

XDO ***Chain***®

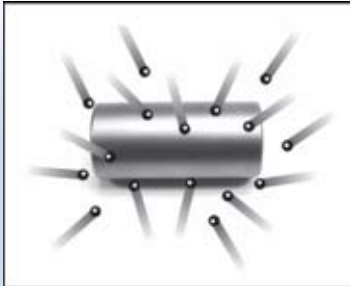


***ALLIED-LOCKE
INDUSTRIES***

***Reach For
The Star of Quality!***



THE ALLIED-LOCKE ADVANTAGE



SHOT PEENING

Chain parts are shot peened prior to assembly to increase the fatigue strength and improve resistance to stress corrosion cracking by inducing residual compressive stresses in specified surfaces.



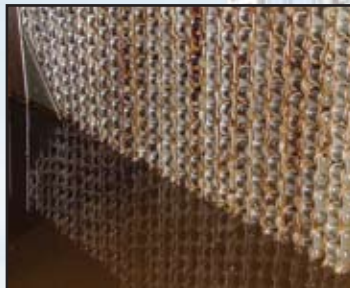
WIDER WAIST LINK PLATES

Wider link plates offer improved fatigue strength and greater resistance to shock load in the severe oil field environment.



BALL DRIFTING

Side plate holes are specially treated by passing a hardened carbide ball through the hole to impart negative residual stresses and create exceptionally smooth hole surfaces. The process results in improved fatigue strength which equates to longer chain life.



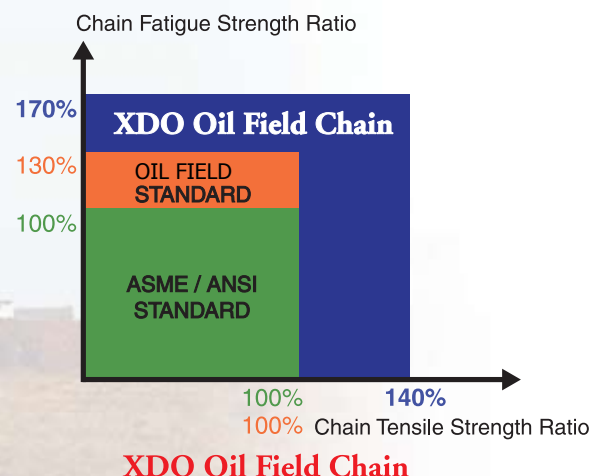
LUBRICATION

Extensive lubrication testing has led Allied-Locke to utilize the best lubricant for extending the life of the chain. Lubrication is applied through a hot dip process allowing for maximum penetration of chain joints.

INCREASED FATIGUE AND RESISTANCE COMPARISON



Fatigue Testing Equipment



ALLIED-LOCKE'S IMPROVED SHEPHERD CROOK COTTER DESIGN

The severe requirements of the oil field equipment require the strongest and most durable cotter pin practical. Allied-Locke has maximized the cotter size to withstand the demands of this tough environment.



Shepherd Crook Cotter

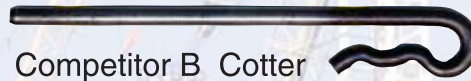


COTTER COMPARISON

120 size cotter photos are pictured to actual size.



Competitor A Cotter



Competitor B Cotter



Allied-Locke Cotter

**All cotters made with alloy steel.
All cotters are through hardened.**



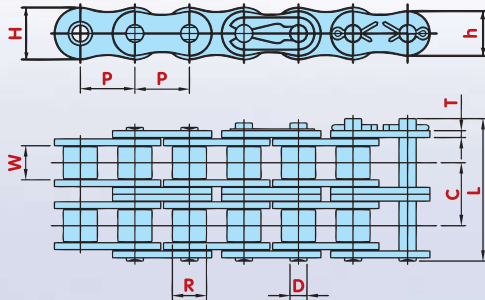
**M-Type
Cotter**

**For Sizes
200
240
264**



SINGLE AND MULTIPLE STRANDS

Sizes 60, 80, 100



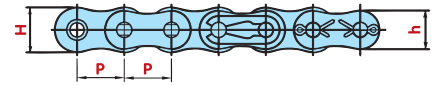
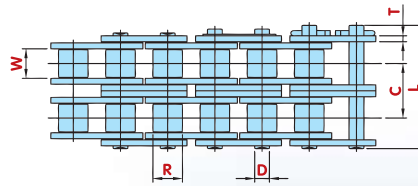
Sizes 60-100 marked "XDO TYC"

Dimensions in Inches and Pounds

Chain Size	Pitch	Width between Roller Link Plates	Roller Dia.	Link Plate			Pin (cotter type)		Transverse Pitch	Average Tensile Strength (lbf)	Approx. Weight (lbs. / ft.)
							Dia.	Length			
	P	W	R	T	H	h	D	L	C		
60-1	.750	.500	.469	.094	.713	.615	.234	1.10	—	9,200	1.04
60-2	.750	.500	.469	.094	.713	.615	.234	2.00	.897	18,400	2.06
60-3	.750	.500	.469	.094	.713	.615	.234	2.89	.897	27,600	3.09
60-4	.750	.500	.469	.094	.713	.615	.234	3.79	.897	36,800	4.12
60-5	.750	.500	.469	.094	.713	.615	.234	4.69	.897	46,000	5.15
60-6	.750	.500	.469	.094	.713	.615	.234	5.59	.897	55,200	6.17
60-8	.750	.500	.469	.094	.713	.615	.234	7.73	.897	73,600	8.23
80-1	1.00	.625	.625	.125	.950	.820	.312	1.69	—	17,500	1.8
80-2	1.00	.625	.625	.125	.950	.820	.312	2.84	1.153	35,000	3.7
80-3	1.00	.625	.625	.125	.950	.820	.312	4.00	1.153	52,500	5.5
80-4	1.00	.625	.625	.125	.950	.820	.312	5.15	1.153	72,000	7.3
80-5	1.00	.625	.625	.125	.950	.820	.312	6.30	1.153	90,000	9.1
80-6	1.00	.625	.625	.125	.950	.820	.312	7.45	1.153	108,000	11.0
80-8	1.00	.625	.625	.125	.950	.820	.312	9.76	1.153	144,000	14.6
100-1	1.25	.750	.750	.156	1.188	1.025	.375	1.69	—	25,300	2.8
100-2	1.25	.750	.750	.156	1.188	1.025	.375	3.10	1.408	50,600	5.5
100-3	1.25	.750	.750	.156	1.188	1.025	.375	4.51	1.408	75,900	8.3
100-4	1.25	.750	.750	.156	1.188	1.025	.375	5.91	1.408	117,400	11.1
100-5	1.25	.750	.750	.156	1.188	1.025	.375	7.32	1.408	146,800	13.9
100-6	1.25	.750	.750	.156	1.188	1.025	.375	8.73	1.408	176,200	16.6
100-8	1.25	.750	.750	.156	1.188	1.025	.375	11.55	1.408	234,900	22.2

SINGLE AND MULTIPLE STRANDS

Sizes 120, 140, 160
200, 240, 264



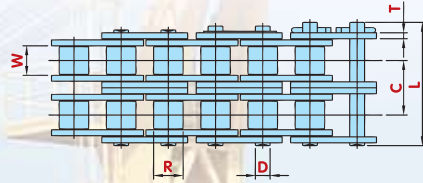
Sizes 120-264 marked "XDO"

Dimensions in Inches and Pounds

Chain Size	Pitch	Width between Roller Link Plates	Roller Dia.	Link Plate			Pin (cotter type)		Transverse Pitch	Average Tensile Strength (lbf)	Approx. Weight (lbs. / ft.)
							Dia.	Length			
				T	H	h	D	L	C		
120-1	1.50	1.000	.875	.187	1.425	1.230	.437	2.16	—	34,300	4.0
120-2	1.50	1.000	.875	.187	1.425	1.230	.437	3.95	1.789	68,600	8.0
120-3	1.50	1.000	.875	.187	1.425	1.230	.437	5.74	1.789	102,900	12.0
120-4	1.50	1.000	.875	.187	1.425	1.230	.437	7.52	1.789	155,300	16.0
120-5	1.50	1.000	.875	.187	1.425	1.230	.437	9.31	1.789	194,200	20.1
120-6	1.50	1.000	.875	.187	1.425	1.230	.437	11.10	1.789	233,000	24.1
120-8	1.50	1.000	.875	.187	1.425	1.230	.437	14.68	1.789	310,700	32.1
140-1	1.75	1.000	1.000	.219	1.663	1.435	.500	2.31	—	53,300	5.2
140-2	1.75	1.000	1.000	.219	1.663	1.435	.500	4.24	1.924	106,600	10.4
140-3	1.75	1.000	1.000	.219	1.663	1.435	.500	6.16	1.924	159,900	15.6
140-4	1.75	1.000	1.000	.219	1.663	1.435	.500	8.09	1.924	213,200	20.8
140-5	1.75	1.000	1.000	.219	1.663	1.435	.500	10.01	1.924	266,500	26.0
140-6	1.75	1.000	1.000	.219	1.663	1.435	.500	11.93	1.924	319,800	31.2
140-8	1.75	1.000	1.000	.219	1.663	1.435	.500	15.78	1.924	426,400	41.7
160-1	2.00	1.250	1.125	.250	1.900	1.640	.562	2.72	—	66,700	3.3
160-2	2.00	1.250	1.125	.250	1.900	1.640	.562	5.03	2.305	133,400	6.6
160-3	2.00	1.250	1.125	.250	1.900	1.640	.562	7.33	2.305	200,100	9.8
160-4	2.00	1.250	1.125	.250	1.900	1.640	.562	9.64	2.305	266,800	13.1
160-5	2.00	1.250	1.125	.250	1.900	1.640	.562	11.94	2.305	333,500	16.4
160-6	2.00	1.250	1.125	.250	1.900	1.640	.562	14.25	2.305	400,200	19.7
200-1	2.50	1.500	1.562	.312	2.375	2.050	.781	3.37	—	109,000	11.6
200-2	2.50	1.500	1.562	.312	2.375	2.050	.781	6.19	2.817	218,000	23.2
200-3	2.50	1.500	1.562	.312	2.375	2.050	.781	9.01	2.817	327,000	34.8
200-4	2.50	1.500	1.562	.312	2.375	2.050	.781	11.83	2.817	436,000	46.4
264-1	2.50	1.500	1.562	.375	2.375	2.050	.875	3.61	—	135,000	13.7
264-2	2.50	1.500	1.562	.375	2.375	2.050	.875	6.69	3.083	270,000	27.4
264-3	2.50	1.500	1.562	.375	2.375	2.050	.875	9.78	3.083	405,000	41.0
240-1	3.00	1.875	1.875	.375	2.850	2.460	.937	4.07	—	153,200	16.4
240-2	3.00	1.875	1.875	.375	2.850	2.460	.937	7.53	3.458	306,400	32.8
240-3	3.00	1.875	1.875	.375	2.850	2.460	.937	10.99	3.458	459,600	49.2

SINGLE AND MULTIPLE STRANDS

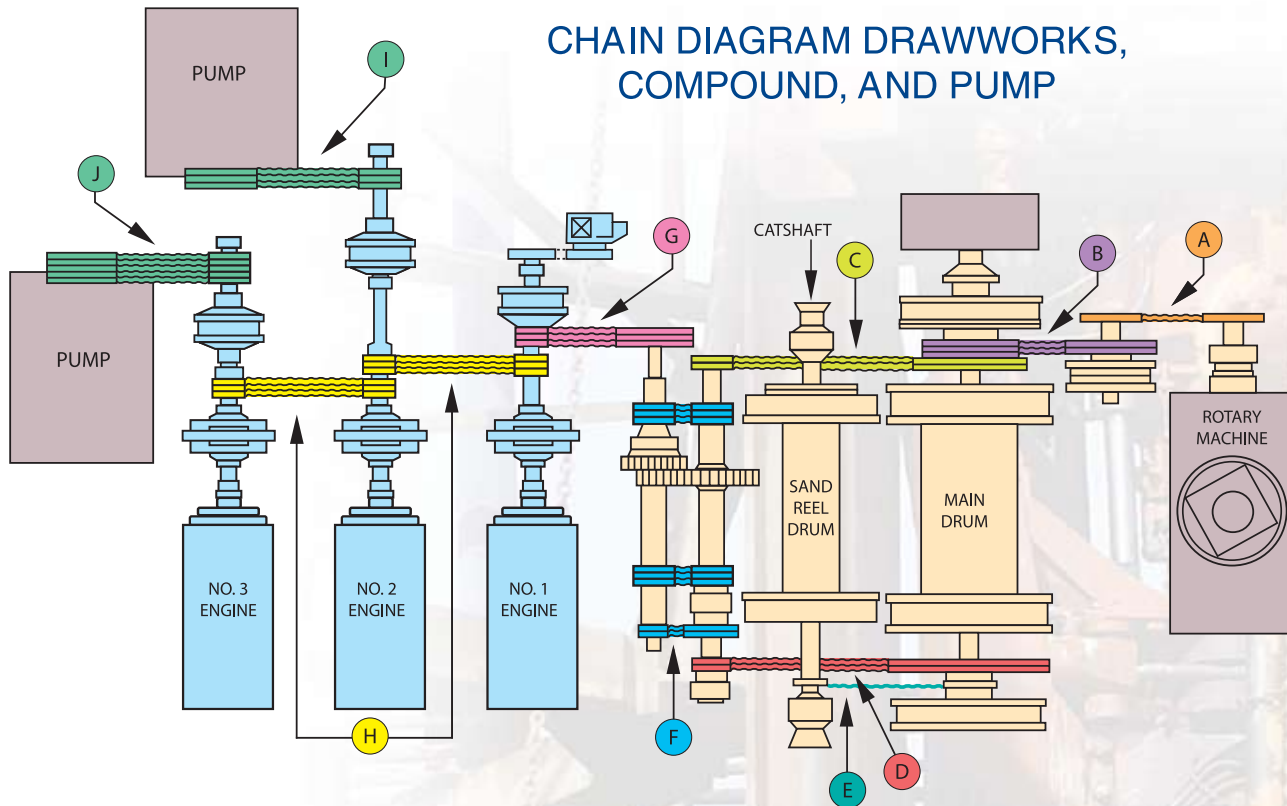
Sizes 60H, 80H, 100H, 120H, 140H, 160H, 200H



Sizes 60H-100H marked "XDO TYC" • Sizes 120H-200H marked "XDO"

Dimensions in Inches and Pounds

Chain Size	Pitch	Width between Roller Link Plates	Roller Dia.	Link Plate			Pin (cotter type)		Transverse Pitch	Average Tensile Strength (lbf)	Approx. Weight (lbs. / ft.)
							Dia.	Length			
	P	W	R	T	H	h	D	L	C		
60H-1	.750	.500	.469	.125	.713	.615	.234	1.23	—	12,100	1.26
60H-2	.750	.500	.469	.125	.713	.615	.234	2.26	1.028	24,200	2.50
60H-3	.750	.500	.469	.125	.713	.615	.234	3.29	1.028	36,300	3.75
60H-4	.750	.500	.469	.125	.713	.615	.234	4.31	1.028	48,400	4.99
80H-1	1.00	.625	.625	.156	.950	.820	.312	1.59	—	21,800	2.2
80H-2	1.00	.625	.625	.156	.950	.820	.312	2.87	1.283	43,600	4.3
80H-3	1.00	.625	.625	.156	.950	.820	.312	4.15	1.283	65,400	6.5
80H-4	1.00	.625	.625	.156	.950	.820	.312	5.44	1.283	87,200	8.6
80H-5	1.00	.625	.625	.156	.950	.820	.312	6.72	1.283	109,000	10.8
80H-6	1.00	.625	.625	.156	.950	.820	.312	8.00	1.283	130,800	13.0
80H-8	1.00	.625	.625	.156	.950	.820	.312	10.57	1.283	174,400	17.3
100H-1	1.25	.750	.750	.187	1.188	1.025	.375	1.84	—	30,800	3.2
100H-2	1.25	.750	.750	.187	1.188	1.025	.375	3.38	1.539	61,600	6.4
100H-3	1.25	.750	.750	.187	1.188	1.025	.375	4.92	1.539	92,400	9.6
100H-4	1.25	.750	.750	.187	1.188	1.025	.375	6.46	1.539	123,200	12.7
100H-5	1.25	.750	.750	.187	1.188	1.025	.375	7.99	1.539	154,000	15.9
100H-6	1.25	.750	.750	.187	1.188	1.025	.375	9.53	1.539	184,800	19.1
100H-8	1.25	.750	.750	.187	1.188	1.025	.375	12.61	1.539	246,400	25.5
120H-1	1.50	1.000	.875	.219	1.425	1.230	.437	2.31	—	42,100	4.5
120H-2	1.50	1.000	.875	.219	1.425	1.230	.437	4.24	1.924	84,200	9.0
120H-3	1.50	1.000	.875	.219	1.425	1.230	.437	6.16	1.924	126,300	13.5
120H-4	1.50	1.000	.875	.219	1.425	1.230	.437	8.09	1.924	168,400	18.0
120H-5	1.50	1.000	.875	.219	1.425	1.230	.437	10.01	1.924	210,500	22.5
120H-6	1.50	1.000	.875	.219	1.425	1.230	.437	11.93	1.924	252,600	27.0
120H-8	1.50	1.000	.875	.219	1.425	1.230	.437	15.78	1.924	336,800	36.0
140H-1	1.75	1.000	1.000	.250	1.663	1.435	.500	2.46	—	59,000	5.8
140H-2	1.75	1.000	1.000	.250	1.663	1.435	.500	4.52	2.055	118,000	11.7
140H-3	1.75	1.000	1.000	.250	1.663	1.435	.500	6.57	2.055	177,000	17.5
140H-4	1.75	1.000	1.000	.250	1.663	1.435	.500	8.63	2.055	236,000	23.4
140H-5	1.75	1.000	1.000	.250	1.663	1.435	.500	10.68	2.055	295,000	29.2
140H-6	1.75	1.000	1.000	.250	1.663	1.435	.500	12.74	2.055	354,000	35.0
140H-8	1.75	1.000	1.000	.250	1.663	1.435	.500	16.85	2.055	472,000	46.7
160H-1	2.00	1.250	1.125	.281	1.900	1.640	.562	2.86	—	68,700	7.3
160H-2	2.00	1.250	1.125	.281	1.900	1.640	.562	5.29	2.436	137,400	14.5
160H-3	2.00	1.250	1.125	.281	1.900	1.640	.562	7.73	2.436	206,100	21.8
160H-4	2.00	1.250	1.125	.281	1.900	1.640	.562	10.16	2.436	274,800	29.1
160H-5	2.00	1.250	1.125	.281	1.900	1.640	.562	12.60	2.436	343,500	36.3
160H-6	2.00	1.250	1.125	.281	1.900	1.640	.562	15.04	2.436	412,200	43.6
200H-1	2.50	1.500	1.562	.375	2.375	2.050	.781	3.39	—	113,700	13.1
200H-2	2.50	1.500	1.562	.312	2.375	2.050	.781	6.47	3.083	227,400	26.2
200H-3	2.50	1.500	1.562	.312	2.375	2.050	.781	9.56	3.083	341,100	39.2
200H-4	2.50	1.500	1.562	.312	2.375	2.050	.781	12.64	3.083	454,800	52.3



		RIG HORSEPOWER						
Chain Drive		4000	3000	2000	1500	1000	750	500
A	Rotary Table	160-2	160-2 200H-1	160-2	160-2 140-2	140-2 160-1	140-2 160-1	140-1 120-1
B	Rotary Countershaft	160-2	160-2 200H-1	160-2	160-2 140-2	140-2 160-1	140-2 160-1	140-1 120-1
C	High Drum	240-3	200H-3	160-4	160-3	140-3 160-2	160-2 140-2	120-3 140-2
D	Low Drum	240-3	200H-3	160-4	160-3	140-3 160-2	160-2 140-3	120-3 140-2
E	Catshaft	160-2	160-2 200H-1	160-2	160-1 140-2	160-1 140-2	160-1 140-2	140-1 120-1
F	Transmission	140-8	160-4 200H-3	160-4 160-3	160-3	160-2 140-3	140-2	120-2 100-3
G	Drawworks Input	140-8	120-8	120-6	120-4	120-3 120-4	100-4	100-3 100-4
H	Compound	140-8	120-8	120-6	120-4	120-3 120-4	100-4	100-3
I J	Mud Pump Drives	140-8	120-8	120-8 120-6	120-6 120-4	120-4 120-3	100-6 100-4	100-4 100-3



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