

# Chain Hoists



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# Chain Hoists

## Runway Girders LBT

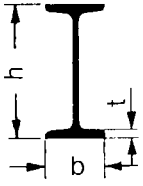

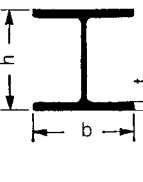
As runway girders we recommend:

Basis of calculation: DIN 4132 and DIN 15018 B2 H2 (vH =10m/min.)

including low flange bending (girder material St. 37)

Permanent deformation  $f = \leq 1/500$  of the span length.

Mounting holes in girders according to DIN 997

	Girder-profile	Capacity in t										Girder dimensions mm			Weight kg/m
		0,5	1,0	1,6	2,0	2,5	3,2	5,0	6,3	8,0	10,0	h	b	t	
Standard profile I DIN 1025 Page 1  	100	2,2										100	50	6,8	8,5
	120	3,1	1,4									120	58	7,7	11,5
	140	4,1	2,4	1,0								140	66	8,6	14,7
	160	5,1	3,7	1,8	1,0							160	74	9,5	18,5
	180	6,3	4,6	2,8	1,8	1,1						180	82	10,4	22,5
	200	7,5	5,6	4,0	2,8	1,8	1,0					200	90	11,3	27
	220	8,7	6,6	5,2	4,0	2,8	1,7					220	98	12,2	32
	240	9,9	7,6	6,2	5,4	3,9	2,7					240	106	13,1	37
	260	11,1	8,7	7,2	6,5	5,2	3,6	1,2				260	113	14,1	43
	280	12,3	9,8	8,0	7,4	6,7	4,8	2,0				280	119	15,2	49
	300	13,4	10,9	9,1	8,3	7,5	5,9	2,9	1,7			300	125	16,2	56
	320	14,5	12,0	10,1	9,3	8,4	7,3	3,9	2,4	1,2		320	131	17,3	63
	340	15,6	13,1	11,1	10,2	9,3	8,2	5,0	3,3	1,8		340	137	18,3	70
	360	16,6	14,2	12,2	11,3	10,3	9,2	6,3	4,3	2,7	1,4	360	143	19,5	78
	380		15,2	13,2	12,3	11,3	10,2	7,5	5,4	3,5	2,0	380	149	20,5	86
	400		16,3	14,3	13,3	12,2	11,1	8,8	6,6	4,5	2,8	400	155	21,6	95
	425			15,6	14,6	13,5	12,3	10,2	8,1	5,8	3,9	425	163	23,0	106
	450			16,8	15,8	14,7	13,5	11,3	9,7	7,2	5,0	450	170	24,3	118
	475					15,9	14,5	12,4	11,2	8,6	6,3	475	178	25,6	131
	500					17,1	15,9	13,5	12,2	10,2	7,6	500	185	27,0	145
550							15,7	14,4	13,1	10,6	550	200	30,0	171	
600								16,6	15,2	13,5	600	215	32,4	203	
European profile I PE DIN 1025 Page 5  	100	1,8									100	55	5,7	8,3	
	120	3,1	0,7								120	64	6,3	10,7	
	140	4,0	1,5								140	73	6,9	13,2	
	160	5,0	2,5								160	82	7,4	16,2	
	180	6,1	3,8	1,3							180	91	8,0	19,3	
	200	7,2	5,3	2,2	1,0						200	100	8,5	23	
	220	8,4	6,3	3,5	2,0						220	110	9,2	26,9	
	240	9,7	7,4	5,0	3,2	1,7					240	120	9,8	31,5	
	270	11,4	8,8	6,7	4,5	2,7					270	135	10,2	37	
	300	13,1	10,4	8,3	6,3	4,0	1,8				300	150	10,7	43,3	
	330	14,7	12,0	9,9	8,5	6,0	3,5				330	160	11,5	50,4	
	360	16,4	13,6	11,5	10,5	8,6	5,7	1,1			360	170	12,7	58,6	
	400		15,5	13,4	12,3	11,2	8,0	2,6			400	180	13,5	68	
450			15,6	14,4	13,3	10,9	4,8			450	190	14,6	80		
500				16,6	15,4	13,8	7,7	4,5	1,4	500	200	16,0	93		
550						16,0	10,6	7,0	3,5	550	210	17,2	109		
600							14,2	10,4	6,6	3,3	600	220	19,0	125	
Wide-flange-profile I PB DIN 1025 Page 2  	100	3,6	2,6	1,4							100	100	10,0	21	
	120	4,9	3,5	2,7	1,8	1,1					120	120	11,0	28	
	140	6,2	4,6	3,6	3,1	2,1	1,2				140	140	12,0	36	
	160	7,7	5,9	4,7	4,3	3,4	2,2				160	160	13,0	47	
	180	9,1	7,1	5,8	5,3	4,7	3,4	1,1			180	180	14,0	53	
	200	10,5	8,4	7,0	6,3	5,7	4,8	2,0			200	200	15,0	66	
	220	11,8	9,7	8,2	7,5	6,8	6,0	3,1	1,7		220	220	16,0	73	
	240	13,1	11,0	9,4	8,6	7,9	7,1	4,5	2,7	1,2	240	240	17,0	89	
	260	14,3	12,3	10,6	9,8	8,9	8,1	5,6	3,6	1,8	260	260	17,5	97	
	280	15,4	13,4	11,7	10,9	10,0	9,0	6,9	4,6	2,5	280	280	18,0	116	
	300	16,6	14,7	13,0	12,1	11,2	10,2	8,5	6,1	3,7	1,8	300	300	19,0	124
	320		15,7	14,0	13,1	12,2	11,1	9,3	7,7	5,2	3,1	320	300	20,5	138
	340		16,6	14,9	14,0	13,1	12,0	10,1	8,9	6,3	4,0	340	300	21,5	140
	360			15,8	14,9	14,0	12,7	10,8	9,8	7,4	5,0	360	300	22,5	153
	400				16,7	15,7	14,5	12,3	11,2	9,4	6,7	400	300	24,0	168
	450						16,6	14,2	13,0	11,8	9,0	450	300	26,0	186
	500							16,1	14,8	13,5	11,5	500	300	28,0	204
	550								16,5	15,0	13,3	550	300	29,0	211
	600									16,6	15,1	600	300	30,0	232
650										16,7	650	300	31,0	239	
700										18,2	700	300	32,0	259	

— Suspension distance in meters —

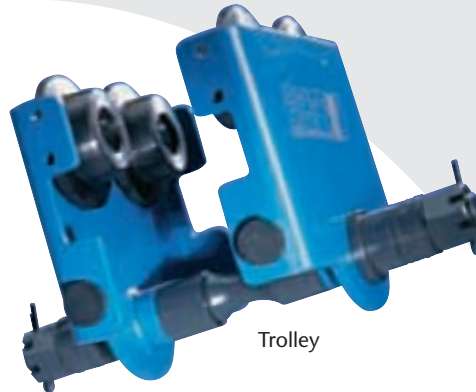


# Chain Hoists

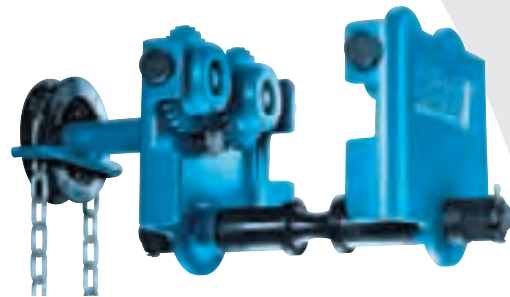
## CHD/CHDD PROLINE Girder Trolleys

### CHD/CHDD PROLINE Girder Trolley

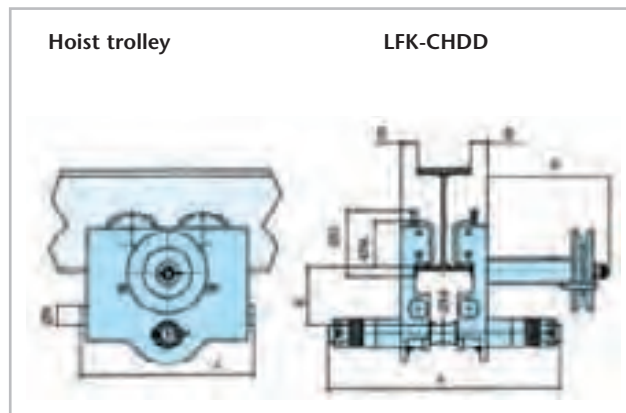
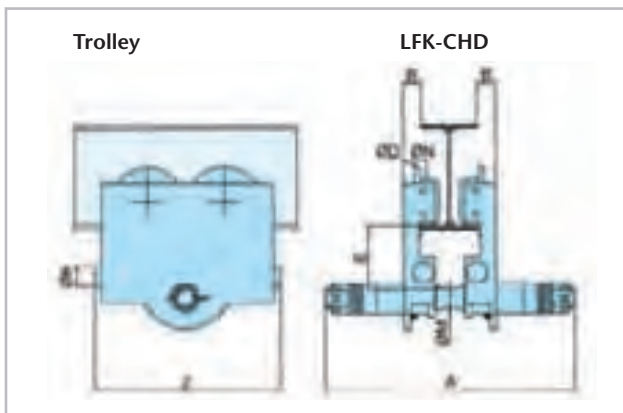
Adaptable but individual at the same time. The more difficult the task the more the rugged PROLINE girder trolley is in its "moving" element. The technical concept on which it is based is notable for countless special details: From conical rollers with ball-bearings for uniformly quiet running on all standard DIN steel beams, to the wide adjustment range of the CHD girder trolley with a trolley for use with loads of 250 kg to 10000 kg. Also available is the hoist trolley version, the CHDD hoist trolley, for lifting capacities of 1000 to 10000 kg. All this versatility is offered without any compromise on precision either. For example, precision discs permit the flange width to be perfectly adjusted to the individual requirements of every job. The standard chain supplied is for a track height of 3 m, with additional heights on request.



Trolley



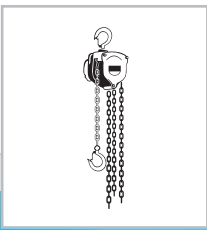
Hoist trolley



Trolley	Hoist trolley	Lifting capacity	Flange width	Curve radius	A	B	E	J	K	M	N	D	P	Weight of trolley	Weight of hoist trolley
Art. No.	Art. No.	kg	mm	m	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg
030870060	-	250	50-202	0,65	284	19	60	190	24	15	50	74	-	4	-
030870070	-	500	50-202	0,70	304	19	62	202	24	20	55	79	-	6	-
030870071	-		188-310		410	19	62	202	24	20	55	79	-	8	-
030870075	030870077	1000	65-202	0,95	336	26	82	241	28	24	60	92	146	10	14
030870076	030870078		200-310		436	26	82	241	28	24	60	92	146	12	16
030870080	030870082	2000	88-202	1,1	340	27	97	288	35	30	76	104	146	18	22
030870081	030870083		188-310		448	27	97	288	35	30	76	104	146	20	24
030870089	030870095	3000	100-202	1,3	362	32	140	358	45	28	96	131	38	38	42
030870090	030870096		188-310		470	32	140	358	45	28	96	131	38	40	44
030870085	030870087	5000	114-202	1,4	384	48	161	375	45	35	108	144	38	58	63
030870086	030870088		188-310		490	48	161	375	45	35	108	144	38	61	65
030870091	030870097	7500	124-202	1,9	408	49	209	454	46	50	132	176	80	100	104
030870092	030870098		188-310		514	49	209	454	46	50	132	176	80	103	107
030870093	030870099	10000	124-202	2,0	408	49	209	454	46	50	132	176	80	116	120
030870094	030870100		188-310		514	49	209	454	46	50	132	176	80	119	123

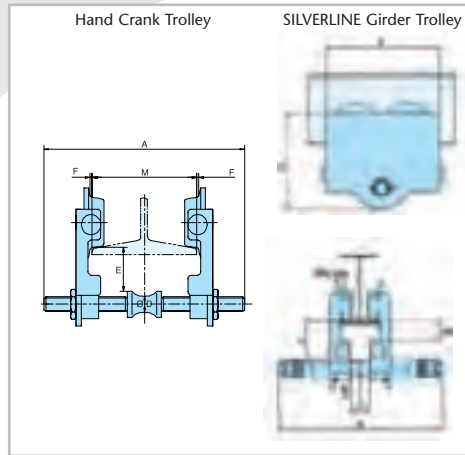
Other lifting capacities available on request

IMPORTANT: Please specify precise girder profile when ordering. See page 70



# Chain Hoists

## Girder Trolleys/Beam clamps



### SILVERLINE Girder Trolley and Hand Crank Trolley

The standard SILVERLINE girder trolley is available with a trolley for lifting capacities of 500 kg, 1000 kg and 2000 kg. The hand crank trolley, with its side-mounted crank, can be continuously and quickly adjusted to various beam widths. And two counternuts on the side plates ensure a reliable hold.

#### Girder trolley SILVERLINE

Art. No.	Lifting capacity kg	Flange width mm	A mm	B mm	C mm	D mm	DØ mm	H mm	NØ mm	N1Ø mm	S mm	Curve radius approx. m	Weight kg
040009115	500	50-180	268	223	158,5	36	18	57,5	55	79	35	0,8	6
040009116		176-305	394			22	6,5						
040009117	1000	66-188	290	270	190	38	22	67	68	95,5	38	1,0	11,5
040009118		184-305	408			26	13						
040009119		88-200	318	300	217	52	28						18
040009120	2000	194-305	424				32	75	80	108,5	38	1,1	20

IMPORTANT: Please specify precise girder profile when ordering. See page 70

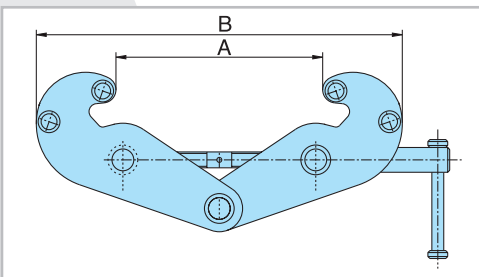
#### Hand Crank Trolley

Art. No.	Lifting capacity kg	Flange width mm	A mm	B mm	C mm	D Ø mm	E mm	F mm	Curve radius min. m	Weight kg
040013914	500	50-180	234	223	159	18	52	1,5-3	0,8	6
040013915	1000	66-188	256	270	190	22	60		1,0	11,5
040013916	2000	88-200	260	300	218	26	67		1,1	18



### PSK Beam Clamp with spindle

The beam clamp is used to fasten lifting tackle (e.g. chain hoists) to the beams. The clamping range is adjusted using a spindle.



Art. No.			033295050	033295051	033295052
Lifting capacity		kg	1000	2000	3000
For flange width		mm	75-210	75-210	80-320
Max. opening width	A	mm	210	210	350
Max. total width max.	B	mm	310	310	500
Weight		kg	3,5	4,5	11,1

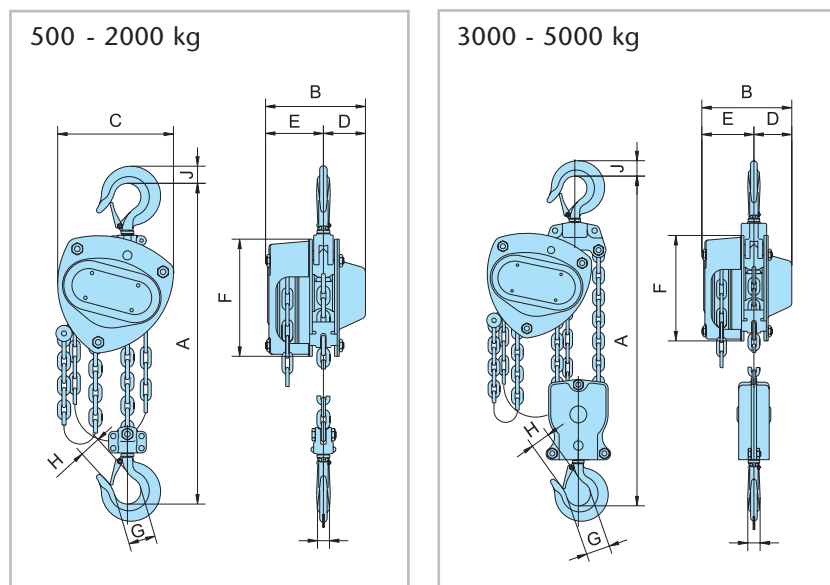


# Chain Hoists

## PROLINE Hand Chain Blocks

### PROLINE Stira P 90 Hand Chain Block

Master the toughest of installation jobs with ease with the PROLINE P 90. With a low unladen weight this hand-operated hoist relieves you of the task of lifting heavy loads vertically – all you have to do is pull the hand chain. An automatic mechanical brake securely holds the load in every position. Thanks to the enclosed pressed steel body your chain block will offer you particularly long service. The chain block is supplied with a standard suspension height of 3 m. If you require a higher suspension height, please do not hesitate to ask us.



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Art. No.		040012405	040012406	040012407	040012408	040012409	040012410
Lifting capacity	kg	500	1000	1500	2000	3000	5000
Lift for 30 m hand chain travel	mm	1058	750	488	375	250	115
Tensile strength on hand-chain under max. load	daN	25	29	31	35	38	38
No. of falls	EA	1	1	1	1	2	2
Weight	kg	11	15	20	25	30	50
A	mm	350	383	442	485	580	640
B	mm	138	154	175	170	178	183
C	mm	146	161	182	202	180	352
D	mm	88	86	90	85	95	90
E	mm	61	64	85	85	83	93
F	mm	150	175	175	205	185	233
G	mm	35	40	45	50	55	65
H	mm	21	27	33	34	38	42
I	mm	17	21	24	26,5	29	37
J	mm	21	28,5	30	34	40	49

Higher lifting capacities available on request



# Chain Hoists

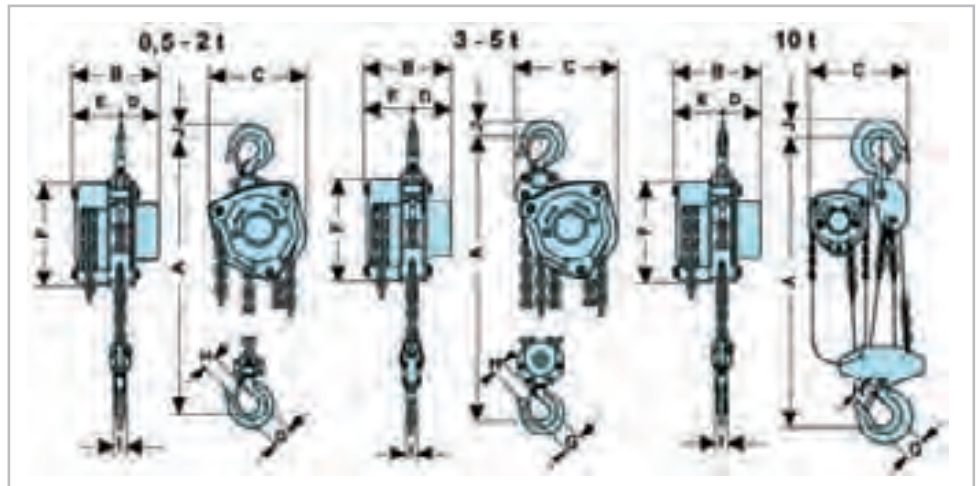
## SILVERLINE Hand Chain Blocks



### SILVERLINE Stira S Hand Chain Block

This durable "colleague" makes your purchasing decision easy: Using our SILVERLINE hand chain block the lifting and lowering of loads is achieved by pulling the hand chain – whilst the load pressure holds the load securely. As standard our SILVERLINE lifts loads from 500 kg up to 10000 kg and offers the option of larger lifting heights (standard 3 m) and the mounting of a chain container.

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Art. No.		030867050	030867052	030867054	030867056	030867058	030867060	030867062
Lifting capacity	kg	500	1000	1500	2000	3000	5000	10000
Tensile strength on hand-chain under max. load	kg	23	31	32	36	34	41	41
No. of falls	St	1	1	1	1	2	2	4
Weight	kg	10	12	19	20	27	46	83
A	mm	270	317	399	414	465	636	798
B	mm	131	140	161	161	161	186	207
C	mm	127	158	174	187	199	253	398
D	mm	57	63	79	77	79	91	91
E	mm	74	77	82	84	82	93	116
F	mm	140	169,5	183	203	213	246	280
G	mm	36	40	45	50	58	64	85
H	mm	30	34	38	41	48	52	64
I	mm	12,5	16	20	22,5	27	35	40
J	mm	18	23	28	28	35	46	60,4

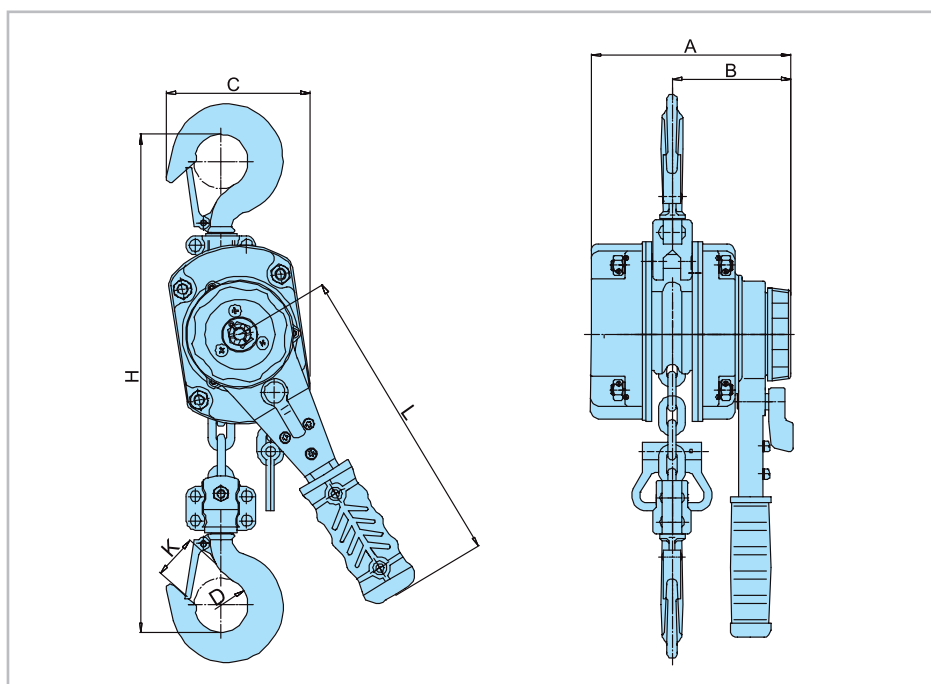


# Chain Hoists

## PROLINE Ratchet Lever Hoists

### PROLINE HZ PRO Ratchet Lever Hoist

Just a single solution to deal with every job. The PROLINE ratchet lever hoist is the all-purpose device from Pfaff-silberblau for the convenient lifting, pulling and lashing of loads. With a rugged housing of spheroidal graphite grey iron (GGG 50), a short lever arm, galvanized chain, asbestos-free brake discs, an enclosed gear unit with friction bearings – the list of positive features is almost as long as the service life of this high-quality hoist. Which also makes the PROLINE suitable for tough assembly jobs too.



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Art. No.		040012401	040012402	040012403	040012404
Tension load	kg	750	1500	3000	6000
No. of falls	EA	1	1	1	2
Lift *	m	1,5	1,5	1,5	1,5
Lift per turn	mm	20	21	16	8
Lever pressure at maximum load	daN	20	25	32	34
Unladen weight with 1,5 m chain approx.	kg	8,5	14	22,5	30
A	mm	158	184	204	204
B	mm	98	109	116	116
C	mm	136	160	200	235
DØ	mm	40	45	58	64
H	mm	325	380	480	620
L	mm	285	370	420	420
K	mm	34	38	48	52

\* Higher lifting heights available on request



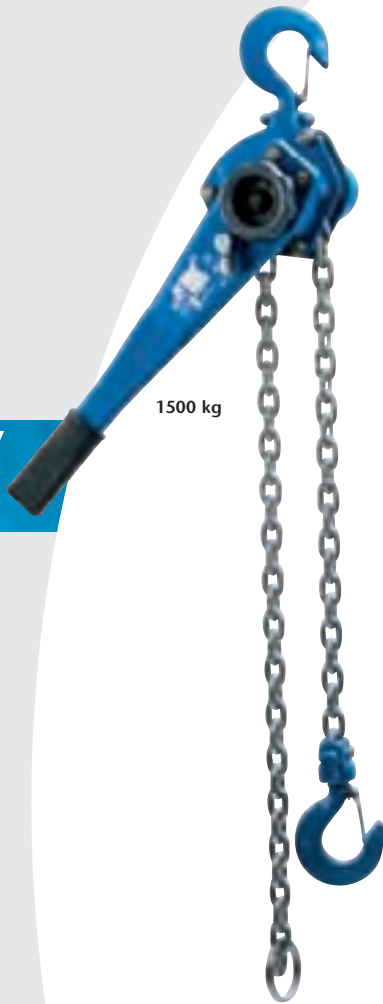
# Chain Hoists

## SILVERLINE Ratchet Lever Hoists

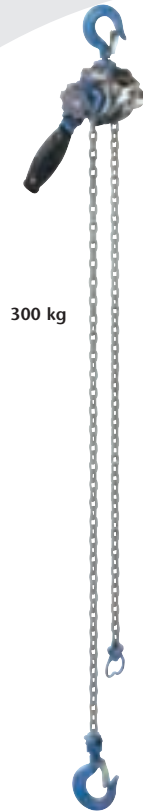
### SILVERLINE HZ S Ratchet Lever Hoist

Now industry, commerce and the craft are set in motion: The all-purpose SILVERLINE for lifting, pulling and lashing of loads is now available! Tension loads from 300 up to 6000 kg, housing made of steel plate, short lever motion, a galvanized chain, asbestos-free brake discs, low unloaded weight and a gear with friction bearings meets all requirements of our customers. With its compact design dimensions, chain guide and excellent braking properties, it is unbeatable.

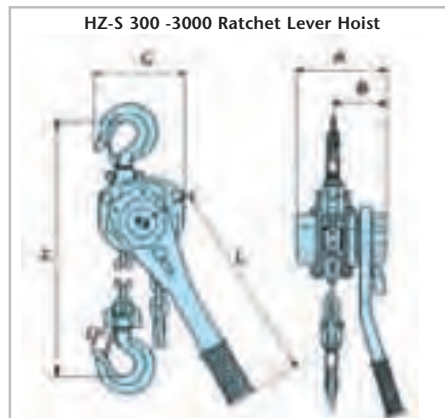
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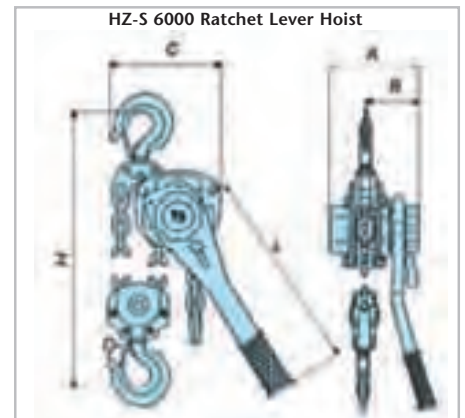
1500 kg



300 kg



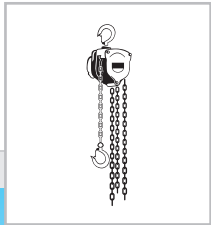
HZ-S 300 -3000 Ratchet Lever Hoist



HZ-S 6000 Ratchet Lever Hoist

Art. No.		040012400	030834052	030834053	030834054	030834055
Tension load	kg	300	750	1500	3000	6000
No. of falls	St	1	1	1	1	2
Lift*	m	1,0	1,5	1,5	1,5	1,5
Lift per turn	mm	32	19,7	21,3	16,8	8,4
Lever pressure at maximum load	daN	15	14	24	32	34
Weight	kg	2	7,2	11,5	21	31
A	mm	116	155	180	215	215
B	mm	80	95	105	130	130
C	mm	75	135	155	200	200
D	mm	19	30	36	40	50
H	mm	215	320	380	480	600
L	mm	155	285	370	420	420

\* higher lifting heights available on request



# Chain Hoists

## SILVERLINE Electric Chain Hoists



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# Chain Hoists

## SILVERLINE Ratchet Lever Hoists



PCH 500/2 N  
1 t/double-fall

### SILVERLINE PCH Electric Chain Hoists

KLICK – Lifting and more with just the press of a button. The new "PCH" generation of the electric chain hoist in the service-proven SILVERLINE series offers advances in wholly new dimensions:

- Small, compact and totally dynamic
- Diecast aluminium housing with cooling ribs
- State-of-the-art brake system for maximum safety
- New friction clutch arrangement (functionally built-in in front of the brake system and integrated in the rotor shaft) for easier and more accurate adjustment – also maintenance-free
- Gear mechanism limit switch as standard for exact positioning of the desired lifting height

The standard version of the electric chain hoist comes with:

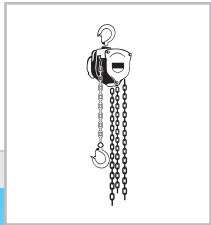
- suspension hook
- 400 V, 50 Hz operating voltage, motor with IP 55 type protection
- 42 V contactor control with EMERGENCY STOP
- 3 m lift, 1.8 m control cable with EMERGENCY STOP
- chain box

There is a wide range of options available such as higher lifting heights, abnormal operating voltages, higher protection type or thermal protection as well as rust-proof designs. An individual solution for every application.

Useful extras, such as push or electric trolley with 1 or 2 speed(s), complete the wide range of options for this electric chain hoist.

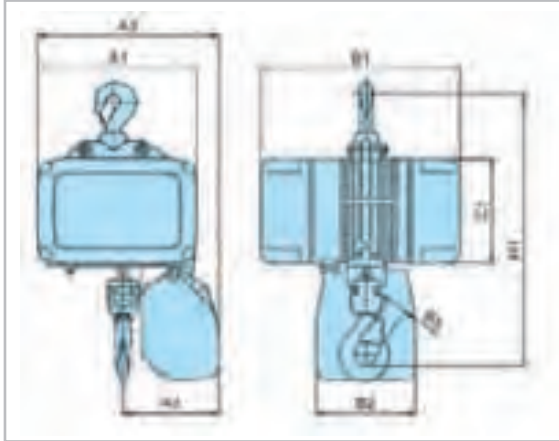
Lifting capacity kg	FEM group	Type	Lifting speed m/min	No. of falls	Lifting motor kW	Weight incl. hook/ 3 m lifting height kg
125	3 m	PCH 250 / 1 N	8	1	0,36	19
		PCH 250 / 1 NF	8 / 2	1	0,36 / 0,09	22
250	1 Bm	PCH 250 / 1 N	8	1	0,36	19
		PCH 250 / 1 NF	8/2	1	0,36 / 0,09	22
500	1 Bm	PCH 250 / 2 N	4	2	0,36	22
		PCH 250 / 2 NF	4 / 1	2	0,36 / 0,09	23
		PCH 500 / 1 N	8	1	0,72	20
		PCH 500 / 1 NF	8/2	1	0,72 / 0,18	22
1000	1 Bm	PCH 500 / 2 N	4	2	0,72	23
		PCH 500 / 2 NF	4 / 1	2	0,72 / 0,18	25
		PCH 1000 / 1 N	8	1	1,45	45
		PCH 1000 / 1 NF	8 / 2	1	1,45 / 0,36	46
2000	1 Bm	PCH 1000 / 2 N	4	2	1,45	50
		PCH 1000 / 2 NF	4 / 1	2	1,45 / 0,36	51
3200	1 Bm	PCH 1600 / 2 N	4	2	2,44	73
		PCH 1600 / 2 NF	4 / 1	2	2,44 / 0,61	75
4000	1 Bm	PCH 2000 / 2 N	4	2	3,05	76
		PCH 2000 / 2 NF	4 / 1	2	3,05 / 0,77	78
5000	1 Bm	PCH 2500 / 2 N	3,2	2	3,05	76
		PCH 2500 / 2 NF	3,2 / 0,8	2	3,05 / 0,77	78

Note: Power cables are available on request



# Chain Hoists

## SILVERLINE Electric Chain Hoists



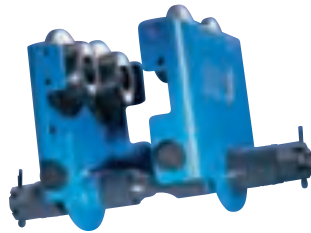
Dimensions for standard design with suspension hook

Typ	A1 mm	A2 mm	A3 mm	B1 mm	B2 mm	B3 mm	C 1 mm	H1 mm
PCH 250/1 N - NF	246	281	146	309	155	22	164	431
PCH 250/2 N - NF	246	281	164	309	155	22	164	470
PCH 500/1 N - NF	246	281	146	309	155	22	164	440
PCH 500/2 N - NF	246	281	169	309	155	22	164	480
PCH 1000/1 N - NF	321	367	190	367	180	32	214	553
PCH 1000/2 N - NF	321	367	224	367	180	32	214	627
PCH 1600/2 N - NF	345	424	263	389	180	37	230	728
PCH 2000/2 N - NF	345	424	263	389	180	37	230	728
PCH 2500/2 N - NF	345	424	263	389	180	37	230	728

### Standard designs



Suspension hook



Push travel Trolley



Electric travel trolley with brake

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### Special designs are available for e.g.



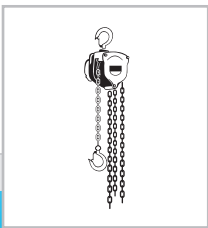
Synchronized electric chain hoist



Low head room version



Remote control  
on request



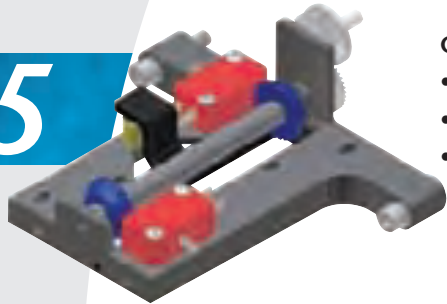
# Chain Hoists

## SILVERLINE Electric Chain Hoists



### Brake

- Maximum safety (construction: brake after slipping clutch)
- New advanced brake design
- Unique availability
- Maintenance free



### Geared limit switch (standard)

- Simple adjustment
- Exact positioning
- Accuracy for repetition assured



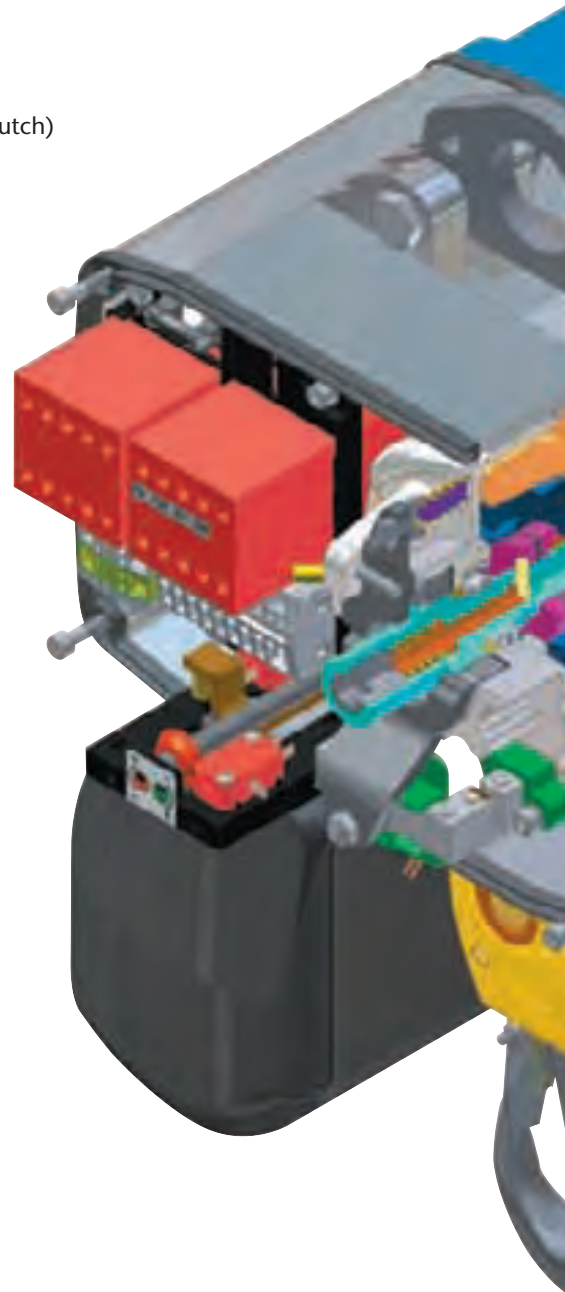
### Chain wheel

- Made of hardened steel
- With additional chain pockets (4mm): hence quiet running and improved running properties
- With double bearing construction



### Transmission

- Helical-toothed first and second gear step for quiet running
- Permanent lubrication for wear resistant operation



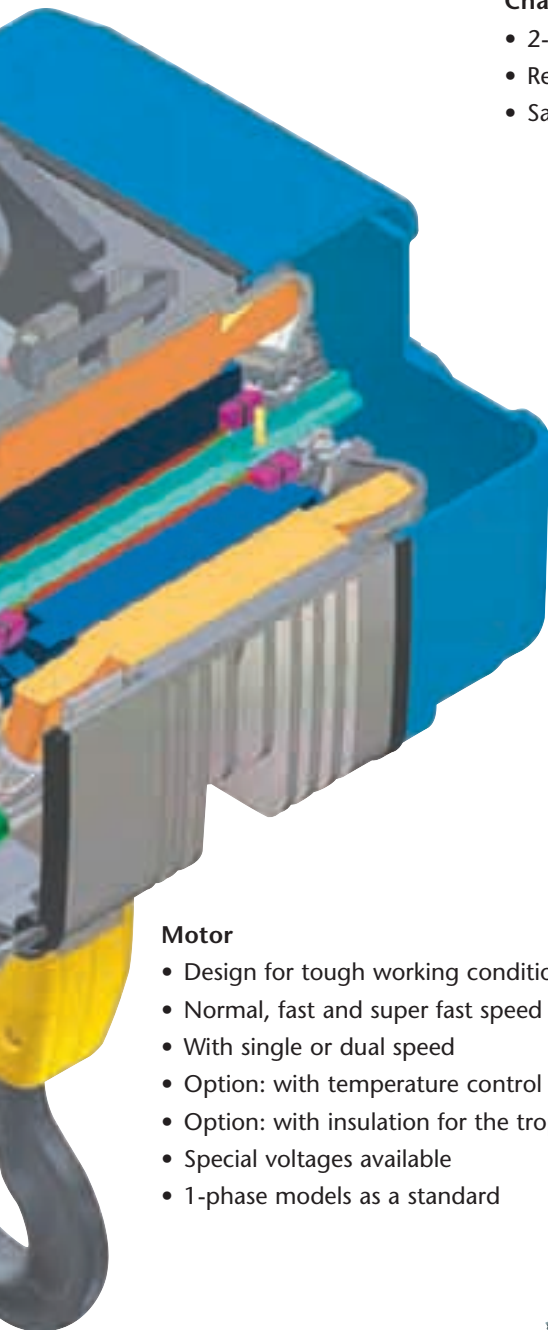
### Contacter control system

- Simple technology (no electronics susceptible to interference)
- Reliable technique
- Emergency stop as a standard
- 42V control system allowing highest safety of operation

# Chain Hoists

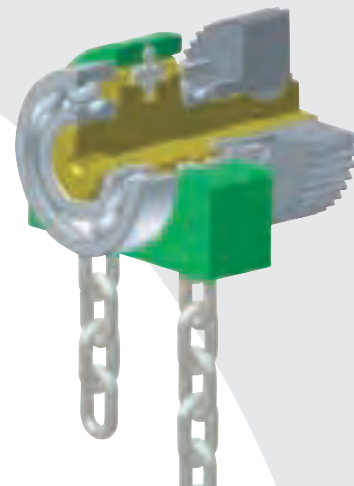


## SILVERLINE Electric Chain Hoists



### Chain guidance

- 2-part construction to optimize maintenance
- Reinforced plastic material highly wear resistant
- Safe operation: jamming excluded



### Slipping clutch

- Simple and precise adjustment
- Maintenance free and highly resistant to wear
- Ease of servicing thanks to comfortable access



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### Motor

- Design for tough working conditions
- Normal, fast and super fast speed models available
- With single or dual speed
- Option: with temperature control system
- Option: with insulation for the tropics
- Special voltages available
- 1-phase models as a standard

### Control switch

- With built-in support wire as a standard
- 2-buttons: design especially ergonomic
- Emergency stop as a standard
- Protection: IP65 to DIN 40050



### Hoisting chain

- Calibrated especially for GIS
- Zinc plated
- Surface-hardened
- Quality class DAT (8SS) to FEM 9.671



Single-fall

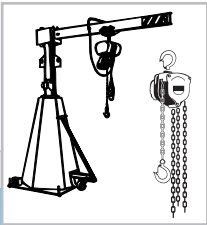


Double-fall

### Housing

- Cast aluminium housing with maximum solidity (no plastic material)
- For extreme working conditions: casted cooling gills
- Easy transformation from 1-fall to 2-falls operation: no need of dismantling





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- *Tension strap*
- *Lashing strap*
- *Round sling*
- *Crane weigher*
- *Grabs, claws and tongs*

*Versatile accessories  
available on request*