



ΚΟΥΚΟΡΙΝΗΣ-ΛΙΑΚΟΠΟΥΛΟΣ ΕΕ

iRiS
chains

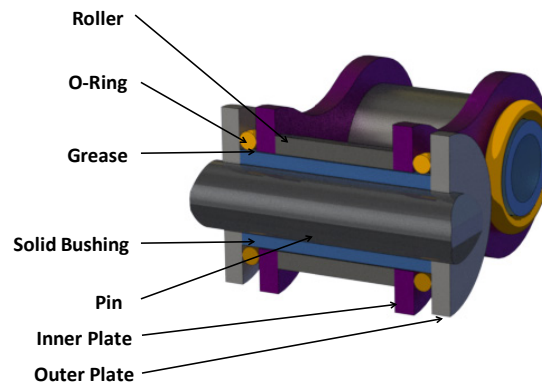
SINCE
1935

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: -30°C to + 100°C

Industries

- ▶ Mechanical Engineering
- ▶ Agricultural Industry
- ▶ Food Industry

O-Ring roller chains

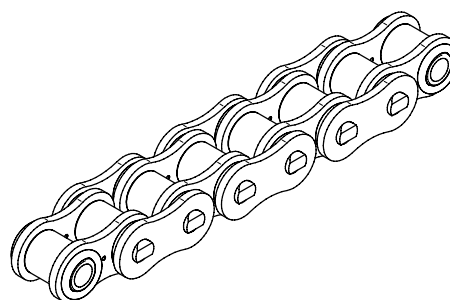
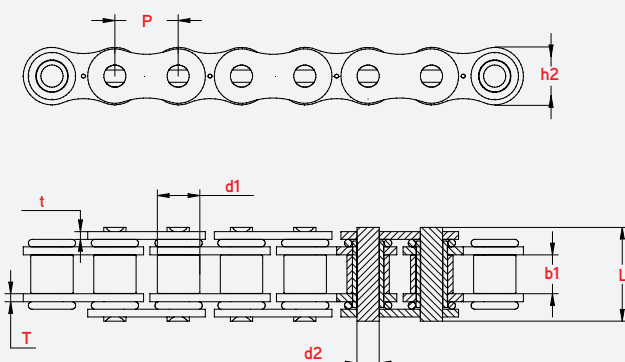
ISO SERIES

DIN/ISO No.	Material	Pitch	Roller Diameter	width between Plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Minimum tensile strenght	Ultimate Tensile Strenght	Weight per meter
		P mm	d1 max mm	b1 min mm	d2 max mm	L max mm	Lc max mm	h2 max mm	T max mm	Q min KN	Qo KN	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	Roller Diameter	width between Plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Minimum tensile strenght	Ultimate Tensile Strenght	Weight per meter
		P mm	d1 max mm	b1 min mm	d2 max mm	L max mm	Lc max mm	h2 max mm	T max mm	Q min KN	Qo KN	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.

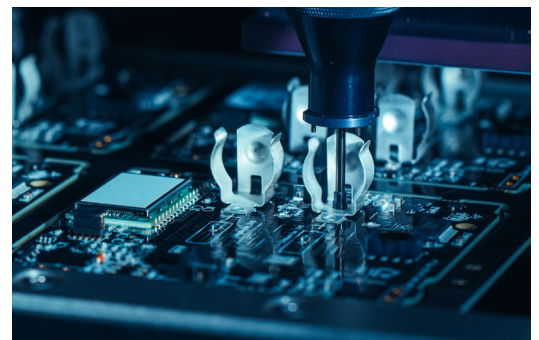
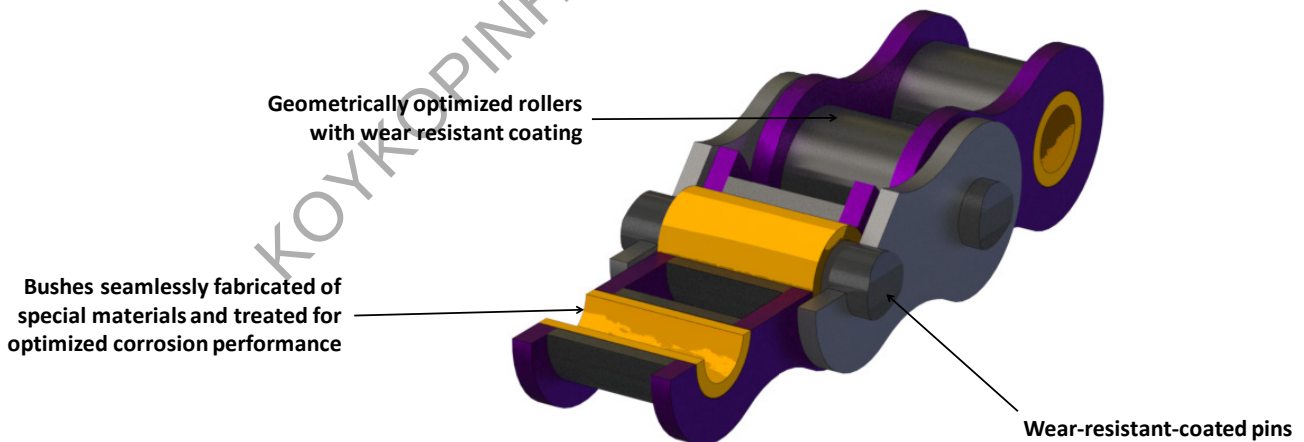
Technical assistance.

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: -40°C to + 150°C

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

ISO SERIES		Pitch	Roller diameter	Pin diameter	Weight	Inner link			Outer link		Tensile strenght	Breaking area
DIN/ISO No.	Material	P mm	D1 max mm	D2 max mm	mq kg/m	B1 min mm	B2 min mm	G max mm	A1 max mm	A max mm	N min Fb	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

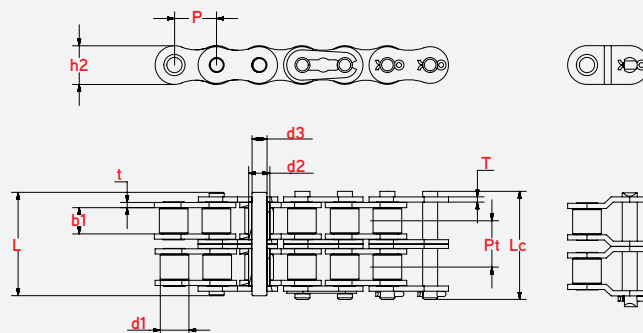
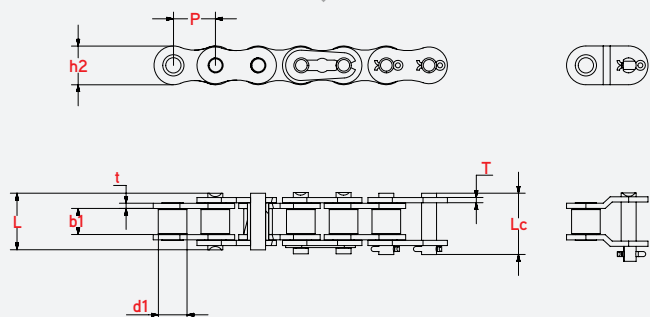
ASA SERIES

DIN/ISO No.	Material	Pitch	Roller diameter	Pin diameter	Weight	Inner link			Outer link		Tensile strenght	Breaking area
		P mm	D1 max mm	D2 max mm	m _q kg/m	B1 min mm	B2 min mm	G max mm	A1 max mm	A max mm	N min Fb	F cm ²
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 unnecessary. 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

ISO SERIES		Pitch	Roller diameter	Pin diameter	Weight	Inner link			Outer link		Tensile strenght	Breaking area
DIN/ISO No.	Material	P mm	D1 max mm	D2 max mm	m _q kg/m	B1 min mm	B2 min mm	G max mm	A1 max mm	A max mm	N min Fb	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

