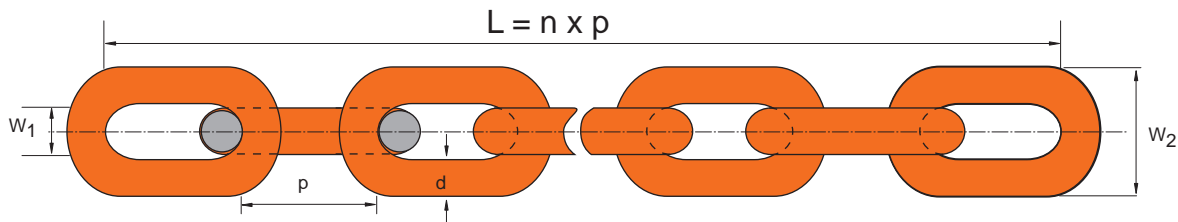


Chains, SYSTEM LH



Code	Ø Nominal d mm	Allowed tolerance mm	Pitch p mm	W ₂ max. mm	W ₁ min. mm	Mass kg/m [≐]	Standard chain end length		Proof force			Minimum breaking force		
							No. of links	Length mm	A	B	C / CS	A	B	C / CS
LH 14	14	+0.4 -0.2	50 ±0.5	47	16.5	4.0	215	10750	89	74	65	148	128	109
LH 16	16	+0.5 -0.2	64 ±0.6	55	20	5.1	167	10688	116	96	84	193	160	140
LH 19	19	+0.7 -0.2	75 ±0.7	63	22	7.7	143	10725	165	135	100	275	225	200
LH 22	22	+0.7 -0.2	86 ±0.9	75	26	9.5	107	9202	220	183	160	365	305	270
LH 26	26	+0.8 -0.2	100 ±1.0	87	31	13.3	83	8300	300	255	223	510	425	370
LH 30	30	+1.0 -0.2	120 ±1.2	101	36	17.5	47	5640	400	340	300	680	565	500
LH 34	34	+1.2 -0.4	136 ±1.2	113	39	23.8	35	4760	-	425	370	-	710	621
LH 38	38	+1.2 -0.4	144 ±1.2	127	44	30.0	35	5040	-	530	480	-	910	800

Tolerance -10%, depending on batches;

Quality	LH	A	B	C	CS
Surface hardness	HV30 min. ⁽¹⁾	760	820	820	830
Total carburizing depth	HTÄ x d min. ±0.01d ⁽¹⁾	0.08	0.11 ⁽³⁾	0.14 ⁽⁴⁾	0.15 ⁽⁷⁾
Effective case hardening depth	CHD 550 HV1 EN ISO 2639 x d min. ^(1,2)	0.05	0.07 ⁽⁵⁾	0.09 ⁽⁶⁾	0.10 ⁽⁸⁾
Breaking stress	N/mm ²	480	400	350	350
Proof stress	N/mm ²	290	240	210	210
Material	CrNi / NiCrMo alloy				
Breaking elongation: 2%					

(1) Measured in the interlink (point of contact of two links);
d= diameter. Tolerance on surface hardness ±4%.

(2) Corresponding to Eht 550 HV1
according to DIN 50190/1

HTÄ:

(3) d≥30 mm: 0.10×d

(4) d=30 mm: 0.13×d; d≥34 mm: 0.12×d

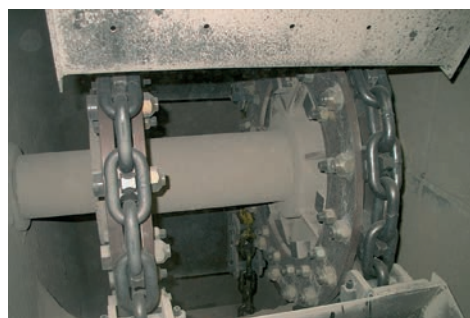
(7) d=30 mm: 0.14×d; d≥34 mm: 0.13×d

DC:

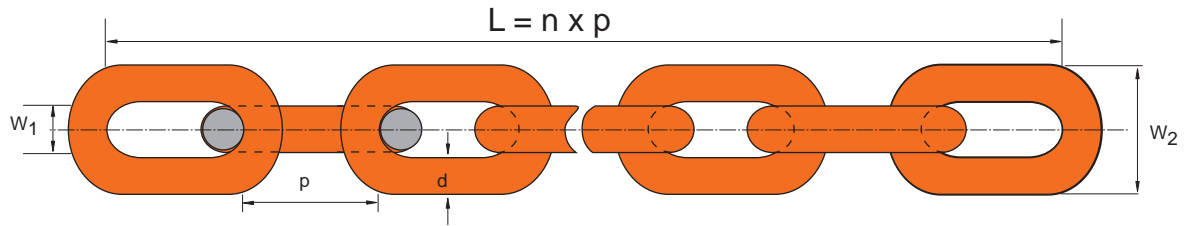
(5) d= 30 mm: 0.065×d; d= 34 mm: 0.06×d;
d= 38 mm: 0.055×d

(6) d= 30 mm: 0.08×d; d= 34 mm: 0.08×d;
d= 38 mm: 0.075×d

(8) d= 30 mm: 0.09×d; d= 34 mm: 0.085×d;
d= 38 mm: 0.08×d



Chains type LH and MH for submerged scraper conveyors (SSC)



Code	Ø nominal d mm	Allowed tolerances mm	Pitch p mm	W ₂ max. mm	W ₁ min. mm	Mass kg/m ≅	Standard strand length		Proof force kN		Minimum breaking force kN*	
							No. of links	Length mm	B	C / CS	B	C / CS
LH 22	22	+0.7 -0.2	86 ± 0.9	75	26	9.5	291	25026	183	160	305	270
MH 26	26	+0.8 -0.2	92 ± 1.0	87	31	13.6	273	25116	255	223	425	370
LH 26	26	+0.8 -0.2	100 ± 1.0	87	31	13.3	281	28100	255	223	425	370
MH 30	30	+1.0 -0.2	108 ± 1.2	101	36	18.0	191	20628	340	300	565	500
LH 30	30	+1.0 -0.2	120 ± 1.2	101	36	17.5	209	25080	340	300	565	500
MH 34	34	+1.2 -0.4	126 ± 1.2	113	39	23.8	197	24822	425	370	710	621
LH 34	34	+1.2 -0.4	136 ± 1.2	113	39	23.8	107	26792	425	370	710	621
LH 38	38	+1.2 -0.4	144 ± 1.2	127	44	30.0	143	20592	530	480	910	800

(*) Tolerance -10%, depending on batches.

Qualità / Quality / Qualität	LH / MH	B	C	CS
Surface hardness	HV30 min. ⁽¹⁾	820	820	830
Total carburizing depth	HTÄ xd min. ⁽¹⁾	0.11 ⁽³⁾	0.14 ⁽⁴⁾	0.15 ⁽⁷⁾
Effective case hardening depth	CHD 550 HV1 EN ISO 2639 xd min. ^(1,2)	0.07 ⁽⁵⁾	0.09 ⁽⁶⁾	0.10 ⁽⁸⁾
Breaking stress	N/mm ²	400	350	350
Proof stress	N/mm ²	240	210	210
Material	CrNi / NiCrMo alloy			
Breaking elongation: 2%				

(1) Measured at the interlink (point of contact of two links); d= diameter. Tolerance on the surface hardness: ±4%.

(2) Corresponding to Eht 550 HV1 according to DIN 50190/1

HTÄ:

(3) d≥30 mm: 0.10×d

(4) d=30 mm: 0.13×d; d≥34 mm: 0.12×d

(7) d=30 mm: 0.14×d; d≥34 mm: 0.13×d

DC:

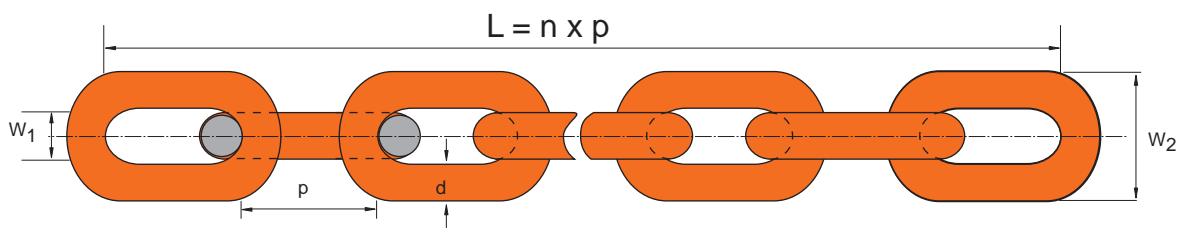
(5) d=30 mm: 0.065×d; d=34 mm: 0.06×d ;

(6) d=30 mm: 0.08×d; d=34 mm: 0.08×d ;

(8) d=30 mm: 0.09×d; d=34 mm: 0.085×d ;



Chain ends
DIN 764 / 766



CHAIN ENDS
DIN 764

Ø Nominal size (**)	Pitch p	Allowed tolerances	max. W ₂	min. W ₁	Inner length of 11 link chain ends L	Allowed tolerance on 11 links Zulä mm	Minimum breaking force kN*						Mass per m kg/m	Corresponding chain shackles DIN 5699 for wheels	
							2H	3H	S3	S4	3HS	3HX		smooth t	toothed t
10	35	+0.6 -0.3	36	14	385	+1.7 -0.9	48	61	61	63	55	48	2	35 45	35
13	45	+0.7 -0.4	47	18	495	+2.2 -1.1	75	96	98	106	89	75	3.5	45 56	45
16	56	+0.9 -0.5	58	22	616	+2.8 -1.4	115	140	148	160	130	115	5.2	56 63	56
18	63	+1.0 -0.5	65	24	693	+3.1 -1.6	140	180	188	204	165	140	6.5	63 70	63
20	70	+1.1 -0.6	72	27	770	+3.5 -1.8	180	225	232	251	205	180	8.2	70 80	70
23	80	+1.3 -0.7	83	31	880	+4 -2	225	280	307	332	250	225	11.0	80 91	80
26	91	+1.5 -0.8	94	35	1001	+4.5 -2.3	260	360	392	425	310	260	14.0	91 105	91
30	105	+1.7 -0.9	108	39	1155	+5.2 -2.7	350	450	523	565	400	350	19.0	105 126	105
36	126	+2.1 -1.1	130	47	1386	+6.3 -3.2	500	630	753	814	565	-	26.5	126 147	126
39	136	+2.2 -1.2	140	51	1496	+6.7 -3.4	560	750	884	956	-	-	31.0	147	-
42	147	+2.4 -1.3	151	55	1617	+7.3 -3.7	680	800	1025	-	-	-	36.0	147	147

(*) Tolerance -10%, depending on the batches; class S3/S4: tolerance -20%.

(**) Tolerance according to DIN 764;

CHAIN ENDS
DIN 766

Ø Nominal size (**)	Pitch p	Allowed tolerances	max. W ₂	min. W ₁	Inner length of 11 link chain ends L	Allowed tolerance on 11 links mm	Minimum breaking force kN*						Mass per m kg/m	Corresponding chain shackles DIN 5699 t
							2H	3H	S3	S4	3HS	3HX		
13	36	+0.6 -0.3	47	15.6	396	+1.7 -0.9	75	96	98	106	89	75	3.9	56
16	45	+0.8 -0.4	58	19.2	495	+2.2 -1.1	115	140	148	160	130	115	5.8	63
18	50	+0.8 -0.4	65	21.6	550	+2.5 -1.2	140	180	188	204	165	140	7.4	70
20	56	+1.0 -0.5	72	24	616	+2.8 -1.4	180	225	232	251	205	180	9.0	80
23	64	+1.1 -0.5	83	27.6	704	+3.2 -1.6	225	280	307	332	250	225	12.0	91
26	73	+1.2 -0.6	94	31.2	803	+3.6 -1.8	260	360	392	425	310	260	15.0	105
30	84	+1.4 -0.7	108	36	924	+4.2 -2.1	350	450	523	565	400	350	20.0	126
36	101	+1.7 -0.8	130	43.2	1111	+5 -2.5	500	630	884	814	-	-	29.0	147

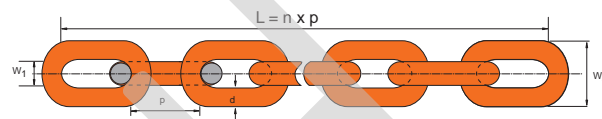
(*) Tolerance -10%, depending on the batches; class S3/S4: tolerance -20%.

(**) Tolerance according to DIN 764;

Chains and accessories for mills for waste recycling and biomass

Suitable for mills and recycling granulators of most types (especially operating on electric appliances, refrigerators, plastic and metal residues, biomass). Chain materials include NiCrMo / MnNiCrMo alloy steels, with different possible heat treatments and hardness levels, highly wear resistant. Chain accessories include fixing blocks, pins and connecting elements.

Code	Ø	Pitch p	Allowed tolerances	W ₂	W ₁	Mass per m
	nominal			max.	min.	
	d	mm	mm	mm	mm	
CR 22x66	22	66	+1.5 -0.8	81	28	10.9
CR 26x78	26	78	+1.5 -0.8	94	35	15.2
CR 32x96	32	96	+1.7 -0.9	118	40	23
CR 36x98	36	98	+2.1 -1.1	130	47	30
CR 36x101	36	101	+2.1 -1.1	130	47	29
CR 36x108	36	108	+2.1 -1.1	133	45	29
CR 40x120	40	120	+2.2 -1.2	140	55	36
CR 40x136	40	136	+2.2 -1.2	140	55	33



Quality	A	B	C
Hardness HRC min. ⁽¹⁾	42-44	46-48	52-54
Material	MnNiCrMo alloy	NiCrMo alloy	NiCrMo alloy

(1) measured from 0.5 mm below surface. Tolerance ± 2 HRC

(*) Tolerance according to DIN 764;

Technical department is available to assist customers in selecting the most suitable type of chain to achieve maximum chain working life depending on the type of products crushed and recycled in the machine.

Chain accessories

Chain accessories for attaching the chain to central hubs are available in different sizes (e.g. for chain 32x96 and 36x101 mm) and length; customized dimensions can be produced depending on quantities.



Chain with attaching blocks

Special connecting shackles

Suitable for connecting central hubs to chains and for connecting reusable chain strands. Special selection of materials and heat treatment, higher hardness (>40-45 HRC) than normal 'lifting class' shackles to achieve longer durability.

Code	Dimensions mm					Mass kg ≈
	B	C	d	E	F	
G6.5	72	38	22	25	53	1.4
G8.5	80	42	25	28	60	2.0

