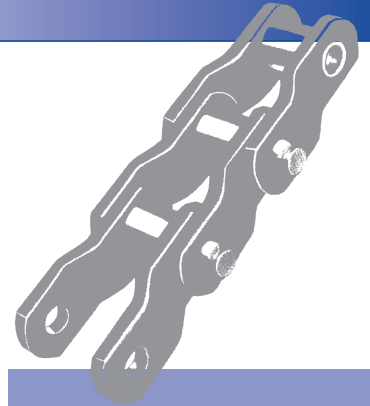




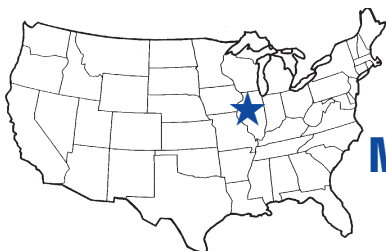
ALLIED-LOCKE INDUSTRIES

ISO 9001

Registered Quality System



STEEL DRIVE CHAINS

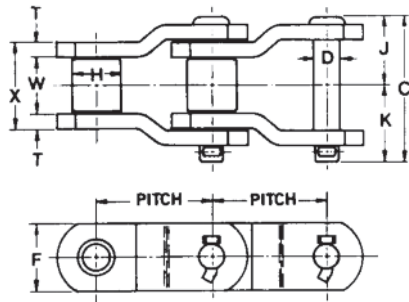


MADE IN U.S.A.

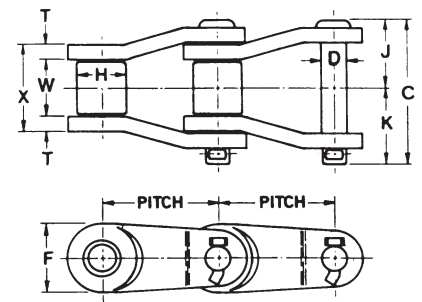
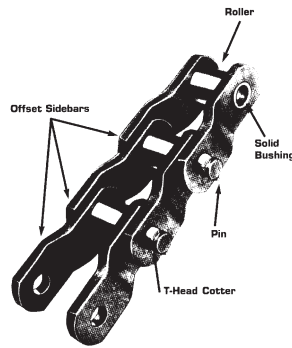


ALLIED-LOCKE STEEL DRIVE CHAINS

Allied-Locke/Moline Engineering Class Drive Chain



Style 1



Style 2

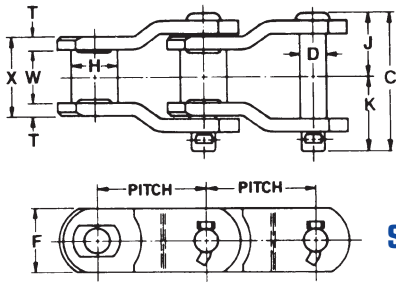
Moline Offset Drive Chain...is designed for power drives, construction machinery, and conveyors; it operates under the most severe conditions at moderately high speeds. Moline Offset Drive Chain is manufactured according to ANSI or manufacturer's standards. It may be interchanged with standard chain of other manufacturers depending upon size. There are four basic styles as stated in the tables and illustrated. The pitch range of the MXS Class is from 2.000 to 6.500 inches. Average Ultimate Strength range is from 20,000 to 600,000 pounds, and the Recommended Working Load range is from 2,300 to 30,600 pounds. MSS 6065 is

offered in 6.000 inch pitch only. Its Average Ultimate Strength is 600,000 pounds and the Recommended Working Load is 27,600 pounds. MSS 6065 was developed as an extra heavy duty replacement for MXS 6042. It is a solid bushed design rather than a roller/bushing design. This allows the pin diameter to be increased to 1.75 inches which provides a larger cross-section for higher Ultimate Strength and an increase in bearing area for greater Working Load. The sidebar height is increased to compensate for pin diameter. Drive chains are available in cottered construction only. The pins are press fitted into the offset sidebars, preventing pin rotation during

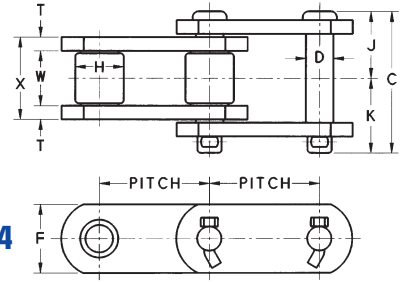
chain operation and achieving as close to 100% bearing between the pin and sidebars as possible. T-head cotters furnished with the pins fit flush against the offset sidebars. The sidebars of Moline Offset Drive Chain are stamped on the side of the chain into which the pins are to be inserted. For ready identification, this side of the chain is marked with the chain number. The closed end of the link is the recommended direction of travel for these chain classes. Fabricated or cast sprockets are available for every pitch size.

| MOLINE CHAIN NO. | STYLE | PITCH IN INCHES | DIMENSIONS IN DECIMAL INCHES | | | | | | | | |
|--|-------|-----------------|------------------------------|-------------------|---------------------|----------------------|------------------------------|-----------------------------|-------------------------|-----------------------------|---------------------|
| | | | OVER-ALL WIDTH-COTTERED C | DIAMETER OF PIN D | HEIGHT OF SIDEBAR F | DIAMETER OF ROLLER H | HEAD OF PIN TO CENTER LINE J | END OF PIN TO CENTER LINE K | THICKNESS OF SIDEBARS T | DISTANCE BETWEEN SIDEBARS W | LENGTH OF BUSHING X |
| MXS CLASS OFFSET DRIVE CHAIN — "Bushed Roller Type" | | | | | | | | | | | |
| MXS 3120 | 2 | 1.500 | 2.25 | 0.440 | 1.81 | 0.88 | | | 0.19 | 0.97 | 1.38 |
| MXS 432 | 1 | 1.654 | 2.28 | 0.438 | 1.12 | 0.88 | 1.02 | 1.26 | 0.19 | 1.00 | 1.38 |
| MXS 3140 | 2 | 1.750 | 2.44 | 0.500 | 1.63 | 1.00 | | | 0.22 | 0.97 | 1.44 |
| MXS 2070 | 2 | 2.000 | 3.22 | 0.593 | 1.62 | 1.12 | 1.47 | 1.75 | 0.31 | 1.25 | 1.88 |
| MXS 3160 | 2 | 2.000 | 2.81 | 0.560 | 1.88 | 1.13 | | | 0.25 | 1.19 | 1.75 |
| MXS 3180 | 2 | 2.250 | 3.28 | 0.690 | 2.13 | 1.41 | | | 0.28 | 1.38 | 2.00 |
| MXS 881 | 1 | 2.609 | 2.38 | 0.438 | 1.12 | 0.88 | 1.09 | 1.28 | 0.19 | 1.12 | 1.50 |
| MXS 882 | 1 | 2.609 | 2.62 | 0.438 | 1.12 | 0.88 | 1.22 | 1.41 | 0.25 | 1.12 | 1.62 |
| MXS 3011 | 1 | 3.067 | 3.94 | 0.750 | 2.25 | 1.62 | 1.81 | 2.12 | 0.38 | 1.56 | 2.31 |
| MXS 1031 | 1 | 3.075 | 3.38 | 0.625 | 1.50 | 1.25 | 1.59 | 1.84 | 0.31 | 1.50 | 2.12 |
| MXS 1032 | 1 | 3.075 | 3.43 | 0.625 | 1.62 | 1.25 | 1.59 | 1.84 | 0.31 | 1.50 | 2.12 |
| MXS 3075 | 1 | 3.075 | 3.69 | 0.648 | 1.75 | 1.25 | 1.72 | 1.97 | 0.38 | 1.50 | 2.25 |
| MXS 3514 | 1 | 3.500 | 4.44 | 0.875 | 2.25 | 1.75 | 2.06 | 2.38 | 0.50 | 1.50 | 2.50 |
| MXS 1242 | 1 | 4.063 | 4.88 | 0.875 | 2.25 | 1.75 | 2.25 | 2.62 | 0.50 | 1.94 | 2.94 |
| MXS 1245 | 1 | 4.073 | 5.12 | 0.938 | 2.38 | 1.78 | 2.38 | 2.75 | 0.56 | 1.94 | 3.06 |
| MXS 4522 | 1 | 4.500 | 5.25 | 1.100 | 3.00 | 2.25 | 2.44 | 2.81 | 0.56 | 2.06 | 3.19 |
| MXS 5031 | 1 | 5.000 | 6.25 | 1.250 | 3.50 | 2.50 | 2.91 | 3.34 | 0.62 | 2.75 | 4.00 |
| MXS 5035 | 1 | 5.000 | 6.62 | 1.375 | 3.50 | 2.50 | 3.12 | 3.50 | 0.75 | 2.56 | 4.06 |
| MXS 5542 | 1 | 5.500 | 7.12 | 1.500 | 4.00 | 3.00 | 3.28 | 3.84 | 0.75 | 3.00 | 4.50 |
| MXS 88B | 1 | 5.750 | 7.12 | 1.500 | 4.00 | 3.00 | 3.28 | 3.84 | 0.75 | 3.00 | 4.50 |
| MXS 6042 | 1 | 6.000 | 7.12 | 1.500 | 4.00 | 3.00 | 3.28 | 3.84 | 0.75 | 3.00 | 4.50 |
| MXS 6565 | 3 | 6.500 | 8.26 | 1.750 | 5.00 | 3.50 | 3.88 | 4.38 | 0.88 | 3.50 | 5.00 |
| MXS 7065 | 1 | 7.000 | 8.06 | 1.750 | 5.00 | 3.50 | 3.81 | 4.25 | 0.88 | 3.25 | 5.00 |
| MSS CLASS OFFSET DRIVE CHAIN — "Steel Bushed Type" | | | | | | | | | | | |
| MSS 6065 | 3 | 6.000 | 7.32 | 1.750 | 4.75 | 3.00 | 3.44 | 3.88 | 0.75 | 3.00 | 4.50 |
| MSR CLASS STRAIGHT DRIVE CHAIN — "Bushed Roller Type" | | | | | | | | | | | |
| MSR 1353 | 4 | 4.090 | 5.75 | 1.312 | 3.00 | 2.62 | 2.66 | 3.09 | 0.62 | 2.25 | 3.50 |
| MSR 6060 | 4 | 6.000 | 8.06 | 1.750 | 5.00 | 3.50 | 3.81 | 4.25 | 0.88 | 3.25 | 5.00 |
| MSR 6560 | 4 | 6.500 | 8.06 | 1.750 | 5.00 | 3.50 | 3.81 | 4.25 | 0.88 | 3.25 | 5.00 |

ALLIED-LOCKE STEEL DRIVE CHAINS



Style 3



Style 4

| MOLINE CHAIN NO. | STYLE | PITCHES IN INCHES | STANDARD ANSI B29.10 NUMBER | LINKS PER 10 FEET | WEIGHT PER FOOT LBS. | AVERAGE ULTIMATE STRENGTH LBS. | RECOMMENDED MAXIMUM WORKING LOAD-LBS. |
|--|-------|-------------------|-----------------------------|-------------------|----------------------|--------------------------------|---------------------------------------|
| MXS CLASS OFFSET DRIVE CHAIN — "Bushed Roller Type" | | | | | | | |
| MXS 3120 | 2 | 1.500 | — | 80 | 4.0 | 28,000 | 2,100 |
| MXS 432 | 1 | 1.654 | — | 73 | 3.5 | 20,000 | 2,100 |
| MXS 3140 | 2 | 1.750 | — | 69 | 5.2 | 39,000 | 2,500 |
| MXS 3160 | 2 | 2.000 | — | 60 | 6.7 | 50,000 | 3,450 |
| MXS 2070 | 2 | 2.000 | — | 60 | 7.6 | 70,000 | 3,890 |
| MXS 3180 | 2 | 2.250 | — | 53 | 9.6 | 63,000 | 4,800 |
| MXS 881 | 1 | 2.609 | — | 46 | 3.0 | 20,000 | 2,300 |
| MXS 882 | 1 | 2.609 | — | 46 | 3.6 | 26,000 | 2,500 |
| MXS 3011 | 1 | 3.067 | 2512 | 39 | 13.2 | 110,000 | 6,100 |
| MXS 1031 | 1 | 3.075 | — | 39 | 7.3 | 48,000 | 4,650 |
| MXS 1032 | 1 | 3.075 | — | 39 | 7.7 | 60,000 | 4,650 |
| MXS 3075 | 1 | 3.075 | — | 39 | 9.0 | 75,000 | 5,100 |
| MXS 3514 | 1 | 3.500 | 2814 | 34 | 16.0 | 140,000 | 7,650 |
| MXS 1242 | 1 | 4.063 | — | 30 | 15.6 | 140,000 | 9,000 |
| MXS 1245 | 1 | 4.073 | 3315 | 30 | 18.6 | 170,000 | 10,050 |
| MXS 4522 | 1 | 4.500 | 3618 | 27 | 25.0 | 220,000 | 12,300 |
| MXS 5031 | 1 | 5.000 | 4020 | 24 | 36.0 | 310,000 | 17,500 |
| MXS 5035 | 1 | 5.000 | — | 24 | 38.1 | 350,000 | 19,600 |
| MXS 5542 | 1 | 5.500 | — | 22 | 49.1 | 420,000 | 23,700 |
| MXS 88B | 1 | 5.750 | — | 21 | 49.0 | 420,000 | 23,700 |
| MXS 6042 | 1 | 6.000 | 4824 | 20 | 46.5 | 420,000 | 23,700 |
| MXS 6565 | 1 | 6.500 | — | 18.5 | 78.5 | 600,000 | 30,600 |
| MXS 7065 | 1 | 7.000 | — | 17 | 67.0 | 600,000 | 30,600 |
| MSS CLASS OFFSET DRIVE CHAIN — "Steel Bushed Type" | | | | | | | |
| MSS 6065 | 3 | 6.000 | — | 20 | 51.7 | 600,000 | 27,600 |
| MSR CLASS STRAIGHT DRIVE CHAIN — "Bushed Roller Type" | | | | | | | |
| MSR 1353 | 4 | 4.090 | — | 30 | 32.6 | 21,000 | 16,000 |
| MSR 6060 | 4 | 6.000 | 4824 | 20 | 68.0 | 600,000 | 30,600 |
| MSR 6560 | 4 | 6.500 | — | 18.5 | 72.0 | 600,000 | 30,600 |

Materials

ASCH = Alloy Steel Case Hardened
 ASHT = Alloy Steel Heat Treated
 ASIH = Alloy Steel Induction Hardened

LEGEND

CSCH = Carbon Steel Case Hardened
 CSHT = Carbon Steel Heat Treated
 CSTH = Carbon Steel Thru Hardened
 ASTH = Alloy Steel Thru Hardened

| MOLINE CHAIN NO. | ROLLERS | PINS | BUSHINGS | SIDEBARS |
|--|---------|------|----------|----------|
| MXS CLASS OFFSET DRIVE CHAIN — "Bushed Roller Type" | | | | |
| MXS 432 | CSTH | CSCH | CSCH | CSHT |
| MXS 88B | ASTH | ASIH | ASCH | ASHT |
| MXS 881 | CSTH | CSCH | CSCH | CSHT |
| MXS 882 | CSTH | CSCH | CSCH | CSHT |
| MXS 1031 | ASTH | ASIH | ASCH | CSHT |
| MXS 1032 | ASTH | ASIH | ASCH | ASHT |
| MXS 1242 | ASTH | ASIH | ASCH | ASHT |
| MXS 1245 | ASTH | ASIH | ASCH | ASHT |
| MXS 2070 | ASTH | ASTH | ASCH | ASHT |
| MXS 3011 | ASTH | ASIH | ASCH | ASHT |
| MXS 3075 | ASTH | ASIH | ASCH | ASHT |
| MXS 3120 | TH | CH | | TH |
| MXS 3140 | TH | CH | | TH |
| MXS 3160 | TH | CH | | TH |
| <i>MXS CLASS OFFSET DRIVE CHAIN CONTINUED IN NEXT COLUMN</i> | | | | |

| MOLINE CHAIN NO. | ROLLERS | PINS | BUSHINGS | SIDEBARS |
|--|---------|------|----------|----------|
| MXS CLASS OFFSET DRIVE CHAIN — "Bushed Roller Type" | | | | |
| MXS 3180 | | CH | | TH |
| MXS 3514 | ASTH | ASIH | ASCH | ASHT |
| MXS 4522 | ASTH | ASIH | ASCH | ASHT |
| MXS 5031 | ASTH | ASIH | ASCH | ASHT |
| MXS 5035 | ASTH | ASIH | ASCH | ASHT |
| MXS 5542 | ASTH | ASIH | ASCH | ASHT |
| MXS 6042 | ASTH | ASIH | ASCH | ASHT |
| MXS 6565 | ASTH | ASIH | ASCH | ASHT |
| MXS 7065 | ASTH | ASIH | ASCH | ASTH |
| MSS CLASS OFFSET DRIVE CHAIN — "Steel Bushed Type" | | | | |
| MSS 6065 | | ASIH | ASTH | ASHT |
| MSR CLASS STRAIGHT DRIVE CHAIN — "Bushed Roller Type" | | | | |
| MSR 1353 | ASTH | ASIH | ASCH | ASHT |
| MSR 6060 | ASTH | ASIH | ASCH | ASTH |
| MSR 6560 | ASTH | ASIH | ASCH | ASHT |

Allied-Locke/Moline Drive Chain Interchange List

| PITCH IN INCHES | MOLINE Number | COMPETITORS CROSS REFERENCE | | | | |
|-----------------|-----------------|-----------------------------|-----------|--------|---------|---------|
| | | | | | | |
| 1.500 | MXS 3120 | 3120CM | | | IS1532 | |
| 1.654 | MXS 432 | R432 | ROA622 | US622 | IS622 | |
| 1.750 | MXS 3140 | 3140CM | | | IS1742 | |
| 2.000 | MXS 2070 | R3113 | | US2065 | IS2065 | PC2010 |
| 2.000 | MXS 3160 | 3160CM | | | IS2059 | |
| 2.250 | MXS 3180 | 3180.00 | | | | |
| 2.609 | MXS 881 | R778 | ROA881 | US881 | IS881 | |
| 2.609 | MXS 882 | R588 | ROA882 | US882 | JS882 | |
| 3.067 | MXS 3011 | AX1568 | ROA2512 | US3011 | JS3011 | PC3012 |
| 3.075 | MXS 1031 | R1033 | ROA1031 | US1031 | JS1031 | PC3010 |
| 3.075 | MXS 1032 | R1035 | RO1032 | | | |
| 3.075 | MXS 3075 | R1037 | RO40HYPER | US3075 | JS3075 | PC3010 |
| 3.500 | MXS 3514 | RX238 | ROA2814 | US3514 | JS3514 | PC3514 |
| 4.063 | MXS 1242 | R1248 | ROA1242 | US1242 | JS4014 | PC4014N |
| 4.073 | MXS 1245 | RX1245 | ROA3315 | US1245 | JS1245A | PC4015A |
| 4.090 | MSR 1353 | | | | | |
| 4.500 | MXS 4522 | ROA635 | ROA3618 | US4522 | IS4522 | PC4518 |
| 5.000 | MXS 5031 | RX1207 | ROA4020 | US5031 | JS5031 | PC5020 |
| 5.000 | MXS 5035 | RO1315 | ROA5035 | US5035 | 1605AAA | PC5022 |
| 5.500 | MXS 5542 | RO1356 | ROA5542 | US5542 | | PC5524 |
| 5.750 | MXS 88B | 1301 | | US5738 | JS1632 | PC5724 |
| 6.000 | MXS 6042 | RO1306 | ROA4824 | US6042 | JS6042 | PC6024 |
| 6.000 | MSS 6065 | RX9506H | | US6066 | | |
| 6.000 | MSR 6060 | X1365 | | | | |
| 6.500 | MSR 6560 | | | | | |
| 6.500 | MXS 6565 | X1311 | ROA6555 | US6566 | JS6555 | PC6528 |
| 7.000 | MXS 7065 | | | | JS7055 | |



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