Constromech Round link Elevator Catalogue

About CMECH

Constromech Solutions specializes in delivering customized solutions for Round Link Chain Elevators, offering a comprehensive range of essential components to optimize the performance of your system. Our expertise covers key elements such as Chain, Shaft Assembly, Attachments, Buckets, and Boot Bearing.

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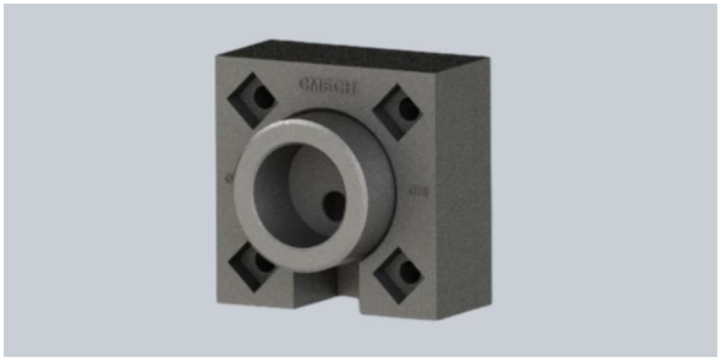
Our Product Portfolio

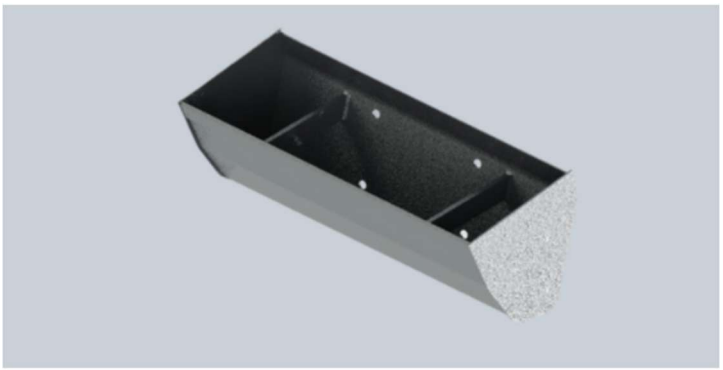
Chain

Sprocket & Shaft Assembly

Chain & Bucket Attachment



Boot Bearing



Buckets

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1. ***CMECH*** **Round Link Chain:**

   A heavy-duty, wear-resistant chain designed for continuous and reliable conveying in Submerged Scraper Conveyors, Bucket Elevators, and Drag Chain Systems. Engineered for high strength and long service life, it ensures smooth operation even in abrasive, high-temperature, or wet environments.

Surface Finish: 1 Self Color with Anti Rust Oil

Surface Finish: 2 Electrophoresis

Surface Finish: 3 Blackening

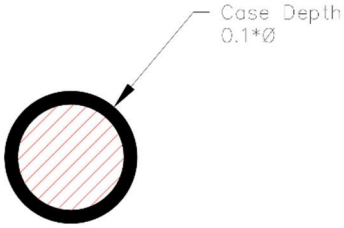
Technical Parameter

- ***Welding Type***

1. ***Electric Resisting Weld***
2. ***Flash Butt Weld***

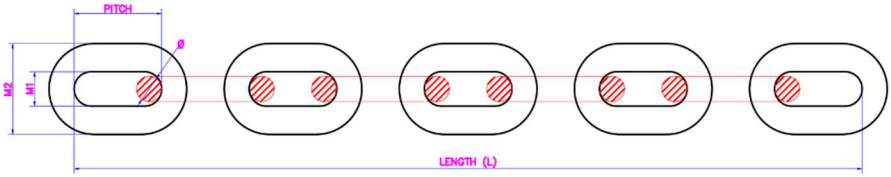
- ***Material Type***

- ***CMECH-20L: Low-alloy Case Hardening Steel.***
- ***CMECH-25D: Manganese–Vanadium Alloy Steel.***
- ***CMECH-S620: Nickel–Chromium–Molybdenum Case Hardening Steel.***
- ***CMECH-54SM: High-strength Nickel–Chromium–Molybdenum Alloy Steel.***
- ***CMECH-A17P: Nickel–Chromium–Molybdenum Case Hardening Steel.***



- tolerance 10%
- 30 mm Ø = 0,12 d, 36-42 mm Ø = 0,11 d
- ≥ 30 mm Ø = 0,05 d
- 30 mm Ø = 0,08 d, 36-42 mm Ø = 0,07 d
- CD = case hardening depth 6) ≥ 30 mm Ø = tolerance 20%

CMECH Round Link Chain Details & Dimensions with Specific Breaking Load



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Ø x PITCH (mm)	Weight (kg/m)	M1 Inside Width Min (mm)	M2 Outside Width Max (mm)	25D (KN)	20L (KN)	A17P (KN)	54SM (KN)	S620 (KN)
10 x 28	2,3	12	36	39	33	58	44	55
13 x 45	3,5	18	47	66	56	98	74	93
14 x 50	4,1	16.3	47	77	65	114	86	108
16 x 45	5,8	19.2	58	100	84	148	112	140
16 x 56	5,2	22	58	100	84	148	112	140
16 x 64	5,1	20	55	100	84	148	112	140
18 x 50	7,4	21.6	65	127	107	188	142	178
18 x 63	6,5	24	65	127	107	188	142	178
19 x 75	7,6	22	63	141	119	210	158	198
20 x 56	9,0	24	72	157	132	232	175	220
20 x 70	8,2	27	72	157	132	232	175	220
22 x 86	9,8	26	74	190	160	281	212	266
23 x 64	12,0	27.6	83	207	174	307	232	290
23 x 80	11,0	31	83	207	174	307	232	290
26 x 73	15,0	31.2	94	265	223	392	298	371
26 x 91	14,0	35	94	265	223	392	298	371
26 x 100	13,5	31	87	265	223	392	298	371
28 x 78	18,0	33.6	101	308	258	455	344	431
28 x 98	16,5	36	101	308	258	455	344	431
30 x 84	20,0	36	108	353	296	523	395	494
30 x 105	19,0	39	108	353	296	523	395	494
30 x 120	17,8	36	102	353	296	523	395	494

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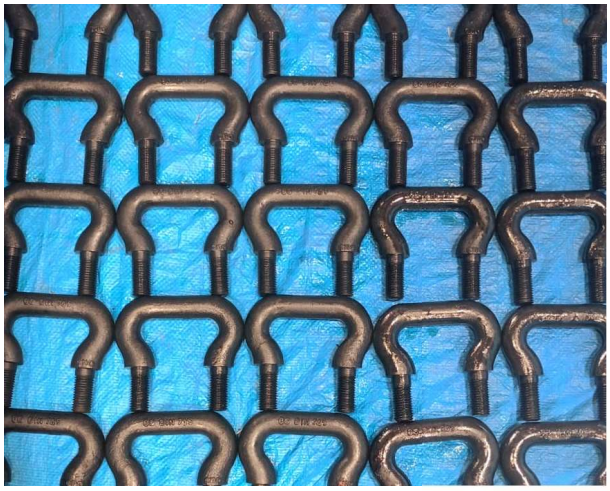
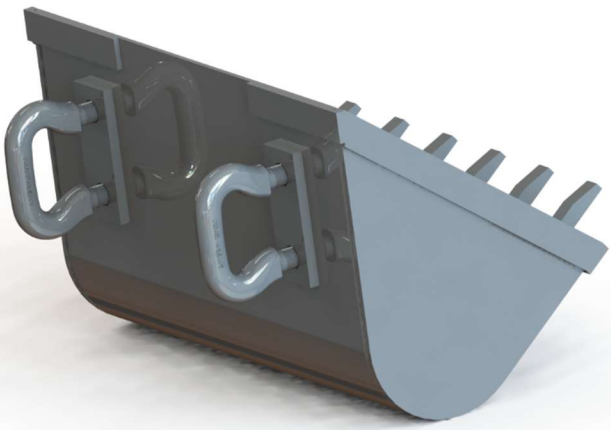
2. ***CMECH Round Link* Shackle:**

The **CMECH Shackle** is a high-strength connector designed to ensure secure fastening and reliable jointing in conveyor, chain, and material handling systems. Engineered for durability, the CMECH Shackle is suitable for heavy-duty operations and harsh environments where safety, toughness, and precision are paramount.



Surface Finish: 1 Self Color with Anti Rust Oil



Surface Finish: 2 Painted

Surface Finish: 3 Blackening

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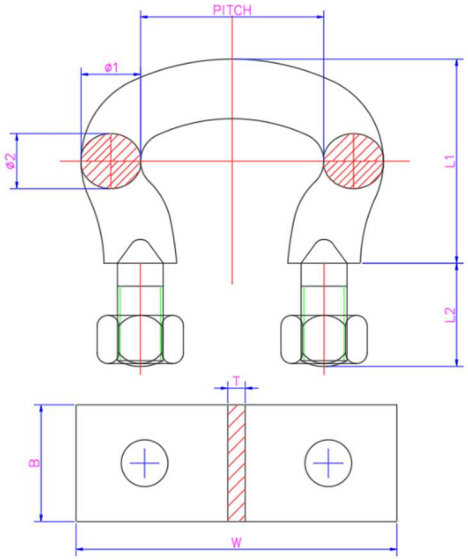

Technical Parameter DIN 5699

- ***DIN Standard***

1. *DIN 5699*

- ***Material Type***

1. *C-45 With IS2062 Plate & Gr-8.8 Nut*
2. *20Mn With IS2062 Plate & Gr-8.8 Nut*

Pitch (mm)	Size(mm)	Plate (mm)			Shackle(mm) DIN 5699			
		W	B	T	Ø2	Ø1	L1	L2
35	10 × 35	65	30	5	10	12	43	25
45	13 × 45	75	30	5	13	15	53	30
56	16 × 56	95	40	6	16	18	64	35
63	18 × 63	110	40	6	18	21	71	40
70	20 × 70	120	50	6	20	23	80	45
80	23 × 80	130	50	6	23	26	89	45
91	26 × 91	150	60	8	26	29	99	55
105	30 × 105	165	60	10	30	34	114	55
126	36 × 126	200	70	10	36	40	134	65
136	39 × 136	220	80	12	39	44	146	75
147	42 × 147	230	80	12	42	47	157	75

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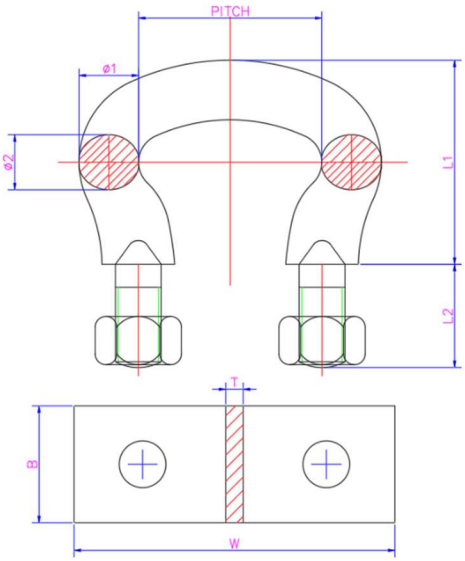

Technical Parameter DIN 745

- ***DIN Standard***

2. *DIN 745*

- ***Material Type***

3. *C-45 With IS2062 Plate & Gr-8.8 Nut*
4. *20Mn With IS2062 Plate & Gr-8.8 Nut*

Pitch (mm)	Size(mm)	Plate (mm)			Shackle(mm) DIN 745			
		W	B	T	Ø2	Ø1	L1	L2
45	13 x 45	75	30	5	11.5	14	40	25
56	16 x 56	95	40	6	15	18	50	32
63	18 x 63	110	40	6	18	21	60	40
70	20 x 70	120	50	6	20	23	68	45
80	23 x 80	130	50	6	23	26	74	45
91	26 x 91	150	60	8	26	29	86	55
105	30 x 105	165	60	8	30	34	100	55
126	36 x 126	200	70	10	36	40	118	70
147	42 x 147	220	70	10	42	46	136	70

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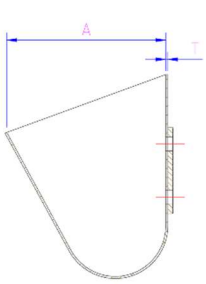
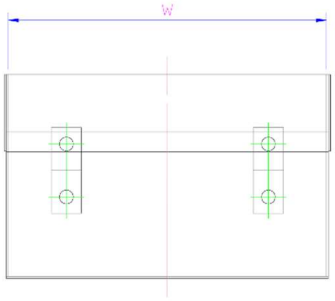
3. ***CMECH Round Link* Bucket:**

Constromech Solutions offers a variety of buckets designed to suit the unique demands of Round Link Chain Elevators. These buckets are crafted for durability and effective material handling.

Stainless Steel Bucket with SS Liner

Mild Steel Bucket with Hardox Liner





Size	W (mm)	A (mm)	T (mm)	Size	W (mm)	A (mm)	T (mm)	Size	W (mm)	A (mm)	T (mm)
160x140x3	160	140	3	400x224x4	400	224	4	1000x355x6	1000	355	6
160x160x3	160	160	3	400x250x4	400	250	4	1000x400x6	1000	400	6
200x160x3	200	160	3	500x250x5	500	250	5	1250x400x6	1250	400	6
200x180x3	200	180	3	500x280x5	500	280	5	1250x450x6	1250	450	6
250x180x3	250	180	3	630x280x5	630	280	5	1400x425x8	1400	425	8
250x200x4	250	200	4	630x315x5	630	315	5	1600x450x8	1600	450	8
315x200x4	315	200	4	800x315x6	800	315	6	1600x500x6	1600	500	6
315x224x4	315	224	4	800x355x6	800	355	6	1700x550x6	1700	550	6

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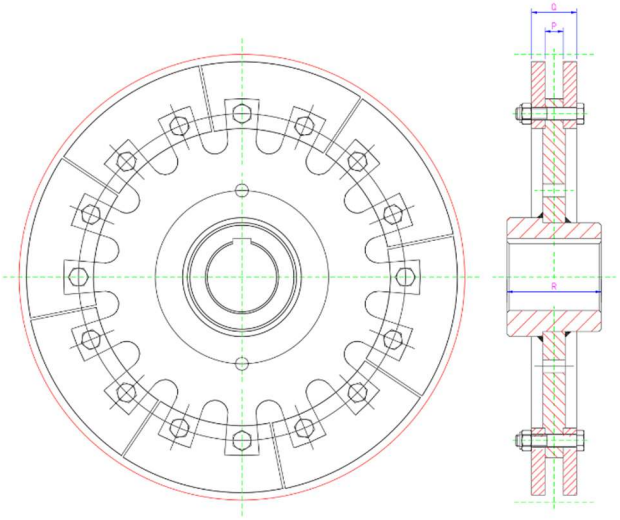
4. SEGMENTED PLAIN WHEEL (TOOTHLESS)-TLS

Plain segmented chain wheels for use with DIN 766 & DIN 764 – round steel chains resp. chain ends acc. to DIN 764 and DIN 766 for side mounted buckets. Plain segmented chain wheels TLS with steel hub and cleaning slots, are welded steel fabrications. Bore diameter and key size as specified by the customer. TLS with replaceable hard faced steel segments – highly wear resistant, surface hardness min. 55 HRC.



SIZE	CHAIN DIAMETER	P. C. D	R	Q	P	NO. OF SEGMENT	WEIGHT
		[mm]	[mm]	[mm]	[mm]		[kg/pc.]
TLS13/500	13 + 14	500	100	47	17	8	50,00
TLS16/500	16	500	100	56	20	8	52,00
TLS16/630	16	630	160	56	20	8	115,00
TLS16/710	16	710	160	56	20	8	165,00
TLS16/800	16	800	190	56	20	8	290,00
TLS18/500	18	500	100	62	22	8	56,00
TLS18/630	18	630	160	62	22	8	120,00
TLS18/710	18	710	160	62	22	8	170,00
TLS20/500	18 + 20	500	100	65	25	8	56,00
TLS20/630	18 + 20	630	160	65	25	8	120,00
TLS20/710	18 + 20	710	160	65	25	8	170,00
TLS23/630	22 + 23	630	160	78	28	8	125,00
TLS23/710	22 + 23	710	160	78	28	8	170,00
TLS23/800	22 + 23	800	160	78	28	8	225,00
TLS23/900	22 + 23	900	190	78	28	8	280,00
TLS23/1000	22 + 23	1000	200	78	28	8	350,00
TLS26/710	26	710	160	91	31	8	180,00
TLS26/800	26	800	160	91	31	8	240,00
TLS26/900	26	900	190	91	31	8	310,00
TLS26/1000	26	1000	200	91	31	8	375,00
TLS30/900	30	9000	190	106	36	8	300,00
TLS30/1000	30	1000	200	106	36	8	395,00
TLS30/1250	30	1250	220	106	36	8	640,00
TLS36/1250	34 + 36	1250	220	116	46	8	680,00