

HOIST CHAINS

for manual and motor-driven hoists







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FOR US, THERE IS ONLY ONE OBJECTIVE: BEING BETTER.

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CHAIN HARDNESS

Uniform surface hardness and depth, particularly in the joints, excellent wear resistance, long service life.

STRENGTH

Outstanding dynamic strength, maximum operating safety.

GEOMETRY

Narrow dimensional tolerances, symmetrical link shape, fine control using take-up wheels.

CALIBRATION

All RUD hoist chains are 100% calibrated.

PRODUCTION

Made in Germany, at our Aalen-Unterkochen plant.

DEVELOPMENT

Collaboration with German technical institutes and hoist equipment manufacturers.

IDENTIFICATION

Chain identification is essential for clear safety information and traceability.

CHAIN DIMENSIONS

RUD makes the smallest and largest hoist chains in the world, with sizes ranging from 3 x 9 to 32 x 90 mm.

SERVICE

Reliable delivery, consultation and technical assistance worldwide from our RUD representatives.

WE SUPPLY ALL LEADING OEMS WORLDWIDE WITH OUR RUD HOIST CHAINS - MADE IN GERMANY



HOIST CHAINS

for manual and motor-driven hoists

RUD HOIST CHAINS: PERFORMANCE - OVERVIEW



Available in a variety of qualities and sizes on coil or as rods.



The drawing machine draws the material to precisely the desired diameter.



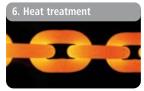
Bending of the individual chain links: Each link is cleanly bent and laced into the next link.



Welding the links after bending.



Stamping the welded chain with critical information:
The RUD emblem, quality rating, manufacturing number and batch number.



Case-hardened and quenched and tempered chains



Black phosphated, galvanised, special coatings



The chain is precisely sized and loaded with manufacturing proof force.



Quality assurance and acceptance.



Warehousing and shipping.

APPLICATION FOR RUD HOIST CHAINS: INDUSTRY · WIND POWER STATIONS · STAGE TECHNOLOGY · OFFSHORE











RUD ROUND LINK CHAIN - DAT TYPE

FOR HIGH WEAR RESISTANCE PER EN 818-7-DAT, USING MOTOR-DRIVEN HOISTS

DAT/T quality class execution						
Mechanism group ISO 4301-1 (FEM 9.511)	Nominal stress [N/mm²]	Limit stress [N/mm²]				
M1 (1Dm)	200	250				
M2 (1Cm)	160	225				
M3 (1Bm)	160	200				
M4 (1Am)	140	180				
M5 (2m)	125	160				
M6 (3m)	112	140				
M7 (4m)	100	125				
M8 (5m)	90	112				



Quality and designation	RTS	RTD	RTB				
Stress at manufacturing proof force	σ _{FPmin}	N/mm²	500				
Stress at breaking force	σ _{Bmin}	N/mm²	800				
Total ultimate elongation	A _{min}	%	10				
Surface hardened according to DIN EN 818-7	d ≤ 6,5 Ø d ≥ 7 Ø	HV 5 HV10	500 - 650				
Case depth in the joint (after macro-etching)	d ± 0.01 d	mm	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		5 / 0.04		
Fatigue strength		N/mm²	130 ± 80	130 ± 90	130 ± 100		

		Load capac	Load capacity Ftr [kg] according to me		nism group	Manufactu-							
		M3 (1Bm)	M4 (1Am)	M5 (2m)	M6 (3m)	ring proof	Breaking force				Weight		
Dimensions [mm]	Material No.	Nominal stress: 160 N/mm ² Safety factor	Nominal stress: 140 N/mm ² Safety factor	stress: 125 N/mm ² 11	stress: 125 N/mm²	stress: 125 N/mm²	Nominal stress: 112 N/mm ² Safety factor	force FBmin [kN]		RTS	RTD	RTB	[kg/m]
		5	5.7	6.4	7.1								
3 ¹⁾ x 9	7985902	230	200	180	160	7	11.3	х			0.19		
4 x 12	7100183	410	350	320	280	12.6	20.1	Х	Х	Х	0.35		
5 x 15	7100184	640	560	500	440	19.6	31.4	Х	Х	Х	0.54		
6 x 18	7101362	920	800	720	640	28.3	45.2	Х	Х		0.78		
6.3 x 19	7983648	1,000	880	790	710	31.2	49.9	Х			0.86		
6.3 x 19.1	7102922	1,000	880	790	710	31.2	49.9	Х			0.86		
7 x 21	7102168	1,250	1,090	980	870	38.5	61.6	Х	Х	Х	1.1		
7 x 22	7100185	1,250	1,090	980	870	38.5	61.6	Х	Х		1.1		
7.1 x 20.2	7103637	1,250	1,090	980	870	39.6	63.3	Х		Х	1.1		
7.1 x 21.2	7102924	1,290	1,130	1,000	900	39.6	63.3	Х			1.1		
8 x 24	7101363	1,640	1,430	1,280	1,140	50.3	80.4	Х			1.4		
9 x 27	7100186	2,070	1,810	1,620	1,450	63.6	102	Х	Х	Х	1.8		
10 x 28	7102169	2,560	2,240	2,000	1,790	78.5	126	Х			2.2		
10 x 30.2	7102926	2,560	2,240	2,000	1,790	78.5	126	Х			2.2		
11 x 31	7102955	3,100	2,700	2,420	2,160	95	152	Х			2.7		
11.2 x 34	7993063	3,200	2,800	2,500	2,240	98.5	157.6	Х			2.7		
11.2 x 34.4	7102930	3,200	2,800	2,500	2,240	98.5	157.6	Х			2.7		
11.3 x 31	7992923	3,270	2,860	2,550	2,280	100.3	160.5	Х	Х	Х	2.85		
13 x 36	59733	4,330	3,780	3,380	3,030	132.7	212.3	Х		Х	3.8		
16 x 45	55004	6,550	5,730	5,120	4,590	201	322	Х		Х	5.7		
23.5 ¹⁾ x 66	7993516	14,100	12,370	11,000	9,900	434	694	Х			12.2		

¹⁾ Dimensions outside of EN 818-7. Other dimensions on request.



RUD D-PROFILE-CHAIN - DAT TYPE

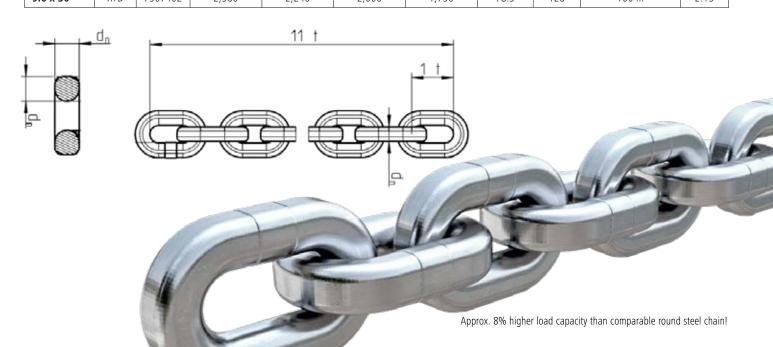
FOR HIGH WEAR RESISTANCE PER EN 818-7-DAT, USING MOTOR-DRIVEN HOISTS

DAT/T quality class execution					
Mechanism group ISO 4301-1 (FEM 9.511)	Nominal stress [N/mm²]	Limit stress [N/mm²]			
M1 (1Dm)	200	250			
M2 (1Cm)	160	225			
M3 (1Bm)	160	200			
M4 (1Am)	140	180			
M5 (2m)	125	160			
M6 (3m)	112	140			
M7 (4m)	100	125			
M8 (5m)	90	112			



Quality and designation	RTS	RTD	RTB			
Stress at manufacturing proof force	σ _{FPmin}	N/mm²	500			
Stress at breaking force	σ_{Bmin}	N/mm²	800			
Total ultimate elongation	A_{min}	%	10			
Surface hardness according to DIN EN 818-7	$d \le 6.5 \emptyset$ $d \ge 7 \emptyset$	HV 5 HV10	500 - 650			
Case depth in the joint (after macro-etching)	d ± 0.01 d	mm	$ \leq \emptyset \ 4 \ / \ 0.05 \\ \emptyset \ 4.1-7 \ / \ 0.04 \\ \emptyset \ 8-16 \ / \ 0.03 \\ \geq \emptyset \ 16.1 \ / \ 0.02 $		5 / 0.04	
Fatigue strength		N/mm²	130 ± 80	130 ± 90	130 ± 100	

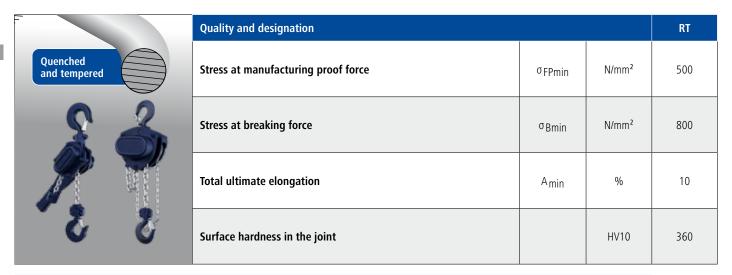
			Load capac	Load capacity Ftr [kg] according to mechanism group						
			M3 (1Bm)	M4 (1Am)	M5 (2m)	M6 (3m)	facturing proof force		Weight	
Dimensions [mm]	Quality	Material No.	Nominal stress: 160 N/mm²	Nominal stress: 140 N/mm²	Nominal stress: 125 N/mm²	Nominal stress: 112 N/mm²	FFPmin [kN]	FBmin [kN]	Manufacturing lenght	[kg/m]
			Safety factor 5	Safety factor 5.7	Safety factor 6.4	Safety factor 7.1				
3.7 x 12	RTD	7907103	380	340	320	270	12.6	20.1	200 m	0.34
3.75 x 10.75	RTS	7909389	380	340	320	270	12.6	20.1	200 m	0.34
5 x 14.3	RTD	7907401	630	600	540	480	21.3	34.0	200 m	0.61
5.25 x 15	RTS	7908823	800	670	630	530	24.7	39.5	200 m	0.59
7 x 21	RTD	7903473	1,400	1,220	1,090	970	43	68.8	100 m	1.20
7.45 x 23	RTS	7909391	1,540	1,350	1,200	1,080	50	80	150 m	1.35
9.6 x 30	RTD	7907402	2,560	2,240	2,000	1,790	78.5	126	100 m	2.15





RUD HOISTING CHAINS - T TYPE

FOR LOW/MODERATE WEAR APPLICATIONS PER EN 818-7-T, SPECIAL DESIGNED FOR MANUAL HOISTS



		Load capacity F _{tr} [kg] according to mechanism group				oup	Manu-	Breaking	Maria La
		Hand (1Dm)	M3 (1Bm)	M4 (1Am)	M5 (2m)	M6 (3m)	facturing	force	Weight
Dimensions [mm]	Material No.			Nominal stress:			proof force FFPmin	FBmin	
[IIIIII]	NO.	200 N/mm²	160 N/mm²	140 N/mm²	125 N/mm²	112 N/mm²	FFPMIN [kN]	[kN]	[kg/m]
		Safety factor 4	Safety factor 5	Safety factor 5.7	Safety factor 6.4	Safety factor 7.1		,	
3 ¹⁾ x 9	7989206	280	230	140	180	160	7	11.3	0.19
4 x 12	53804	510	410	350	320	280	12.6	20.1	0.35
4.2 x 12.2	7983725	560	440	390	350	310	13.8	22.0	0.38
5 x 15	53008	800	640	560	500	440	19.6	31.4	0.54
5.6 x 15.8	7990657	1,000	800	700	630	560	24.6	39.4	0.70
5.6 x 17	57165	1,000	800	700	630	560	24.6	39.4	0.68
6 x 18	56680	1,150	920	800	720	640	28.3	45.2	0.78
6 x 18.5	60144	1,150	920	800	720	640	28.3	45.2	0.8
6.3 x 19	7985347	1,270	1,010	880	790	710	31.2	49.9	0.86
6.3 x 19.1	53012	1,270	1,010	880	790	710	31.2	49.9	0.86
7 x 22	7901147	1,560	1,250	1,090	980	870	38.5	61.6	1.1
7.1 x 20.1	7990660	1,560	1,250	1,090	980	870	39.6	63.3	1.09
7.1 x 21	53016	1,560	1,250	1,090	980	870	39.6	63.3	1.1
7.1 x 21.2	62168	1,560	1,250	1,090	980	870	40	67	1.1
8 x 24	62162	2,050	1,640	1,430	1,280	1,140	50.3	80.4	1.4
9 x 24.8	7990664	2,590	2,070	1,810	1,620	1,470	63.6	102.0	1.82
9 x 27	55376	2,590	2,070	1,810	1,620	1,470	63.6	102	1.8
10 x 28	7101451	3,200	2,560	2,240	2,000	1,790	78.5	126	2.2
10 x 28.1	7990789	3,200	2,560	2,240	2,000	1,790	78.5	126.0	2.23
10 x 30	57862	3,200	2,560	2,240	2,000	1,790	78.5	126	2.2
11 x 31	60931	3,870	3,100	2,710	2,420	2,170	95	152	2.7
11.2 x 34	53028	4,010	3,200	2,810	2,500	2,250	98.5	157.6	2.7
13 x 36	53030	5,400	4,320	3,780	3,380	3,030	132.7	212.3	3.8
16 x 45	53017	8,150	6,550	5,730	5,110	4,590	201	322	5.7
22 x 66	7989369	15,500	12,500	10,840	9,680	8,680	400	630	10.7
23.5 ¹⁾ x 66	7992988	17,680	14,140	12,380	11,050	9,900	434	694	12.2
32¹) x 90	7993904	32,790	26,200	22,950	20,480	18,360	780	1,286	21.3

 $^{^{1)}\}mbox{ Dimensions outside of above mentioned standards. Other dimensions on request.}$



RUD ROUND LINK CHAIN - VH TYPE

FOR USE IN MANUAL HOISTS ISO 16872

	Quality and designation			VH
Quenched and tempered	Stress at manufacturing proof force	σFPmin	N/mm²	625
2 2	Stress at breaking force	σ _{Bmin}	N/mm²	1000
<i>P</i> ~	Total ultimate elongation	A _{min}	%	17
5 5	Surface hardness in the joint		HV10	min. 430

Dimensions [mm]	Material No. "natural black"	Load capacity F _{tr} [kg] according to mechanism group Load traction force: 250 N/mm² Safety factor 4	Manufacturing proof force F _{FPmin} [kN]	Breaking force F _{Bmin} [kN]	Weight [kg/m]
4 x 12	7905884	630	15.7	25.1	0.35
5 x 15	7900678	1,000	24.5	39.3	0.54
6.3 x 19.1	7900646	1,600	39.0	62.3	0.86
7.1 x 21	7901086	2,000	49.5	79.2	1.1
8 x 24	7900679	2,500	62.8	101	1.4
9 x 27	7900680	3,150	79.5	127	1.8
10 x 30	7900925	4,000	98.2	157	2.2
10 x 30.2	7901061	4,000	98.2	157	2.2

Chains in accordance with ISO 16872 may only be installed/used in manually operated hoists. Operating temperature - 40° C to + 150° C.

RUD HAND CHAINS - FOR MANUAL HOIST

Galvanised hand chain, not certificated							
Dimensions	Designation	P/n [100 m length]					
5 x 18.5	galvanised hand chain	8502628					
5 x 23.5	galvanised hand chain	8502627					
5 x 23.8	galvanised hand chain	8502970					
5 x 24	galvanised hand chain	8502626					
5 x 25	galvanised hand chain	8502563					
5 x 25.2	galvanised hand chain	8502629					
5 x 26	galvanised hand chain	8502632					
6 x 18.7	galvanised hand chain	8501629					
5 x 18.5	open chain link	7101773					
5 x 24	open chain link	7101770					
5 x 25	open chain link	59381					

1.4404 stainless steel hand chain, not certificated					
Designation	P/n				
stainless steel hand chain	63656				
stainless steel hand chain	7103866				
Stainless steel hand chain	53943				
stainless steel hand chain	62473				
onon chain link	8500193				
	8500193				
	Designation stainless steel hand chain stainless steel hand chain Stainless steel hand chain				

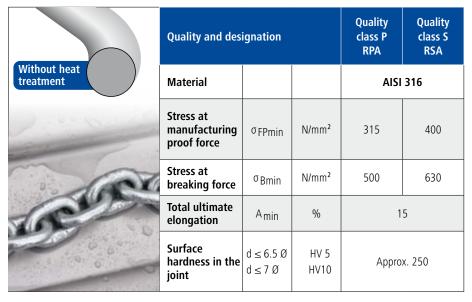


RUD ROUND LINK CHAIN RUST AND ACID RESISTANT QUALITY

SIMILAR TO DIN 5684 PARTS 1 AND 2, FOR MOTOR-DRIVEN AND MANUAL HOISTS



Quality classes RPA and RSA					
Mechanism group ISO 4301-1	stre	ninal ess: nm²]	Limit stress [N/mm²]		
(FEM 9.511)	RPA	RSA	RPA	RSA	
M1 (1Dm)	125	160	187,5	240	
M2 (1Cm)	100	125	138	175	
M3 (1Bm)	100	125	125	160	
M4 (1Am)	90	112	112	140	
M5 (2m)	80	100	100	125	
M6 (3m)	70	90	90	112	
M7 (4m)	60	80	80	100	
M8 (5m)	55	70	70	90	



			Load capacity F _{tr} [kg] according to mechanism group					Manu-	Brea-	
			Hand (1Dm)	M3 (1Bm)	M4 (1Am)	M5 (2m)	M6 (3m)	factu- ring	king force	Weight
Dimen- sions [mm]	Material No.	Qua- lity class		Nominal stress: $\leq \emptyset$ 7 = 125 N/mm ² $\geq \emptyset$ 8 = 100 N/mm ²		Nominal stress: $\leq \emptyset$ 7 = 100 N/mm ² $\geq \emptyset$ 8 = 80N/mm ²	Nominal stress: $\leq \emptyset$ 7 = 90 N/mm ² $\geq \emptyset$ 8 = 70 N/mm ²	proof force FFPmin [kN]	F _B min	[kg/m]
			Safety factor 4	Safety factor 5	Safety factor 5.7	Safety factor 6.4	Safety factor 7.1			
4 x 12	54079	S	400	320	280	250	230	10	16	0.35
5 x 15	54100	S	630	500	440	400	360	16	25	0.54
6 x 18	54333	S	900	720	630	570	510	22.4	36	0.78
6.3 x 19.1	53998	S	1,010	790	700	635	570	25	40	0.86
7 x 21	54130	S	1,250	1,000	860	780	700	32	50	1.1
8 x 24	58778	Р	1,250	1,000	920	820	710	32	50	1.4
9 x 27	58779	Р	1,600	1,250	1,160	1,000	900	40	63	1.8
10 x 28	58780	Р	2,000	1,600	1,440	1,250	1,120	50	80	2.2
10 x 30	52303	Р	2,000	1,600	1,440	1,250	1,120	50	80	2.2
11.3 x 31	7984841	Р	2,500	2,000	1,800	1,600	1,400	63	100	2.85
13 x 36	58784	Р	3,350	2,650	2,430	2,100	1,890	85	132	3.8
16 x 45	7988746	Р	5,000	4,000	3,680	3,270	2,860	125	200	5.7

Other dimensions on request.

The nominal stresses and the limit stresses may not exceed the stresses specified in the respective mechanism groups.

Attention: Because of the austenitic materials with low hardness, reduction of the nominal stress and good lubrication of the chain will produce a satisfactory service life.

For continuous operation, a nominal stress of $\sigma_{\rm tr}=80~{\rm N/mm^2}$ should not be exceeded for motor-driven hoists.



CORROSION PROTECTION COATINGS FOR RUD HOIST CHAINS

Surfaces	Short description of surface coating	New condition	
Natural dark blue oil polished	Thick oxide layer with corrosion protection oil	(010)	
Phosphated oil polished (POP)	Zinc phosphate with corrosion protection oil (5 μm)		
Electrolytic galvanised	Electrolytic metal deposition	(600)	
Corrud-DT coating	Inorganic zinc-plated coating with a combination of zinc and aluminium plates	(6,0)	
Topcoat SI	An organic high networked micro layer with prevailing ingredients of aluminum and epoxy resin		

STANDARD PACKING RUD HOIST CHAINS



Disponsable packaging RUD 1: 80 x 60 x 55 cm
 Disponsable packaging RUD 2: 80 x 60 x 75 cm
 Disponsable packaging RUD 3: 80 x 60 x 95 cm



Including VCI film for each packaging size.



RUD PORTAL FOR RUD HOIST CHAINS

THE RUD PORTAL IS OUR SECURE PLATFORM FOR OUR CUSTOMERS WITH ACCESS TO INFORMATION AND APPLICATIONS.

In our RUD portal, you will find everything you need for a safe and efficient use of hoist chains: from easy-to-understand operating instructions for the proper use of hoist chains to lubricant recommendations that optimize the lifespan of your chains. Discover our products in detailed product presentations and use our discard criteria to determine the wear level of your hoist chains. Our catalogs provide you with a comprehensive overview of our range of hoist chains and ensure that you are always up-to-date.

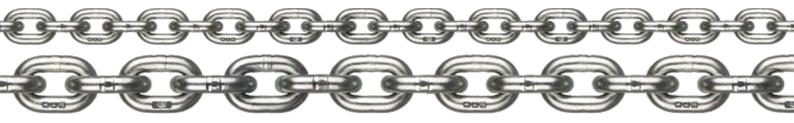


Easy registration:



www2.rud.com or by email to: hoistchains@rud.com More information about RUD hoist chains at:

www.hoistchains.rud.com

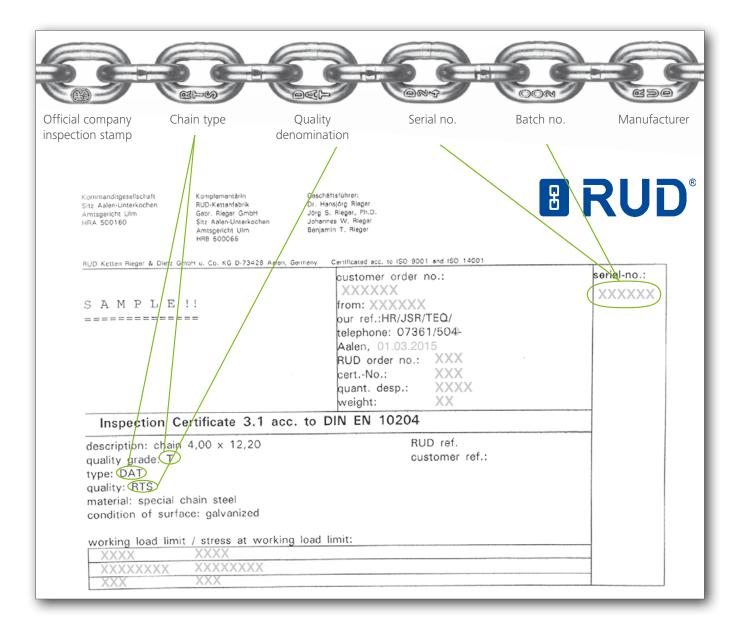




TEST CERTIFICATE FOR RUD HOIST CHAINS

UNIQUELY TRACEABLE FROM THE CUSTOMER TO THE STEEL MILL

Thanks to the RUD test certificate and the clearly identifiable stamping, RUD hoist chains guarantee 100% traceability. In addition to the chain type and quality, the production number (e.g., D24) and batch number (e.g., 002) are stamped on each chain. These numbers form the clearly identifiable manufacturing number printed on the test certificate. With these numbers we guarantee the clear allocation of the inspections and tests at RUD. Thus, we create a further security feature.



■ Grade designation + design

Grade designation according to standard DIN EN 818-7 or according to other standards for hoist chains.

Ouality

The RUD quality designation.

Production and batch number

RUD production and batch number for clear traceability of the chain.



WHEELS AND GUIDES

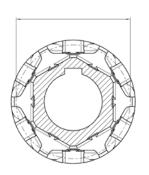
RUD wheels and guides are the optimum solution for every hoist. Classic pocket wheels and X-drive wheels from RUD have optimally matched pocket numbers and are individually adapted to each customer requirement. RUD chain guides complement the portfolio and ensure a fully comprehensive complete package for every hoist.

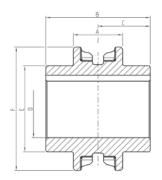
Proven RUD design and know-how in the construction and production of chains, wheels and guides make the difference.

We also design and produce wheels and guides for any hoist, regardless of the chain used.

INFORMATION REQUIRED FOR ORDERING RUD POCKET CHAIN WHEELS:

- Chain dimensions and number of pockets
- Hub length E + C
- Drill-Ø D with fit (if no details are given, fit H7 and bore chambers 1.5 x 45° are used)
- Groove for feather key DIN 6885 Bl. 1 P9 or IS9 or keyway with details about key insertion direction
- Possibly threaded hole for set screw with indication of position



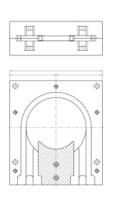


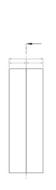
Chain d x t [mm]	Number of pockets	Pitch circle Ø	Crown width A	Max. boring B
5 x 15	5	48	25	20
7 x 21	6	81	35	40
9 x 27	6	104	45	50
13 x 36	6	139	65	70
16 x 45	6	174	80	90
23.5 x 66	5	212	88	95

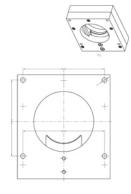
Further wheel types available on request. The design and selection of shaft/hub coupling must be handled by the plant manufacturer in relation to the forces in play. Recommendation: $E \approx 1.7 \times B$

INDIVIDUALLY ADJUSTABLE FOR EVERY WHEEL AND EVERY CUSTOMER REQUEST.

- Chain dimension required for determination
- Pocket wheel required for determination









RUD LIMIT GAUGE FOR HOIST CHAINS

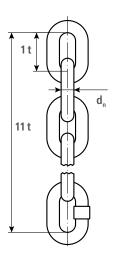
Manufacturer	Motor driven hoist	Manual driven hoist	Material No.
CM/Yale		×	7993866
CM/Yale	×		7996272
DEMAG (DK/DC+PK)	×		7101452
GIS	×		51622
HADEF		×	7995835
HADEF (AK+GEDI)	×		7900303
КІТО		×	7994684
LIFTKET	×		7992010
J.D. NEUHAUS	×		62540
R.STAHL/STAHL CRANESYSTEMS	×		7994103
TIGER (T+VH)		×	7907394
VERLINDE/KONE/SWF	×		7993092
ABUS	×		7909386

...SIMPLE SETUP FOR FAST RESULTS...



- Our RUD limit gauge consists of a sturdy aluminium strip with guide holes for the measuring pins as well as locking holes for the locking studs attached to the measuring pin.
- The size of the chain to be tested $-d_n \times t$ is engraved below the guide holes.

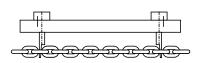
The two galvanised measuring pins provided with locking studs are located, together with the limit gauge, in a high quality softshell pocket.



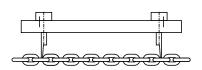
d_n = Nominal diameter = Inner pitch attachment 11 t = Length over 11 links

More information about the RUD limit gauge in our brochure or in RUD Portal.





Gauge to be introduced: chain is alright



Gauge cannot be introduced: chain has to be replaced wear > 2 % respectively 3 %



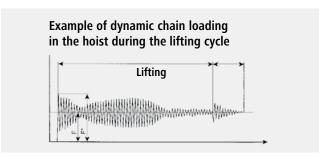
REQUIREMENTS ON RUD HOIST CHAINS

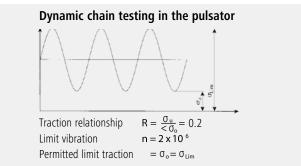
LOADS · HARDNESS · WEAR

DYNAMIC CHAIN LOADING

Requirements per DIN EN 818-7

RUD meets the challenge of dynamic chain loading with the most modern fabrication and testing methods.





WEAR TESTING

Parameter:

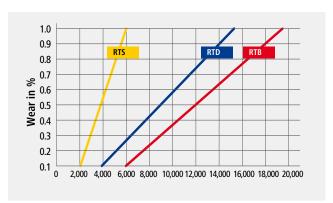
 $\begin{array}{ll} \text{Load traction} & \sigma_{tr} = 100 \text{ N/mm}^2 \\ \text{Pocket number} & Z = 5 \end{array}$

Speed v = 8m/min.

Dry, ungreased chain

1 chain

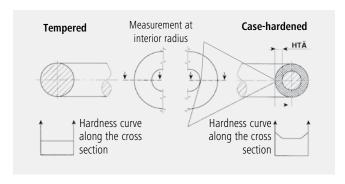
A well lubricated chain and properly designed chain drive make for several times higher load alternation. As a rule of thumb: up to 15 times greater. The RTB quality can yield load cycles of up to 300,000.



The quality classes relate to material, chain design and production process. Values given in case of test stand testing. Drive wheel, chain guide and scraper all designed and fabricated to to the state of the art.

Tip: For RT chains, the load change number < 1,000. Conditions such as abrasive dust reduce the load change number for all chains.

SURFACE HARDNESS AND HARDNESS CURVE

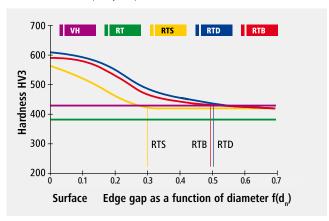


EXAMPLE HARDNESS CURVES

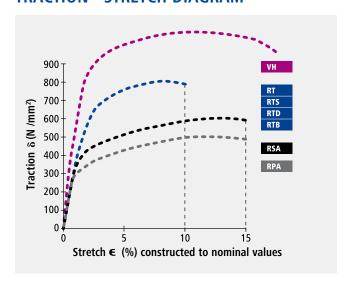
RTS quality = conventional heat treatment, low case-hardening depth

RTD quality = modified fabrication process

RTB quality = chain with especially high wear resistance. In addition, this quality is optimised for vibration resistance.



TRACTION - STRETCH DIAGRAM







THE FUCHS LUBRICANTS GERMANY GMBH LISTED BELOW HAVE PROVED THEIR VALUE FOR LUBRICATING HOIST CHAINS IN PRACTICE.



STABYLAN 2001 Partly synthetic lubricant with creep and outstanding lubricating qualities, as well as excellent corrosion proofing. Application range -15°C to + 150°C. Available as spray, open canisters or drums. Tried and tested **standard RUD lubricant for** general applications.

CEPLATTYN 300 Graphite paste with high-pressure and adhesion agents, creates an almost dry dust-repellent solid lubricant film, application from -30° C to $+250^{\circ}$ C. Available in open containers or as spray. **For use per mining hygiene regulations** (**GesBergV**) **above and below ground.**

STABYLAN 5006 Fully synthetic high temperature chain lubricant (chain honey) **for extreme temperatures up to 240°C.** Salt water-resistant, mineral oil resistant, penetrates and displaces water, outstanding adhesion. Available as a spray, in canisters and drums.

CASSIDA CHAIN OIL 1500 Fully synthetic high performance chain lubricant with very good adhesion and extreme resistance to being washed off. Temperature range -10° C to $+140^{\circ}$ C. Available in canisters, drums, or as a spray. Listed per NSF H1 and suited **to use in the vicinity of food.** Especially suited to meat processing applications, approved for KOSHER and HALAL processing.

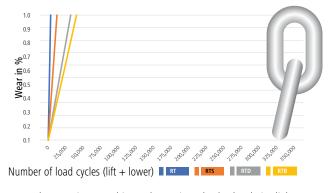
DECORDYN 350 High adhesion corrosion proofing film with good lubrication qualities, for temperatures –40°C to +70°C. Used in wind power installations, offshore and for general protection in aggressive environments.

YOUR CONSULTANCY PARTNER

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Friesenheimer Str. 19 Mail: zentrale-flg@fuchs.com
68169 Mannheim Web: www.fuchs.com

CHAIN LUBRICATION - AN IMPORTANT CONTRIBUTION TO REDUCING WEAR

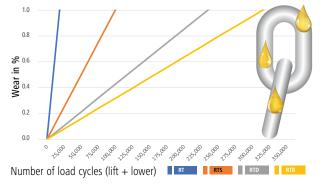
WITHOUT CHAIN LUBRICATION LOAD CYCLES WITH UNLUBRICATED CHAIN:



- When running over drive and reversing wheels, the chains links are angled under load.
- In order to minimise the resulting joint friction, hoist chains should be lubricated at regular intervals according to the conditions of use.

The indicated load cycles are achieved with an ungreased chain with load traction force of 100 N/mm 2 , pocket wheel Z = 5 and speed V = 8 m/min.

REGULAR CHAIN LUBRICATION LOAD CYCLES WITH LUBRICATED CHAIN:



- Through a regular lubrication a 15-20 times higher number of cycles can be obtained than with a dry, unlubricated chain.
- During lubrication, ensure that the lubricant penetrates into the chain links most susceptible to wear.

The indicated load cycles are achieved with an unlubricated chain with load traction force of 100 N/mm2, pocket wheel Z=5 and speed V=8 m/min.





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