materials used in the chain construction

Side Plate	45Mn, 40Cr, 35CrMo, Premium carbon steel no. 45
Roller	Premium carbon steel no. 10, Premium carbon steel no. 45
Bush	20Mn Premium carbon steel no. 20
Pin	35CrMo, GCr15, 30CrMnTi, 40Cr, 20CrMnMo

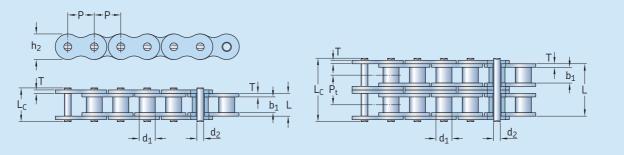
SKF American standard chains

American standard chains are covered by ISO 606, ANSI B29.1 and DIN 8188 standards.

The pitch sizes covered by this standard are 1/4 to 3 inch. American standard chains have a smaller pin diameter than the European standard equivalent. Wear resistance is therefore reduced when compared with the European standard chains. One exception is the 5/8 inch pitch, as in this case the pin and bushing diameters are larger than the European equivalent.

American standard chains are normally referred to under the ANSI standard numbering system, for example a 1/2 inch pitch duplex (double strand) chain would be ANSI 40-2.

The ANSI numbering system works as follows: The first number is the pitch size in 1/8 inch, i.e. 4/8 = 1/2 inch pitch. The second number refers to the chain being a roller chain, i.e. 0 = roller chain. A number 5 replacing the 0 would indicate a bushing chain and number 1 indicates a narrower series. The suffix, as with European standard chain, refers to the number of strands in the chain, that is in this case 2 = duplex (double strand) chain. American Standard chains



ANSI Chain number	BS/ISO Chain number	Dimensi Pitch	ons Roller diam- eter	Width between inner plates	Pin diam- eter	Pin leng	Pin length F le c L max L _C max L		Inner plate height	Plate thick- ness	Trans- verse pitch	tensile	Average tensile strength	per	Designation
		Ρ	d ₁ max	b ₁ max	d ₂ max	L max	L _C max	L _C max	h ₂ max	T max	P_{t}	Q min	Q ₀	q	
-	-	mm										kN		kg/m	-
15-1* 25-1* 35-1* 41-1 40-1 50-1 80-1 100-1 120-1 140-1 160-1 180-1 200-1 240-1	03C* 04C-1* 085-1 08A-1 10A-1 12A-1 16A-1 24A-1 24A-1 28A-1 32A-1 36A-1 40A-1 48A-1	4,7625 6,350 9,525 12,700 12,700 15,875 19,050 25,400 31,750 38,100 44,450 50,800 57,150 63,500 76,200	2,48 3,30 5,08 7,77 7,95 10,16 11,91 15,88 19,05 22,23 25,40 28,58 35,71 39,68 47,63	2,38 3,18 4,77 6,25 7,85 9,40 12,57 15,75 18,90 25,22 25,22 31,55 35,48 37,85 47,35	1,62 2,31 3,58 3,58 5,94 7,92 9,53 11,10 12,70 14,27 17,46 19,85 23,81	6,1 7,90 12,40 13,75 16,60 20,70 25,90 32,70 40,40 50,30 54,40 64,80 72,80 80,30 95,50	6,9 8,40 13,17 15,00 22,20 27,70 35,00 44,70 54,30 59,00 69,60 78,60 87,20 103,00	- 23,30 28,30 36,50 44,70 54,30 59,00 69,60 78,60 87,20 103,00	4,3 6,00 9,90 12,00 15,09 18,00 24,00 30,00 35,70 41,00 41,00 53,60 60,00 72,39	0,6 0,80 1,30 1,30 2,03 2,42 3,25 4,00 4,80 5,60 6,40 7,20 8,00 9,50		1,8 3,5 7,9 6,7 14,1 22,2 31,8 56,7 88,5 127,0 172,4 226,8 280,2 353,8 510,3	2 4,6 10,8 12,6 17,5 29,4 41,5 69,4 109,2 156,3 212,0 278,9 341,8 431,6 622,5	0,08 0,13 0,41 0,62 1,02 1,50 2,60 3,91 5,62 7,50 10,10 13,45 16,15 23,20	PHC 15-1 PHC 25-1 PHC 35-1 PHC 41-1 PHC 40-1 PHC 60-1 PHC 80-1 PHC 100-1 PHC 120-1 PHC 140-1 PHC 140-1 PHC 180-1 PHC 200-1 PHC 240-1
25-2* 35-2* 41-2 50-2 60-2 80-2 100-2 120-2 140-2 160-2 180-2 200-2 240-2	04C-2* 06C-2* 08A-2 10A-2 12A-2 16A-2 20A-2 24A-2 28A-2 32A-2 36A-2 40A-2 48A-2	6,350 9,525 12,700 12,700 15,875 19,050 25,400 31,750 38,100 44,450 50,800 57,150 63,500 76,200	3,30 5,08 7,77 7,95 10,16 11,91 15,88 19,05 22,23 25,40 28,58 35,71 39,68 47,63	3,18 4,77 6,25 7,85 9,40 12,57 15,75 18,90 25,22 25,22 31,55 35,48 37,85 47,35	2,31 3,58 3,58 5,08 5,94 7,92 9,53 11,10 12,70 14,27 17,46 19,85 23,81	14,5 22,5 25,7 31,0 38,9 48,8 62,7 76,4 95,8 103,3 123,3 138,6 151,9 183,4	15,0 23,3 26,9 32,2 40,4 50,5 64,3 80,5 99,7 107,9 107,9 128,1 144,4 158,8 190,8	- - - 51,1 65,8 80,5 99,7 107,9 128,1 144,4 158,8 190,8	6,00 9,00 9,91 12,00 15,09 18,00 24,00 30,00 35,70 41,00 41,00 53,60 60,00 72,39	0,80 1,30 1,50 2,03 2,42 3,25 4,00 4,80 5,60 6,40 7,20 8,00 9,50	6,40 10,13 11,95 14,38 18,11 22,78 29,29 35,76 45,44 48,87 58,55 65,84 71,55 87,83	7,0 15,8 13,3 28,2 44,4 63,6 113,4 177,0 254,0 344,8 453,6 560,5 707,6 1020,6	8,6 19,7 16,9 35,9 58,1 82,1 141,8 219,4 314,9 427,5 562,4 695,0 877,4 1255,3	0,28 0,63 0,81 1,12 2,00 2,92 5,15 7,80 11,70 15,14 20,14 29,22 32,24 45,23	PHC 25-2 PHC 35-2 PHC 41-2 PHC 40-2 PHC 60-2 PHC 80-2 PHC 100-2 PHC 120-2 PHC 140-2 PHC 160-2 PHC 180-2 PHC 180-2 PHC 200-2 PHC 240-2
25-3* 35-3* 40-3 50-3 60-3 100-3 120-3 140-3 160-3 180-3 200-3 240-3	04C-3* 06C-3* 08A-3 10A-3 12A-3 16A-3 20A-3 24A-3 28A-3 32A-3 36A-3 40A-3 48A-3	9,525 12,700 15,875 19,050 25,400 31,750 38,100 44,450 50,800 57,150 63,500	3,30 5,08 7,95 10,16 11,91 15,88 19,05 22,23 25,40 28,58 35,71 39,68 47,63	3,18 4,77 7,85 9,40 12,57 15,75 18,90 25,22 25,22 31,55 35,48 37,85 47,35	2,31 3,58 3,96 5,08 5,94 7,92 9,53 11,10 12,70 14,27 17,46 19,85 23,81	21,0 32,7 45,4 57,0 71,5 91,7 112,2 141,4 152,2 181,8 204,4 223,5 271,3	21,5 33,5 46,6 58,5 73,3 93,6 116,3 145,2 156,8 186,6 210,2 230,4 278,6	- 59,3 73,9 95,1 116,3 145,2 156,8 186,6 210,2 230,4 278,6	6,00 9,00 12,00 15,09 18,00 24,00 30,00 35,70 41,00 47,80 53,60 60,00 72,39	0,80 1,30 2,03 2,42 3,25 4,00 4,80 5,60 6,40 7,20 8,00 9,50	6,40 10,13 14,38 18,11 22,78 29,29 35,76 45,44 48,87 58,55 65,84 71,55 87,83	10,5 23,7 42,3 66,6 95,4 170,1 265,5 381,0 517,2 680,4 840,7 1061,4 1530,9	12,6 28,6 50,0 77,8 111,1 198,4 309,6 437,2 593,3 780,6 983,6 1217,8 1756,5	0,44 1,05 1,90 3,09 4,54 7,89 11,77 17,53 22,20 30,02 38,22 49,03 71,60	PHC 25-3 PHC 35-3 PHC 40-3 PHC 60-3 PHC 80-3 PHC 100-3 PHC 120-3 PHC 140-3 PHC 140-3 PHC 180-3 PHC 200-3 PHC 240-3

* Bushing chain: d1 indicates external diameter of bushing. Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of 140-1 is PHC 140-1X10FT. For links, add "C/L" for "connecting" and "O/L" for "offset" to the designation. For cottered, add a "C" after the number of strands. For example, 140-1 with a cottered pin is designated PHC 140-1C.

SKF BS European standard chains

Chains manufactured to the BS standards are covered by ISO606, BS228 and DIN 8187.

The pitch sizes covered by this standard are 6 mm (0,236 inch) to 114,3 mm (4,500 inch). They are characterised by a larger pin diameter than the ANSI chain. This results in better wear resistance due to a larger load bearing area.

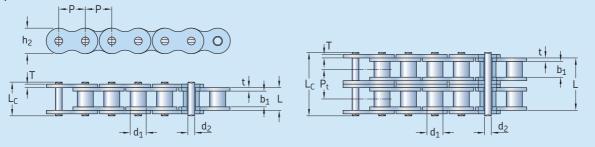
The BS chain numbering system works as follows, i.e. 1/2 inch pitch duplex (double strand) chain would be 08B-2. The first two digits are the pitch size in 1/16 of an inch, therefore 08 = 8/16 or 1/2 inch. The letter B indicates the European standard.

The suffix 2 indicates the number of strands in the chain, in this case a duplex (double strand) chain.

BS chains resemble ASME/ANSI standard chains and are identical in pitch, however, there are other significant dimensional differences which distinguish them from ASME/ANSI standard chains.



BS European standard chains



BS/ISO Chain number	Dimensi Pitch	Roller	Width between inner plates	Pin diameter	Pin lengt	h	lnner plate height	Plate thic	ckness	Trans- verse pitch	tensile	e Average tensile strength	per	Designation
	Р	d ₁ max	$b_1 \min$	d ₂ max	L max	L _C max	h ₂ max	t max	T max	Pt	Q min	Q ₀	q	
_	mm										kN		kg/m	_
04B-1 05B-1 06B-1* 08B-1 12B-1 12B-1 24B-1 24B-1 32B-1 32B-1 40B-1 48B-1 56B-1 64B-1 72B-1	6,000 8,000 9,525 12,700 15,875 19,050 25,400 31,750 38,100 44,450 63,500 76,200 88,900 101,600 114,300		2,80 3,00 5,72 7,75 9,65 11,68 17,02 19,56 25,40 30,99 30,99 38,10 45,72 53,34 60,96 68,58	1,85 2,31 3,28 4,45 5,08 5,72 8,28 10,19 14,63 15,90 17,81 22,89 29,24 34,32 39,40 44,48	6,80 8,20 13,15 16,70 19,50 22,50 36,10 41,30 53,40 65,10 66,00 82,20 99,10 114,60 130,000 147,40	7,8 8,9 14,1 18,2 20,9 24,2 37,4 45,0 57,8 69,5 71,0 89,2 107,0 123,0 138,5 156,4	5,00 7,10 8,20 11,80 14,70 21,00 26,40 33,20 36,70 42,00 52,96 63,80 77,80 90,17 103,60	0.60 0.80 1.30 1.60 1.70 1.85 4.15 4.50 6.00 7.50 7.50 7.00 8,50 12,00 13,50 15,00 17,00	0,60 0,80 1,30 1,60 1,70 1,85 3,10 3,50 4,80 6,00 6,00 8,00 10,00 12,00 13,00 15,00		3,0 5,0 9,0 18,0 22,4 29,0 60,0 95,0 160,0 250,0 355,0 560,0 850,0 1120,0 1400,0	3,2 5,9 10,4 19,4 27,5 32,2 72,8 106,7 178,0 222,0 277,5 394,0 621,6 940,0 1240,0 1550,0	0,11 0,20 0,41 0,69 1,15 2,71 3,70 7,10 8,50 10,25 16,35 25,00 35,78 46,00 60,80	PHC 04B-1 PHC 05B-1 PHC 08B-1 PHC 10B-1 PHC 12B-1 PHC 12B-1 PHC 20B-1 PHC 24B-1 PHC 24B-1 PHC 28B-1 PHC 42B-1 PHC 42B-1 PHC 42B-1 PHC 56B-1 PHC 64B-1 PHC 72B-1
05B-2 06B-2* 08B-2 10B-2 12B-2 20B-2 24B-2 24B-2 32B-2 40B-2 48B-2 56B-2 64B-2 72B-2	8,000 9,525 12,700 15,875 19,050 25,400 31,750 38,100 44,450 50,800 63,500 76,200 88,900 101,60 114,30	5,00 6,35 8,51 10,16 12,07 15,88 19,05 25,40 27,94 29,21 39,37 48,26 53,98 63,50 72,39	3,00 5,72 7,75 9,65 11,68 17,02 19,56 25,40 30,99 30,99 30,99 38,10 45,72 53,34 60,96 68,58	2,31 3,28 4,45 5,08 5,72 8,28 10,19 14,63 15,90 17,81 22,89 29,24 34,32 39,40 44,48	13,9 23,4 31,2 36,1 42,0 68,0 77,8 101,7 124,6 124,6 154,5 190,4 221,2 249,9 283,7	14,5 24,4 32,2 37,5 43,6 69,3 81,5 106,2 129,1 129,6 161,5 198,2 229,6 258,4 292,7	7,10 8,20 11,80 14,70 21,00 26,40 33,20 36,70 42,00 52,96 63,80 77,80 90,17 103,60	0,80 1,30 1,60 1,70 1,85 4,15 4,50 6,00 7,50 7,00 8,50 12,00 13,50 15,00 17,00	0,80 1,30 1,60 1,70 1,85 3,10 3,50 4,80 6,00 6,00 8,00 10,00 12,00 13,00 15,00	5,64 10,24 13,92 16,59 19,46 31,88 36,45 48,36 59,56 58,55 72,29 91,21 106,6 119,89 136,27	7,8 16,9 32,0 44,5 57,8 106,0 170,0 280,0 360,0 450,0 630,0 1000,0 1600,0 2000,0 2500,0	10,2 18,7 38,7 56,2 66,1 133,0 211,2 319,2 406,8 508,5 711,9 1130,0 1760,0 2200,0 2750,0	0,33 0,77 1,34 1,84 2,31 5,42 7,20 13,40 16,60 21,00 32,00 50,00 71,48 91,00 120,40	PHC 05B-2 PHC 06B-2 PHC 10B-2 PHC 10B-2 PHC 12B-2 PHC 12B-2 PHC 20B-2 PHC 24B-2 PHC 24B-2 PHC 32B-2 PHC 32B-2 PHC 40B-2 PHC 56B-2 PHC 64B-2 PHC 72B-2
05B-3 06B-3* 08B-3 10B-3 12B-3 16B-3 20B-3 24B-3 28B-3 32B-3 40B-3 448B-3 56B-3 56B-3 72B-3 * Straights	12,700 15,875 19,050 25,400 31,750 38,100 44,450 50,800 63,500 76,200 88,900 101,60 114,30		3,00 5,72 7,75 9,65 11,68 17,02 19,56 25,40 30,99 30,99 38,10 45,72 53,34 60,96 68,58	2,31 3,28 4,45 5,08 5,72 8,28 10,19 14,63 15,90 17,81 22,89 29,24 34,32 39,40 44,48	19,5 33,5 45,1 52,7 61,5 99,8 114,2 150,1 184,2 183,2 226,8 281,6 327,8 369,8 420,0	20,2 34,6 46,1 54,1 101,2 117,9 154,6 188,7 188,2 233,8 289,4 336,2 378,3 429,0	7,10 8,20 11,80 14,70 21,00 26,40 33,20 36,70 42,00 52,96 63,80 77,80 90,17 103,60	0,80 1,30 1,60 1,70 1,85 4,15 4,50 6,00 7,50 7,50 7,00 8,50 12,00 13,50 15,00 17,00	0,80 1,30 1,60 1,70 1,85 3,10 3,50 4,80 6,00 6,00 8,00 10,00 12,00 13,00 15,00	5,64 10,24 13,92 16,59 19,46 31,88 36,45 48,36 59,56 58,55 72,29 91,21 106,6 119,89 136,27	11,1 24,9 47,5 66,7 160,0 250,0 425,0 530,0 670,0 950,0 1500,0 2240,0 3000,0 3750,0	1710,0 2240,0 3300,0	20,10 24,92 31,56 48,10 75,00 107,18 136,00	PHC 05B-3 PHC 06B-3 PHC 08B-3 PHC 10B-3 PHC 12B-3 PHC 16B-3 PHC 24B-3 PHC 24B-3 PHC 24B-3 PHC 32B-3 PHC 40B-3 PHC 40B-3 PHC 56B-3 PHC 56B-3 PHC 72B-3

* Straight side plates. Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of 08B-1 is PHC 08B-1X5MTR. For links, add "C/L" for "connecting" and "0/L" for "offset" to the designation.

SKF Xtra Corrosion Resistant Chains

Stainless steel chains

Stainless steel chains have superior corrosion resistance for the most demanding applications. SKF offers a variety of such chains for applications where a high level of cleanliness is required or harsh chemicals are used. SKF stainless steel chains are made from SS304 grade steel for high corrosion resistance and are available in BS and ANSI standards. SS316 and other stainless steel grades are available for higher temperature applications. The SS316 stainless steel is somewhat more resistant to the effects of magnetic permeability, temperature extremes and harsher chemicals.

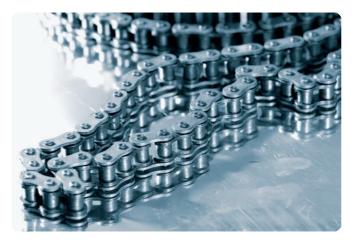
Application

These chains are suitable for food processing, pharmaceutical, high/ low temp (-20 to 400 °C) and corrosive environments.

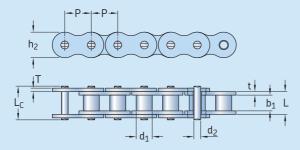
Stainless steel chains can be manufactured to withstand temperatures up to 1 000 °C with the addition of special lubricant.

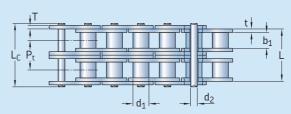


Stainless steel chains used in a cheese processing plant



Anti corrosive chains are either made of stainless steel or are covered with a special coating





Chain number	Dimensio Pitch	ns Roller diameter	Width between inner plates	Pin diameter	Pin lengt	h	lnner plate height	Plate thi	ckness	Ultimate tensile strength	Weight per meter	Designation
	Р	$d_1 \max$	$b_1 \min$	d ₂ max	Lmax	L _C max	h ₂ max	t max	T max	Q min	q	
_	mm									kN	kg/m	
25-1551 35-1551 40-155 41-155 50-155 80-155 80-155 100-155 120-155 140-155	9,525 12,700 12,700 15,875 19,050 25,400 31,750 38,100	3,30 5,08 7,95 7,77 10,16 11,91 15,88 19,05 22,23 25,40	3,18 4,77 7,85 6,25 9,40 12,57 15,75 18,90 25,22 25,22	2,31 3,58 3,96 3,58 5,08 5,94 7,92 9,53 11,10 12,70	7,90 12,40 16,60 13,75 20,70 25,90 32,70 40,40 50,30 54,40	8,40 13,17 17,80 15,00 22,20 27,70 35,00 44,70 54,30 59,00	6,00 9,00 12,00 9,91 15,09 18,00 24,00 30,00 35,70 41,00	0,80 1,30 1,50 2,03 2,42 3,25 4,00 4,80 5,60	0,80 1,30 1,50 1,30 2,03 2,42 3,25 4,00 4,80 5,60	2,5 5,5 9,6 6,0 15,2 21,7 38,9 60,0 72,5 94,0	0,15 0,33 0,63 0,46 1,03 1,51 2,62 3,94 5,72 7,70	PHC 25-1SS PHC 35-1SS PHC 40-1SS PHC 41-1SS PHC 50-1SS PHC 60-1SS PHC 80-1SS PHC 100-1SS PHC 120-1SS PHC 140-1SS
04B-1SS 05B-1SS 06B-1SS 08B-1SS 10B-1SS 12B-1SS 16B-1SS 20B-1SS 24B-1SS 32B-1SS	8,000 29,525 12,700 15,875 19,050 25,400 31,750 38,100	4,00 5,00 6,35 8,51 10,16 12,07 15,88 19,05 25,40 29,21	2,80 3,00 5,72 7,75 9,65 11,68 17,02 19,56 25,40 30,99	1,85 2,31 3,28 4,45 5,08 5,72 8,28 10,19 14,63 17,81	6,80 8,20 13,15 16,70 19,50 22,50 36,10 41,30 53,40 66,00	7,80 8,90 14,10 18,20 20,90 24,20 37,40 45,00 57,80 71,00	5,00 7,10 8,20 11,80 14,70 16,00 21,00 26,40 33,20 42,00	0,60 0,80 1,30 1,60 1,70 1,85 4,15 4,50 6,00 7,00	0,60 0,80 1,30 1,60 1,70 1,85 3,10 3,50 4,80 6,00	2,0 3,5 6,2 12,0 14,5 18,5 40,0 59,0 104,0 150,0	0,11 0,20 0,41 0,70 0,94 1,16 2,73 3,73 7,20 10,22	PHC 04B-1SS PHC 05B-1SS PHC 06B-1SS PHC 08B-1SS PHC 10B-1SS PHC 12B-1SS PHC 16B-1SS PHC 20B-1SS PHC 24B-1SS PHC 32B-1SS

Bushing chain: d₁ indicates external diameter of bushing.
 Straight side plates.
 Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of 80-1SS is PHC 80-1SSX5MTR. For links, add "C/L" for "connecting" and "0/L" for "offset" to the designation.

Nickel-plated

Nickel-plated roller chains combine the strength of standard roller chains with the corrosion resistant properties that come from the nickel-plating. Nickel-plating of all components prior to assembly promotes uniform coverage during the plating process.

Application

Nickel-plated chains are not suitable in applications that may involve contact with food.



Nickel-plated chains used in a canning plant

Zinc-plated

Zinc-plated roller chains provide a very good adherence of the plating to the base metal and combines the strength of standard roller chains with the corrosion resistance that comes from zinc-plating. Zinc-plating of all components prior to assembly promotes uniform coverage during the plating process. Zinc-plating is more cost-effective than nickel-plating.

Application

Zinc-plated chains are typically used in outdoor applications and where there is exposure to sea/salt water environments.



Zinc-plated chains used in automatic car washes

Dacrotized chains

Dacrotizing is a process of metal coating. The compositions are proprietary water based coating dispersions containing metal oxides, metallic zinc and aluminium flakes. The zinc and aluminium platelets align themselves in multiple layers forming a metallic silver gray coating. Overlapping zinc and aluminium flakes provide an excellent protective barrier and the zinc corrodes to protect the steel. Due to the concentration of aluminum within the coating, the result is good bi-metallic corrosion resistance. Damaged areas in the coating will fill with zinc oxides and carbonates, thus repairing itself. The dacrotizing process can be applied to numerous types of chains. For additional information, contact SKF.

Application

These chains are suitable for extremely corrosive environments without loss of strength.

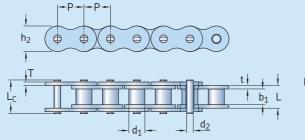


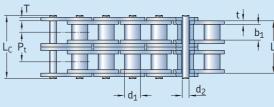
Dacrotized chains used in a fish processing plant

		Table 2
Plated chains are ava	ilable as:	
Zinc-plated	A cost-effective way to increase corrosion resistance	
Nickel-plated	Improved wear resistance Recommended for outdoor conditions, such as exposure to rain	
Dacrotized	Suitable for corrosive conditions	

Please refer to pages **85** to **87** for further details on corrosion resistant chains.

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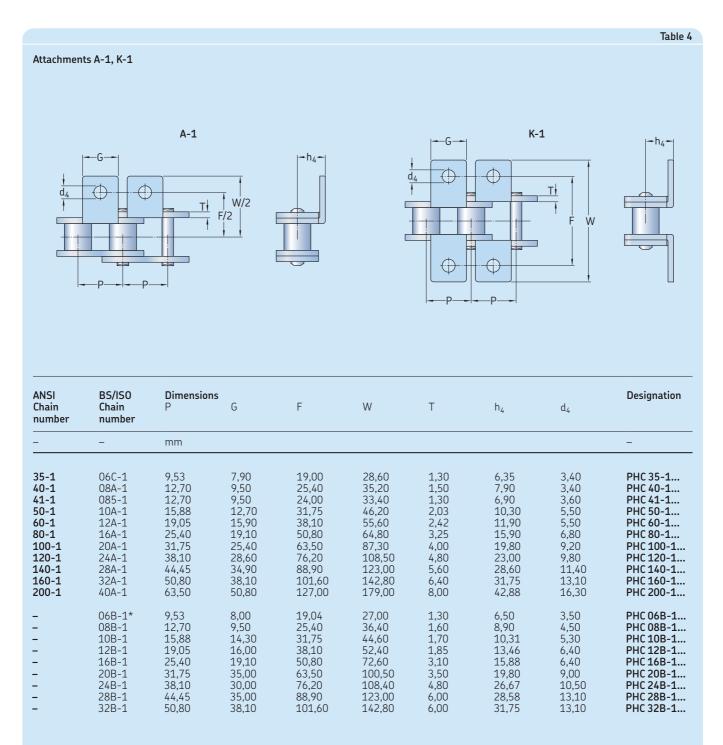


Chain number	Dimensi Pitch	ons Roller diameter	Width between inner plates	Pin diameter	Pin lengt	h	lnner plate height	Plate thi	ckness	Ultimate tensile strength	Weight per meter	Designation
	Ρ	$d_1 \max$	$b_1 \min$	d ₂ max	Lmax	L _C max	h ₂ max	t max	T max	Q min	q	
_	mm									kN	kg/m	_
25-11 35-11 41-1 50-1 60-1 80-1 100-1 120-1 140-1 160-1	6,350 9,525 12,700 15,875 19,050 25,400 31,750 38,100 44,450 50,800	3,30 5,08 7,77 7,95 10,16 11,91 15,88 19,05 22,23 25,40 28,58	3,18 4,77 6,25 7,85 9,40 12,57 15,75 18,90 25,22 25,22 31,55	2,31 3,58 3,58 3,96 5,08 5,94 7,92 9,53 11,10 12,70 14,27	7,90 12,40 13,75 16,60 20,70 25,90 32,70 40,40 50,30 54,40 64,80	8,40 13,17 15,00 17,80 22,20 27,70 35,00 44,70 54,30 59,00 69,60	6,00 9,00 9,91 12,00 15,09 18,00 24,00 30,00 35,70 41,00 47,80	0,80 1,30 1,50 2,03 2,42 3,25 4,00 4,80 5,60 6,40	0,80 1,30 1,50 2,03 2,42 3,25 4,00 4,80 5,60 6,40	3,5 7,9 6,7 14,1 22,2 31,8 56,7 88,5 127,0 172,4 226,8	0,15 0,33 0,41 0,62 1,02 1,50 2,60 3,91 5,62 7,50 10,10	PHC 25-1 PHC 35-1 PHC 41-1 PHC 50-1 PHC 60-1 PHC 80-1 PHC 100-1 PHC 120-1 PHC 120-1 PHC 140-1 PHC 160-1
04B-1 05B-1 06B-1 ² 08B-1 10B-1 12B-1 16B-1 20B-1 24B-1 24B-1 28B-1 32B-1	6,000 8,000 9,525 12,700 15,875 19,050 25,400 31,750 38,100 44,450 50,800	4,00 5,00 6,35 8,51 10,16 12,07 15,88 19,05 25,40 27,94 29,21	2,80 3,00 5,72 7,75 9,65 11,68 17,02 19,56 25,40 30,99 30,99	1,85 2,31 3,28 4,45 5,08 5,72 8,28 10,19 14,63 15,90 17,81	6,80 8,20 13,15 16,70 19,50 22,50 36,10 41,30 53,40 65,10 66,00	7,80 8,90 14,10 20,90 24,20 37,40 45,00 57,80 69,50 71,00	5,00 7,10 8,20 11,80 14,70 16,00 21,00 26,40 33,20 36,70 42,00	0,60 0,80 1,30 1,60 1,70 1,85 4,15 4,50 6,00 7,50 7,00	0,60 0,80 1,30 1,60 1,70 1,85 3,10 3,50 4,80 6,00 6,00	3,0 5,0 9,0 18,0 22,4 60,0 95,0 95,0 160,0 200,0 250,0	0,11 0,20 0,41 0,69 0,93 1,15 2,71 3,70 7,10 8,50 10,25	PHC 04B-1 PHC 05B-1 PHC 06B-1 PHC 08B-1 PHC 10B-1 PHC 12B-1 PHC 12B-1 PHC 16B-1 PHC 20B-1 PHC 24B-1 PHC 28B-1 PHC 32B-1

¹ Bushing chain: d1 indicates external diameter of bushings.
 ² Straight side plates.
 Note: Duplex and double pitch plated chains are available in all sizes.
 When ordering plated chains, add a suffix to the Chain number. according to material selection;
 For example: PHC 50-1DR... 50-1 ANSI Simplex Dacrotized chain PHC 60-2NP... 60-2 ANSI Duplex Nickel-plated chain PHC 10B-12P... 10B-1 BS/ISO Simplex Zinc-plated chain
 Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of 12B-1DR is PHC 12B-1DRX10FT.
 For links, add "C/L" for "connecting" and "0/L" for "offset" to the designation.

Attachments

Attachments are normally used to allow a chain to perform a conveying function. The holes in the attachments are used to join two strands of chain together to allow them to run as a pair. Hooks can also be inserted through the holes to allow the chain to carry objects. These attachments can also assist control systems by activating magnetic pickup or proximity switches.

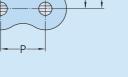


* Straight side plates

To complete designation, add attachment spacing and type followed by chain length. For example: PHC 40-1-L2AIX10FT (ANSI 40-1 with A-1 attachment on every second link, 10 ft. length).

Note: Also available in stainless steel. Wh For example: PHC 40-1SS-L1A1X10FT. s steel. When ordering, add SS after the chain number.

Table 5



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SK-1/M1

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ANSI Chain number	BS/ISO Chain number	Dimensions P	G	С	F	Т	d ₄	Designation
_	_	mm						_
35-1 40-1 41-1 50-1 60-1 80-1 100-1 120-1 140-1 160-1 200-1	06C-1 08A-1 085-1 10A-1 12A-1 16A-1 20A-1 24A-1 24A-1 32A-1 32A-1 40A-1	9,53 12,70 12,70 15,88 19,05 25,40 31,75 38,10 44,45 50,80 63,50	7,90 9,50 9,50 12,70 15,90 19,10 25,40 28,60 34,90 38,10 50,80	9,50 12,70 11,85 15,90 18,30 24,60 31,80 36,50 44,50 50,80 63,50	14,55 19,05 16,55 25,25 29,33 34,70 43,30 51,60 62,00 69,85 88,90	1,30 1,50 1,30 2,03 2,42 3,25 4,00 4,80 5,60 6,40 8,00	3,40 3,40 3,60 5,50 6,80 9,20 9,80 11,40 13,10 16,30	PHC 35-1 PHC 40-1 PHC 41-1 PHC 50-1 PHC 80-1 PHC 100-1 PHC 100-1 PHC 120-1 PHC 140-1 PHC 160-1 PHC 200-1
	06B-1* 08B-1 10B-1 12B-1 16B-1 20B-1	9,53 12,70 15,88 19,05 25,40 31,75	8,00 9,50 14,30 16,00 19,10 35,00	9,52 13,35 16,50 21,45 23,15 30,50	13,50 18,90 22,95 28,60 34,00 45,70	1,30 1,60 1,70 1,85 3,10 3,50	3,50 4,30 5,30 6,40 6,40 9,00	PHC 06B-1 PHC 08B-1 PHC 10B-1 PHC 12B-1 PHC 12B-1 PHC 20B-1

* Straight side plates. To complete designation, add attachment spacing and type followed by chain length. For example: PHC 80-1-L1SK1X10FT (ANSI 80-1 with SK-1 attachment on every link, 10 ft. length). Note: Also available in stainless steel. When ordering add SS after the chain number. For example: PHC 80-1SS-L1SK1X10FT.

Attachments SA-1/M1, SK-1/M1

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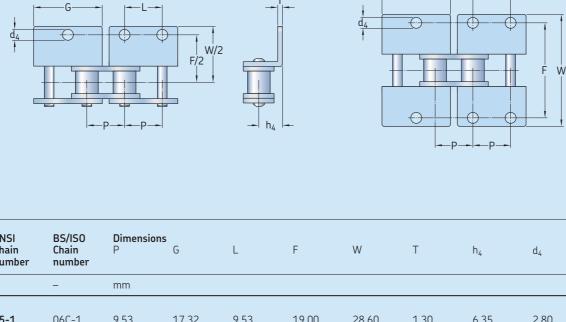
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SA-1/M1

Т

F

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ANSI Chain number	BS/ISO Chain number	Dimensions P	G	L	F	W	Т	h ₄	d ₄	Designation
-	_	mm								-
35-1 40-1 41-1 50-1 60-1 80-1 100-1 120-1 140-1 160-1 200-1	06C-1 08A-1 085-1 10A-1 12A-1 16A-1 20A-1 24A-1 24A-1 28A-1 32A-1 40A-1	9,53 12,70 15,88 19,05 25,40 31,75 38,10 44,45 50,80 63,50	17,32 23,00 22,30 28,80 34,65 45,90 57,65 69,30 80,45 92,00 115,50	9,53 12,70 15,88 19,05 25,40 31,75 38,10 44,45 50,80 63,50	19,00 25,40 24,00 31,75 38,10 50,80 63,50 76,20 88,90 101,60 127,00	28,60 35,60 35,00 46,80 56,40 73,20 89,80 108,80 123,00 142,80 179,00	1,30 1,50 1,30 2,03 2,42 3,25 4,00 4,80 5,60 6,40 8,00	6,35 7,90 7,20 10,30 11,90 15,90 19,80 23,00 28,60 31,75 42,88	2,80 3,40 4,85 5,50 6,80 9,20 9,80 11,40 13,10 16,30	PHC 35-1 PHC 40-1 PHC 41-1 PHC 50-1 PHC 60-1 PHC 100-1 PHC 120-1 PHC 140-1 PHC 140-1 PHC 160-1 PHC 200-1
	08B-1 10B-1 12B-1 16B-1 20B-1 24B-1 28B-1 32B-1	12,70 15,88 19,05 25,40 31,75 38,10 44,45 50,80	24,00 29,58 34,05 46,40 58,10 71,30 81,10 92,80	12,70 15,88 19,05 25,40 31,75 38,10 44,45 50,80	25,40 31,80 38,10 50,80 63,00 76,20 88,90 101,60	36,40 44,60 52,00 72,60 100,50 108,40 123,00 142,80	1,60 1,70 1,85 3,10 3,50 4,80 6,00 6,00	8,90 10,31 13,46 15,88 19,80 26,67 28,58 31,75	4,30 5,30 6,40 6,40 9,00 10,50 13,10 13,10	PHC 08B-1 PHC 10B-1 PHC 12B-1 PHC 16B-1 PHC 20B-1 PHC 24B-1 PHC 28B-1 PHC 32B-1

To complete designation, add attachment spacing and type followed by chain length. For example: PHC 80-1–L2WA2X10FT (ANSI 80-1 with WA-2 attachment on every second link, 10 ft. (length). Note: Also available in stainless steel. When ordering add SS after the chain number. For example: PHC 80-1SS-L2WA2X10FT.

Attachments WA-1, WA-2, WK-1, WK-2

WA-2

-1 -

WA-1

Table 6

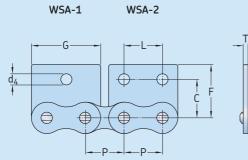
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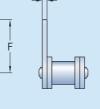
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WK-2

WK-1 -G

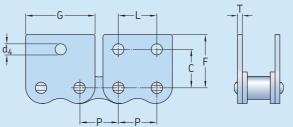
Attachments WSA-1, WSA-2, WSK-1, WSK-2











ANSI Chain number	BS/ISO Chain number	Dimensions P	G	L	С	F	Т	d ₄	Designation
-	-	mm							-
35-1 40-1 41-1 50-1 60-1 80-1 100-1 120-1 140-1 160-1 200-1	06C-1 08A-1 085-1 10A-1 12A-1 16A-1 20A-1 24A-1 28A-1 32A-1 32A-1 40A-1	9,53 12,70 12,70 15,88 19,05 25,40 31,75 38,10 44,45 50,80 63,50	17,32 23,00 21,20 28,80 34,65 45,90 57,65 69,30 80,45 92,00 115,50	9,53 12,70 15,88 19,05 25,40 31,75 38,10 44,45 50,80 63,50	9,50 12,70 11,85 15,90 18,30 24,60 31,80 36,50 44,50 50,80 63,50	$\begin{array}{c} 14,55\\ 17,40\\ 16,55\\ 23,05\\ 26,86\\ 35,45\\ 44,00\\ 51,60\\ 62,00\\ 69,85\\ 88,90\end{array}$	1,30 1,50 2,03 2,42 3,25 4,00 4,80 5,60 6,40 8,00	2,80 3,40 5,50 5,50 6,80 9,20 9,80 11,40 13,10 16,30	PHC 35-1 PHC 40-1 PHC 41-1 PHC 50-1 PHC 60-1 PHC 80-1 PHC 100-1 PHC 120-1 PHC 140-1 PHC 160-1 PHC 200-1
	08B-1 10B-1 12B-1 16B-1 20B-1	12,70 15,88 19,05 25,40 31,75	23,30 29,58 34,05 46,40 58,10	12,70 15,88 19,05 25,40 31,75	13,35 16,50 21,45 23,15 30,50	18,90 22,95 28,60 34,00 45,70	1,60 1,70 1,85 3,10 3,50	4,30 5,30 6,40 6,40 9,00	PHC 08B-1 PHC 10B-1 PHC 12B-1 PHC 16B-1 PHC 20B-1

To complete designation, add attachment spacing and type followed by chain length. For example: PHC 80-1-L4WSA1X10FT (ANSI 80-1 with WSA-1 attachment on every fourth link, 10 ft. (length). Note: Also available in stainless steel. When ordering add SS after the chain number. For example: PHC 80-1SS L4WSA1X10FT.

Table 7

SKF Xtra Strength Chains

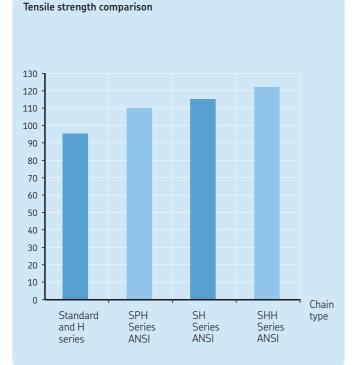
Using tensile strength as the measure of a quality chain does not always provide a complete picture. While tensile strength is important to use in calculating the maximum chain pull, useful in lifting calculations, this does not always represent the fatigue life and performance of the chain.

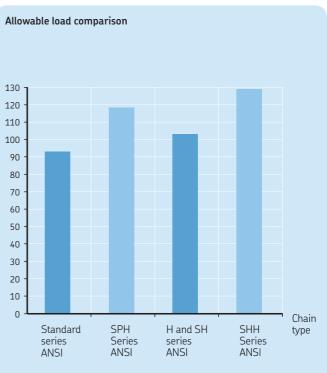
The pattern of the work load is particularly complex in heavy drive environments where significant shock loads are present. This can lead to rapid elongation and chain failure.

Therefore the SKF Xtra Strength Chain design includes, optimized hardness of the material, precision fit of the components as well as an overall size increase of the parts. This will in turn provide a much longer service life for the chain in demanding drive conditions.



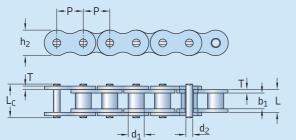
SKF Xtra Strength Chains used in logging applications

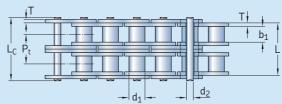




SKF Xtra Strength H and BH chains

SKF Xtra Strength H and BH chains differ from the respective ANSI and BS/DIN chains slightly, due to using the plate thickness of the next larger size of ANSI roller chains. Therefore, H and BH series chains can accommodate approximately 10% higher shock loads. The ultimate tensile strength will be the same as a standard ANSI chain. SKF Xtra Strength H and BH chains are well suited for applications where shock loads are higher, operating speeds are lower or there are other severe operating conditions.





ANSI Chain number	BS/ISO Chain number	Dimens Pitch	ions Roller diam- eter	Width between inner plates	Pin diam- eter	Pin leng	jth	P. length cottered	lnner pl. height	Plate thick- ness	Transv. pitch	tensile		per	Designation
		Ρ	d ₁ max	$b_1 \min$	d ₂ max	L max	L _C max	L _C max	h ₂ max	T max	Pt	Q min	Q ₀	q	
-	_	mm										kN		kg/m	-
140H-1 160H-1 180H-1 200H-1	08AH-1 10AH-1 12AH-1 16AH-1 20AH-1 24AH-1	25,400 31,750 38,100 44,450 50,800 57,150 63,500	10,16 11,91 15,88 19,05 22,23 25,40 28,58 35,71 39,68	4,77 7,85 9,40 12,57 15,75 18,90 25,22 25,22 31,55 35,48 37,85 47,35	3,58 3,96 5,08 5,94 7,92 9,53 11,10 12,70 14,27 17,46 19,85 23,81	13,3 18,8 22,1 29,2 36,2 43,6 53,5 57,6 68,2 75,9 86,6 109,6	14,3 19,9 23,4 31,0 37,7 46,9 57,5 62,2 73,0 81,6 93,5 115,9	- 24,4 31,6 39,4 46,9 57,5 62,2 73,0 - 93,5 -	9,0 12,00 15,09 18,00 24,00 30,00 35,70 41,00 47,80 53,60 60,00 72,30	1,50 2,03 2,42 3,25 4,00 4,80 5,60 6,40 7,20 8,0 9,50 12,70		7,9 14,1 22,2 31,8 56,7 88,5 127,0 172,4 226,8 281,0 353,8 510,3	10,8 19,1 30,2 42,7 71,4 112,4 160,9 217,3 285,8 341,8 444,5 622,5	0,41 0,82 1,25 1,87 3,10 4,52 6,60 8,30 10,30 14,83 19,16 30,4	PHC 35H-1 PHC 40H-1 PHC 50H-1 PHC 60H-1 PHC 100H-1 PHC 120H-1 PHC 120H-1 PHC 140H-1 PHC 160H-1 PHC 180H-1 PHC 200H-1 PHC 240H-1
120H-2 140H-2 160H-2		19,050 25,400 31,750 38,100 44,450 50,800 63,500	15,88 19,05 22,23 25,40 28,58	12,57 15,75 18,90 25,22 25,22 31,55 37,85	12,70 14,27	55,3 68,8 82,7 102,4 109,8 130,1 164,9	57,1 70,3 86,0 106,4 114,4 134,9 171,8	57,7 72,0 86,0 106,4 114,4 134,9 171,8	18,00 24,00 30,00 35,70 41,00 47,80 60,00	3,25 4,00 4,80 5,60 6,40 7,20 9,50	32,59	177,0 254,0 344,8 453,6	84,5 145,3 225,9 322,7 437,7 571,6 894,9	3,71 6,15 9,03 13,13 16,60 20,20 38,11	PHC 60H-2 PHC 80H-2 PHC 100H-2 PHC 120H-2 PHC 140H-2 PHC 160H-2 PHC 200H-2
160H-3	28AH-3	19,050 25,400 31,750 38,100 44,450 50,800 63,500	15,88 19,05 22,23 25,40 28,58	12,57 15,75 18,90 25,22 25,22 31,55 37,85	5,94 7,92 9,53 11,10 12,70 14,27 19,85	81,4 101,4 121,8 151,2 162,0 192,0 243,2	83,2 102,9 125,1 155,2 166,6 196,8 250,1	83,8 104,6 125,1 155,2 166,6 196,8 250,1	18,00 24,00 30,00 35,70 41,00 47,80 60,00	3,25 4,00 4,80 5,60 6,40 7,20 9,50	39,09 48,87 52,20 61,90	170,1 265,5 381,0 517,2	113,9 203,5 314,8 444,7 598,4 787,3 1228,2	5,54 9,42 12,96 19,64 24,90 30,10 57,06	PHC 60H-3 PHC 80H-3 PHC 100H-3 PHC 120H-3 PHC 140H-3 PHC 160H-3 PHC 200H-3

* Bushing chain: d1 indicates external diameter of bushing Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of 160H-1 is PHC 160H-1X5MTR. For links, add "C/L" for "connecting" and "C/L" for "offset" to the designation. For cottered, add a "C" after the number of strands. For example 160H-1 with a cottered pin is designated PHC 160H-1C... For heavy duty multistrand chain drives, special sprockets are needed due to differences in transverse pitch.

Table 1

SKF Xtra Strength BH Series

BS/ISO Chain number	Dimensio Pitch	ns Roller diameter	Width between inner plate	Pin diameter	Pin length		Inner plate heigh	Plate ht thickness	Ultimate tensile strength	Weight per meter	Designation
	Р	d may			L may	l may	h may	T max	Q min	a	
	۲ mm	d ₁ max	b ₁ max	d ₂ max	L max	L _C max	h ₂ max	T IIIdX	kN	q kg/m	
04BH 068H* 08BH 10BH 128H 16BH 24BH	6.000 9.525 12.7 15.875 19.05 25.4 38.1	4 6.35 8.51 10.16 12.07 15.88 25.4	2.8 5.72 7.85 9.65 11.68 17.02 25.4	1.85 3.58 4.45 5.08 5.94 8.9 14.63	8.4 14.4 18.8 20.2 25.2 35.7 58.6	9.4 15.4 19.9 21.6 26.8 38.9 63.4	5.00 8.20 11.80 14.70 16.00 24.10 36.20	0.9 1.6 2.3 1.85 2.42 4.0/3.1 7.5/6.0	5.0 11.3 20.6 25 40 80 225	0.14 0.51 0.79 1.03 1.45 3.11 9	PHC 04BH-1 PHC 06BH-1 PHC 08BH-1 PHC 10BH-1 PHC 12BH-1 PHC 16BH-1 PHC 24BH-1

* Straight sidebar

С

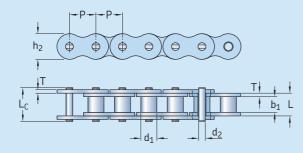
Table 1

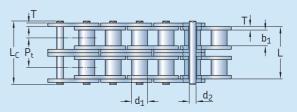
SKF Xtra Strength SH Chains

SKF Xtra Strength SH Chains have a 25–35% greater ultimate tensile strength than ANSI heavy duty roller chains due to their thicker plates and thru hardened pins. These chains can accommodate higher shock loads and provide longer service life, while retaining the same dimensions as ANSI heavy duty series roller chains.



SKF Xtra Strength SH Chains used in the earthmoving industry





Chain number	Dimensio Pitch	ns Roller diameter	Width between inner plate	Pin diameter es	Pin leng	Jth	lnner plate height	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter	Designation
	Ρ	d ₁ max	b ₁ min	d ₂ max	L max	L _C max	h ₂ max	T max	Q min	Q ₀	q	
_	mm								kN		kg/m	-
255H-1* 355H-1* 405H-1 505H-1 605H-1 805H-1 1005H-1 1205H-1 1405H-1 1605H-1 2005H-1	9,525 12,700 15,875 19,050 25,400 31,750 38,100 44,450 50,800	3,3 5,08 7,95 10,16 11,91 15,88 19,05 22,23 25,40 28,58 39,68	3,18 4,77 7,85 9,40 12,57 15,75 18,90 25,22 25,22 31,55 37,85	2,01 3,58 3,96 5,08 5,94 7,92 9,53 11,10 12,70 14,27 19,85	9,0 13,3 18,8 22,1 29,2 36,2 43,6 53,5 57,6 68,2 86,6	- 14,3 19,9 23,4 31,6 37,7 46,9 57,5 62,2 73,0 93,5	6,00 9,00 12,00 15,09 18,00 24,00 30,00 35,70 41,00 47,80 60,00	2,01 1,50 2,03 2,42 3,25 4,00 4,80 5,60 6,40 7,20 9,50	5,09 11,00 22,40 30,40 44,10 88,20 116,60 158,20 206,00 274,00 506,10	5,6 13,6 24,8 36,2 50,4 93,0 129,1 175,3 266,5 293,0 562,3	2,17 0,41 0,82 1,25 1,87 3,10 4,52 6,60 8,30 10,30 19,16	PHC 25SH-1X PHC 35SH-1X PHC 40SH-1X PHC 50SH-1X PHC 60SH-1X PHC 80SH-1X PHC 100SH-1X PHC 120SH-1X PHC 140SH-1X PHC 160SH-1X PHC 200SH-1X

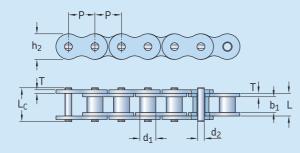
* Bushing chain: d1 indicates external diameter of bushing Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of 100SH-1 is PHC 100SH-1X5MTR. For "connecting" links, add "C/L" to the designation. For heavy duty multistrand chain drives, special sprockets are needed due to differences in transverse pitch.

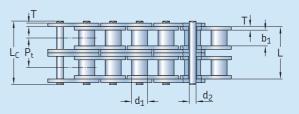
SKF Xtra Strength SPH Chains

SKF Xtra Strength SPH Chains have specially designed, close tolerance link plates and pitch holes. Their special design can improve load carrying capacity by 25–32%. The pins used on these chains are thru hardened for greater shock load resistance. The dimensions of these chains are the same as ANSI standard roller chains.



SKF Xtra Strength SPH Chains used in the steel industry





Chain number	Dimensi Pitch	Roller	Width between inner plates	Pin diameter	Pin leng	th	Inner plate height	Plate thick- ness	Trans- verse pitch	tensile	Average tensile strength	Weight per meter	Designation
	Ρ	$d_1 \max$	$b_1 \min$	d ₂ max	L max	L _C max	h ₂ max	T max	Pt	Q min	Q ₀	q	
_	mm									kN		kg/m	-
805PH-1 1005PH-1 1205PH-1 1405PH-1 2005PH-2 1005PH-2 1205PH-2 1405PH-2 1405PH-2 2005PH-2 2005PH-3 1005PH-3 1205PH-3 1205PH-3 1405PH-3 2005PH-3	25,400 31,750 38,100 44,450 50,800 63,500 25,400 31,750 38,100 44,450 50,800 63,500 31,750 38,100 44,450 50,800 63,500	15,88 19,05 22,23 25,40 28,58 39,68 15,88 19,05 22,23 25,40 28,58 39,68 15,88 15,88 15,88 15,88 15,88 15,88 22,23 25,40 28,58 39,68	$\begin{array}{c} 15,75\\ 18,95\\ 25,22\\ 31,55\\ 37,85\\ 15,75\\ 18,95\\ 25,22\\ 31,55\\ 37,85\\ 15,75\\ 18,95\\ 25,22\\ 31,55\\ 18,95\\ 25,22\\ 25,22\\ 31,55\\ 37,85\\ 37$	7,94 9,54 11,11 12,71 14,29 19,85 7,94 9,54 11,11 12,71 14,29 19,85 7,94 9,54 11,11 12,71 12,71 12,71 12,71 12,71 12,71 12,71 12,71	32,7 40,4 50,3 54,4 64,8 80,3 62,7 76,4 95,8 103,3 123,3 151,9 91,7 112,2 141,4 152,2 141,4 152,2 181,8 223,5	36,5 44,7 54,3 59,0 69,6 87,2 65,8 80,5 99,7 107,9 128,1 158,8 95,1 116,3 145,2 156,8 186,6 230,4	24,10 30,10 36,20 42,20 48,20 60,30 24,10 30,10 36,20 42,20 48,20 60,30 24,10 30,10 36,20 42,20 48,20 60,30	3,20 4,00 4,80 5,60 6,40 8,00 3,20 4,00 4,80 5,60 6,40 8,00 4,80 5,60 6,40 8,00 4,80 5,60 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 8,00 3,20 4,00 4,80 5,60 6,40 8,00 3,20 4,00 4,80 5,60 6,40 8,00 3,20 4,00 4,80 5,60 6,40 8,00 3,20 4,00 4,80 5,60 6,40 8,00 3,20 4,00 4,80 5,60 6,40 8,00 5,60 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 6,40 8,00 8,00 6,40 8,00	- - 29,29 35,76 45,44 48,87 58,55 71,55 29,29 35,76 45,44 48,87 58,55 71,55	77,5 115,5 165,0 222,7 285,5 155,0 231,0 339,0 445,5 571,0 892,0 232,5 347,3 508,0 668,0 855,5 1336,4	85,3 127,0 186,0 245,0 314,0 490,0 170,6 255,0 373,0 490,0 628,0 981,0 255,9 382,0 559,0 735,0 941,0 1470,0	2,86 4,21 6,36 8,04 10,80 18,00 5,68 8,34 12,63 15,92 21,43 35,00 8,18 12,47 18,90 23,84 32,10 52,50	PHC80SPH-1X PHC100SPH-1X PHC120SPH-1X PHC140SPH-1X PHC160SPH-1X PHC200SPH-1X PHC200SPH-2X PHC120SPH-2X PHC120SPH-2X PHC140SPH-2X PHC160SPH-2X PHC200SPH-3X PHC120SPH-3X PHC120SPH-3X PHC140SPH-3X PHC160SPH-3X PHC160SPH-3X PHC160SPH-3X

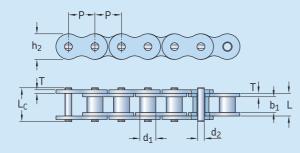
Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of 100SPH-1 is PHC 100SPH-1X5MTR. For "connecting" links, add "C/L" to the designation.

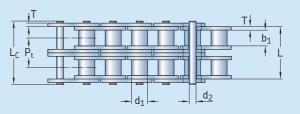
SKF Xtra Strength SHH Chains

SKF Xtra Strength SHH Chains use link plates that, in most cases, are equal in thickness to the plates used in the next larger size of SKF Xtra Strength SPH Chains. Its pins are also thru hardened. The use of higher grade materials results in chains that have greater ultimate tensile strength and allowable load than SKF Xtra Strength SH Chains.



SKF Xtra Strength SHH Chains used in construction machinery





Chain number	Dimensi Pitch	Roller	Width between inner plates	Pin diameter	Pin leng	th	lnner plate height	Plate thick- ness	Trans- verse pitch	tensile	Average tensile strength	per	Designation
	Ρ	d ₁ max	$b_1 \min$	d ₂ max	L max	L _C max	h ₂ max	T max	P_{t}	Q min	Q ₀	q	
_	mm									kN		kg/m	-
805HH-1 1005HH-1 1205HH-1 1405HH-1 1605HH-1 2005HH-1	25,400 31,750 38,100 44,450 50,800 63,500	15,88 19,05 22,23 25,40 28,58 39,68	15,75 18,90 25,22 25,22 31,55 37,85	7,94 9,54 11,11 12,71 14,29 19,85	36,2 43,6 53,5 57,6 68,2 86,6	38,9 46,9 57,5 62,2 73,0 93,5	24,10 30,10 36,20 42,20 48,20 60,30	4,00 4,80 5,60 6,40 7,20 9,50	- - - -	89,2 131,8 176,0 231,9 294,5 543,6	98,1 145,0 196,0 255,0 324,0 598,0	3,36 4,90 7,12 8,88 11,72 19,80	PHC 80SHH-1X PHC 100SHH-1X PHC 120SHH-1X PHC 120SHH-1X PHC 140SHH-1X PHC 160SHH-1X PHC 200SHH-1X
80SHH-2 100SHH-2 120SHH-2 140SHH-2 160SHH-2 200SHH-2	25,400 31,750 38,100 44,450 50,800 63,500	15,88 19,05 22,23 25,40 28,58 39,68	15,75 18,90 25,22 25,22 31,55 37,85	7,94 9,54 11,11 12,71 14,29 19,85	68,8 82,7 102,4 109,8 130,1 164,9	72,0 86,0 106,4 114,4 134,9 171,8	24,10 30,10 36,20 42,20 48,20 60,30	4,00 4,80 5,60 6,40 7,20 9,50	32,59 39,09 48,87 52,20 61,90 78,31	178,4 263,6 356,4 463,6 588,0 1091,0	196,2 290,0 392,0 510,0 647,0 1200,0	6,65 9,71 14,12 17,38 23,00 38,50	PHC 805HH-2X PHC 1005HH-2X PHC 1205HH-2X PHC 1405HH-2X PHC 1605HH-2X PHC 2005HH-2X
80SHH-3 100SHH-3 120SHH-3 140SHH-3 160SHH-3 200SHH-3	25,400 31,750 38,100 44,450 50,800 63,500	15,88 19,05 22,23 25,40 28,58 39,68	15,75 18,90 25,22 25,22 31,55 37,85	7,94 9,54 11,11 12,71 14,29 19,85	101,4 121,8 151,2 162,0 192,0 243,2	104,6 125,1 155,2 166,6 196,8 250,1	24,10 30,10 36,20 42,20 48,20 60,30	4,00 4,80 5,60 6,40 7,20 9,50	32,59 39,09 48,87 52,20 61,90 78,31	267,6 395,4 534,5 695,5 882,7 1627,3	294,3 435,0 588,0 765,0 971,0 1790,0	9,95 14,53 21,12 25,88 34,22 57,29	PHC 80SHH-3X PHC 100SHH-3X PHC 120SHH-3X PHC 120SHH-3X PHC 140SHH-3X PHC 160SHH-3X

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of 100SHH-1 is PHC 100SHH-1X5MTR. For "connecting" links, add "C/L" to the designation in the table. For heavy duty multistrand chain drives, special sprockets are needed due to differences in transverse pitch.

SKF Engineered drive chains

												Table 1
h ₂	PP		P	-			ļ					
Chain number	Dimension Pitch	S	Roller diameter	Width between inner plates	Pin diameter	Pin length	Plate height	Plate thickness	Ultimate tensile strength	Average tensile strength	per	Designation
	Ρ		d ₁ max	b ₁ min	d ₂ max	Lmax	h ₂ max	T max	Q min	Q ₀	q	
-	mm in	nch							kN		kg/m	-
PHC SS2065 PHC R3112 PHC 2010 PHC 2010H PHC S5588F1 PHC SS588F2 PHC MXS882 PHC MX503 PHC 2512 PHC SS568H PHC SS568HF2 PHC 2510F1 PHC 2510F1 PHC 2510F1 PHC 2510F1 PHC 2510F1 PHC 2510H PHC 2510H PHC MXS3075F2 PHC SS10H PHC 2814F1 PHC 2814F1 PHC 2814F1 PHC 2814F1 PHC 3214 PHC SS1245 PHC SS12	50,80 2 63,50 2 66,27 2 66,27 2 66,27 2 66,27 2 76,20 3 77,90 3 77,90 3 77,90 3 77,90 3 77,90 3 77,90 3 77,90 3 78,10 3	,073 ,073 ,073 ,073 ,500 ,500 ,500 ,000	$\begin{array}{c} 28,7\\ 31,75\\ 31,75\\ 22,23\\ 23,25\\ 31,75\\ 33,75\\ 31,75\\ 33,75\\ 35,72\\ 35,5\\ 35,5\\ 35,5\\ 35,5\\ 35,5\\ 76,2\\ 76,$	32,5 31,31,77 22,22,85,6 32,77 22,22,85,6 32,377 32,77 22,22,85,6 33,32,77 32,	15,05 14,20 15,90 15,88 11,11 9,53 11,10 11,11 14,00 19,05 19,05 19,05 19,05 19,05 16,00 15,75 16,00 16,50 16,46 16,46 17,81 15,88 22,23 22,23 22,23 22,23 22,23 22,23 22,23 22,23 22,23 22,23 22,23 22,23 22,23 22,23 22,23 22,23 23,80 23,85 23,80 23,85 23,80 23,85 23,80 23,85 23,80 23,85 27,97 27,94 27,94 21,75 31,78 31,78 31,78 22,20 22,20 22,20 22,20 24,00	79,5 73,9 89,0 97,0 62,0 59,0 68,5 63,7 88 100 97,6 98,5 103,4 88,9 88,9 88,9 94,5 90,97 117,6 117,6 123,5 127,2 124,5 129 130 133 138 137 147,6 165,7 96 96 184	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7,9 6,4 7,95 6,64 6,40 9,75 9,50 8,00 9,77 9,5 12,75 12,70 14,55 1	220 168,9 250 250 88,9 84,46 115,6 130 147 340 447 400 124,5 225 271 280 334 334 333 250 471 556 559 476 560 623 666,4 550 722 650 722 71 722 71 722 710 722 710 722 710 722 710 722 710 722 710 722 710 722 710 722 710 722 750 750 722 750 750 722 750 750 722 750 750 722 750 750 722 750 750 750 750 750 750 750 750 750 750	$\begin{array}{c} 242\\ 185\\ 275\\ 98\\ 91\\ 125\\ 144\\ 161\\ 367\\ 420\\ 137\\ 248\\ 292\\ 302\\ 365\\ 365\\ 280\\ 507\\ 611\\ 614\\ 514\\ 590\\ 672\\ 700\\ 594\\ 605\\ 794\\ 616\\ 820\\ 836\\ 1060\\ 955\\ 1069\\ 1246\\ 356\\ 320\\ 1600 \end{array}$	$\begin{array}{c} 12,14\\ 10,70\\ 13,53\\ 11,91\\ 5,39\\ 4,26\\ 5,30\\ 5,46\\ 9,20\\ 18,40\\ 19,80\\ 20,28\\ 9,93\\ 11,70\\ 10,72\\ 12,70\\ 12,60\\ 25,40\\ 22,57\\ 24,63\\ 26,771\\ 31,00\\ 27,34\\ 41,20\\ 37,80\\ 37,90\\ 42,93\\ 48,60\\ 18,17\\ 18,17\\ 63,60\\ \end{array}$	PHC SS2065 PHC R3112 PHC 2010 PHC 2010 H PHC SS588F1 PHC SS588F2 PHC MXS822 PHC MXS822 PHC SS588 H PHC SS568H PHC 2512 PHC 2510F1 PHC 2510F1 PHC 2510F1 PHC 2510F1 PHC 2510F1 PHC 2510F1 PHC 2510F1 PHC XS3075F1 PHC MXS3075F1 PHC MXS3075F2 PHC MXS3075F2 PHC MXS3075F2 PHC MXS3075F2 PHC MXS3075F2 PHC MXS3075F2 PHC MXS1242 PHC 3214 F1 PHC 3214 F1 PHC 3214 F1 PHC SS1244 PHC SS1245 PHC SS1245 PHC SS1245 PHC SS12455 PHC SS1

^{*} Bush Diameter external dimension Prefix F - Standard materials; Prefix A - Stainless steel bush & pin only; Prefix N - Nickel plated bush & pin only

SKF Xtra Performance SLR Chains

The method of achieving internal lubrication of the chains is known as sintering and consists of the high quality oil impregnation of the components during their manufacture. The steel bushings are forged with lubricant within the material structure of the steel. During this operation, the lubricant forms a micro thin layer between the pin and internal roller surfaces.

Self-lubricating chains provide excellent service life without relubrication. In addition, self-lubricating chain pins are nickel-plated to provide a very smooth running surface that will not cause the selflubricating bushings to wear. The

link plates are black phosphate coated. Self-lubricating chains are interchangeable with standard roller chains.

The use of self-lubricating chains can substantially reduce elongation in many applications. This provides an increased service life of the chain.

The SKF Xtra Performance SLR Chains can also be used as a base for attachment chains, which are commonly required in the printing and packaging industry.

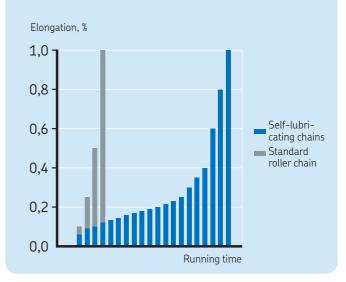
Application

As self-lubricating chains do not require lubricant, they are suitable for applications where lubrication is not possible or

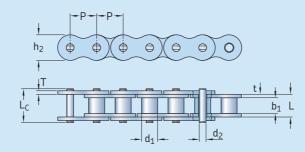
practical. Consequently, these chains offer a long-lasting maintenance-free solution. Contamination of the final product from oil spillage or oil mist is the primary reason for lubrication-free chains in the paper, packaging, electronics, white and brown goods manufacturing sectors. Altogether, if lubrication can be avoided, planned lubrication intervals are unnecessary and maintenance costs are reduced accordingly.



SKF Xtra Performance SLR Chains used on food processing machinery



SKF Xtra Performance SLR Chains vs standard chains



Chain number	Dimens Pitch	Roller	Width between inner plates	Width between outer plates	Pin diameter	Pin lengt	h	Plate height	Plate thic	kness	Ultimate tensile strength	Weight per meter	Designation
	Ρ	$d_1 \max$	$b_1 \min$	$b_2 \min$	d ₂ max	Lmax	L _C max	h ₂ max	t max	T max	Q min	q	
_	mm										kN	kg/m	-
08B-1SLR 10B-1SLR 12B-1SLR 16B-1SLR	15,88 19,05	8,51 10,16 12,07 15,88	7,75 9,65 11,68 17,02	13,03 13,75 15,75 27,50	4,45 5,08 5,72 8,28	18,3 19,9 22,5 38,1	19,8 21,6 24,2 40,6	11,8 14,7 16,0 21,0	1,60 1,70 1,85 4,15	1,60 1,70 1,85 3,10	18,0 22,4 29,0 60,0	0,73 0,97 1,20 2,72	PHC 08B-1SLR PHC 10B-1SLR PHC 12B-1SLR PHC 16B-1SLR
12B-2SLR 16B-2SLR		12,07 15,88	11,68 17,02	35,21 57,46	5,72 8,28	42,0 68,0	43,6 71,0	16,0 21,0	1,85 4,15	1,85 3,10	58,0 106,0	2,42 5,68	PHC 12B-2SLR PHC 16B-2SLR
40-1SLR 50-1SLR 60-1SLR 80-1SLR 100-1SLR	12,7 15,88 19,05 25,40 31,75	7,95 10,16 11,91 15,88 19,05	7,85 9,40 12,57 15,75 18,90	12,25 13,84 19,35 22,66 27,51	3,96 5,03 5,94 7,92 9,53	16,6 20,7 27,5 32,7 40,4	17,8 22,2 29,3 35,0 44,7	12,0 15,1 18,0 24,0 30,0	1,5 2,03 2,42 3,25 4,00	1,5 2,03 2,42 3,25 4,00	14,1 21,8 34,2 56,7 86,7	0,62 1,12 1,65 2,63 3,94	PHC 40-1SLR PHC 50-1SLR PHC 60-1SLR PHC 80-1SLR PHC 100-1SLR
60-2SLR	19,05	11,91	12,57	42,13	5,94	50,3	52,1	18,0	3,25	2,42	68,4	3,21	PHC 60-2SLR

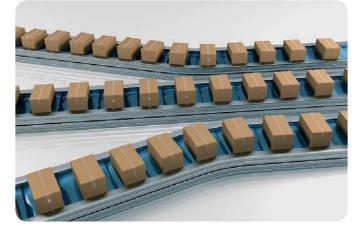
Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of 10B-1SLR is PHC 10B-1SLRX10FT. For links, add "C/L" for "connecting" and "O/L" for "offset" to the designation.

SKF Side Bow Chains

Side bow (curved) chains are able to flex and twist due to extra clearance between the inner and outer side plates. They are ideal for use on curved conveyors or to transmit power under misaligned sprocket conditions. They are produced with barrel shaped pins and additional pin, bushing and link plate clearances. These features allow travel in a curved path and/or chain twist.

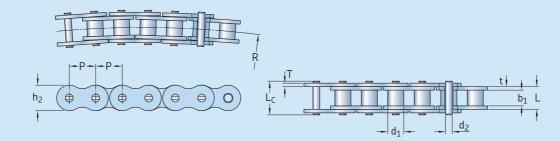
Application

SKF Side Bow Chains are commonly used in curved track conveyors in the bottling, packaging, canning and textile industries.



SKF Xtra Performance SLR Chains used on food processing machinery

SKF Side Bow Chains



Chain number	Dimens Pitch	sions Roller diam- eter	Width between inner plates	Pin diam- eter	Pin leng	gth	lnner plate height	Plate th	ickness	Side bow radius	tensile		per	Designation
	Ρ	d ₁ max	b ₁ min	d ₂ max	L max	L _C max	h ₂ max	t max	T max	R min	Q min	Q ₀	q	
-	mm										kN		kg/m	-
40-1SB 43-1SB 50-1SB 60-1SB 63-1SB 80-1SB 08B-1SB 10B-1SB 12B-1SB 12B-1SB C2050-1SB	12,70 12,70 15,88 19,05 25,40 12,70 15,88 19,05 31,75			3,96 3,45 4,37 5,34 5,08 7,19 3,97 4,50 5,12 5,08	16,9 18,3 20,7 26,6 28,8 34,0 17,4 20,1 23,1 21,3	18,1 19,5 22,7 28,4 30,6 37,3 18,7 21,5 24,8 22,6	11,7 11,7 14,9 18,0 17,2 24,0 11,8 14,7 16,0 15,0	1,50 2,03 2,42 2,42 3,25 1,60 1,70 1,85 2,03	1,50 1,50 2,03 2,42 2,03 3,25 1,60 1,70 1,85 2,03	350 305 400 500 350 711 400 400 500 800	13,8 12,0 20,6 15,7 12,5 40,9 14,0 15,6 20,5 21,8	15,2 13,2 22,7 17,3 20,0 42,0 15,4 17,2 22,6 24,1	0,80 0,64 1,09 1,54 1,40 2,60 0,70 0,93 1,16 0,84	PHC 40-1SB PHC 43-1SB PHC 50-1SB PHC 60-1SB PHC 63-1SB PHC 80-1SB PHC 08B-1SB PHC 10B-1SB PHC 12B-1SB PHC 22050-1SB

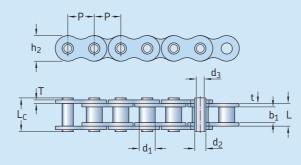
Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of 60-1SB is PHC 60-1SBX5MTR. For links, add "C/L" for "connecting" and "O/L" for "offset" to the designation.

SKF Hollow Pin Chains

SKF Hollow Pin Chains offer flexibility to end-users as cross rods or extended pins may be easily inserted. Ideal for setups where spacing of cross rods or pins must be changed frequently. These chains are available in carbon steel and stainless steel.



SKF Hollow Pin Chains used on a newspaper conveyor

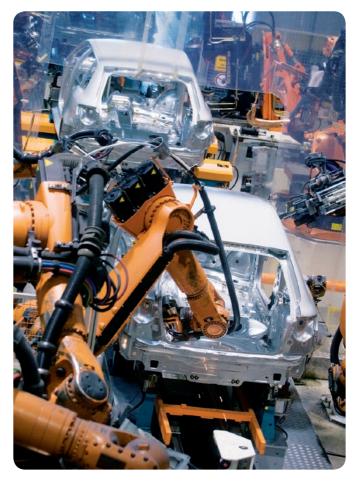


Chain number	Dimensions Pitch Bush Width Pin diame Diam- between eter inner plate		neter	Pin leng	th	Inner plate height	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter	Designation		
	Ρ	d ₁ max	$b_1 \min$	d ₂ max	$d_3 \max$	L max	L _C max	h ₂ max	t/T max	Q min	Q ₀	q	
-	mm									kN		kg/m	-
08BHP 10BHP 12BHP 16BHP 40HP 50HP 60HP 80HP A2080HP	12,7 15,875 19,05 25,4 12,7 15,875 19,05 25,4 50,8	8,51 10,16 12,07 15,88 7,95 10,16 11,91 15,88 15,88	7,75 9,65 11,68 17,02 7,85 9,4 12,7 15,75 15,75	6,55 7,02 8,09 11,5 5,63 7,03 8,31 11,4 11,4	4,5 5,13 6 8,2 4 5,13 6 8,05 8,05	16,4 19,5 22,7 35,3 16,5 20,7 25,8 32,5 32,4	17,6 20,5 23,9 37 17,6 21,9 26,8 33,8 33,8	11,8 14,7 16,1 23,2 12 15,09 18 24 24	1,6/1,3 1,7 1,85 4,0/3,1 1,5 2,03 2,42 3,25 3,25	11,1/2523 10,0/2272 14,0/3180 49,0/11136 11,0/2500 20,0/4545 24,0/5455 50,0/11364 42,3/9615	12,1 11,5 16 52,2 12,2 22,6 26,9 52 46,1	0,56 0,86 0,82 2,26 0,54 0,91 1,29 2,26 1,6	PHC 08B-1HP PHC 10B-1HP PHC 12B-1HP PHC 16B-1HP PHC 40-1HP PHC 40-1HP PHC 50-1HP PHC 60-1HP PHC 80-1HP PHC 80-1HP PHC A2080HP

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of 08-B-1HP is PHC 08B-1HPX10FT.

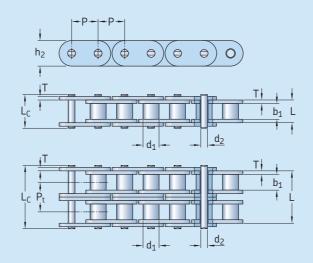
SKF Straight Side Plate Chains

SKF Straight Side Plate Chains possess flat, rather than contoured link plates, for better sliding properties in conveyor applications. The fatigue strength and chain weight are slightly higher than for standard chains.



SKF Straight Side Plate Chains used in the automative industry

SKF Straight Side Plate Chain - A series



ISO Chain number	ANSI Chain number	Dimensi Pitch	ons Roller diam- eter	Width between inner plates	Pin diam- eter	Pin leng	gth	Inner plate height	Plate thick- ness	Trans- verse pitch	Ultimate tensile strength	Average tensile strength	Weight per meter	Designation
		Ρ	max	$b_1 \min$	max	L max	L _C max	h ₂ max	T max	Pt	Q min	Q ₀	q	
-	-	mm									kN		kg/m	-
C06A-1 C08A-1 C10A-1 C12A-1 C16A-1 C20A-1 C24A-1 C28A-1 C32A-1	C40 C50 C60 C80 C100 C120 C140	9,525 12,7 15,875 19,05 25,4 31,75 38,1 44,45 50,8	5,08 7,95 10,16 11,91 15,88 19,05 22,23 25,4 28,58	4,77 7,85 9,4 12,57 15,75 18,9 25,22 2522 31,55	3,58 3,96 5,08 5,94 7,92 9,53 11,1 12,7 14,27	13,3 16,6 20,7 32,7 40,4 50,3 54,4 64,8	14,3 18,8 23,3 28,3 36,5 44,7 54,3 59 69,6	9 12 15,09 18,0/18,2 24 30 35,7 41 47,8	1,3 1,5 2,03 2,42 3,25 4 4,8 5,6 6,4		7,9 14,1 22,2 31,8 56,7 88,5 127,0 172,4 226,8	10,8 17,5 29,4 41,5 60,4 109,2 166,3 212 278,9	0,41 0,73 1,23 1,81/1,83 3,09 4,56 6,86 8,49 11,5	PHC C35-1 PHC C40-1 PHC C50-1 PHC C60-1 PHC C80-1 PHC C100-1 PHC C120-1 PHC C140-1 PHC C160-1
C34A-2 C28A-2	C50-2 C60-2		7,95 10,16 11,91 15,88 19,05 22,23 25,4 28,58	7,85 9,4 12,57 15,75 18,9 25,22 25,22 31,55	3,96 5,08 5,94 7,92 9,53 11,1 12,7 14,27	31 38,9 48,8 62,7 76,4 95,8 103,3 123,3	33,2 41,4 51,1 65,8 80,5 99,7 107,9 128,1	12 15,09 18,0/18,2 24 30 35,7 41 47,8	1,5 2,03 2,42 3,25 4 4,8 5,6 6,4	14,38 18,11 22,78 29,29 35,76 45,44 48,87 58,55	28,2 44,4 63,6 113,4 177,0 254,0 344,8 453,6	35,9 58,1 82,1 141,8 219,4 314,9 427,5 562,4	1,43 2,42 3,58/3,62 6,12 9,08 13,6 16,86 22,9	PHC C40-2 PHC C50-2 PHC C60-2 PHC C80-2 PHC C100-2 PHC C120-2 PHC C120-2 PHC C140-2
C24A-3 C2BA-3	C50-3 C60-3 C80-3 C100-3 C120-3	12,7 15,875 19,05 25,4 31,75 38,1 44,45 50,8	7,95 10,16 11,91 15,88 19,05 22,23 25,4 28,58	7,85 9,4 12,57 15,75 18,9 25,22 25,22 31,55	3,96 5,08 5,94 7,92 9,53 11,1 1270 1427	45,4 57 71,5 91,7 112,2 141,4 152,2 181,8	47,6 59,5 73,9 95,1 116,3 145,2 156,8 186,6	12 15,09 18,0/18,2 24 30 35,7 41 47,8	1,5 2,03 2,42 3,25 4 4,8 5,6 6,4	14,38 18,11 22,78 29,29 35,76 45,44 48,87 58,55	42,3 66,6 95,4 170,1 265,5 381,0 517,2 680,4	50 77,8 111,1 198,4 309,6 437,2 593,3 780,6	2,14 3,62 5,36/5,41 9,1 13,6 20,43 25,23 34,19	PHC C40-3 PHC C50-3 PHC C60-3 PHC C80-3 PHC C100-3 PHC C120-3 PHC C120-3 PHC C140-3

* Bushing chain: d1 in the table indicate the external diameter of the bushing. Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of C08A-1 is PHC C08A-1X10FT.

SKF

Table 1

Table 2

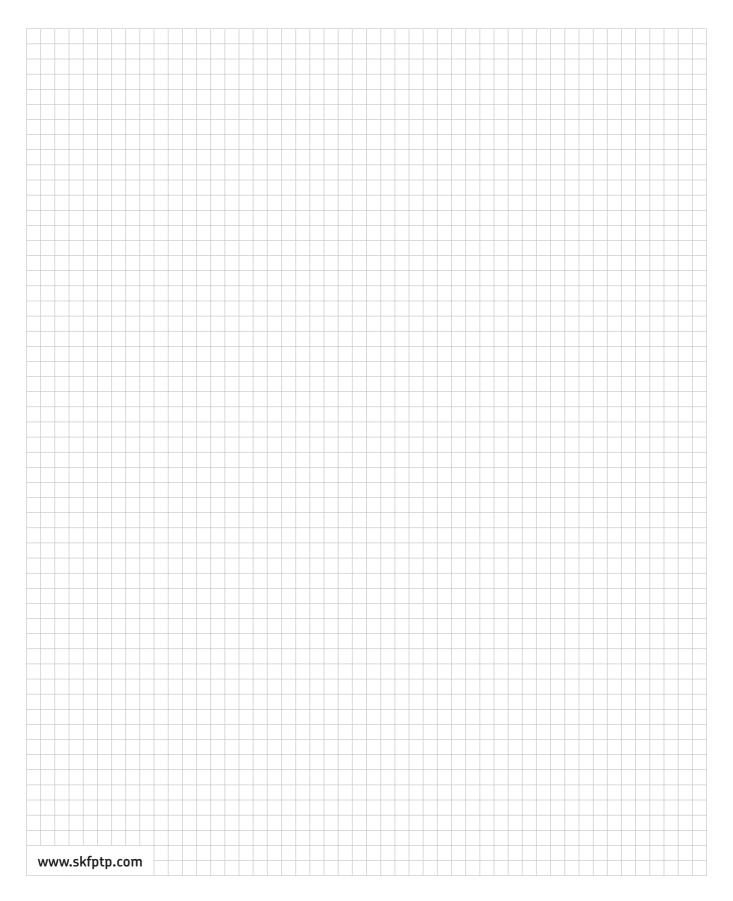
С

SKF Straight Side Plate Chain - B series

DIN Chain number	Dimensio Pitch	Roller diameter	Width between inner plates	Pin diam- eter	Pin len	gth	Inner plate height	Plate thickness	Trans- verse pitch	tensile	Average tensile strength	per	Designation
	Ρ	max	$b_1 \min$	max	Lmax	L _C max	h ₂ max	T max	P _t	Q min	Q ₀	q	
_	mm									kN		kg/m	-
C08B-1	12,7	8,51	7,75	4,45	16,7	18,2	11,8	1,6		18,0	19,5	0,8	PHC C08B-1
C10B-1	15,875	10,16	9,65	5,08	19,5	20,9	14,7	1,7		22,4	27,9	1,06	PHC C10B-1
C12B-1	19,06	12,07	11,68	5,72	22,5	25,2	16	1,85		29,0	32,2	1,32	PHC C12B-1
C16B-1	25,4	15,88	17,02	8,28	36,1	39,1	21,0/24,0	4,15/3,1		60,0	72,8	3,08/3,49	PHC C16B-1
C20B-1	31,75	19,05	19,56	10,19	41,3	45	26,4	4,5/3,5		95,0	106,7	4,16	PHC C20B-1
C24B-1	38,1	25,4	25,4	14,63	53,4	57,8	33,2	6,0/4,8		160,0	178	7,47	PHC C24B-1
C28B-1	44,45	27,94	30,99	15,9	66,1	69,5	36,7	7,5/6,0		200,0	222	9,9	PHC C28B-1
C32B-1	50,8	29,21	30,99	17,81	66	71	42	7,0/6,0		250,0	277,5	10,45	PHC C32B-1
C08B-2	12,7	8,51	7,75	4,45	31,2	32,2	11,8	1,6	13,92	32,0	38,7	1,45	PHC C08B-2
C10B-2	15,875	10,16	9,65	5,08	36,1	37,5	14,7	1,7	16,59	44,5	57,8	2	PHC C10B-2
C12B-2	19,05	12,07	11,68	5,72	42	44,7	16	1,85	19,46	57,8	66,1	2,62	PHC C12B-2
C16B-2	25,4	15,88	17,02	8,28	68	71	21,0/24,0	4,15/3,1	31,88	106,0	133	6,10/6,92	PHC C16B-2
C20B-2	31,75	19,05	19,56	10,19	77,8	81,5	26,4	4,5/3,5	36,45	170,0	211,2	8,23	PHC C20B-2
C24B-2	38,1	25,4	25,4	14,63	101,7	106,2	33,2	6,0/4,8	48,36	280,0	319,2	14,77	PHC C24B-2
C28B-2	44,45	27,94	30,99	15,9	124,6	129,1	36,7	7,5/6,0	59,56	360,0	406,8	19,82	PHC C28B-2
C32B-2	50,8	29,21	30,99	17,81	124,6	129,6	42	7,0/6,0	58,65	450,0	508,5	20,94	PHC C32B-2
C08B-3	12,7	8,51	7,75	4,45	45,1	46,1	11,8	1,6	13,92	47,5	57,8	2,1	PHC C08B-3
C10B-3	15,875	10,16	9,65	5,08	52,7	54,1	14,7	1,7	16,59	66,7	84,5	2,87	PHC C10B-3
C12B-3	19,05	12,07	11,66	5,72	61,5	64,2	16	1,85	19,46	86,7	101,8	3,89	PHC C12B-3
C16B-3	25,4	15,88	17,02	8,28	99,8	102,9	21,0/24,0	4,15/3,1	31,88	160,0	203,7	9,12/10,34	PHC C16B-3
C20B-3	31,75	19,05	19,56	10,19	114,2	117,9	26,4	4,5/3,6	36,45	250,0	290	11,34	PHC C20B-3
C24B-3	38,1	25,4	25,4	14,63	150,1	154,6	33,2	6,0/4,8	48,36	425,0	493	22,1	PHC C24B-3
C28B-3	44,45	27,94	30,99	15,9	184,2	188,7	36,7	7,5/6,0	59,56	530,0	609,5	29,64	PHC C28B-3
C32B-3	50,8	29,21	30,99	17,81	183,2	188,2	42	7,0/6,0	58,55	670,0	770,5	31,27	PHC C32B-3

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of C08B-1 is PHC C08B-1X10FT.

Notes



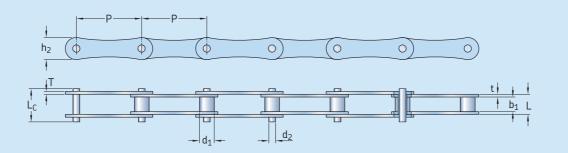
SKF Double Pitch Roller Chains

SKF Double Pitch Roller Chains are produced in accordance with the ASME/ANSI B29.3 (transmission series) and B29.4 (conveyor series) American roller chain standards. In general, these chains are dimensionally similar to ASME/ANSI standard products except that the pitch is double. They are available in the transmission and conveyor series with standard sized rollers, and additionally with large (oversize) rollers in the conveyor series. These chains are an economical choice for low speeds, moderate loads, and long centre distance drive applications including a variety of conveyor systems and material handling equipment.



SKF Double Pitch Roller Chains used in agricultural applications

Double Pitch Roller Chains



ANSI Chain numbe	BS/ISO Chain r numbe	Pitch	ions Roller diam- eter	Width between inner plates	Pin n diamete	Pin leng er	ıth	lnner plate height	Plate th	ickness	Ultimate tensile strength	Average tensile strength	Weight per meter	Designation
		Ρ	d ₁ max	$b_1 \min$	d ₂ max	L max	L _C max	h ₂ max	t max	T max	Q min	Q ₀	q	
	-	mm									kN		kg/m	-
2040 2050 2060 2080 2100 2120	208A 210A 212A 216A 220A 220A 224A	25,40 31,75 38,10 50,80 63,50 76,20	7,95 10,16 11,91 15,88 19,05 22,23	7,85 9,40 12,57 15,75 18,90 25,22	3,96 5,08 5,94 7,92 9,53 11,10	16,6 20,7 25,9 32,7 40,4 50,3	17,8 22,2 27,7 36,5 44,7 54,3	12,0 15,0 18,0 24,0 30,0 35,7	1,50 2,03 2,42 3,25 4,00 4,80	1,50 2,03 2,42 3,25 4,00 4,80	14,1 22,2 31,8 56,7 88,5 127,0	16,7 28,1 36,8 65,7 102,6 147,3	0,42 0,73 1,02 1,70 2,55 4,06	PHC 2040 PHC 2050 PHC 2060 PHC 2080 PHC 2100 PHC 2120
	208B 210B 212B 216B 220B 224B 228B 232B	25,40 31,75 38,10 50,80 63,50 76,20 88,90 101,60	8,51 10,16 12,07 15,88 19,05 25,40 27,94 29,21	7,75 9,65 11,68 17,02 19,56 25,40 30,99 30,99	4,45 5,08 5,72 8,28 10,19 14,63 15,90 17,81	16,7 19,5 22,5 36,1 41,3 53,4 65,1 66,0	18,2 20,9 25,2 39,1 45,0 57,8 69,5 71,0	11,8 14,7 16,0 21,0 26,4 33,2 36,7 42,0	1,60 1,70 1,85 4,15 4,50 6,00 7,50 7,00	1,60 1,70 1,85 3,10 3,50 4,80 6,00 6,00	18,0 22,4 29,0 60,0 95,0 160,0 200,0 250,0	19,4 27,5 32,2 72,8 106,7 178,0 222,0 277,5	0,45 0,65 0,76 1,75 2,62 4,70 6,23 6,72	PHC 208B PHC 210B PHC 212B PHC 216B PHC 220B PHC 224B PHC 228B PHC 232B

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of 2060 is PHC 2060X5MTR. For links, add "C/L" for "connecting" and "O/L" for "offset" to the designation.

Table 2

Transmission attachments

212B

216B

220B

224B

38,10

50,80

63,50

76,20

35,0

44,0 52,0

60,0

38,1

50,8

63,5

76,2

ANSI

Chain

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2040 2050

2060

2080 2100 2120

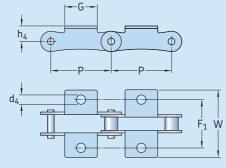
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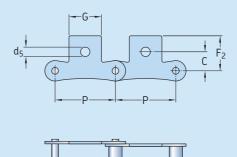
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number





BS/ISO Chain number	Ρ	G	F ₁	W	h ₄	d ₄	С	F ₂	d ₅	Designation
-	mm									-
208A 210A 212A 216A 220A 224A	25,40 31,75 38,10 50,80 63,50 76,20	19,1 23,8 28,6 38,1 47,6 57,2	25,4 31,8 42,9 55,6 66,6 79,3	39,6 49,0 67,8 87,8 107,5 121,4	9,1 11,1 14,7 19,1 23,4 27,8	3,4 5,5 5,5 6,8 9,2 10,5	11,1 14,3 17,5 22,2 28,6 33,3	20,5 25,0 32,9 43,5 50,4 55,5	5,5 6,6 9,2 11,0 13,0 15,0	PHC 2040 PHC 2050 PHC 2060 PHC 2080 PHC 2100 PHC 2120
208B 210B	25,40 31,75	23,2 23,8	25,4 31,8	39,6 49,0	9,1 11,1	4,5 5,5	11,1 -	20,5 -	5,5 -	PHC 208B PHC 210B

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_

14,7 19,1

23,4

27,8

6,6

6,6

8,4

10,5

57,0 84,0 104,0

120,0

To complete designation, add attachment spacing and type followed by chain length. For example: PHC 2060-L1K1X10FT (2060 chain with K-1 attachment on every link, 10 ft. (length). Note: Also available in stainless steel. When ordering, add SS after the chain number. For example: PHC 2060SS-L1K1X10FT. For links, add "C/L" for "connecting" and "O/L" for "offset" to the designation.

PHC 212B...

PHC 216B... PHC 220B...

PHC 224B...

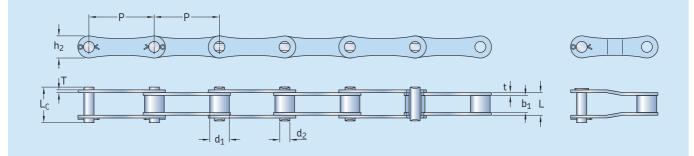
SKF Agricultural chains

The SKF agricultural range of chains are used extensively in the general agricultural industry for either light duty drive chains, or with a range of optional attachments, (typically K and A types) are used for conveyor drives and elevators.

Applications may include combined harvesters, grain elevators, grading machines, balers, amongst others. They may also be used on light duty elevator applications.

The SKF series interchanges with the industry standards in use today. Special treatments such as zinc plating are available on request.

S Type Steel Agricultural Roller Chains (standard series)



SKF Chain numbe	Dimens Pitch r	sions	Roller diam- eter	Width betweer inner plates	Pin n diamete	Pin leng er	gth	lnner plate height	Plate th	ickness	Ultimate tensile strength	Average tensile strength	Weight per meter	Designation
	Ρ		d ₁ max	$b_1 \min$	d ₂ max	L max	L _C max	h ₂ max	t max	T max	Q min	Q ₀	q	
-	mm	inch	mm								kN		kg/m	_
S32 S42 S45 S52 S55 S62 S77 S88	29,21 34,93 41,4 38,1 41,4 41,91 58,34 66,27	1,15 1,38 1,63 1,50 1,63 1,65 2,30 2,61	11,43 14,27 15,24 15,24 17,78 19,05 18,26 22,86	15,88 19,05 22,23 22,23 22,23 26,2 22,23 28,58	4,45 7,0 5,72 5,72 5,72 5,72 8,9 8,9	26,7 34,3 37,7 37,7 37,7 40,3 43,2 49,8	28,8 37,0 40,4 40,4 40,4 43,0 46,4 53,0	13,2 19,8 17,3 17,3 17,3 17,3 26,2 26,2	1,8 2,8 2,8 2,8 2,8 2,8 2,5 4,0 4,0	1,8 2,8 2,8 2,8 2,8 2,5 4,0 4,0	8,0 27,0 18,0 18,0 26,7 45,0 45,0	21,6 50,8 36,1 36,1 36,1 36,1 73,1 73,1	0,86 1,6 1,68 1,8 1,8 1,87 2,66 3,25	PHC S32X PHC S42X PHC S45X PHC S52X PHC S55X PHC S62X PHC S77X PHC S88X

Table 1

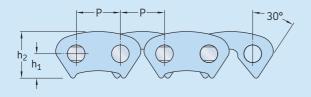
SKF Silent Chains

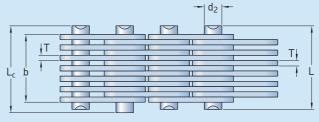
SKF Silent Chains (or inverted tooth chains) are manufactured to comply with GB10855 (equivalent to SC Series silent chains ANSI B29.2M), which are most commonly used for industrial applications. All silent chains are made up of stacked rows of flat, tooth shaped driving links that mesh with sprockets having compatible tooth spaces, similar to a rack and pinion mesh. Typically, chains will also contain guide links, whose purpose is to maintain proper tracking of the chain on the sprockets. Washers or spacers may be present in some chain constructions. All of these components are held together by riveted pins located at each chain joint end. Pin and rocker joint design minimizes heat and allows for low wear rates during power transmission. These chains transmit power smoothly, efficiently and economically.

Application

SKF Silent Chains offer unique advantages and options in both power transmission and conveying applications. In power transmission applications, silent chains are capable of transmitting loads and speeds that exceed the capability of all other chains and belts. Drives are compact and efficient, operating with little noise or vibration. In conveying applications, silent chains provide a durable, heat resistant, non-slip, flat, conveying surface that runs with a nearly constant linear velocity.

Flank contact

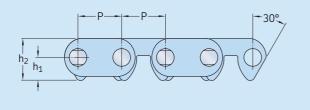


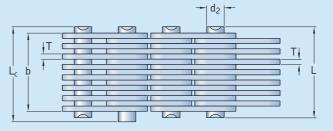


Chain number	Dimens Pitch	ions Chain width	Pin diam- eter	Pin len	gth	Distance from hole center to tooth	Plate height		Guide form	Number of plates	Ultimate tensile strength	tensile	per	t Designation
	Ρ	b min	d ₂ max	Lmax	L _C max	h ₁	h ₂ max	T max			Q min	Q ₀	q	
-	mm	mm							_	n	kN		kg/m	_
CL06-13,5 CL06-16,5 CL06-19,5 CL06-22,5 CL06-28,5	9,525	13,5 16,5 19,5 22,5 28,5	3,95	18,5 21,5 24,5 27,5 33,5	20,0 23,0 26,0 29,0 35,0	5,3	10,0	1,5	Outside Outside Outside Outside Inside	11 13 15	10,0 12,5 15,0 17,5 22,5	11,2 14,0 16,8 19,6 25,2	0,60 0,73 0,85 1,00 1,26	PHC CL06-13.5 PHC CL06-16.5 PHC CL06-19.5 PHC CL06-22.5 PHC CL06-28.5
CL08-19,5 CL08-22,5 CL08-25,5 CL08-28,5 CL08-34,5 CL08-40,5 CL08-46,5 CL08-52,5	12,700	19,5 22,5 25,5 28,5 34,5 40,5 46,5 52,5	5,08	24,5 27,5 30,5 33,5 39,5 45,5 51,5 57,5	26,0 29,0 32,0 35,0 41,0 47,0 53,0 59,0	7,0	13,4	1,5	Outside Outside Inside Inside Inside Inside Inside	15	23,4 27,4 31,3 35,2 43,0 50,8 58,6 66,4	26,2 30,6 35,0 39,4 48,1 56,8 65,6 74,3	1,15 1,33 1,50 1,68 2,04 2,39 2,74 3,10	PHC CL08-19.5 PHC CL08-22.5 PHC CL08-25.5 PHC CL08-28.5 PHC CL08-34.5 PHC CL08-40.5 PHC CL08-46.5 PHC CL08-52.5
CL10-30,0 CL10-38,0 CL10-46,0 CL10-54,0 CL10-62,0	15,875	30,0 38,0 46,0 54,0 62,0	5,92	37,0 45,0 53,0 61,0 69,0	38,2 46,2 54,2 62,4 70,4	8,7	16,7	2,0	Inside Inside Inside Inside Inside	15 19 23 27 31	45,6 58,6 71,7 84,7 97,7	50,6 65,0 79,5 94,0 108,4	2,21 2,80 3,39 3,99 4,58	PHC CL10-30.0 PHC CL10-38.0 PHC CL10-46.0 PHC CL10-54.0 PHC CL10-62.0
CL12-38,0 CL12-46,0 CL12-54,0 CL12-62,0 CL12-70,0	19,050	38,0 46,0 54,0 62,0 70,0	6,90	45,0 53,0 61,0 69,0 77,0	46,5 54,5 62,8 70,8 78,8	10,5	20,0	2,0	Inside Inside Inside Inside Inside	19 23 27 31 35	70,0 86,0 102,0 117,0 133,0	77,6 95,4 113,2 129,8 147,6	3,37 4,08 4,78 5,50 6,20	PHC CL12-38.0 PHC CL12-46.0 PHC CL12-54.0 PHC CL12-62.0 PHC CL12-70.0
CL16-45,0 CL16-51,0 CL16-57,0 CL16-69,0 CL16-81,0 CL16-93,0	25,400	45,0 51,0 57,0 69,0 81,0 93,0	8,90	52,0 58,0 64,0 76,2 88,2 100,2	53,5 59,5 65,5 77,7 89,7 101,7	14,0	26,7	3,0	Inside Inside Inside Inside Inside Inside	15 17 19 23 27 31	111,0 125,0 141,0 172,0 203,0 235,0	123,2 138,7 156,5 190,9 225,3 260,8	5,31 6,02 6,37 8,15 9,57 10,98	PHC CL16-45.0 PHC CL16-51.0 PHC CL16-57.0 PHC CL16-69.0 PHC CL16-81.0 PHC CL16-93.0
CL20-57,0 CL20-69,0 CL20-81,0 CL20-93,0 CL20-105,0 CL20-117,0)	57,0 69,0 81,0 93,0 105,0 117,0	10,84	66,6 78,6 90,6 102,6 114,6 126,6	117,6	17,5	33,4	3,0	Inside Inside Inside Inside Inside Inside	19 23 27 31 35 39	165,0 201,0 237,0 273,0 310,0 346,0	183,1 223,1 263,2 303,0 341,0 380,6	11,96 13,73 15,50	PHC CL20-57.0 PHC CL20-69.0 PHC CL20-81.0 PHC CL20-93.0 PHC CL20-105.0 PHC CL20-117.0

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of CL06-13.5 is PHC CL06-13.5X5MTR.

Crotch contact



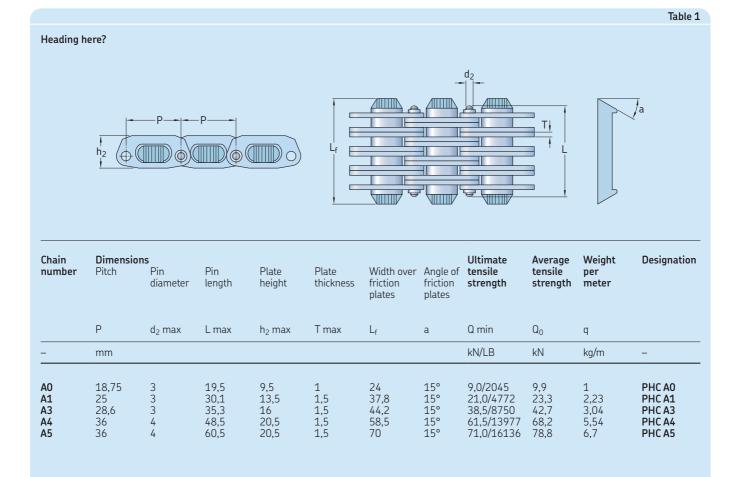


Chain number	Dimen Pitch	s ions Chain width	Pin diameter	Pin len	gth	Distance from hole center to tooth	e height	Plate thick- ness	Guide form	Number of plates	Ultimate tensile strength	tensile	Weight per meter	Designation
	Ρ	b min	d ₂ max	L max	L _C max	h ₁	h ₂ max	T max			Q min	Q ₀	q	
-	mm								-		kN		kg/m	_
C4-120 C4-123 C4-129 C4-132 C4-138 C4-150	12,7	19,5 22,5 28,5 31,5 37,5 49,5	5,08	24,5 27,5 33,5 35,5 42,5 54,5	26,0 29,0 35,0 38,0 44,0 56,0	6,62	12,1	1,5	Inside Inside Inside Inside Inside	13 15 19 21 25 33	20,0 23,0 28,5 31,5 38,0 50,0	22,2 25,5 31,6 34,9 42,1 55,5	1,20 1,37 1,72 1,89 2,22 2,90	PHC C4-120 PHC C4-123 PHC C4-129 PHC C4-132 PHC C4-138 PHC C4-136
C4-320 C4-323 C4-329 C4-332 C4-338	12,7	19,5 22,5 28,5 31,5 37,5	5,08	24,5 27,5 33,5 36,5 42,5	26,0 29,0 35,0 38,0 44,0	6,62	12,1	1,5	Outside Outside Outside Outside Outside	13 15 19 21 25	20,0 23,0 28,5 31,5 38,0	22,2 25,5 31,6 34,9 42,1	1,21 1,38 1,73 1,90 2,23	PHC C4-320 PHC C4-323 PHC C4-329 PHC C4-332 PHC C4-338

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of C4-120 is PHC C4-120X5MTR.

SKF PIV Chains (Self forming tooth chains)

SKF PIV Chains (positive infinitely variable chains) comply with the ZBJ18003-89 standard for the application of chain driven gear boxes. These chains are used for the roller type infinite speed variators of the textile industry, on automotive variable speed drives as well as in variable pitch V grooves.



Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of A1 is PHC A1X5MTR.

SKF Oil Field Chains

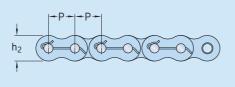
SKF Oil Field Chains are used in oil industry applications where extreme loads and harsh operating conditions occur. These chains are manufactured according to API specifications and are designed to withstand heavy shock loads and extreme drive conditions.

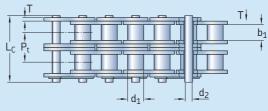
Installation and maintenance are easy and simple. Oil field chains have distinctive "crook shank" pins to allow for easy assembly and dismantling.



Multiple strands of SKF Oil Field Chains inside a mud pump

SKF Oil Field Chains





Chain number	ANSI Chain	Dimensio Pitch	ns Roller	Width	Pin	Pin	Inner	Plate	Transverse	Ultimate tensile	Weight per	Designation
	number		diameter			length	plate height	thickness	pitch	strength	meter	
		Ρ	d ₁ max	$b_1 \min$	d ₂ max	L _C max	h ₂ max	T max	Pt	Q min	q	
		mm								kN	kg/m	_
165-1 205-1 245-1 285-1 325-1 365-1 405-1	80-1 100-1 120-1 140-1 160-1 180-1 200-1	25,400 31,750 38,100 44,450 50,800 57,150 63,500	15,88 19,05 22,23 25,40 28,58 35,71 39,68	15,75 18,90 25,22 25,22 31,55 35,48 37,85	7,92 9,53 11,10 12,70 14,27 17,46 19,85	37,55 44,3 54,4 59,0 69,6 78,6 87,2	24,1 30,0 36,2 42,2 48,2 54,3 60,3	3,25 4,00 4,80 5,60 6,40 7,20 8,00	- - - - -	55,6 86,9 125,1 170,3 222,4 281,5 347,5	2,60 3,91 5,62 7,50 10,10 13,45 16,15	PHC 16S-1 PHC 20S-1 PHC 24S-1 PHC 28S-1 PHC 32S-1 PHC 36S-1 PHC 40S-1
165-2	80-2	25,400	15,88	15,75	7,92	66,8	24,1	3,25	29,29	111,2	5,15	PHC 16S-2
205-2	100-2	31,750	19,05	18,90	9,53	80,5	30,1	4,00	35,76	173,7	7,80	PHC 20S-2
245-2	120-2	38,100	22,23	25,22	11,10	99,7	36,2	4,80	45,44	250,2	11,70	PHC 24S-2
285-2	140-2	44,450	25,40	25,22	12,70	107,8	42,2	5,60	48,87	340,5	15,14	PHC 28S-2
325-2	160-2	50,800	28,58	31,55	14,27	127,5	48,2	6,40	58,55	444,8	20,14	PHC 32S-2
365-2	180-2	57,150	35,71	35,48	17,46	144,4	54,3	7,20	65,84	562,9	29,22	PHC 36S-2
405-2	200-2	63,500	39,68	37,85	19,85	158,8	60,3	8,00	71,55	695,0	32,24	PHC 40S-2
165-3	80-3	25,400	15,88	15,75	7,92	96,1	24,1	3,25	29,29	166,8	7,89	PHC 16S-3
205-3	100-3	31,750	19,05	18,90	9,53	116,3	30,1	4,00	35,76	260,6	11,77	PHC 20S-3
245-3	120-3	38,100	22,23	25,22	11,10	145,2	36,2	4,80	45,44	375,3	17,53	PHC 24S-3
285-3	140-3	44,450	25,40	25,22	12,70	156,8	42,2	5,60	48,87	510,8	22,20	PHC 28S-3
325-3	160-3	50,800	28,58	31,55	14,27	186,6	48,2	6,40	58,55	667,2	30,02	PHC 32S-3
365-3	180-3	57,150	35,71	35,48	17,46	210,2	54,3	7,20	65,84	844,4	38,22	PHC 36S-3
405-3	200-3	63,500	39,68	37,85	19,85	230,4	60,3	8,00	71,55	1042,5	49,03	PHC 40S-3
165-4	80-4	25,400	-	15,75	7,92	122,9	24,1	3,25	29,29	222,4	10,24	PHC 16S-4
205-4	100-4	31,750	19,05	18,90	9,53	151,5	30,1	4,00	35,76	347,5	15,39	PHC 20S-4
245-4	120-4	38,100	22,23	25,22	11,10	190,6	36,2	4,80	45,44	500,4	22,19	PHC 24S-4
285-4	140-4	44,450	25,40	25,22	12,70	205,7	42,2	5,60	48,87	681,1	29,63	PHC 28S-4
325-4	160-4	50,800	28,58	31,55	14,27	245,2	48,2	6,40	58,55	889,6	39,94	PHC 32S-4
405-4	200-4	63,500	39,68	37,85	19,85	302,0	60,3	8,00	71,55	1390,0	63,60	PHC 40S-4
16S-5	80-5	25,400	-	15,75	7,92	152,2	24,1	3,25	29,29	278,0	12,79	PHC 16S-5
20S-5	100-5	31,750	19,05	18,90	9,53	187,8	30,1	4,00	35,76	434,4	19,22	PHC 20S-5
24S-5	120-5	38,100	22,23	25,22	11,10	236,1	36,2	4,80	45,44	625,5	27,71	PHC 24S-5
165-6	80-6	25,400	15,88	15,75	7,92	181,5	24,1	3,25	29,29	333,6	15,34	PHC 16S-6
205-6	100-6	31,750	19,05	18,90	9,53	223,6	30,1	4,00	35,76	521,2	23,05	PHC 20S-6
245-6	120-6	38,100	22,23	25,22	11,10	281,6	36,2	4,80	45,44	750,6	33,24	PHC 24S-6
285-6	140-6	44,450	25,40	25,22	12,70	303,4	42,2	5,60	48,87	1021,6	44,38	PHC 28S-6
325-6	160-6	50,800	28,58	31,55	14,27	362,3	48,2	6,40	58,55	1334,4	59,83	PHC 32S-6
405-6	200-6	63,500	39,68	37,85	19,85	445,0	60,3	8,00	71,55	2085,0	95,23	PHC 40S-6
165-8	80-8	25,400	15,88	15,75	7,92	240,1	24,1	3,25	29,29	444,8	20,44	PHC 16S-8
205-8	100-8	31,750	19,05	18,90	9,53	295,1	30,1	4,00	35,76	695,0	30,71	PHC 20S-8
245-8	120-8	38,100	22,23	25,22	11,10	372,4	36,2	4,80	45,44	1000,8	44,28	PHC 24S-8

Standard lengths are 10 ft. To complete designation, add chain length. For example, a 10 ft. box of 40S-6 is PHC 40S-6X10FT. For links, add "C/L" for "connecting" and "O/L" for "offset" to the designation.

С

SKF Leaf Chains

SKF Leaf Chains are designed for high load, slow speed tension linkage applications. Often, they are specified for reciprocating motion lifting devices such as forklifts or as counterweight chains for elevators or telescoping equipment, e.g. cranes. The chains are typically supplied in a specific length and connected to a clevis at each end. The clevis may accommodate "male" ends (inside links) or "female" ends (outside links), as required. SKF Leaf Chains are available in series: AL, BL, LL, FL, 12XX, 15XX, 19XX and 25XX. The AL and BL series are based on American chain standards, while the LL series is based on British chain standards. BL series leaf chains are made according to the ASME/ANSI B29.8 American standard. LL series leaf chains are made in accordance with the ISO 606 international standard. A chain with an even number of pitches has one male and one female end. A chain with an odd number of pitches have either two male or two female ends.

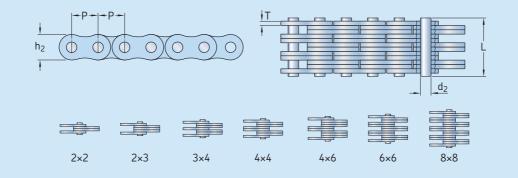
Application

The applications for these chains include counterweight chain for masts, elevator and oven doors, forklift truck masts, spinning frames and any other lifting or balancing application.



SKF Leaf Chains used for lifting in a forklift mast

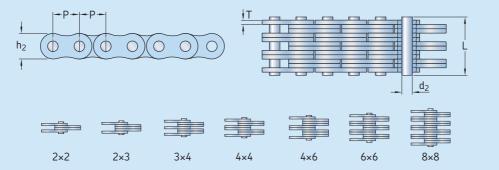
SKF Leaf Chains - ANSI BL422-BL888



ANSI Chain number	BS/ISO Chain number	Dimensio Pitch	ns Plate lacing	Plate height	Plate thickness	Pin diameter	Pin length	Ultimate tensile strength	Average tensile strength	Weight per meter	Designation
		Ρ		h ₂ max	T max	d ₂ max	L max	Q min	Q ₀	q	
-		mm	-					kN		kg/m	_
BL422 BL423 BL434 BL444 BL446 BL466 BL488	LH0822 LH0823 LH0834 LH0844 LH0846 LH0866 LH0888	12,7	2 × 2 2 × 3 3 × 4 4 × 4 4 × 6 6 × 6 8 × 8	12,07	2,08	5,09	11,05 13,16 17,40 19,51 23,75 27,99 36,45	22,2 22,2 33,4 44,5 44,5 66,7 89,0	27,6 27,6 41,4 56,0 56,0 81,7 109,4	0,64 0,80 1,12 1,28 1,60 1,92 2,56	PHC BL422 PHC BL423 PHC BL434 PHC BL444 PHC BL446 PHC BL466 PHC BL468
BL522 BL523 BL534 BL544 BL546 BL566 BL588	LH1022 LH1023 LH1034 LH1044 LH1046 LH1066 LH1088	15,875	2 × 2 2 × 3 3 × 4 4 × 4 4 × 6 6 × 6 8 × 8	15,09	2,44	5,96	12,90 15,37 20,32 22,78 27,74 32,69 42,57	33,4 33,4 48,9 66,7 66,7 100,1 133,4	43,1 43,1 65,6 84,5 84,5 125,1 169,5	0,88 1,10 1,50 1,80 2,20 2,65 3,50	PHC BL522 PHC BL523 PHC BL534 PHC BL544 PHC BL546 PHC BL566 PHC BL588
BL622 BL623 BL634 BL644 BL646 BL666 BL688	LH1222 LH1223 LH1234 LH1244 LH1246 LH1266 LH1288	19,05	2 × 2 2 × 3 3 × 4 4 × 4 4 × 6 6 × 6 8 × 8	18,11	3,30	7,94	17,37 20,73 27,43 30,78 37,49 44,20 57,61	48,9 48,9 75,6 97,9 97,9 146,8 195,7	63,6 63,6 102,8 120,9 120,9 190,8 238,8	1,45 1,80 2,50 2,90 3,60 4,30 5,80	PHC BL622 PHC BL623 PHC BL634 PHC BL644 PHC BL646 PHC BL666 PHC BL668
BL822 BL823 BL834 BL844 BL846 BL866 BL888	LH1622 LH1623 LH1634 LH1644 LH1646 LH1666 LH1688	25,4	2 × 2 2 × 3 3 × 4 4 × 4 4 × 6 6 × 6 8 × 8	24,13	4,09	9,54	21,34 25,48 33,76 37,90 46,18 54,46 71,02	84,5 84,5 129,0 169,0 169,0 253,6 338,1	108,2 108,2 170,0 214,6 214,6 324,5 432,7	2,20 2,70 3,80 4,30 5,40 6,50 8,60	PHC BL822 PHC BL823 PHC BL834 PHC BL844 PHC BL846 PHC BL866 PHC BL888

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of BL422 is PHC BL422X10FT.

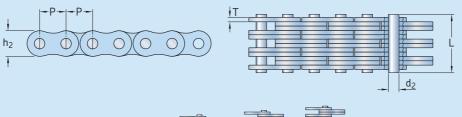
SKF Leaf Chains - ANSI BL1022-BL2088



ANSI Chain	BS/ISO Chain	Dimensio Pitch	ns Plate	Plate	Plate	Pin	Pin	Ultimate tensile	Average tensile	Weight per	Designation
number	number		lacing	height	thickness	diameter	length	strength	strength	meter	
		Ρ		h ₂ max	T max	$d_2 \max$	L max	Q min	Q ₀	q	
-		mm	-					kN		kg/m	-
BL1022 BL1023 BL1034 BL1044 BL1046 BL1066 BL1088	LH2022 LH2023 LH2034 LH2044 LH2046 LH2066 LH2088	31,75	2 × 2 2 × 3 3 × 4 4 × 4 4 × 6 6 × 6 8 × 8	30,18	4,9	11,11	25,37 30,33 40,23 45,19 55,09 65,00 84,81	115,6 115,6 182,4 231,3 231,3 347,0 462,6	150,8 150,8 231,6 291,4 291,4 430,3 555,1	3,40 4,30 6,00 6,90 8,60 10,30 13,80	PHC BL1022 PHC BL1023 PHC BL1034 PHC BL1034 PHC BL1046 PHC BL1066 PHC BL1088
BL1222 BL1223 BL1234 BL1244 BL1246 BL1266 BL1288	LH2422 LH2423 LH2434 LH2444 LH2446 LH2466 LH2488	38,1	2 × 2 2 × 3 3 × 4 4 × 4 4 × 6 6 × 6 8 × 8	36,20	5,77	12,71	29,62 35,43 47,07 52,88 64,52 76,15 99,42	151,2 151,2 244,6 302,5 302,5 453,7 605,0	192,0 192,0 315,9 381,1 381,1 543,6 726,0	4,6 5,8 8,1 9,3 11,6 13,9 18,6	PHC BL1222 PHC BL1223 PHC BL1234 PHC BL1234 PHC BL1244 PHC BL1246 PHC BL1266 PHC BL1288
BL1422 BL1423 BL1434 BL1444 BL1446 BL1466 BL1488	LH2822 LH2823 LH2834 LH2844 LH2846 LH2866 LH2888	44,45	2 × 2 2 × 3 3 × 4 4 × 4 4 × 6 6 × 6 8 × 8	42,24	6,55	14,29	33,55 40,16 53,37 59,97 73,18 86,39 112,80	191,3 191,3 315,8 382,6 382,6 578,3 765,1	225,7 225,7 372,6 451,2 451,2 682,4 902,8	6,1 7,6 10,6 12,2 15,2 18,2 24,3	PHC BL1422 PHC BL1423 PHC BL1434 PHC BL1434 PHC BL1444 PHC BL1446 PHC BL1488
BL1622 BL1623 BL1634 BL1644 BL1646 BL1666 BL1688	LH3222 LH3223 LH3234 LH3244 LH3246 LH3266 LH3288	50,8	2 × 2 2 × 3 3 × 4 4 × 4 4 × 6 6 × 6 8 × 8	48,26	7,52	17,46	39,01 46,58 61,72 69,29 84,43 99,57 129,84	289,1 289,1 440,4 573,8 578,3 857,4 1156,5	341,1 341,1 519,6 680,4 680,4 1000,7 1364,6	8,0 10,0 14,0 16,0 20,0 24,0 32,0	PHC BL1622 PHC BL1623 PHC BL1634 PHC BL1634 PHC BL1644 PHC BL1646 PHC BL1688
BL2022 BL2023 BL2034 BL2044 BL2046 BL2066 BL2088	LH4022 LH4023 LH4034 LH4044 LH4046 LH4066 LH4088	63,5	2 × 2 2 × 3 3 × 4 4 × 4 4 × 6 6 × 6 8 × 8	60,33	9,91	23,81	51,74 61,70 81,61 91,57 111,48 131,39 171,22	433,7 433,7 649,4 867,4 867,4 1301,1 1734,8	511,7 511,7 766,2 1023,5 1023,5 1535,2 2046,5	15,8 19,8 27,7 31,6 39,5 47,4 63,2	PHC BL2022 PHC BL2023 PHC BL2034 PHC BL2044 PHC BL2046 PHC BL2066 PHC BL2088

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of BL1022 is PHC BL1022X10FT.

SKF Leaf Chains - BS/ISO LL0822-LL4888





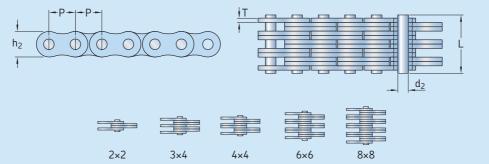
8×8

BS/ISO Chain number	Dimensions Pitch	Plate lacing	Plate height	Plate thickness	Pin diameter	Pin length	Ultimate tensile strength	Average tensile strength	Weight per meter	Designation
	Ρ		h ₂ max	T max	d ₂ max	L max	Q min	Q ₀	q	
	mm	-					kN		kg/m	_
LL0822 LL0844 LL0866 LL0888	12,7	2 × 2 4 × 4 6 × 6 8 × 8	10,6	1,6	4,45	8,9 15,6 22,0 28,5	18,2 36,4 54,6 72,8	20,4 40,7 60 80	0,42 0,84 1,24 1,64	PHC LL0822 PHC LL0844 PHC LL0866 PHC LL0888
LL1022 LL1044 LL1066 LL1088	15,875	2 × 2 4 × 4 6 × 6 8 × 8	13,7	1,6	5,08	9,2 15,8 22,1 28,8	22,7 45,4 68,1 90,8	25,5 51 76,3 101,9	0,54 1,06 1,57 2,1	PHC LL1022 PHC LL1044 PHC LL1066 PHC LL1088
LL1222 LL1244 LL1266 LL1288	19,05	2 × 2 4 × 4 6 × 6 8 × 8	16	1,85	5,72	10,4 17,9 25,4 32,9	29,5 59,0 88,5 118,0	33,2 66,4 99,7 132,9	0,73 1,44 2,15 2,84	PHC LL1222 PHC LL1244 PHC LL1266 PHC LL1288
LL1622 LL1644 LL1666 LL1688	25,4	2 × 2 4 × 4 6 × 6 8 × 8	21	3,1	8,28	17,2 29,6 42,4 54,9	58,0 116,0 174,0 232,0	66,7 140 208,8 278	1,52 2,9 4,3 5,71	PHC LL1622 PHC LL1644 PHC LL1666 PHC LL1688
LL2022 LL2044 LL2066 LL2088	31,75	2 × 2 4 × 4 6 × 6 8 × 8	26,4	3,5	10,19	20,1 33,8 50,1 64,0	95,0 190,0 285,0 380,0	109,2 218,5 324,6 435,1	2,33 4,4 6,79 8,9	PHC LL2022 PHC LL2044 PHC LL2066 PHC LL2088
LL2422 LL2444 LL2466 LL2488	38,1	2 × 2 4 × 4 6 × 6 8 × 8	33,4	5	14,63	28,4 46,3 66,4 86,6	170,0 340,0 510,0 680,0	195,5 380,8 571,2 775,2	4,47 8,22 12,22 16,3	PHC LL2422 PHC LL2444 PHC LL2466 PHC LL2488
LL2822 LL2844 LL2866 LL2888	44,45	2 × 2 4 × 4 6 × 6 8 × 8	37,08	6	15,9	32,2 56,4 80,8 105,2	200,0 400,0 600,0 800,0	224 448 672 896	5,1 9,9 14,6 19,4	PHC LL2822 PHC LL2844 PHC LL2866 PHC LL2888
LL3222 LL3244 LL3266 LL3288	50,8	2 × 2 4 × 4 6 × 6 8 × 8	42	6,4	17,81	34,8 60,6 86,4 112,2	260,0 520,0 780,0 1040,0	291,2 582,4 873,6 1176	6,2 12,3 18,3 24	PHC LL3222 PHC LL3244 PHC LL3266 PHC LL3288
LL4022 LL4044 LL4066 LL4088	63,5	2 × 2 4 × 4 6 × 6 8 × 8	52,76	8	22,89	42,2 74,4 106,5 140,0	360,0 780,0 1080,0 1440,0	403,2 873,6 1209,6 1747,2	10,3 20 30 39,1	PHC LL4022 PHC LL4044 PHC LL4066 PHC LL4088
LL4822 LL4844 LL4866 LL4888	76,2	2 × 2 4 × 4 6 × 6 8 × 8	63,88	10	29,24	54,6 92,6 133,4 174,2	560,0 1120,0 1680,0 2240,0	627,2 1554,4 1880 2508,8	18,5 35,7 53 70,4	PHC LL4822 PHC LL4844 PHC LL4866 PHC LL4888

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of BL1022 is PHC BL1022X10FT.

Table 3

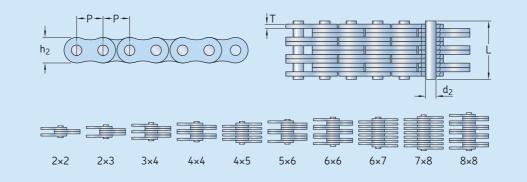
SKF Leaf Chains - ANSI AL322-AL1688



ANSI Chain number	Dimension Pitch	s Plate lacing	Plate height	Plate thickness	Pin diameter	Pin length	Ultimate tensile strength	Average tensile strength	Weight per meter	Designation
	Ρ		h ₂ max	T max	d ₂ max	L max	Q min	Q ₀	q	
	mm	_					kN		kg/m	_
AL322 AL344	9,525	2 × 2 4 × 4	7,7	1,3	3,58	6,80 11,60	9,0 18,0	10,2 20,0	0,23 0,46	PHC AL322 PHC AL344
AL422 AL444 AL466	12,7	2 × 2 4 × 4 6 × 6	10,4	1,5	3,96	8,30 14,40 20,50	14,1 28,2 42,3	16,9 35,2 52,7	0,39 0,74 1,13	PHC AL422 PHC AL444 PHC AL466
AL522 AL534 AL544 AL566	15,875	2 × 2 3 × 4 4 × 4 6 × 6	12,8	2,03	5,08	11,05 17,00 19,40 27,50	22,0 33,0 44,0 66,0	27,5 46,0 55,0 82,5	0,64 1,10 1,25 1,79	PHC AL522 PHC AL534 PHC AL544 PHC AL566
AL622 AL644 AL666 AL688	19,05	2 × 2 4 × 4 6 × 6 8 × 8	15,6	2,42	5,94	13,00 22,70 32,20 42,20	37,0 63,7 100,1 133,4	44,4 78,8 118,6 156,6	0,86 1,76 2,60 3,49	PHC AL622 PHC AL644 PHC AL666 PHC AL688
AL822 AL844 AL866	25,4	2 × 2 4 × 4 6 × 6	20,5	3,25	7,92	16,00 29,40 44,20	56,7 113,4 170,0	68,6 135,6 202,3	1,54 3,00 4,46	PHC AL822 PHC AL844 PHC AL866
AL1022 AL1044 AL1066 AL1088	31,75	2 × 2 4 × 4 6 × 6 8 × 8	25,6	4	9,53	19,60 36,40 52,30 68,50	88,5 177,0 265,0 354,0	107,1 203,6 315,3 421,2	2,37 4,68 7,20 9,94	PHC AL1022 PHC AL1044 PHC AL1066 PHC AL1088
AL1222 AL1244 AL1266 AL1288	38,1	2 × 2 4 × 4 6 × 6 8 × 8	30,5	4,8	11,1	24,30 43,80 63,20 82,60	127,0 254,0 381,0 508,0	151,1 299,7 426,3 568,4	3,65 7,05 10,50 14,03	PHC AL1222 PHC AL1244 PHC AL1266 PHC AL1288
AL1444 AL1466	44,45	4 × 4 6 × 6	36,4	5,6	12,64	51,30 74,56	372,7 559,0	413,6 620,4	10,34 15,16	PHC AL1444 PHC AL1466
AL1644 AL1666 AL1688	50,8	4 × 4 6 × 6 8 × 8	41,6	6,4	14,21	58,00 83,80 109,50	471,0 706,0 942,0	522,8 783,6 1045,5	12,98 19,76 25,47	PHC AL1644 PHC AL1666 PHC AL1688

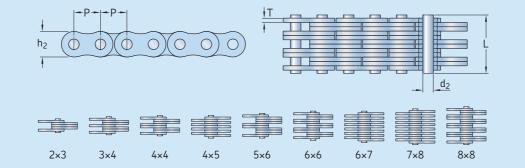
Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of AL322 is PHC AL322X10FT.

SKF Leaf Chains - FL, F19V, FLC



Chain number	Dimension : Pitch	s Plate lacing	Plate height	Plate thickness	Pin diameter	Pin length	Ultimate tensile strength	Average tensile strength	Weight per meter	Designation
	Ρ		h ₂ max	T max	d ₂ max	L max	Q min	Q ₀	q	
_	mm	_					kN		kg/m	_
FL644 FL666 FL688 FL844 FL944 FL966 F122 F1223 FL1244 F19V-44 F19V-44 F19V-66 FLC534 FLC556 FLC1056 FLC1056 FLC1078	5,940 5,940 5,940 8,000 9,525 12,700 12,700 12,700 19,050 15,875 15,875 31,750 31,750 31,750	4×4 6×8 4×4 6×2 4×4 6×2 4×4 6×2 4×4 6×5 4×4 5×6 5×7 7×8	4,7 4,7 6,9 8,7 8,7 10,2 10,2 15,2 15,2 15,2 12,7 12,7 12,7 12,7 25,4 25,4	0,60 0,60 0,73 1,04 1,00 2,03 1,70 2,42 2,42 1,85 1,85 1,85 1,85 3,25 3,25 3,25	1,85 1,85 2,31 3,28 3,58 4,45 4,45 4,45 6,50 6,50 5,08 5,08 5,08 5,08 5,08 5,08 5,08 5	6,6 9,3 12,0 7,9 10,4 14,9 7,0 12,8 16,7 22,4 32,3 15,3 19,2 22,7 40,6 47,2 53,8	6,50 9,75 13,00 21,00 31,00 11,43 20,00 44,00 71,00 106,00 40,40 54,30 67,60 137,90 165,40 193,00	7,8 11,8 15,6 12,1 24,7 36,8 13,6 23,8 52,3 84,3 125,9 44,4 59,7 74,3 151,0 181,9 212,0	0.13 0.20 0.25 0.43 0.65 0.19 0.61 0.83 1.73 2.57 0.99 1.27 1.54 5.44 6.42 7.40	PHC FL644 PHC FL666 PHC FL688 PHC FL944 PHC FL966 PHC F122 PHC F1223 PHC F1223 PHC F12244 PHC F19V-44 PHC F19V-44 PHC FLC534 PHC FLC556 PHC FLC556 PHC FLC1067 PHC FLC1078

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of AL322 is PHCAL322X10FT.



Chain number	Dimensio Pitch P	Plate lacing	Plate height	Plate thickness	Pin diameter	Pin length	Chain length over 100 pitches (±0,25%)	Ultimate tensile strength	Weight per meter	Designation
	· 		h ₂ max	T max	d ₂ max	L max		Q min	q	
	mm	_						kN	kg/m	
1234 1256 1288	12,7	3 × 4 5 × 6 8 × 8	10,6	1,7	4,45	14,2 21,1 29,9	1262	31,0 53,0 85,0	0,75 1,17 1,70	PHC 1234 PHC 1256 PHC 1288
1523 1534 1544 1545 1556 1566 1567 1578 1588	15,875	2 × 3 3 × 4 4 × 6 5 × 6 6 × 6 6 × 7 7 × 8 8 × 8	12,7	1,94	5,08	12,1 16,0 18,1 20,3 24,0 26,2 28,0 32,5 34,0	1580	29,0 46,0 58,0 72,0 87,0 90,0 101,0 115,0	0,75 1,04 1,18 1,33 1,63 1,77 1,91 2,20 2,34	PHC 1523 PHC 1534 PHC 1544 PHC 1545 PHC 1556 PHC 1566 PHC 1567 PHC 1578 PHC 1588
1944 1966 1988	19,05	4×4 6×6 8×8	15,0	2,29	5,72	21,3 30,7 40,0	1891	73,0 110,0 140,0	1,58 2,37 3,13	PHC 1944 PHC 1966 PHC 1988
2523 2534 2545 2556 2567 2578 2588	25,4	2 × 3 3 × 4 4 × 5 5 × 6 6 × 7 7 × 8 8 × 8	20,2	3,06	8,28	18,8 25,3 31,6 37,2 43,8 50,0 52,8	2532	72,0 108,0 144,0 180,0 216,0 252,0 290,0	1,83 2,55 3,26 3,96 4,68 5,39 5,77	PHC 2523 PHC 2534 PHC 2545 PHC 2556 PHC 2567 PHC 2578 PHC 2588

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box OF1234 is PHC 1234X10FT.

Chain chemical resistance comparison

The selection of the correct chain type for the application also requires an assessment of the material type the chain is made from, or plated, and how this will react with the expected environment.

The information in the chart is given as a guideline only, not a guarantee for the performance of the materials, the variables for each operating condition, such as heat and concentration, can substantially change the results.

Chain chemical resistance comparison

Substance	Concentration	Temperature	Carbon steel	Stainles	s steel grad	e
				304	316	600
-	_	°C	_			
Acetic acid	5–10%	20	•			
Acetone	-	20	•		A	A
lcohol	-	-	A	A	A	A
Ammonia water	-	-	\bigtriangledown	A	A	A
Ammonia nitrate	Saturated	Boiling	•	A	A	A
Beer	-	20	\bigtriangledown	A	A	A
Benzene		20	A	A	A	A
Boric acid	50%	Boiling	•	A	A	A
Butyric acid	_	20	A	A	A	A
Calcium chloride	Saturated	20	•	\bigtriangledown	A	•
Calcium hydroxide	20%	Boiling	•	A	A	A
arbolic acid	-	-	•	A	A	A
arbon tetrachloride (dry)	-	20	\bigtriangledown	A	A	A
chlorinated water	-	-	•	•	A	•
hlorine gas (dry)	-	20	•	\bigtriangledown	\bigtriangledown	•
hlorine gas (moist)		20	•	•		•
hromic acid	5%	20	•	A	▲	A
Chocolate	- 50%	_ 20			A	A
Citric acid Coffee		Boiling		A	A	A
erric acid	- 50%			.	.	A
Ferric chloride	50%	20 20				
Formalin (formaldehyde)	5% 40%	20				
Formic acid	40% 50%	20	-			
Fruit juice	50%	20				
Gasoline	_	20				
Grape husk	_	_	-	-		-
Glycerol	_	20				
loney/molasses	_	_		- -	- -	
lydrochloric acid	2%	20			-	-
lydrogen peroxide	30%	20				
lydrogen sulphide (dry)	_	_				
lydrogen sulphide (moist)	_	_	•	•	•	•
odine	_	_	•	•	•	
actic acid	10%	20	•	A	A	V
inseed oil	100%	20				~

Not Corrosion Resistant

Chain chemical resistance compa	rison					
Substance	Concentration	Temperature	Carbon steel	Stainles	s steel grade	9
			5000	304	316	600
_	-	°C	-			
Mayonnaise	-	20	•	A	A	\bigtriangledown
Milk	-	20	A	A	A	A
Nitric acid	5%	20	•	A	A	\bigtriangledown
Nitric acid	65%	20	•	A	A	\bigtriangledown
Nitric acid	65%	Boiling	•	\bigtriangledown	\bigtriangledown	•
Oil	-	20	A	A	A	A
Oil (vegetable, mineral)	-	20	A	A	A	A
Oxalic acid	10%	20	•	A	A	\bigtriangledown
Paraffin	-	20	A	A	A	A
Petroleum	-	20	A	A	A	A
Phosphoric acid	5%	20	•	A	A	\bigtriangledown
Phosphoric acid	10%	20	•	\bigtriangledown	\bigtriangledown	\bigtriangledown
Potassium	Saturated	20	•	A	A	\bigtriangledown
Potassium bichromate	10%	20	•	A	A	A
Potassium chloride	Saturated	20	•		A	A
Potassium hydroxide	20%	20	•		A	
Potassium nitrate	25%	20	•		A	
Potassium nitrate	25%	Boiling	•			•
Seawater	_	20		∇	∇	
Soap + water solution	_	20	∇		Å	
Sodium carbonate	Saturated	Boiling	•	—	—	—
Sodium chloride	5%	20			—	$\overline{\nabla}$
Sodium cyanide	_	20		.	—	ě
Sodium hydrocarbonate	_	20				
Sodium hydroxide	25%	20				
Sodium hyperchlorite	10%	20				
Sodium perchlorate	10%	Boiling				
		J. J	-			-
Soft drink	-	20	\bigtriangledown	A		A
Stearic acid	100%	Boiling	•	•	\bigtriangledown	•
Sugar solution	-	20	•	A	A	A
Spirits	-	20	A	A	A	A
Sulphuric acid (sulfuric)	5%	20	•	•	A	•
Sulphuric acid (sulfuric)	40%	20	•	•	•	•
Toulene	-	20	\bigtriangledown	\bigtriangledown	\bigtriangledown	\bigtriangledown
Turpentine	-	30	A	A	A	A
Vegetable juice	-	20	\bigtriangledown	A	A	A
Vinegar	-	20	•	\bigtriangledown	A	\bigtriangledown
Water	-	-	•	A	A	A
Whiskey	-	20	•	A	A	A
Wine	-	20	A	A	A	A
Zinc chloride	50%	20	•	\bigtriangledown	\bigtriangledown	•
Zinc sulfate	25%					

Chain chemical resistance comparison

Legend for Symbols 🔺 Highly Corrosion Resistant 🔹 🔹 Not Corrosion Resistant

The corrosion resistance of plated carbon steel chains is better than non plated carbon steel chains, but not as good as the stainless steel options.

Some indicative comparisons for corrosion resistance is given below, along with relative costs (to that of standard chains)

Plating / Coating	Conditions / Environment	Relative cost (to Std chain)	Typical corrosion resistance to		Typical effect on Q _{min²⁾}
			Rain	Seawater	
_	-	°C	_		
Zinc plated (ZP) ¹⁾	Better anti-corrosion than nickel plate, not environmental plating process	1.25–1.30	•	∇	0,85
Nickel plated (NP) ¹⁾	Outdoor use plated chain, mildly corrosive resistant	1.15–1.20	\bigtriangledown	•	0,95
Dacrotized (DR) ¹⁾	Best treatment for anti-corrosion of carbon steel chains, next to Stainless steel	1.60–1.70	•	•	1,00
Legend for Symbols	 Highly Corrosion Resistant Not Corro 	sion Resistant	⊽ Marginal	Corrosion Resistant	

¹⁾ The plating types used in all the above processes can be prone to flaking or dusting when being used in certain conditions. They can therefore not be used in applications where the chains come into direct contact with food, as there is a very small chance of product contamination.
 ²⁾ Where standard carbon steel chains are plated, the process may have an affect on the chains performance, and as a result, the UTS (O_{min}) and working load may have to be adjusted by the factors indicated. There is no effect on capacity when using a "darcotised" chain.

The plated chains are all plated before assembly, to ensure full coverage of each part.

NOTE: The plating types used in all the above processes can be prone to flaking or dusting when being used in certain conditions. They can therefore not be used in applications where the chains come into direct contact with food, as there is a very small chance of product contamination.

Useful formulae for power transmission

1 Power (kW) 1.1 Mechanical Power (kW_M)

$$kW_{M} = \frac{M_{T} \times rpm}{9550} \quad (kW)$$

Where

M_T Torque (moment) [Nm] rpm revolutions per minute [min⁻¹]

1.2 Electrical Power (kW_E):-

$$kW_{E} = \frac{\sqrt{3} \times V \times I \times Cos \varphi}{1,000} \quad (kW)$$

Where

V	Voltage
	(Typically 415 V for 3 ph.; 240 V for single ph.)
1	Current (amps)

- cos φ Power Factor (typically 0.82–0.95. Ref motor catalogue)
- √3 1.73 (A constant for 3 phase machines...415 V. (Ignore for single phase machines... typically 240 V AC)

Note: To calculate the output kW, multiply the kW_{E} by the overall mechanical efficiency (0 ξm).

2 Torque (or Moment) (M_T) 2.1 Basic Formulae:-

 $M_T = F \times r (Nm)$

Where

F Force (Newtons) r radius of element (metres)

2.2 Power and speed known

 $M_{T} = \frac{kW \times 60 \times 10^{3}}{2 \times \pi \times rpm}$ (Nm)

Where

 M_T
 Torque (Moment) [Nm]

 kW
 Kilowatt [kW]

 rpm
 revolutions per minute [min⁻¹]

 9 550 is a constant, derived from: (60 × 10³) / 2π

2.3 Alternatively, this may be reduced to

$$M_{T} = \frac{kW \times 9950}{rpm} \quad (Nm)$$

3 Overhung loads (Radial Force) (F_R)
 3.1 Radial Force [F_R]

$$F_{\rm R} = \frac{2 \times kW \times 9950}{d \ \rm rpm} \ (N)$$

WherekWPower [kW]dPitch Circle Diameter - pcd - [m]rpmrevolutions per minute [min⁻¹]

3.2 Overhung Loads $[F_R]$:

$$F_{R} = \frac{2 \times kW \times 9950 \times K}{d \times rpm}$$
 (N)

Where A Constant, dependent on the driving element, K₁ typically For Chain Pinions (>19T) = 1.00 (14T-18T) = 1.25(<13T) = 1.40 Gears (>17T) = 1.15 (<17T) = 1.30 **V-Pulleys** = 1.50 Flat Belts = 2.50 - 3.00 (dependent on type / construction or material)

4 Velocity (Linear Motion) (m/s)4.1 Velocity (ν)

$$v = \frac{d \times \pi \times rpm}{60 \times 10^3}$$
 (m/s)

Where

v velocity in metres per second [m/s]
d pitch circle diameter - pcd - [mm].
(Note: If the pitch diameter is in metres, ignore the ×10³ denominator).

4.2 For Chain Drives (v₁)

$$v_1 = \frac{p \times z \times rpm}{60 \times 10^3} \quad (m/s)$$

Where

p chain pitch (mm)

z No of teeth of sprocket

4.3 Angular Acceleration (a) may be derived from the above

$$\alpha = \frac{(v_1 - v_2)}{t} \quad 2 \times \pi \text{ (rad/sec^2)}$$

Where

5 Sprocket (or Chain Wheel) pitch diameters (Ø_p)
 5.1 Pitch Diameters (Ø_n)

$$\varnothing_{\rm p} = \left[\sin \frac{180}{z}\right]^{-1}$$
 (mm)

Where

 Øp
 Pitch diameter [mm]

 z
 No of teeth of sprocket

 p
 Chain Pitch [mm]

 Sin
 Trig. Function

6 Ratios (i)

$$i = \frac{N_1}{N_2} = \frac{M_2}{M_1} = \frac{D_1}{D_2} = \frac{Z_2}{Z_1}$$
 (:1) (no unit!)

Where

 $\begin{array}{ll} N_1, N_2 & \text{input and output speeds respectively [rpm]} \\ M_1, M_2 & \text{input and output torque (moment) respectively [Nm]} \\ \varnothing_1, \varnothing_2 & \text{DriveR \& DriveN pulleys (mm or inch)} \\ Z_1, Z_2 & \text{Number of Sprocket Teeth on DriveR and DriveN} \end{array}$

- 7 Factors and efficiencies
 - **7.1** Gearbox efficiencies (ξ) (Typical only. Refer to manufacturers' tables for actual values)
 - **7.1.1** Helical units single reduction 0.97 Double reduction 0.94 Triple reduction 0.91
 - **7.1.2** Spur units single reduction 0.95 Double reduction 0.91 Triple reduction 0.88
 - 7.1.3 Worm units For small units (centres < 150 mm ...), an approximation of the mechanical efficiency can be made by means of subtracting the ratio from 100. (e.g. For a 40:1 ratio unit, the oξm is approx. 60%.... The larger the worm box centres, the more efficient (relatively) the unit!!!
 - 7.2 V, Multi-rib and Synchronous Belts
 - 7.2.1 Standard V-belts...classical jacketed 0.94 0.97
 - 7.2.2 Raw-edge type V-belts 0.96 0.98
 - **7.2.3** Standard synchronous (Trapezoidal profile CTB) 0.96 0.97
 - **7.2.4** High Performance sync. Belts 0.97 0.98 (Curvilinear and modified Curvilinear....)

(The above belt efficiencies are based on new installations, with correctly maintained tensions).

7.3 (More common) Co-efficient of friction (μ) for different

	materials		
	Steel on Steel	Static friction (dry)	μο = 0.12 – 0.6
Sliding friction (dry)			μο = 0.08 – 0.5
	Static friction (great	μο = 0.12 – 0.35	
	Sliding friction (grea	ased)	μο = 0.04 – 0.25
	Wood on Steel	Static friction (dry)	µo = 0.45 – 0.75
	Sliding friction (dry))	μο = 0.30 – 0.60
	Wood on Wood	Static friction (dry)	μο = 0.40 – 0.75
	Sliding friction (dry))	μο = 0.30 – 0.50
	Polymer on Wood	Static friction (dry)	μο = 0.25 – 0.45
	Sliding friction (dry))	μο = 0.25
	Steel on Polymer	Static friction (dry)	µo =0.40 – 0.45
	Sliding friction (grea	ased)	μο = 0.18 – 0.35

8 Common conversion factors and constants

8.1 Power [kW]

Hp × 0.746	Kilowatt (kW)
PS × 0.7355	Kilowatt (kW)
kp m/s × 0.0981	Kilowatt (kW)
kcal/s × 4.1868	Kilowatt (kW)

8.2 Torque (Moment) [Nm]

kgf-m × 9.81	Newton-metre (Nm)
lbf-in × 0.1129	Newton-metre (Nm)
lbf-ft × 1.36	Newton-metre (Nm)

8.3	Force [N] Kgf × 9.81 lbf × 4.45 Kp × 9.81 (Kp = kilopond)	Newton (N) Newton (N) Newton (N)
8.4	Pressure and stress (pascal (Pa) lb/in² × 6.895 × 10³	MN/m² or N/mm²) 10² N/m² newton/metre² (N/m²)
8.5		196.86 feet / minute metres/second (m/s) 0.447 metres / second (m/s)
8.6	Capacity flow 1 litre / sec 1 m ³ / s	0.5886 × 10 ³ ft ³ / min 35.3147 ft ³ /s (cusec)
8.7	Density pound / inch ³ ton/yard ³	27.68 gram / centimeter 2.768 × 10 ⁴ kilogramme/metre ³ (kg/m ³) 693.6 kilogramme/metre ³ (kg/m ³)
8.8	Mass pound (lb) kilogramme stone ounce (oz) Ton (short)	0.4536 kilogramme (kg) 2.205 pounds (lb) 6.35 kilogramme (kg) 0.02835 kilogramme (kg) 0.9072 tonne (metric)

8.9 Energy

BTU (British Thermal Unit) 1 055 Joule (J) 1 055 newton-metre (Nm) 0.252 kilocalorie 0.02931 × 10³ kilowatt-hour (kWh) 0.393 × 10³ horsepower-hour

SKF Lubrication Systems

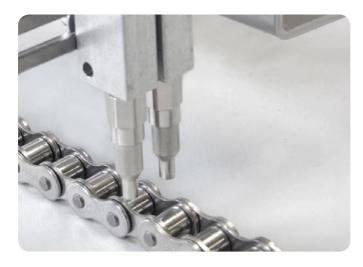
SKF can recommend the right oil projection system for specific application needs.

SKF ChainLube, air assisted oil projection system

Is best suited to lubricate chains where no pitch detection is possible due to fast movement of chain or when pitch is too small (less than 50 mm). Regulated carrier air flow is used to project small amount of lubricant, having viscosity up to 400 cSt with virtually no mist formation around the projection nozzles.

SKF ChainLube, airless oil projection system

Suitable for accurate lubrication of chains pitch-by-pitch without the need to connect to a compressed air supply. Suitable for lubrication of chains with medium pitch (50 to 300 mm), where speed is below 2 pitches/second.





Modular and flexible system to project wide range of viscosity lubricants to several lubrication points (commonly up to 12).



A compact unit with integrated automation, pumping systems and reservoir makes installation simple and user friendly. It serves up to 8 lubrication points.





SKF ChainLube oil projection systems can be set up with SKF food grade chain lubricant for low temperature and humid environment or other type of lubricant used on site.

D

Reduced maintenance

SKF Power Transmission and SKF Maintenance Products together help you mount, lubricate, align and maintain your application more efficiently.

Chain drives

By using high quality steel and paying careful attention to the smallest details in the manufacturing process, SKF chains are built for endurance. Specialized chains, such as the Dacrotized chain, can run longer, even in the most corrosive environments.

Pinpoint accurate shaft alignment simply achieved

The SKF shaft alignment tools, TKSA series, offer you simplicity with a high degree of accuracy.

Measuring, aligning and documenting.

These highly innovative tools feature a three-step process for correct alignment. First, measure the machinery's current alignment status. Then, align the machine vertically and horizontally. Finally, document and keep track of the alignment activities.

Features

- Easy-to-use, three-step process: measure-align-doucment
- Compact, lightweight design
- Spirit levels allow easy and fast positioning of the measuring units
- Measurements in millimeters or inches facilitate worldwide us
- Supplied in sturdy, lightweight carrying cases for portability

Extend your chain life with SKF oils

SKF Chain oils come in three convenient sizes to suit the needs of most chain applications in industrial environments.

The chain oils – medium temperature, high temperature and food compatible (NSF H1) – are available in 400 ml (13,52 oz.) aerosol cans, 5 liter (1,32 gallon) cans, and as an oil fill for SYSTEM 24® single point automatic lubricators.







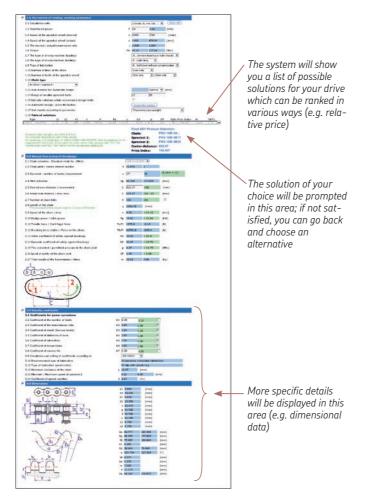


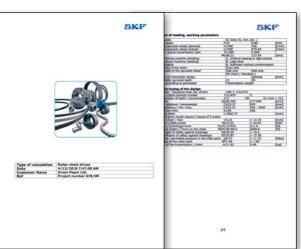


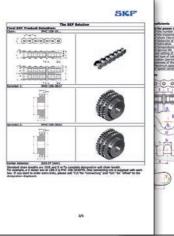
Design optimization

SKF has a calculation program to help optimize your chain drive system. Using your data, the program will select the most efficient and economical solution for your application. The program can be found at www.skfptp.com, under chain drives.

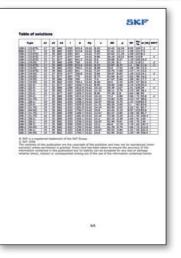
Chain drives











SKF – the knowledge engineering company

From one simple but inspired solution to a misalignment problem in a textile mill in Sweden, and fifteen employees in 1907, SKF has grown to become a global industrial knowledge leader.



Over the years we have built on our expertise in bearings, extending it to seals, mechatronics, services and lubrication systems. Our knowledge network includes 46 000 employees, 15 000 distributor partners, offices in more than 130 countries, and a growing number of SKF Solution Factory sites around the world.

Research and development

We have hands-on experience in over forty industries, based on our employees' knowledge of real life conditions. In addition our world-leading experts and university partners who pioneer advanced theoretical research and development in areas including tribology, condition monitoring, asset management and bearing life theory. Our ongoing commitment to research and development helps us keep our customers at the forefront of their industries.

Meeting the toughest challenges

Our network of knowledge and experience along with our understanding of how our core technologies can be combined helps us create innovative solutions that meet the toughest of challenges. We work closely with our customers throughout the asset life cycle, helping them to profitably and responsibly grow their businesses.

Working for a sustainable future

Since 2005, SKF has worked to reduce the negative environmental impact from our own operations and those of our suppliers. Our continuing technology development introduced the SKF BeyondZero portfolio of products and services which improve efficiency and reduce energy losses, as well as enable new technologies harnessing wind, solar and ocean power. This combined approach helps reduce the environmental impact both in our own operations and in our customers'.

SKF Solution Factory makes SKF knowledge and manufacturing expertise available locally, to provide unique solutions and services to our customers.



Working with SKF IT and logistics systems and application experts, SKF Authorized Distributors deliver a valuable mix of product and application knowledge to customers worldwide.



Design and develop

SKF Life Cycle

Management

Operate and monitor

Manufacture and test

Installando

Our knowledge your success

SKF Life Cycle Management is how we combine our technology platforms and advanced services, and apply them at each stage of the asset life cycle, to help our customers to be more successful, sustainable and profitable.

Working closely with you

Our objective is to help our customers improve productivity, minimize maintenance, achieve higher energy and resource efficiency, and optimize designs for long service life and reliability.

Innovative solutions

Whether the application is linear or rotary or a combination of the two, SKF engineers can work with you at each stage of the asset life cycle to improve machine performance by looking at the entire application. This approach doesn't just focus on individual components like bearings or seals. It looks at the whole application to see how each component interacts with the next.

Design optimization and verification

SKF can work with you to optimize current or new designs with proprietary 3-D modeling software that can also be used as a virtual test rig to confirm the integrity of the design.











SKF fly-by-wire systems for aircraft and drive-bywire systems for off-road, agricultural and forklift applications replace heavy, grease or oil consuming mechanical and hydraulic systems.



Lubrication solutions

From specialized lubricants to state-of-the-art lubrication systems and lubrication management services. lubrication solutions from SKF can help to reduce lubrication related downtime and lubricant consumption.

Actuation and motion control

With a wide assortment of products - from actuators and ball screws to profile rail guides – SKF can work with you to solve your most pressing linear system challenges.

Asintain and repair

Sication

Bearings SKF is the world leader in the design, development and manufacture of high performance rolling bearings, plain bearings, bearing units and housinas.

Machinery maintenance

Condition monitoring technologies and maintenance services from SKF can help minimize unplanned downtime, improve operational efficiency and reduce maintenance costs.

Sealing solutions

SKF offers standard seals and custom engineered sealing solutions to increase uptime, improve machine reliability, reduce friction and power losses, and extend lubricant life.



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PUB PT/P1 13747 EN · June 2013

This publication supersedes publication 6772.

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