

Renold ANSI Heavy Series Chain

RENOLD HEAVY SERIES

Extra shock resistant pins

Extra round components with seamless roller/bush



Shock resistant



Fatigue resistant



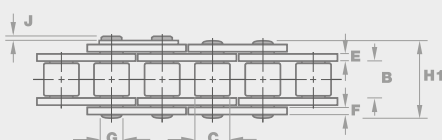
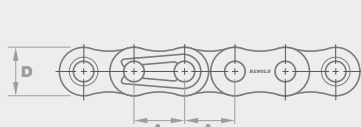
High loads

Extra finish shot peening ball drifting

Extra security interference fits

Extra thick plates resists heavy loads

...THE HEAVY DUTY CHAIN



No. 4



No. 11/58



No. 107



No. 26

Product description

RENOLD HEAVY SERIES chain incorporates the usual Renold performance enhancing features including seamless bushes, ball drifted plate holes, shot peening and optimum interference fits. The extra features incorporated into this range of chain is classified by:

- Thicker side plates denoted by 'H'. These plates are approximately 20% thicker than standard ANSI chain
- Through hardened pins, denoted by 'V'

The gearing dimensions of ANSI XTRA chain are identical to our standard ANSI simplex range and will therefore run on standard sprockets.

The larger transverse pitch of duplex and triplex chains with heavy duty side plates (H or HV range) require special sprockets.

The range can therefore be summarised as follows:

H Range - Identical to standard ANSI chain with the exception of the overall width. Thicker plates give this chain excellent resistance to heavy loads and help absorb shock. Duplex and triplex chain must have sprockets with an increased transverse pitch of the teeth.

V Range - Identical dimensions to standard ANSI chain but with a higher breaking load

and excellent resistance to shock loads.

HV Range - A combination of the 'H' and 'V' chain, giving excellent resistance to both heavy and shock loads.

A further enhancement to the chain life can be achieved by hardening the sprocket teeth of the drive. 'H' and 'HV' chains are designed for improved fatigue life, therefore offset and slip fit joints which have a lower fatigue resistance are not recommended.

Shown below is an easy to use features guide to help in selecting chain to suit its application.

Chain Type	Strength	Wear	Heavy Loads	Shock Loads	High Speeds
Standard ANSI	Good	Excellent	Good	Good	Excellent
HEAVY H Range	Good	Excellent	Excellent	Good	Not Suitable
HEAVY V Range	Excellent	Good	Good	Excellent	Good
HEAVY HV Range	Excellent	Good	Excellent	Excellent	Not Suitable

Renold ANSI Heavy Series Chain

ANSI HEAVY SERIES roller chain is specifically designed and manufactured for arduous applications where frequent, impulsive or heavy loads are involved, or where

operating conditions are severe as in the mining, quarrying, rock drilling, forestry and construction industries. This chain is interchangeable with our standard ANSI range

and can be used to upgrade the performance of existing applications subject to normal design and installation checks. Multiplex versions are also available on request.

Chain Ref.		Technical Details (mm)												Connecting Links	
Renold Chain No.	ANSI Ref.	Pitch (inch)	Pitch (mm)	Inside Width	Roller Diam.	Plate Height	Plate Width Inner	Plate Width Outer	Pin Diam.	Pin Length	Conn. Link Extension	Transverse Pitch	ISO606 Tensile Strength (NEWTONS)	Weight kg/m	
					MIN	MAX	MAX	MAX	MAX	MAX	MAX	NOM	MIN		

ANSI HEAVY SERIES - Simplex and Multiplex

		A	A	B	C	D	E	F	G	H1	J	K			
60H1	60H-1	0.750	19.050	12.570	11.910	17.500	3.170	3.170	5.940	28.600	4.600	-	31300	1.800	4 107 58
60H2	60H-2	0.750	19.050	12.570	11.910	17.500	3.170	3.170	5.940	57.000	4.600	26.110	62600	3.600	4 107 58
60H3	60H-3	0.750	19.050	12.570	11.910	17.500	3.170	3.170	5.940	83.100	4.600	26.110	93900	5.400	4 107 58
60HV1	60HV-1	0.750	19.050	12.570	11.910	17.500	3.170	3.170	5.940	28.600	4.600	-	55000	1.800	4 107 58
60HV2	60HV-2	0.750	19.050	12.570	11.910	17.500	3.170	3.170	5.940	57.000	4.600	26.110	110000	3.550	4 107 58
60HV3	60HV-3	0.750	19.050	12.570	11.910	17.500	3.170	3.170	5.940	83.100	4.600	26.110	165000	5.300	4 107 58
80H1	80H-1	1.000	25.400	15.750	15.880	24.050	4.060	4.060	7.940	37.000	5.400	-	55600	3.300	4 107 58
80H2	80H-2	1.000	25.400	15.750	15.880	24.050	4.060	4.060	7.940	68.700	5.400	32.590	112200	6.600	4 107 58
80H3	80H-3	1.000	25.400	15.750	15.880	24.050	4.060	4.060	7.940	101.300	5.400	32.590	166800	9.900	4 107 58
80V1	80V-1	1.000	25.400	15.750	15.880	24.050	3.250	3.250	7.940	33.500	5.400	-	75000	2.800	4 107 11 58
80V2	80V-2	1.000	25.400	15.750	15.880	24.050	3.250	3.250	7.940	62.700	5.400	29.290	150000	5.500	4 107 11 58
80V3	80V-3	1.000	25.400	15.750	15.880	24.050	3.250	3.250	7.940	91.900	5.400	29.290	225000	8.300	4 107 11 58
80HV1	80HV-1	1.000	25.400	15.750	15.880	24.050	4.060	4.060	7.940	37.000	5.400	-	87000	3.300	4 107 58
80HV2	80HV-2	1.000	25.400	15.750	15.880	24.050	4.060	4.060	7.940	69.000	5.400	32.590	174000	6.600	4 107 58
80HV3	80HV-3	1.000	25.400	15.750	15.880	24.050	4.060	4.060	7.940	102.000	5.400	32.590	261000	9.900	4 107 58
100H1	100H-1	1.250	31.750	18.900	19.050	29.970	4.800	4.800	9.540	44.100	6.100	-	87000	4.800	4 107 58
100H2	100H-2	1.250	31.750	18.900	19.050	29.970	4.800	4.800	9.540	83.200	6.100	39.090	174000	10.300	4 107 58
100H3	100H-3	1.250	31.750	18.900	19.050	29.970	4.800	4.800	9.540	122.300	6.100	39.090	261000	15.500	4 107 11 58
100V1	100V-1	1.250	31.750	18.900	19.050	29.970	4.060	4.060	9.540	41.100	6.100	-	122000	4.200	4 107 11 58
100HV1	100HV-1	1.250	31.750	18.900	19.050	29.970	4.800	4.800	9.540	44.100	6.100	-	133450	4.800	4 107 58
100HV2	100HV-2	1.250	31.750	18.900	19.050	29.970	4.800	4.800	9.540	83.200	6.100	39.090	266900	10.300	4 107 58
100HV3	100HV-3	1.250	31.750	18.900	19.050	29.970	4.800	4.800	9.540	122.300	6.100	39.090	400350	15.450	4 107 58
120H1	120H-1	1.500	38.100	25.230	22.230	35.890	5.610	5.610	11.110	52.5300	6.600	-	125000	6.300	4 107 58
120H2	120H-2	1.500	38.100	25.230	22.230	35.890	5.610	5.610	11.110	105.000	6.600	48.870	250000	12.600	4 107 58
120H3	120H-3	1.500	38.100	25.230	22.230	35.890	5.610	5.610	11.110	158.00	6.600	48.870	375000	18.800	4 107 58
120V1	120V-1	1.500	38.100	25.230	22.230	35.890	4.800	4.800	11.110	50.800	6.600	-	169000	5.700	4 107 11 58
120V2	120V-2	1.500	38.100	25.230	22.230	35.890	4.800	4.800	11.110	96.300	6.600	45.440	338000	11.000	4 107 11 58
120V3	120V-3	1.500	38.100	25.230	22.230	35.890	4.800	4.800	11.110	141.700	6.600	45.440	507000	16.700	4 107 11 58
120HV1	120HV-1	1.500	38.100	25.230	22.230	35.890	5.610	5.610	11.110	52.500	6.600	-	182400	6.300	4 107 58
120HV2	120HV-2	1.500	38.100	25.230	22.230	35.890	5.610	5.610	11.110	52.500	6.600	48.870	364800	6.300	4 107 58
120HV3	120HV-3	1.500	38.100	25.230	22.230	35.890	5.610	5.610	11.110	158.000	6.600	48.870	400350	18.800	4 107 58
140H1	140H-1	1.750	44.450	25.230	25.400	41.810	6.350	6.350	12.710	57.900	7.400	-	170000	8.600	4 107 58
140H2	140H-2	1.750	44.450	25.230	25.400	41.810	6.350	6.350	12.710	106.900	7.400	52.200	340000	16.700	4 107 58
140H3	140H-3	1.750	44.450	25.230	25.400	41.810	6.350	6.350	12.710	160.400	7.400	52.200	510000	25.100	4 107 58
140V1	140V-1	1.750	44.450	25.230	25.400	41.810	5.610	5.610	12.710	54.900	7.400	-	235000	7.800	4 107 11 58
140V2	140V-2	1.750	44.450	25.230	25.400	41.810	5.610	5.610	12.710	103.600	7.400	48.870	470000	15.500	4 107 11 58
140V3	140V-3	1.750	44.450	25.230	25.400	41.810	5.610	5.610	12.710	152.400	7.400	48.870	705000	23.100	4 107 11 58
140HV1	140HV-1	1.750	44.450	25.230	25.400	41.810	6.350	6.350	12.710	57.900	7.400	-	258000	8.600	4 107 58
140HV2	140HV-2	1.750	44.450	25.230	25.400	41.810	6.350	6.350	12.710	106.900	7.400	52.200	516000	16.740	4 107 58
140HV3	140HV-3	1.750	44.450	25.230	25.400	41.810	6.350	6.350	12.710	160.400	7.400	52.200	774000	25.100	4 107 58

For the use of roller or bush chains in lifting applications, it is necessary to specify this in the order to ensure the specific CE mark will be given.

For further information:

t: +44 (0) 161 498 4600

f: +44 (0) 161 498 4565

e: enquiry@renold.com

w: www.renold.com

Also available
from Renold



Sprockets Page 68
For roller chain use



Roll-Ring Page 65
Chain tensioner

Renold ANSI Heavy Series Chain

ANSI HEAVY SERIES - Simplex and Multiplex

		A	A	B	C	D	E	F	G	H1	J	K			
160H1	160H-1	2.000	50.800	31.550	28.580	47.730	7.110	7.110	14.290	68.500	7.900	-	223000	11.200	4 107 58
160H2	160H-2	2.000	50.800	31.550	28.580	47.730	7.110	7.110	14.290	130.400	7.900	61.900	446000	23.500	4 107 58
160H3	160H-3	2.000	50.800	31.550	28.580	47.730	6.350	6.350	14.290	182.900	7.900	61.900	669000	35.200	4 107 58
160V1	160V-1	2.000	50.800	31.550	28.580	47.730	6.350	6.350	14.290	65.500	7.900	-	289000	10.400	4 107 11 58
160HV1	160HV-1	2.000	50.800	31.550	28.580	47.730	7.110	7.110	14.290	68.500	7.900	-	311400	11.200	4 107 58
160HV2	160HV-2	2.000	50.800	31.550	28.580	47.730	7.110	7.110	14.290	130.400	7.900	61.900	622800	23.500	4 107 58
160HV3	160HV-3	2.000	50.800	31.550	28.580	47.730	6.350	6.350	14.290	182.900	7.900	61.900	934250	35.200	4 107 58
180H1	180H-1	2.250	57.150	35.480	35.710	53.510	8.130	8.130	17.460	73.900	9.100	-	281000	15.200	4 107 58
180H2	180H-2	2.250	57.150	35.480	35.710	53.510	8.130	8.130	17.460	140.800	9.100	65.840	562000	30.400	4 107 58
180H3	180H-3	2.250	57.150	35.480	35.710	53.510	8.130	8.130	17.460	206.000	9.100	65.840	843000	45.600	4 107 58
180V1	180V-1	2.250	57.150	35.480	35.710	53.510	7.110	7.110	17.460	73.900	9.100	-	382500	13.940	4 107 11 58
180HV1	180HV-1	2.250	57.150	35.480	35.710	53.510	8.130	8.130	17.460	73.900	9.100	-	422500	15.200	4 107 58
180HV2	180HV-2	2.250	57.150	35.480	35.710	53.510	8.130	8.130	17.460	140.800	9.100	65.840	845000	30.400	4 107 58
180HV3	180HV-3	2.250	57.150	35.480	35.710	53.510	8.130	8.130	17.460	206.000	9.100	65.840	1267500	45.600	4 107 58
200H1	200H-1	2.500	63.500	37.850	39.670	59.560	9.650	9.650	19.850	86.400	10.200	-	347000	19.500	4 107 58
200H2	200H-2	2.500	63.500	37.850	39.670	59.560	9.650	9.650	19.850	164.700	10.200	78.310	694000	39.000	4 107 58
200H3	200H-3	2.500	63.500	37.850	39.670	59.560	9.650	9.650	19.850	243.000	10.200	78.310	1041000	57.700	4 107 58
200V1	200V-1	2.500	63.500	37.850	39.670	59.560	8.130	8.130	19.850	80.300	10.200	-	445000	17.300	4 107 11 58
200HV1	200HV-1	2.500	63.500	37.850	39.670	59.560	9.650	9.650	19.850	86.400	10.200	-	600500	19.500	4 107 58
200HV2	200HV-2	2.500	63.500	37.850	39.670	59.560	9.650	9.650	19.850	164.700	10.200	78.310	1201000	39.000	4 107 58
200HV3	200HV-3	2.500	63.500	37.850	39.670	59.560	9.650	9.650	19.850	243.000	10.200	78.310	1801500	57.700	4 107 58
240H1	240H-1	3.000	76.200	47.350	47.630	71.300	13.200	13.200	23.800	106.900	10.500	-	500000	30.500	4 107 58
240H2	240H-2	3.000	76.200	47.350	47.630	71.300	13.200	13.200	23.800	208.000	10.500	101.22	1000000	61.000	4 107 58
240H3	240H-3	3.000	76.200	47.350	47.630	71.300	13.200	13.200	23.800	309.200	10.500	101.22	1500000	91.500	4 107 58
240HV1	240HV-1	3.000	76.200	47.350	47.630	71.300	13.200	13.200	23.800	106.900	10.500	-	845160	30.500	4 107 58
240HV2	240HV-2	3.000	76.200	47.350	47.630	71.300	13.200	13.200	23.800	208.000	10.500	101.22	1690320	61.000	4 107 58
240HV3	240HV-3	3.000	76.200	47.350	47.630	71.300	13.200	13.200	23.800	312.000	10.500	101.22	2535480	91.500	4 107 58

NB: Both Split and roll pin options are available on all sizes, although we would recommend roll pin on quadruplex and above.

For the use of roller or bush chains in lifting applications, it is necessary to specify this in the order to ensure the specific CE mark will be given.

Before specifying / using crank links or other connecting links please consult Renold.

For further information:

t: +44 (0) 161 498 4600

f: +44 (0) 161 498 4565

e: enquiry@renold.com

w: www.renold.com

Also available
from Renold



Sprockets Page 68
For roller chain use



Roll-Ring Page 65
Chain tensioner