IRIS chains

# Double pitch chains

Double pitch chains are a cost-effective solution for applications with lower speed and power transmission demands.

SINCE
1935

# Double pitch chains

Double pitch chains cover the same dimensions and specifications as the ISO 606 European and American standard chains, except for the pitch, which measures exactly twice their standard counterparts.

The longer pitch represents an extremely cost effective solution for applications where large centre distances exist and speed and power transmission demands are lower. The double pitch makes it possible to fit the rollers, and as a result, friction and tensile stress within the chain are greatly minimized for many applications.

These chains are also a lighter and economical option thanks to the reduction of material, although they are built with the same quality and accuracy as the single-pitch equivalents.

Conveyor type with straight side plates and transmission type can be produced. American standard chains include versions with smaller or larger rollers. Additionally, they can be provided in normal plate or thicker plate versions.

## SERVICES

Many products **available from stock.**

**Corrosion resistant versions available** (delta tone, stainless steel).

**Special chains** on request (for example, rollers with a larger diameter).

**String pairings** on request.

**Chains in any length.**

## HIGHLIGHTS

- Dimensions according to ISO 1275.
- Higher fatigue strength due to optimized press fit of pin and outer plate.
- Higher tensile strength due to optimized plate strength.
- Tensile strength can be reduced up to 20% if cranked links are fitted.
- Higher wear resistance.
- Minimum elongation due to wear and a long service life.
- Maximum rotating speed on the small sprocket: 500 r.p.m.

### Double pitch chains - ISO 1275 (DIN 8181)

ISO SERIES

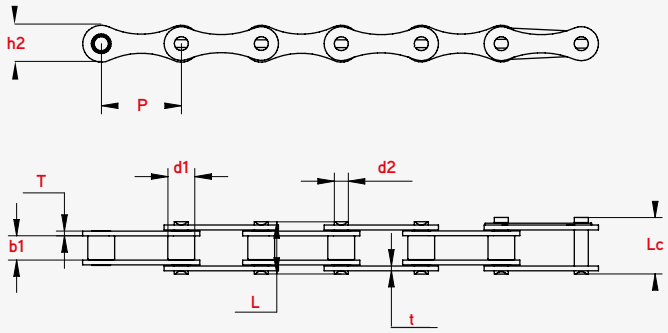
| | | Pitch | Roller diameter | Width between Plates | Pin diameter | Pin lenght | | Inner Plate height | Plate thickness | Minimun Tensile Strenght | Weight per meter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DIN/ISO No. | Material | P mm | d1 max mm | b1 max mm | d2 max mm | L max mm | Lc max mm | h2 max mm | t/T max mm | Q min KN | q kg/m |
| 208B | CS, DT, SS | 25,40 | 8,51 | 7,75 | 4,45 | 16,70 | 18,20 | 11,80 | 1,60 | 18,00 | 0,45 |
| 210B | CS, DT, SS | 31,75 | 10,16 | 9,65 | 5,08 | 19,50 | 20,90 | 14,70 | 1,70 | 22,40 | 0,65 |
| 212B | CS, DT, SS | 38,10 | 12,07 | 11,68 | 5,72 | 22,50 | 25,20 | 16,00 | 1,85 | 29,00 | 0,76 |
| 216B | CS, DT, SS | 50,80 | 15,88 | 17,02 | 8,28 | 36,10 | 39,10 | 21,00 | 4,15/3,1 | 60,00 | 1,75 |
| 220B | CS, DT, SS | 63,50 | 19,05 | 19,56 | 10,19 | 41,30 | 45,00 | 26,40 | 4,5/3,4 | 95,00 | 2,62 |
| 224B | CS, DT, SS | 76,20 | 25,40 | 25,40 | 14,63 | 53,40 | 57,80 | 33,20 | 6,0/4,8 | 160,00 | 4,70 |

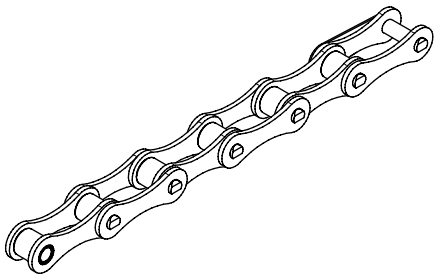
ASA SERIES

| | | | Pitch | Roller diameter | Width between Plates | Pin diameter | Pin lenght | | Inner Plate height | Plate thickness | Minimun Tensile Strenght | Weight per meter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DIN/ISO No. | ANSI No. | Material | P mm | d1 max mm | b1 max mm | d2 max mm | L max mm | Lc max mm | h2 max mm | t/T max mm | Q min KN | q kg/m |
| 208A | 2040 | CS, DT, SS | 25,40 | 7,95 | 7,85 | 3,96 | 16,60 | 17,80 | 12,00 | 1,50 | 14,10 | 0,42 |
| 210A | 2050 | CS, DT, SS | 31,75 | 10,16 | 9,40 | 5,08 | 20,70 | 22,20 | 15,00 | 2,03 | 22,20 | 0,73 |
| 212A | 2060 | CS, DT, SS | 38,10 | 11,91 | 12,57 | 5,94 | 25,90 | 27,70 | 18,00 | 2,42 | 36,80 | 1,02 |
| 216A | 2080 | CS, DT, SS | 50,80 | 15,88 | 15,75 | 7,92 | 32,70 | 36,50 | 24,00 | 3,25 | 56,70 | 1,70 |
| 216A H | 2080 H | CS, DT, SS | 50,80 | 15,88 | 15,75 | 7,92 | 36,20 | 39,40 | 24,00 | 4,00 | 56,70 | 2,17 |
| 220A | 2100 | CS, DT, SS | 63,50 | 19,05 | 18,90 | 9,53 | 40,40 | 44,70 | 30,00 | 4,00 | 88,50 | 2,55 |
| 224A | 2120 | CS, DT, SS | 76,20 | 22,23 | 25,22 | 11,10 | 50,30 | 54,30 | 35,70 | 4,80 | 127,00 | 4,06 |

**CS** CARBON STEEL
**DT** DELTA-TONE
**SS** STAINLESS STEEL

# Double pitch chains



## Double pitch chains - ISO 1275 - Straight plate

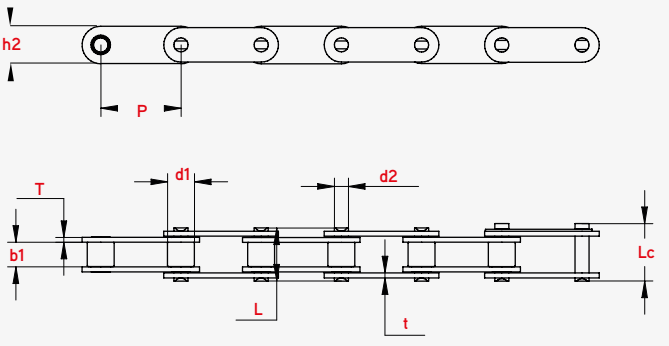
### ASA STANDARD SERIES

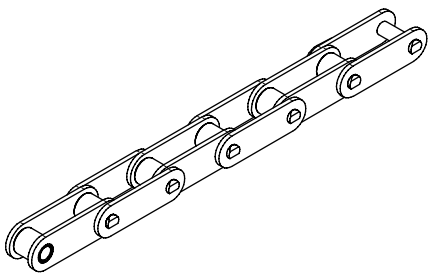
| DIN/ISO No. | ANSI No. | Material | Pitch P mm | Roller diameter d1 max mm | Width between Plates b1 max mm | Pin diameter d2 max mm | Pin lenght L max mm | Pin lenght Lc max mm | Inner Plate height h2 max mm | Plate thickness t/T max mm | Minimun Tensile Strenght Q min KN | Weight per meter q kg/m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C208A | C2040 | CS, DT, SS | 25,40 | 7,95 | 7,85 | 3,96 | 16,60 | 17,80 | 12,00 | 1,50 | 14,10 | 0,50 |
| C210A | C2050 | CS, DT, SS | 31,75 | 10,16 | 9,40 | 5,08 | 20,70 | 22,20 | 15,00 | 2,03 | 22,20 | 0,78 |
| C212A | C2060 | CS, DT, SS | 38,10 | 11,91 | 12,57 | 5,94 | 25,90 | 27,70 | 18,00 | 2,42 | 31,80 | 1,12 |
| C216A | C2080 | CS, DT, SS | 50,80 | 15,88 | 15,75 | 7,92 | 32,70 | 36,50 | 24,00 | 3,25 | 56,70 | 2,08 |
| C220A | C2100 | CS, DT, SS | 63,50 | 19,05 | 18,90 | 9,53 | 40,40 | 44,70 | 30,00 | 4,00 | 88,50 | 3,01 |
| C224A | C2120 | CS, DT, SS | 76,20 | 22,23 | 25,22 | 11,10 | 50,30 | 54,30 | 35,70 | 4,80 | 127,00 | 4,66 |
| C232A | C2160 | CS, DT, SS | 101,60 | 28,58 | 31,75 | 14,27 | 64,80 | 69,60 | 47,80 | 6,40 | 226,80 | 8,15 |

### ASA HEAVY SERIES

| DIN/ISO No. | ANSI No. | Material | Pitch P mm | Roller diameter d1 max mm | Width between Plates b1 max mm | Pin diameter d2 max mm | Pin lenght L max mm | Pin lenght Lc max mm | Inner Plate height h2 max mm | Plate thickness t/T max mm | Minimun Tensile Strenght Q min KN | Weight per meter q kg/m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C208A H | C2040 H | CS, DT, SS | 25,40 | 7,95 | 7,85 | 3,96 | 18,80 | 19,90 | 12,00 | 2,03 | 14,10 | 0,65 |
| C210AH | C2050 H | CS, DT, SS | 31,75 | 10,16 | 9,40 | 5,08 | 22,10 | 23,50 | 15,00 | 2,42 | 22,20 | 0,96 |
| C212A H | C2060 H | CS, DT, SS | 38,10 | 11,91 | 12,57 | 5,94 | 29,20 | 31,60 | 18,00 | 3,25 | 31,80 | 1,44 |
| C216A H | C2080 H | CS, DT, SS | 50,80 | 15,88 | 15,75 | 7,92 | 36,20 | 39,40 | 24,00 | 4,00 | 56,70 | 2,54 |
| C220A H | C2100 H | CS, DT, SS | 63,50 | 19,05 | 18,90 | 9,53 | 43,60 | 46,90 | 30,00 | 4,80 | 88,50 | 3,56 |
| C224A H | C2120 H | CS, DT, SS | 76,20 | 22,23 | 25,22 | 11,10 | 53,50 | 57,50 | 35,70 | 5,60 | 127,00 | 5,26 |
| C232A H | C2160 H | CS, DT, SS | 101,60 | 28,58 | 31,75 | 14,27 | 68,20 | 73,00 | 47,8 | 7,20 | 226,8 | 9,06 |

**CS** CARBON STEEL
**DT** DELTA-TONE
**SS** STAINLESS STEEL



# Double pitch chains

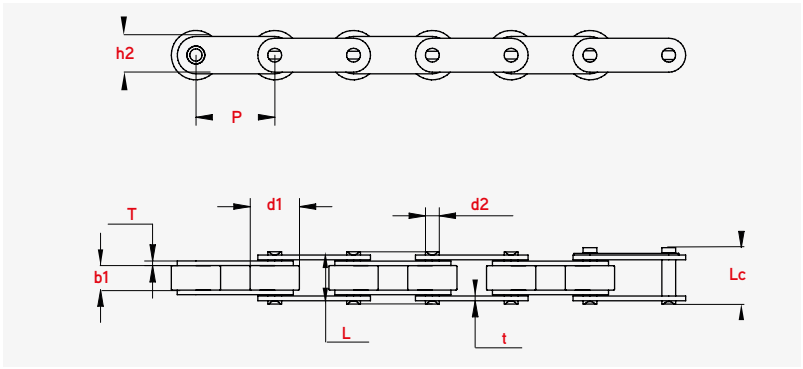
Double pitch chains - ISO 1275 - Straight plate - Large rollers

## ASA STANDARD SERIES

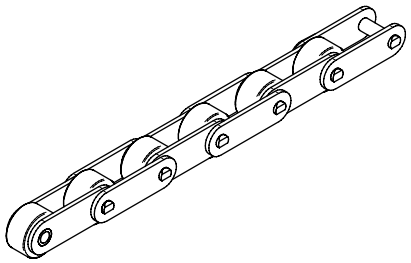
| DIN/ISO No. | ANSI No. | Material | Pitch P mm | Roller diameter d1 max mm | Width between Plates b1 max mm | Pin diameter d2 max mm | Pin lenght L max mm | Pin lenght Lc max mm | Inner Plate height $h_2$ max mm | Plate thickness t/T max mm | Minimun Tensile Strenght Q min KN | Weight per meter q kg/m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C208AL | C2042 | CS, DT, SS | 25,40 | 15,88 | 7,85 | 3,96 | 16,60 | 17,80 | 12,00 | 1,50 | 14,10 | 0,84 |
| C210AL | C2052 | CS, DT, SS | 31,75 | 19,05 | 9,40 | 5,08 | 20,70 | 22,20 | 15,00 | 2,03 | 22,20 | 1,27 |
| C212AL | C2062 | CS, DT, SS | 38,10 | 22,23 | 12,57 | 5,94 | 25,90 | 27,70 | 18,00 | 2,42 | 31,80 | 1,61 |
| C216AL | C2082 | CS, DT, SS | 50,80 | 28,58 | 15,75 | 7,92 | 32,70 | 36,50 | 24,00 | 3,25 | 56,70 | 3,12 |
| C220AL | C2102 | CS, DT, SS | 63,50 | 39,67 | 18,90 | 9,53 | 40,40 | 44,70 | 30,00 | 4,00 | 88,50 | 4,83 |
| C224AL | C2122 | CS, DT, SS | 76,20 | 44,45 | 25,22 | 11,10 | 50,30 | 54,30 | 35,70 | 4,80 | 127,00 | 7,66 |

## ASA HEAVY SERIES

| DIN/ISO No. | ANSI No. | Material | Pitch P mm | Roller diameter d1 max mm | Width between Plates b1 max mm | Pin diameter d2 max mm | Pin lenght L max mm | Pin lenght Lc max mm | Inner Plate height $h_2$ max mm | Plate thickness t/T max mm | Minimun Tensile Strenght Q min KN | Weight per meter q kg/m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C212A HL | C2062 H | CS, DT, SS | 38,10 | 22,23 | 12,57 | 5,94 | 29,20 | 31,60 | 18,00 | 3,25 | 31,80 | 2,07 |
| C216A HL | C2082 H | CS, DT, SS | 50,80 | 28,58 | 15,75 | 7,92 | 36,20 | 39,40 | 24,00 | 4,00 | 56,70 | 3,58 |
| C220A HL | C2102 H | CS, DT, SS | 63,50 | 39,67 | 18,90 | 9,53 | 43,60 | 46,90 | 30,00 | 4,80 | 88,50 | 5,38 |
| C224A HL | C2122 H | CS, DT, S | 76,20 | 44,45 | 25,22 | 11,10 | 53,50 | 57,50 | 35,70 | 5,60 | 127,00 | 8,26 |




**CS** CARBON STEEL
**DT** DELTA-TONE
**SS** STAINLESS STEEL



# Notes:

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