

BUCKET ELEVATORS - CHAIN

RUD has a range of chain bucket elevator systems suitable for bulk material handling. Our expertise in quality elevators internationally has provided reliable products to reduce maintenance and operating costs.

RELIABILITY

- Vertical conveying applications.
- Suitable for granular, lumpy materials.
- Wear resistant RUD chain provide long life solutions.

FLEXIBILITY

- Dust free modular casings.
- Centrifugal discharge.
- Gravity discharge.
- Positive or central discharge.

PRODUCTIVITY

- High capacity conveying.
- Friction or toothed wheels.

DURABILITY

- Suitable for high temperature applications.
- Chains have hardened properties.
- Matched components for optimum performance.

SERVICEABILITY

- Easily accessible casings.
- Bolt on teeth and wheel segments.
- Modular casings.
- Dust extraction capability.


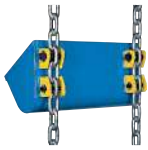
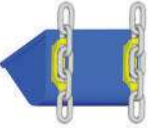
**GERMAN QUALITY
AND ENGINEERING**



SUITABLE FOR USE IN A RANGE OF APPLICATIONS

- | | | | |
|---------------|----------------------|-------------|---------------------|
| ■ Coal / Coke | ■ Cement | ■ Limestone | ■ Fertiliser |
| ■ Ash | ■ Mineral Processing | ■ Dust | ■ Recycled Material |

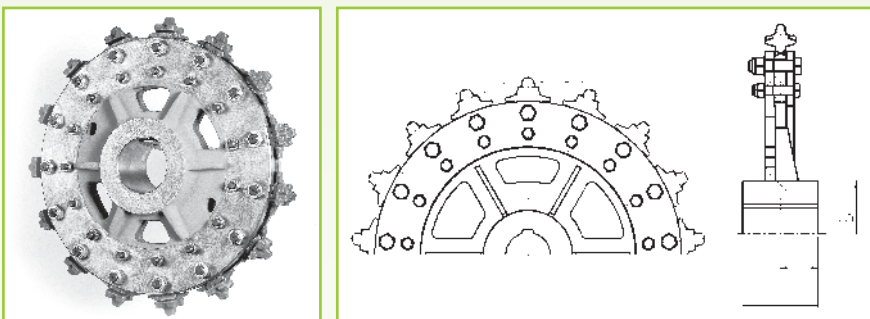
THE CORRECT BUCKET ELEVATOR SYSTEM FOR YOUR CONVEYING TASK

System	Bucket Width (mm)	Conveying Capacity maximum (m ³ /h)	Centre Distance maximum (m)	Conveying Speed maximum (m/s)	Recommended Grain Size maximum (mm)	Bulk Temperature maximum (°C)	Recommended Bulk Material
 RUD-Central Chain	400 - 1100 Single 2 x 400 2 x 1000 Tandem	600 1200	70	1.75	120	250	• Cement • Limestone • Gravel • Coke • Slag • Clinker
Recommended Traction Device (sizes) RU80, RU150 & RU200 / Breaking Load 800 kN . . . 2000 kN							
 RUD-System 65	250 - 1600	1100	65	1.65	120	200	• Cement • Limestone • Gravel • Coal • Sugar Beets • Clinker • Fertiliser • Soda • Potash • Salt
Round Steel Chain 14 x 50 - 38 x 144 / Breaking Load 128 kN . . . 910 kN							
 RUD-System 2win	250 - 1250	700	60	1.65	100	200	• Cement • Limestone • Lime • Soda • Gypsum • Fertiliser • Filter dust
Round Steel Chain 19 x 75 - 34 x 136 / Breaking Load 227 kN . . . 710 kN							

RUD has a range of high performance chain bucket elevator systems to suit your specific application. RUD component packages are also available as an engineered conversion kit for optimisation of existing bucket elevator systems.

RUD Wheels for Bucket Elevator Systems

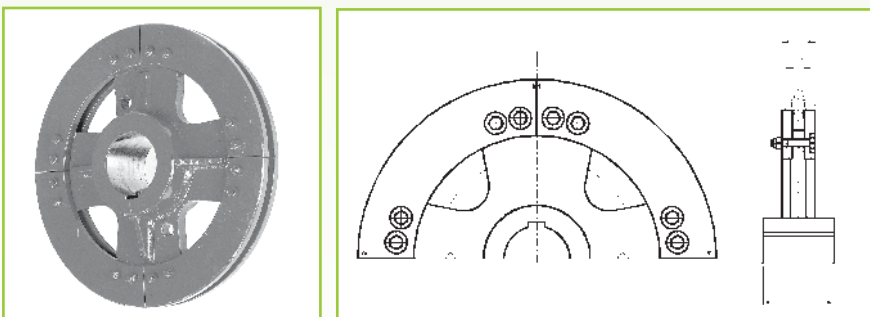
POSITIVE DRIVE



POSITIVE DRIVE

- Suitable for the RUD 2win system.
- Bored and keyed according to customer requirements.
- Robust, welded design with exchangeable case hardened segments.
- Hardened segments suited for drive wheels.
- Unhardened segments suited for idler wheels.

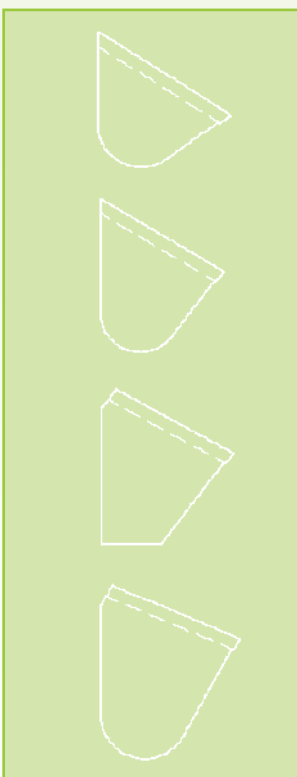
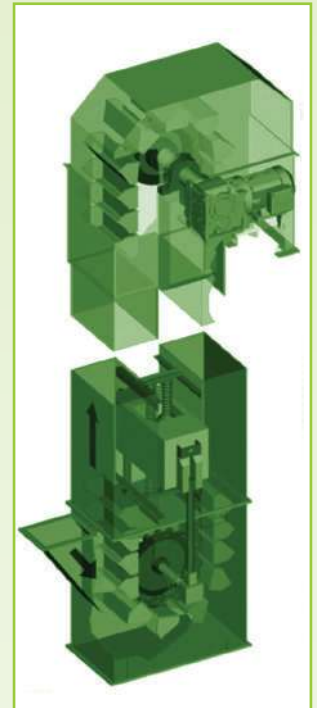
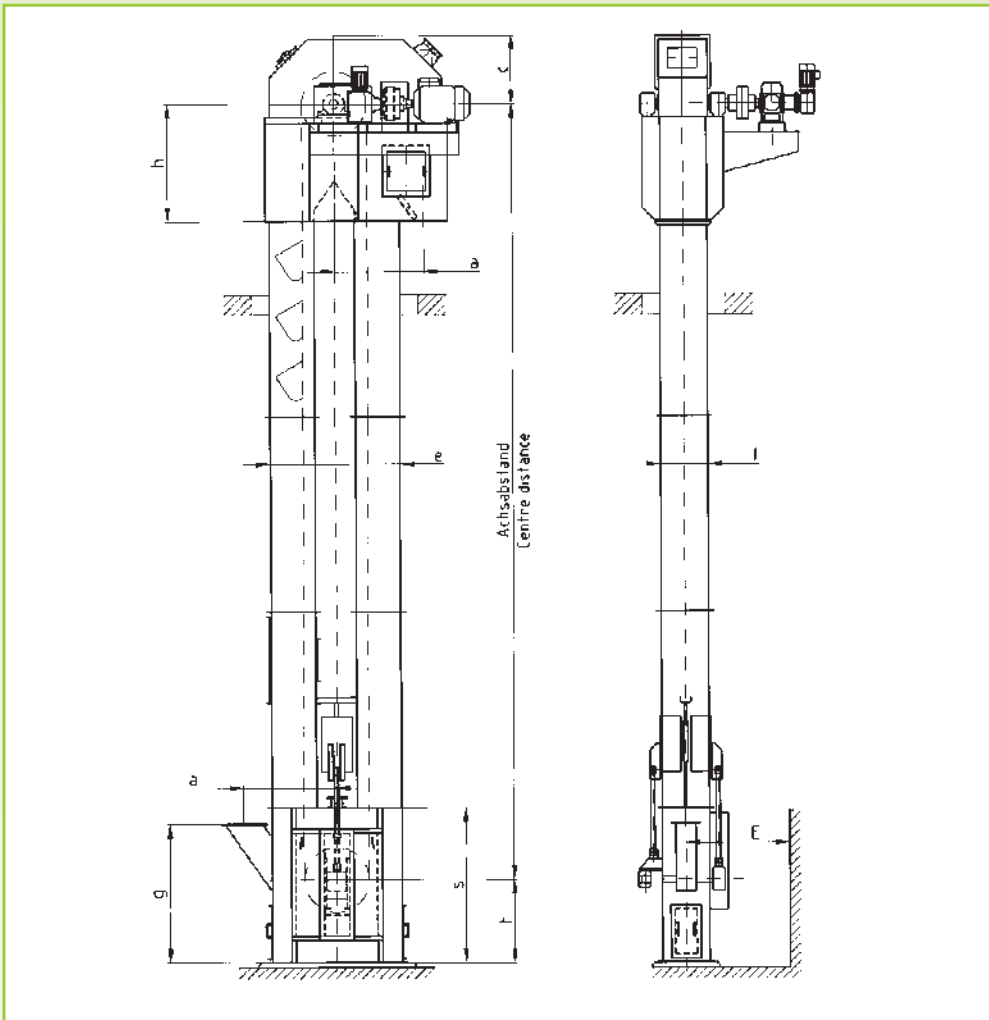
FRICTION DRIVE



FRICTION DRIVE

- Individual exchangeable teeth manufactured from MnCr steel.
- The teeth have a highly wear resistant hardened surface.
- Hub discs and counter plates are of welded design except when using GG (grey cast iron).
- Suitable for use as a reversing wheel.

RUD quality components provide reliable solutions to reduce your maintenance and operating costs!



BUCKETS FOR HIGH CAPACITY BUCKET ELEVATORS

		Bucket DIN 15233												
Width	mm	160	200	250	315	400	500	630	800	1000	1250	1600		
Speed	m/s	1.05	1.05	1.15	1.15	1.20	1.20	1.34	1.34	1.48	1.48	1.48		
Capacity	m ³ /h*	9	11	20	25	44	61	94	129	196	305	391		
		Bucket DIN 15234												
Width	mm	160	200	250	315	400	500	630	800	1000	1250	1600		
Speed	m/s	1.05	1.05	1.15	1.15	1.20	1.20	1.34	1.34	1.48	1.48	1.48		
Capacity	m ³ /h*	14	17	31	39	70	98	151	207	304	473	605		
		Special type bucket												
Width	mm	160	200	250	315	400	500	630	800	1000	1250	1600		
Speed	m/s	1.15	1.15	1.25	1.25	1.28	1.33	1.49	1.49	1.48	1.48	1.48		
Capacity	m ³ /h*	18	23	41	52	91	133	209	287	353	558	715		
		High capacity bucket												
Width	mm	160	200	250	315	400	500	630	800	1000	1250	1600		
Speed	m/s	1.15	1.15	1.25	1.25	1.28	1.33	1.49	1.49	1.48	1.48	1.48		
Capacity	m ³ /h*	27	34	59	75	129	185	288	397	499	789	1010		

Dimensions	Bucket width	b	160	200	250	315	400	500	630	800	1000	1250	1600
Head	a	724	724	904	904	1004	1139	1264	1410	1673	1747	1747	
	c	540	540	695	695	785	875	955	1050	1320	1340	1340	
	h	850	850	1050	1050	1250	1450	1600	1800	2100	2300	2300	
Housing	e	1000	1000	1250	1250	1400	1600	1800	2000	2450	2550	2550	
	f	280	355	450	545	660	770	900	1110	1300	1600	2000	
Boot	a	724	724	904	904	1004	1139	1264	1410	1673	1747	1747	
	g	1220	1220	1350	1350	1500	1700	1900	2100	2450	2500	2500	
	t	670	670	800	800	880	970	1080	1300	1550	1550	1550	
	s	1320	1320	1450	1450	1600	1800	2000	2200	2750	2750	2750	
	Disassembly clearance	E	900	1000	1200	1300	1500	1600	1800	2100	2500	2900	3500

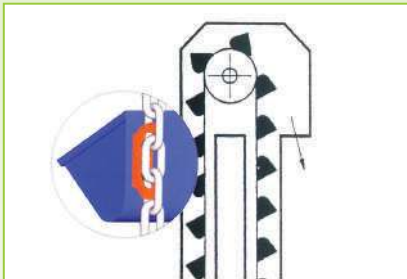
* Conveying capacity at approx. 75% fill factor

Consult a RUD specialist (via questionnaire) for optimum bucket elevator selection.

System comparison: Single-link versus multiple-link attachments		Single-link attachment	Multiple-link attachment
	Brace support in the chain strand	+	+++
	Suitability for coarse-grained materials	+	+++
	Suitability for high-capacity buckets		+++
	Wear and tear on attachments	++	+
	Wear and tear on chain	+	++
	Component break resistance	+	+++
	Viscous materials	+	++
	System reliability/availability	+	++



BUCKET ELEVATOR CONFIGURATIONS



Conventional bucket elevator, mixed discharge.

Bucket back wall attachment 2win.

- Attached to the bucket back wall.
- Speed range $V = 1.0-1-65$ m/s.
- Variable bucket spacing possible.
- Suitable for cement, limestone, lime, gypsum, fertiliser, filter dust.



Centre discharge bucket elevator, gravity discharge.

Bucket side wall attachment SWA.

- Attached to the bucket side wall.
- Speed range $V = 0.3-0.6$ m/s.
- Variable bucket spacing possible.
- Suitable for coarse loose material such as clinker, gravel etc.



Positive discharge snubbed bucket elevator, gravity discharge.

Bucket side wall attachment SWA.

- Attached to the bucket side wall.
- Speed range $V = 0.4-0.8$ m/s.
- Variable bucket spacing possible.
- Suitable for materials which are difficult to discharge.

OPTIONAL EXTRAS

- In feed hopper
- Discharge chutes
- Slide gate
- Stainless steel options
- Toothed head wheel
- Dry bearings
- Bucket edge wear strip
- Friction head wheel