



HSP Chains for High Strength & Performance

Based on years of development, testing, and proven performance, the **HSP chain** combines a proven chain design with optimum material and metallurgical specifications to provide performance and value unparalleled in the marketplace.

Key features

- Straight sideplate design to ensure maximum finite fatigue strength
- Ball-drifted inner and outer plates for maximum press-fit bearing area
- Maximum pre-load minimizes initial chain elongation and maximizes chain life
- Shot peened sideplates and rollers for extreme endurance
- Through-hardened shot peened pins with engineered metallurgy further maximizes chain breaking load strength without compromising fatigue strength



Increased average tensile strength of 40-60%

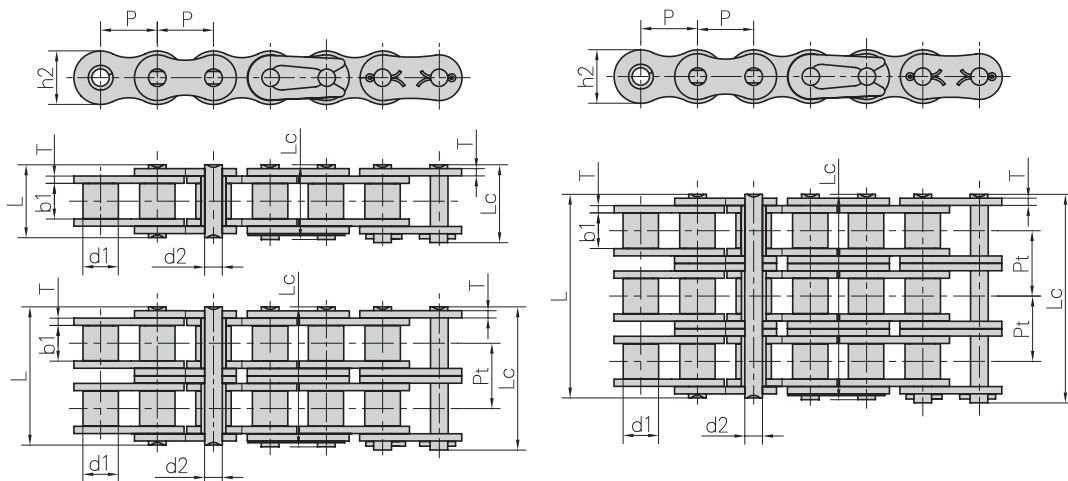


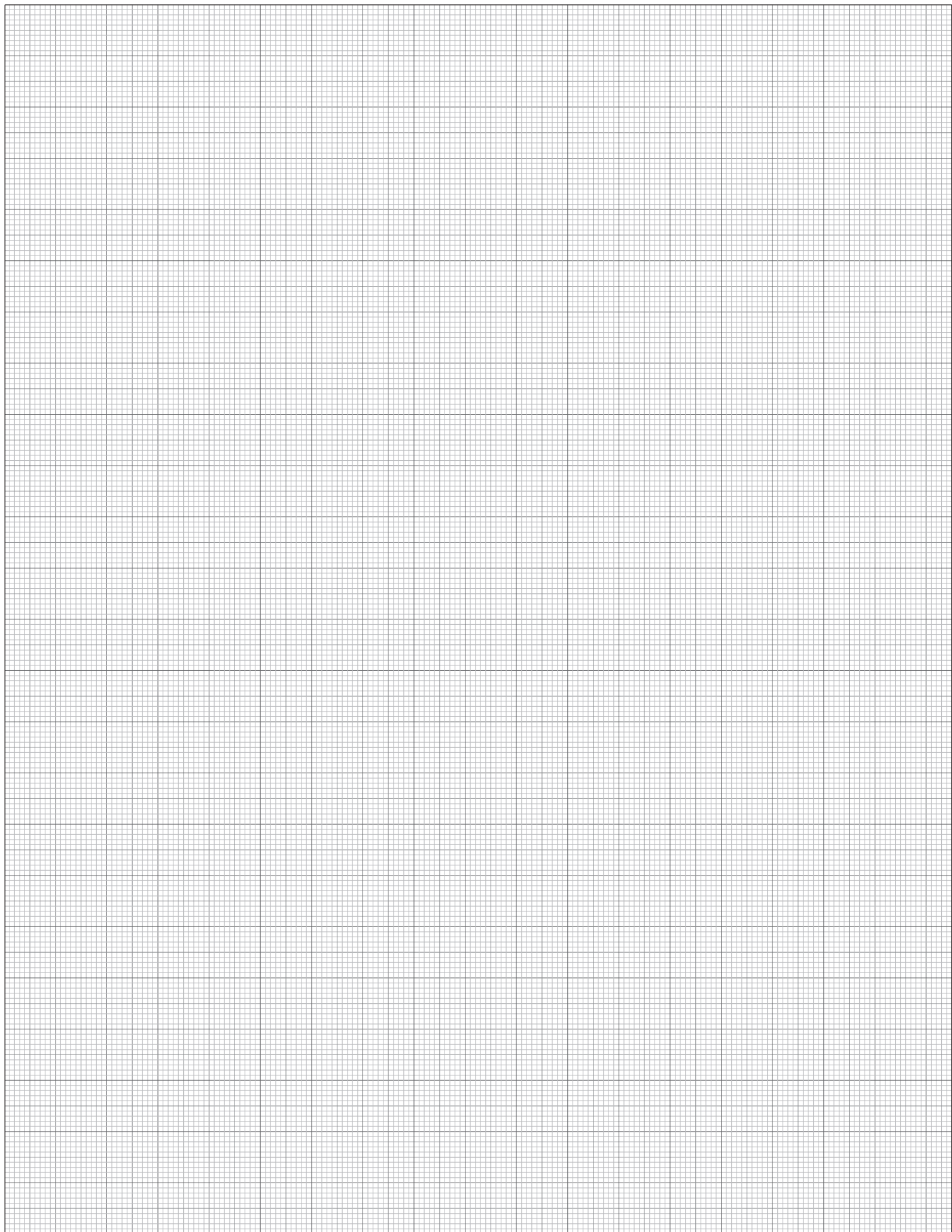
Increased fatigue strength for optimal life

Heavy duty series high precision roller chains according to ANSI B 29.1

Chain no.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Transverse pitch	min. tensile strength	Average tensile strength	Weight per meter	
	ANSI	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T max	Pt	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	LB	kN	kg/m
40HSP	12,700	7,95	7,85	3,96	18,8	19,9	12,00	2,03			Contact iwis	19,1	0,82
50HSP	15,875	10,16	9,40	5,08	22,1	23,4	15,09	2,42			6743	30,2	1,25
60HSP	19,050	11,91	12,57	5,94	29,2	31,0	18,00	3,25			9660	42,7	1,87
80HSP	25,400	15,88	15,75	7,92	36,2	37,7	24,00	4,00			20929	71,4	3,10
100HSP	31,750	19,05	18,90	9,53	43,6	46,9	30,00	4,80			31945	112,4	4,52
120HSP	38,100	22,23	25,22	11,10	53,5	57,5	35,70	5,60			40892	160,9	6,60
140HSP	44,450	25,40	25,22	12,70	57,6	62,2	41,00	6,40			52273	217,3	8,30
160HSP	50,800	28,58	31,55	14,27	68,2	73,0	47,80	7,20			64173	285,8	10,30
180HSP	57,150	35,71	35,48	17,46	75,9	81,6	53,60	8,0			75909	341,8	14,83
200HSP	63,500	39,68	37,85	19,85	86,6	93,5	60,00	9,50			100109	444,5	19,16
240HSP	76,200	47,63	47,35	23,81	109,6	115,9	72,30	12,70			144391	622,5	30,40
60HSP-2	19,050	11,91	12,57	5,94	55,3	57,1	18,00	3,25	26,11		19320	84,5	3,71
80HSP-2	25,400	15,88	15,75	7,92	68,8	70,3	24,00	4,00	32,59		41589	145,3	6,15
100HSP-2	31,750	19,05	18,90	9,53	82,7	86,0	30,00	4,80	39,09		63890	225,9	9,03
120HSP-2	38,100	22,23	25,22	11,10	102,4	106,4	35,70	5,60	48,87		81785	322,7	13,13
140HSP-2	44,450	25,40	25,22	12,70	109,8	114,4	41,00	6,40	52,20		10446	437,7	16,60
160HSP-2	50,800	28,58	31,55	14,27	130,1	134,9	47,80	7,20	61,90		128348	571,6	20,20
200HSP-2	63,500	39,68	37,85	19,85	164,9	171,8	60,00	9,50	78,31		200218	894,9	38,11
60HSP-3	19,050	11,91	12,57	5,94	81,4	83,2	18,00	3,25	26,11		28738	113,9	5,54
80HSP-3	25,400	15,88	15,75	7,92	101,4	102,9	24,00	4,00	32,59		62263	203,5	9,42
100HSP-3	31,750	19,05	18,90	9,53	121,8	125,1	30,00	4,80	39,09		95036	314,8	12,96
120HSP-3	38,100	22,23	25,22	11,10	151,2	155,2	35,70	5,60	48,87		121653	444,7	19,64
140HSP-3	44,450	25,40	25,22	12,70	162,0	166,6	41,00	6,40	52,20		155512	598,4	24,90
160HSP-3	50,800	28,58	31,55	14,27	192,0	196,8	47,80	7,20	61,90		190914	787,3	30,10

* Bushing chain: d1 in the table indicate the external diameter of the bushing. These chains have no rollers.







HSP – Designed and manufactured to the highest strength durability standards in the roller chain industry.

Let us prove it! Qualified OEMs eligible for free HSP chain.



More than 15 pulsers are available for testing dynamic fatigue strength according to different testing methods



Testing of chain wear elongation behavior on more than 20 testing rigs



Evaluation of chain breaking strength and elongation up to 1000kN

Your perfect engineering partner

iwis utilizes state-of-the-art equipment to test the ultimate tensile, fatigue load, and wear characteristics of our chains. Our laboratory has the capabilities to carry out many different testing possibilities including microscopy, metallography, evaluation of mechanical properties, chemical composition and qualified analysis of data.

This investment into R&D allows iwis to engineer and deliver a product that will meet the requirements of each application while being commercially viable.

Let us prove it!

