IRIS chains

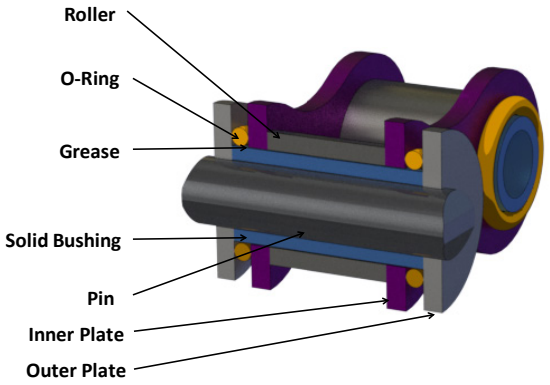
SINCE 1935

Maintenance-free chains

The most efficient solutions for your industrial drive system

IRIS O-ring chains

From industrial to agriculture, O-ring chain is the greatest upgrade for a large range of applications. This chains were traditionally used in the Motorcycle chain applications, but customers are now realising the true benefits of the O-Ring chain design in industrial application as they become more competitively priced against the benefits they provide.



Highlights

- O-Rings seal the factory-applied lubricant inside the bearing area while keeping the damaging external elements out.
- Chain stretch reduced by a pre-stressed and pre-stretched test.
- Operating temperature range: -30ºC to + 100ºC

Industries

- Mechanical Engineering
- Agricultural Industry
- Food Industry

O-Ring roller chains

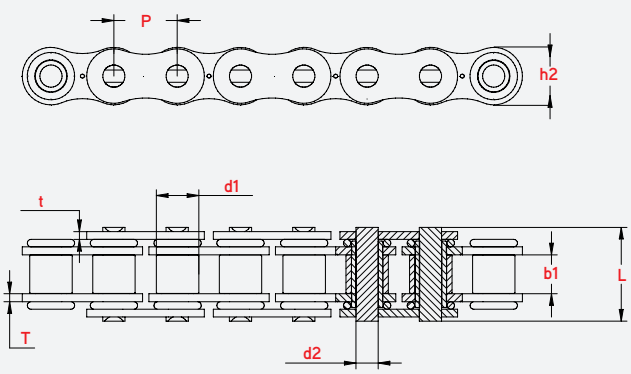
ISO SERIES

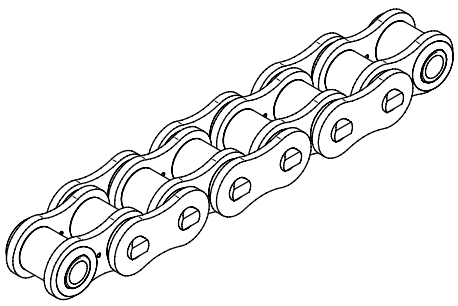
DIN/ISO No.	Material	Pitch P mm	Roller Diameter d1 max mm	width between Plates b1 min mm	Pin diameter d2 max mm	Pin lenght L max mm	Pin lenght Lc max mm	Inner plate depth h2 max mm	Plate thickness T max mm	Minimun tensile strenght Q min KN	Ultimate Tensile Strenght Q_0 KN	Weight per meter q kg/m
8B-1 OR	CS, NP, SS	12,700	8,50	7,80	4,45	18,80	19,90	11,80	1,55	8,0	20,10	0,74
10B-1 OR	CS, NP, SS	15,870	10,16	9,70	5,08	21,40	22,95	14,15	1,60	22,4	28,50	0,99
12B-1 OR	CS, NP, SS	19,050	12,07	11,73	5,72	24,40	26,30	16,00	1,80	29,0	33,30	1,27
16B-1 OR	CS, NP, SS	25,400	15,88	17,02	8,26	38,90	41,30	20,30	4,0/3 ,0	60,0	73,90	2,78
20B-1 O	CS, NP, SS	31,750	19,05	19,65	10,15	44,50	48,50	26,40	4,5/3,5	95,0	107,40	3,78
Heavy and Super Heavy												
8B-1 OR H (428H)	CS, NP, SS	12,700	8,50	7,80	4,45	21,90	23,20	12,00	2,05	8,0	20,10	0,82
8B-1 OR SH (428SH)	CS, NP, SS	12,700	8,50	7,80	4,45	21,90	23,20	12,00	2,05	8,0	20,10	0,90
10B-1 OR H	CS, NP, SS	15,875	10,16	9,40	5,08	24,70	26,40	15,10	2,42	22,20	30,50	1,39

ASA SERIES

DIN/ISO No.	Material	Pitch P mm	Roller Diameter d1 max mm	width between Plates b1 min mm	Pin diameter d2 max mm	Pin lenght L max mm	Pin lenght Lc max mm	Inner plate depth h2 max mm	Plate thickness T max mm	Minimum tensile strenght Q min KN	Ultimate Tensile Strenght Q_0 KN	Weight per meter q kg/m
40-1 OR	CS, NP, SS	12,700	7,95	7,85	4,45	18,30	19,60	12,00	1,50	14,10	17,50	0,67
50-1 OR	CS, NP, SS	15,875	10,16	9,4	5,08	25,3	23,90	15,10	2,40	22,20	30,50	1,07
60-1 OR	CS, NP, SS	19,050	12,07	12,57	5,72	28,50	30,40	18,00	2,40	31,80	41,50	1,62
80-1 OR	CS, NP, SS	25,400	15,88	15,75	7,92	35,60	37,30	24,00	3,25	56,70	69,40	2,70
100-1 OR	CS, NP, SS	31,750	19,05	18,95	9,53	43,30	47,00	30,00	4,00	88,50	109,2	3,91
Heavy Series												
50-1 OR H	CS, NP, SS	15,875	10,16	9,40	5,08	24,70	26,40	15,10	2,42	22,20	30,50	1,39
60-1 OR H	CS, NP, SS	19,050	11,91	12,57	5,94	31,70	34,20	18,00	3,25	31,80	41,50	1,50

CS CARBON STEEL
NP NICKEL PLATED
SS STAINLESS STEEL





Maintenance-free chains

Lube-free chains are highly resilient to wear and maintenance-free. These transmission chains provide endurance and a significantly longer service life, and adapt to applications where lubrication passage is difficult, or when machines and materials must remain clean, at speeds amounting up to 3 m/s. **Efficiency is maximized as shutdowns for regular maintenance are no longer necessary.**

These chains are clean and dry, and help the environment by making relubrication redundant.

Chemically nickel-plated chains are optimized for protection from corrosion.

SERVICES

Many references ***available in stock.***

Specific product *on request*

Matched pairs *on request*

for chains working in parallel.

Chains of any length.

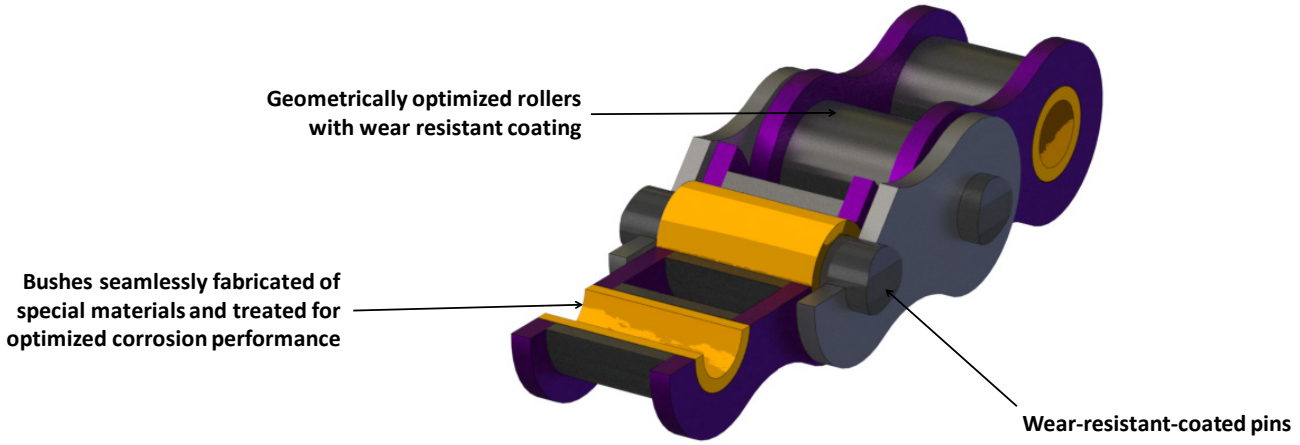
Technical assistance.

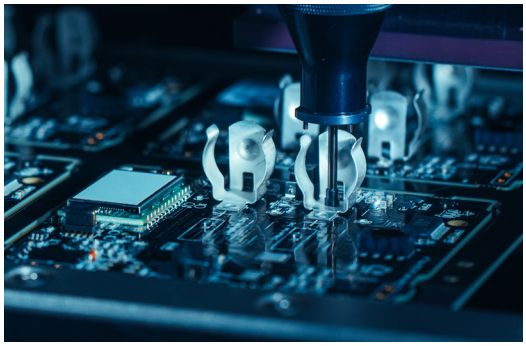
Highlights

- Longer chain life due to low friction and high resilience.
- Maximizes efficiency thanks to significant reduction of downtime.
- Significant cut of maintenance costs.
- Environmentally-friendly, no relubrication necessary.
- Reduces scrap and eliminates product contamination.
- Ideal for applications without lubrication operating at speeds up to 3 m/s.
- Operating temperature range: -40ºC to + 150ºC

Industries

- **Food and packaging**
- **Printing and paper manufacture**
- **Conveyor systems**
- **Textile and clothing**
- **Electronics**
- **Medical technology**





Lube-free chains

Lube-free roller chains

ISO SERIES

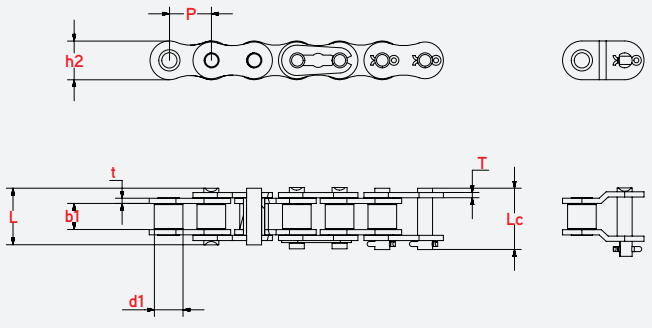
DIN/ISO No.	Material	Pitch P mm	Roller diameter D1 max mm	Pin diameter D2 max mm	Weight mq kg/m	Inner link B1 min mm	Inner link B2 min mm	Inner link G max mm	Outer link A1 max mm	Outer link A max mm	Tensile strenght N min Fb	Breaking area F cm2
SIMPLEX												
06 B-1	CN, DT	9,525	6,35	3,31	0,41	5,72	8,53	8,20	12,90	14,10	8,900	0,28
08 B-1	CN, DT	12,70	8,51	4,45	0,70	7,75	11,30	11,80	16,90	18,50	17,800	0,50
10 B-1	CN, DT	15,875	10,16	5,08	0,95	9,65	13,28	14,40	19,50	20,90	22,200	0,67
12 B-1	CN, DT	19,05	12,07	5,72	1,25	11,75	15,62	16,20	22,70	23,60	28,900	0,89
16 B-1	CN, DT	25,4	15,88	8,28	2,70	17,02	25,45	21,10	36,10	36,90	60,000	2,10
20 B-1	CN, DT	31,75	19,05	10,17	3,72	19,56	29,1	26,20	41,6	43,30	95,000	2,92
DUPLEX												
06 B-2	CN, DT	9,525	6,35	3,31	0,78	5,72	8,53	8,20	23,40	24,60	16,900	0,56
08 B-2	CN, DT	12,70	8,51	4,45	1,35	7,75	11,30	11,80	30,80	32,40	31,100	1,00
10 B-2	CN, DT	15,875	10,16	5,08	1,85	9,65	13,28	14,40	36,00	37,50	44,500	1,34
12 B-2	CN, DT	19,05	12,07	5,72	2,50	11,75	15,62	16,40	42,10	43,00	57,800	1,78
16 B-2	CN, DT	25,40	15,85	8,28	5,40	17,02	29,45	21,10	68,80	68,80	106,000	4,21
20 B-2	CN, DT	31,75	19,05	10,19	7,36	19,56	29,01	25,40	79,70	82,90	170,000	5,84
TRIPLEX												
08 B-3	CN, DT	12,70	8,51	4,45	2,00	7,75	11,30	11,80	44,70	46,30	44,500	1,50
10 B-3	CN, DT	15,875	10,16	5,08	2,80	9,65	13,28	14,40	52,50	54,00	66,700	2,02
12 B-3	CN, DT	19,05	12,07	5,72	3,80	11,75	15,62	16,40	61,50	62,50	86,700	2,68
16 B-3	CN, DT	25,40	15,88	8,28	8,00	17,02	25,45	21,10	99,20	100,70	160,000	6,32

ASA SERIES

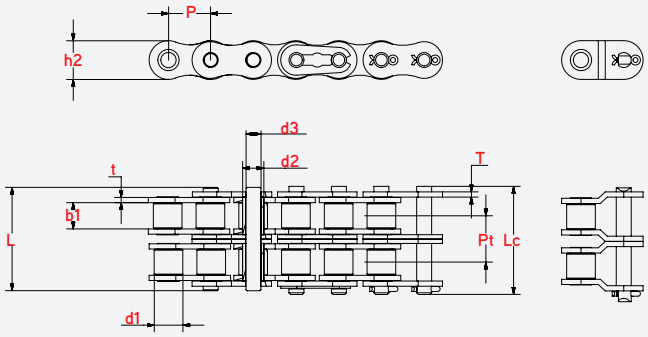
DIN/ISO No.	Material	Pitch P mm	Roller diameter D1 max mm	Pin diameter D2 max mm	Weight mq kg/m	Inner link B1 min mm	Inner link B2 min mm	Inner link G max mm	Outer link A1 max mm	Outer link A max mm	Tensile strenght N min Fb	Breaking area F cm2
08 A-1 ANSI 40	CN, DT	12,700	7,95	3,96	0,60	7,94	11,15	12,00	16,60	17,50	22,200	0,44
12 A-1 ANSI 60	CN, DT	19,050	11,91	5,96	1,47	12,70	17,75	18,00	25,30	26,70	31,300	1,06

CN CHEMICAL NICKEL
DT DELTA-TONE

Simplex



Duplex



Lube-free chains with straight side plates

Lube-free chains with straight attachment plate are a long-service-life solution for conveyor systems.

Customary shutdowns for maintenance are unnecesary. As a result these chains are ideal for sectors like the automotive and logistics.

SERVICES

Many references ***available in stock.***

Matched pairs *on request for chains working in parallel.*

Chains of any length.

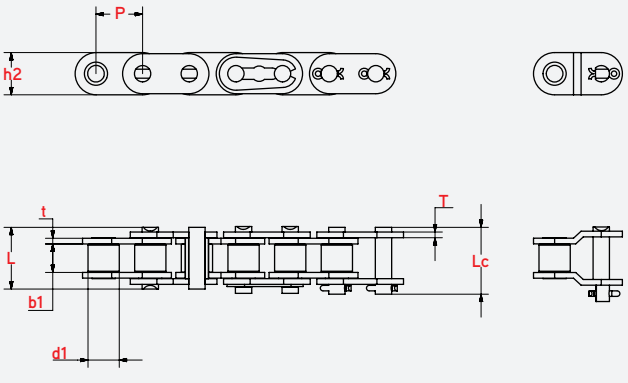
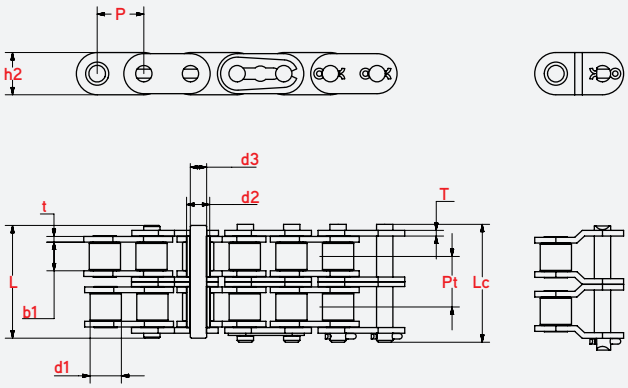
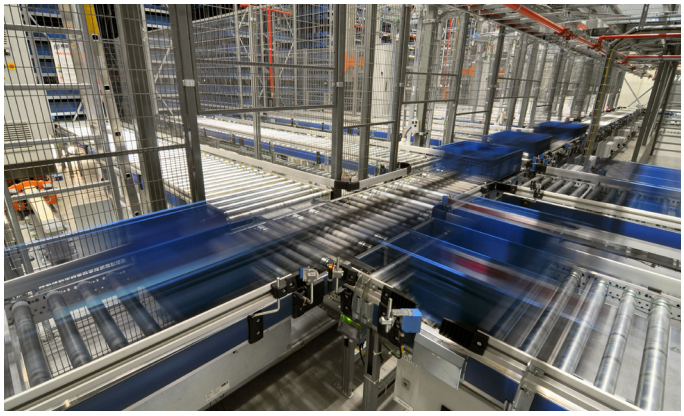
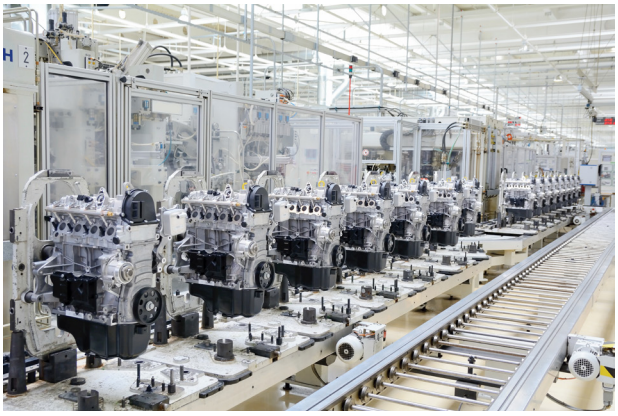
Technical assistance.

ISO SERIES

DIN/ISO No.	Material	Pitch P mm	Roller diameter D1 max mm	Pin diameter D2 max mm	Weight mq kg/m	Inner link B1 min mm	Inner link B2 min mm	Inner link G max mm	Outer link A1 max mm	Outer link A max mm	Tensile strenght N min Fb	Breaking area F cm2
SIMPLEX												
10 B-1	CN, DT	15,875	10,16	5,08	0,95	9,65	13,28	13,90	19,50	20,90	22,200	0,67
12 B-1	CN, DT	19,05	12,07	5,72	1,30	11,75	15,62	16,10	22,70	23,60	28,900	0,89
DUPLEX												
10 B-2	CN, DT	15,875	10,16	5,08	1,85	9,65	13,28	13,90	36,00	37,50	44,500	1,34
12 B-2	CN, DT	19,05	12,07	5,72	2,50	11,75	15,62	16,10	42,10	43,00	57,800	1,78

CN CHEMICAL NICKEL
DT DELTA-TONE

Simplex



Duplex