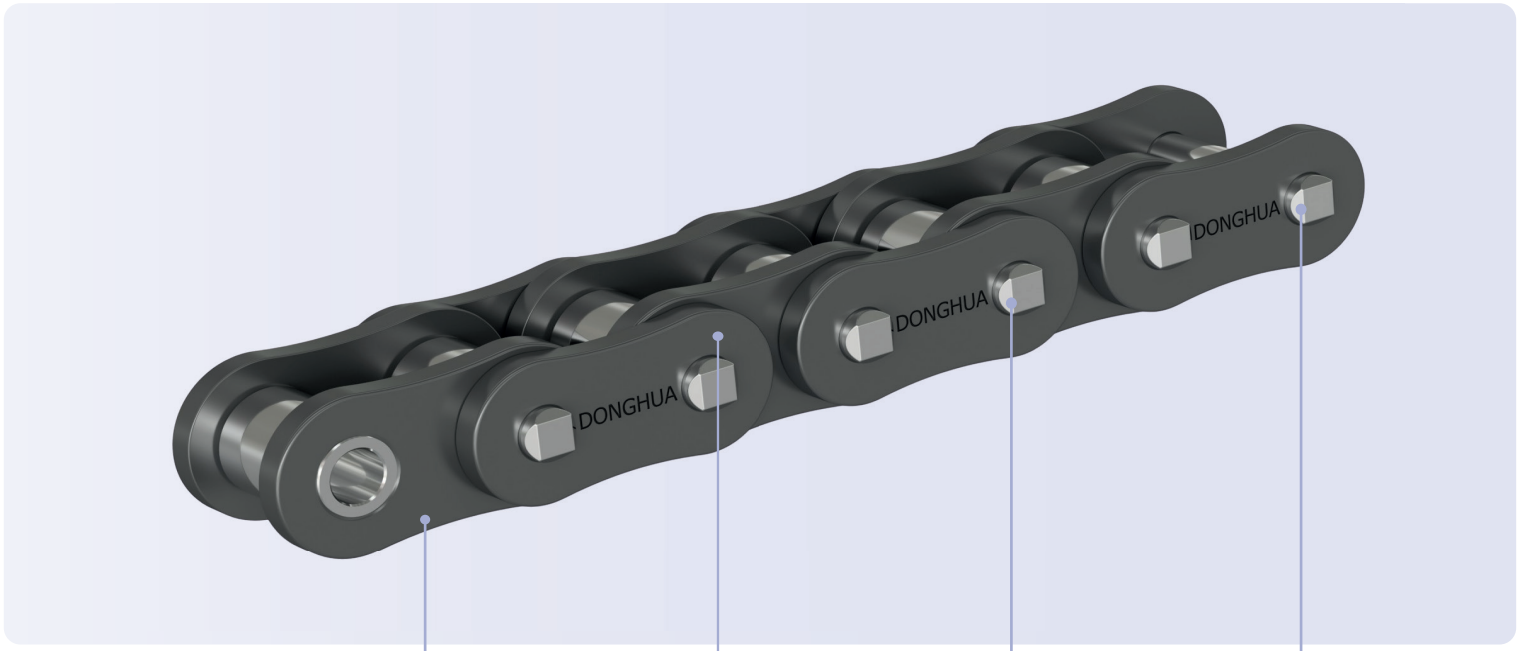
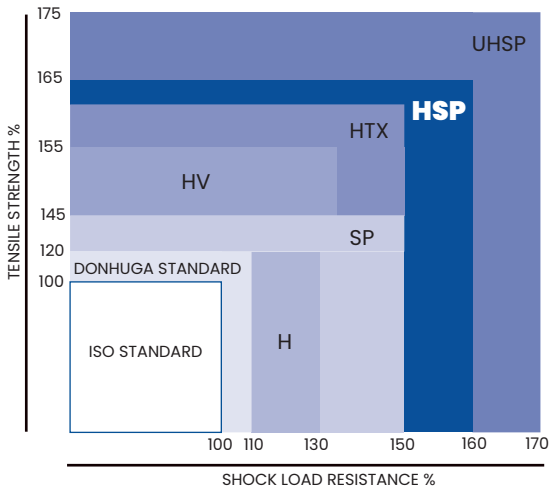
HSP (Heavy Super Power)

High fatigue strength and breakingload for heavy duty applications



HSP (Heavy Super Power)

Designed for maximum strength and durability in demanding applications. Special pin materials, through-hardened, and increased plate thickness enhance tensile strength and ensured reliable performance under extreme static and shock loads. Optimized wide waist plates precision press-fits, and improved multi-strand construction provide high fatigue resistance, superior shock absorption, and extended service life under dynamic conditions.



Technical highlights

- Through-hardened pins
- Special high quality pin material
- Excellent pin-to-plate fit due to calibrated plate holes
- Plates have the thickness of one larger pitch size
- Wide waist plate design
- Up to 60% higher fatigue strength compared to the ISO standard
- Up to 65% higher tensile strength compared to the ISO standard
- Quad-riveted pins
- Chains are pre-loaded at 40 to 50% of the breaking load
- Standard pre-lubricated with DH-1 (temp range -5 to 80 °C)
- Alternative lubricants available for special applications upon request

Industries

- Agricultural machinery
- Construction
- Mining/Drill rigs

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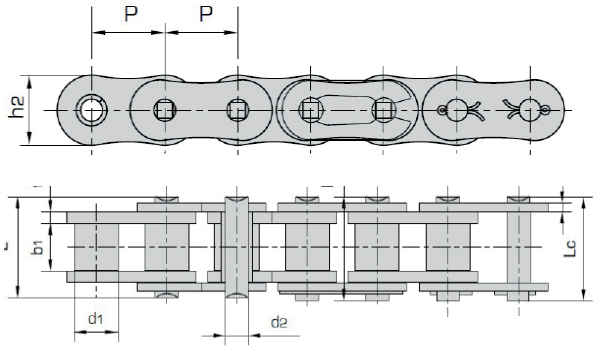
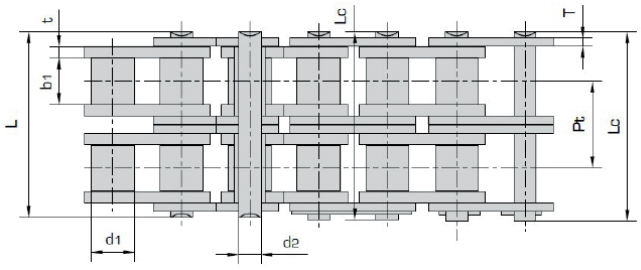
High fatigue strength and breakingload for Heavy duty applications





Donghua Chain no.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Transverse pitch	Tensile strength			Weight per meter
										Acc. to ISO	Acc. to Donghua		
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t/T max	Pt	F min	F min	F Average	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kN	kg/m
ANSI-Simplex													
50-1 HSP	15,870	10,16	9,40	5,08	22,1	23,4	15,09	2,42	-	22,20	36,75	38,0	1,64
60-1 HSP	19,050	11,91	12,57	5,94	29,2	31,0	18,00	3,25	-	31,80	55,00	57,7	1,93
80-1 HSP	25,400	15,88	15,75	7,92	36,2	37,7	24,00	4,00	-	56,70	89,20	98,1	3,36
100-1 HSP	31,750	19,05	18,90	9,53	43,6	46,9	30,00	4,80	-	88,50	131,8	145,0	4,90
120-1 HSP	38,100	22,23	25,22	11,10	53,5	57,5	35,70	5,60	-	127,00	176,0	196	7,12
140-1 HSP	44,450	25,40	25,22	12,70	57,6	62,2	41,00	6,4	-	172,40	232,0	255,0	8,88
160-1 HSP	50,800	28,58	31,55	14,27	68,2	73,0	47,80	7,20	-	226,80	294,5	324,0	11,72
ANSI-Duplex													
#60-2 HSP	19,050	11,91	12,57	5,94	55,3	57,1	18,00	3,25	26,11	62,6	96,1	114,0	3,97
#80-2 HSP	25,400	15,88	15,75	7,92	68,8	72,0	24,00	4,00	32,59	111,20	178,4	196,2	6,65
#100-2 HSP	31,750	19,05	18,90	9,53	82,7	86,0	30,00	4,80	39,09	174,00	263,6	290,0	9,71
#120-2 HSP	38,100	22,23	25,22	11,10	102,4	106,4	35,70	5,60	48,87	250,00	356,4	392,0	14,12
#140-2 HSP	44,450	25,40	25,22	12,70	109,8	114,4	41,00	6,4	52,20	340,00	463,6	510,0	17,38
#160-2 HSP	50,800	28,58	31,55	14,27	130,1	134,9	47,80	7,20	61,90	446,00	588,0	647,0	23,00
ANSI-Triplex													
#60-3 HSP	19,050	11,91	12,57	5,94	81,4	83,2	18,00	3,25	26,11	93,90	144,00	173,0	5,95
#80-3 HSP	25,400	15,88	15,75	7,92	101,4	104,6	24,00	4,00	32,59	166,80	267,6	294,3	9,95
#100-3 HSP	31,750	19,05	18,90	9,53	121,8	125,1	30,00	4,80	39,09	261,00	395,4	435,0	14,53
#120-3 HSP	38,100	22,23	25,22	11,10	151,2	155,2	35,70	5,60	48,87	375,00	534,5	588,0	21,12
#140-3 HSP	44,450	25,40	25,22	12,70	162,0	166,6	41,00	6,4	52,20	510,00	695,5	765,0	25,88
#160-3 HSP	50,800	28,58	31,55	14,27	192,0	196,8	47,80	7,20	61,90	669,00	882,7	971,0	34,22

#Special sprocket required due to the wider transverse pitch than ANSI standard

A
Outer Link

E
Connecting Link Spring (pressfit or slipfit)

S
Connecting Link Cotter (pressfit or slipfit)

L
Offsetlink (L3P)

C
Double Offset Link (C4P)

Notes

- Different sizes are available on request

Contact

+31(0)72 820 0120
info@donghua.eu
www.donghua.eu