

# HADEF

**HADEF**®



Hebezeuge  
**HOISTS**

Winden  
**WINCHES**

Krane  
**CRANES**



**Your direct link:**

**prices:** [www.hadef.com/prices](http://www.hadef.com/prices)

**data sheets**

**drawings, etc.:** [www.hadef.com/data](http://www.hadef.com/data)

## Program



### **Electric and Pneumatic Chain Hoists and Winches**

- Hoists of standard, low or ultralow headroom configuration
- zinc plated hand and load chains
- various accessories
- explosion-proof Chain Hoists and Winches
- Pneumatic Chain Hoists and Winches for offshore use



### **Manual Chain Hoists and Winches**

- reliable quality
- custom-built Hoists and Winches
- explosion-proof Spur Gear Hoists and Trolleys
- zinc plated hand and load chains
- hoists fitted with overload protection by slipping-clutch



### **HADEF professional line**

- favourable balance of price and performance
- short delivery times
- low maintenance work
- reliability and safety in use



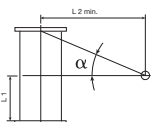
### **Cranes and Crane components**

- complete Cranes and Adapter Cranes without main beam



### **Accessories**

- large variety of accessories
- reliable quality



### **Important technical information about hoists, winches and cranes**

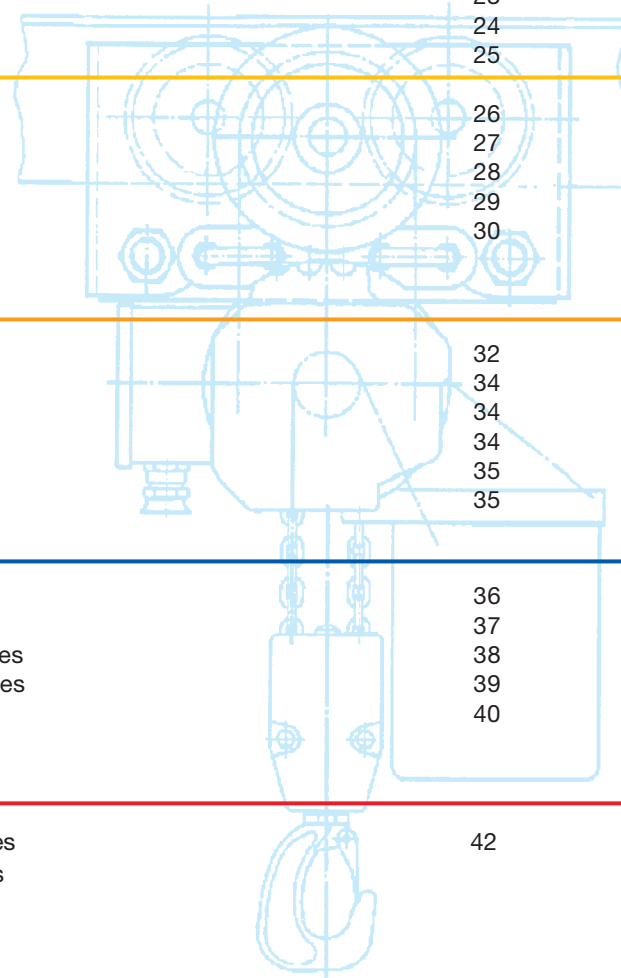
This brochure shows an extract from our current product range.

For more information, please visit our website:

[www.hadef.com](http://www.hadef.com)

## Content

	Page
Photos of HADEF Hoists in use	4
Electric Chain Hoists	10
Electric Chain Hoists / low and ultralow headroom configuration	14
Pneumatic Chain Hoists / low and ultralow headroom configuration	18
Electric Winches	20
Pneumatic Winches	23
Ex-version Hoists and Winches	24
Hoists and Winches for offshore use	25
Spur Gear Hoists	26
Monorail Trolleys	27
Spur Gear Hoists / low and ultralow headroom configuration	28
Ratchet Lever Hoists	29
Manual Winches	30
Electric Chain Hoist	32
Monorail Trolleys	34
Beam Clamp	34
Wirerope Pull Hoist	34
Spur Gear Hoist	35
Lever Hoists	35
Articulated Single Girder Underslung Crane	36
Jib Cranes and wall-mounted Jib Cranes	37
Single Girder Manual Underslung and Overhead Travelling Cranes	38
Single Girder Electric Underslung and Overhead Travelling Cranes	39
Adapter Cranes / End Carriages / Gantry Cranes	40
Wirerope Clamps / Eye Hooks / Heart Shaped Thimbles	42
Wirerope Pulleys / Pedestals / Trolley Wheels / Hand Chain Wheels	
Trolley End Stops	
Low Voltage Control / Pendant Control	
FEM (drive mechanism) groups	43
Important mechanical engineering formula	44
Simplified check of the chain / Simplified wirerope determination	45
Power / Torque / Gear transmission / Braking moment	46
Suspension, Lifting and Track Height/ Frequency converter/ Dimensioning of beam/ Positioning switch	47
Phase monitoring relay/ Testing of cranes/ Low voltage control	48
Wirerope exit/ Insulation classes	49
ATEX / EX	50



# HADEF Hoists in use

**Single Girder Electric Underslung Crane  
Type EDEE**  
with Electric Chain Hoist Type 66/04 AKE  
capacity: 20 t



incl. HADEF steel construction

**special paint suitable for  
pharmaceutical industry**



**Electric Chain Hoist  
Type 29/06 EE**  
ultralow headroom  
configuration with  
electric trolley  
capacity: 1 t

**Electric Chain Hoist  
Type 62/05 R**  
with push travel trolley  
capacity: 125 kg

# Offshore



**rack and pinion drive**



**Single Girder Manual Underslung Crane  
Type EDHH**  
with Spur Gear Hoist Type 29/98 HH  
rack and pinion drive  
capacity: 3 t

**ultralow headroom configuration  
for use in confined space i.e. for  
ships' engine room installation**



**special surface treatment and  
offshore-paint to withstand  
rough conditions of use**



**Electric Wire Rope Winch  
Type 42/87 E**  
capacity: 2 t  
used for service work on the  
platform's anchorage chains

**Electric Chain Hoist  
Type 29/06 EH**  
ultralow headroom  
configuration with  
hand geared trolley  
capacity: 2 t

# Ultralow headroom

for curved beam



**Electric Chain Hoist Type 29/06 EE**  
ultralow headroom configuration  
with swivelling electric trolley  
capacity: 5 t



## Traffic Tunnelling



**Jib Crane**  
with Electric Chain Hoist  
ultralow headroom  
configuration and beam  
locking device



**Adapter Crane**  
with Electric Chain Hoist ultralow headroom configuration  
Type 29/06 EE, capacity: 1 t  
only 2,95 m height available



**Wall-mounted Jib Crane Type 320/01 E**  
with Electric Chain Hoist Type 28/06 ER  
with push travel trolley  
capacity: 400 kg

in rescue container



**Electric Chain Hoist**  
with electric trolley  
Type 66/04 AKE  
capacity: 5 t  
installed in a sewage plant in Tunisia



More than 30 HADEF Electric Chain Hoists  
Type 66/04 AKE  
with positioning switch are used to fill  
building material into industrial mixers.





# 66/04 AK

**Electric Chain Hoists**  
Type 66/04 AKE - 25 t  
Type 66/04 AKE - 40 t  
used for static rotor  
blade tests



Custom-built HADEF  
hoisting device to move  
a platform used in  
building construction



## Type 66/04 AK Technical Details

robust brake motor with ventilation up to 100 % ED (duty cycle)

chain guide of hardened steel minimizes wear

milled, 5-pocket chain sprocket wheel made of hardened steel and long-lifetime chain resistant to wear

Smooth running and increased product lifetime by precision gear with finely grinded helical geared pinions and toothed wheels

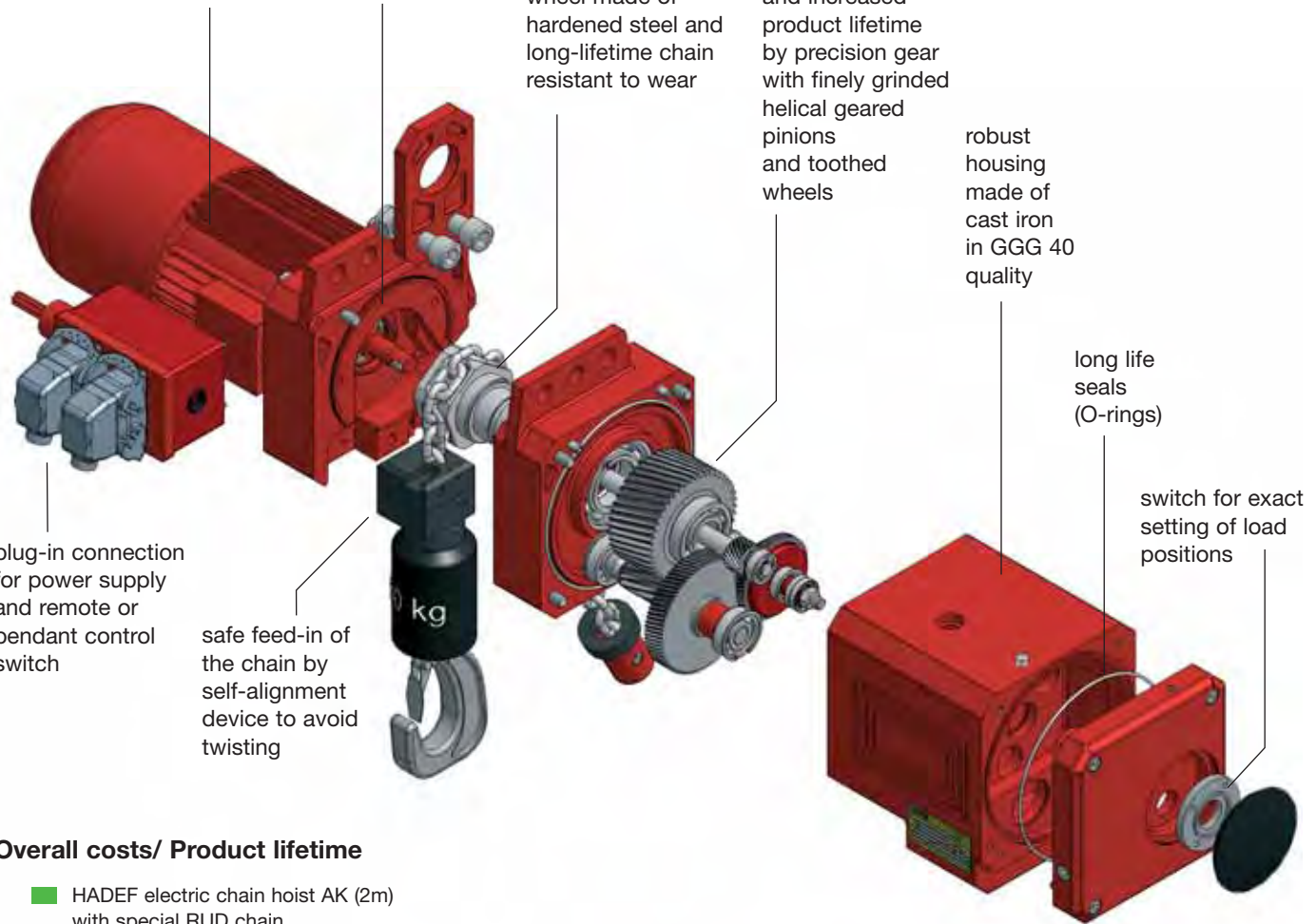
robust housing made of cast iron in GGG 40 quality

long life seals (O-rings)

switch for exact setting of load positions

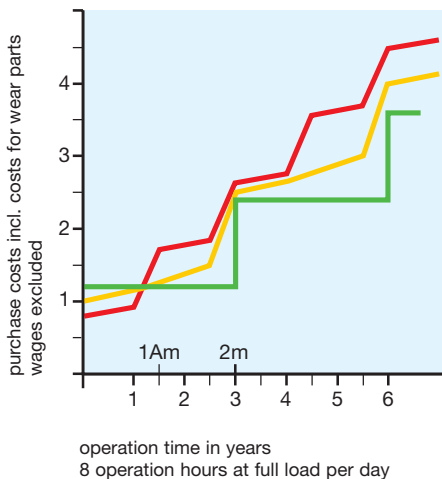
plug-in connection for power supply and remote or pendant control switch

safe feed-in of the chain by self-alignment device to avoid twisting



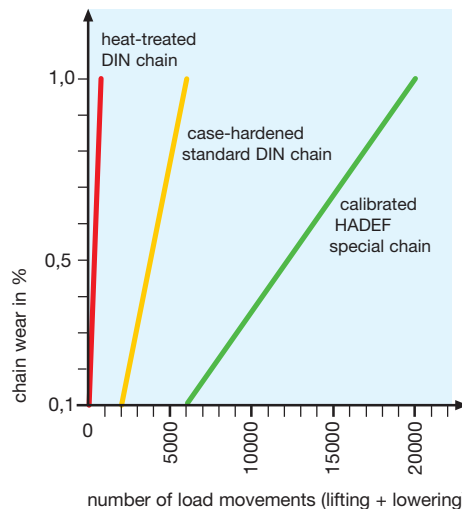
## Overall costs/ Product lifetime

- HADEF electric chain hoist AK (2m) with special RUD chain
- electric chain hoist (2m) with standard chain
- electric chain hoist (1Am) with standard chain

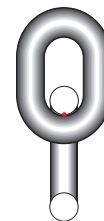


## Comparison of chains

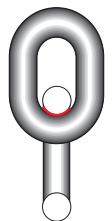
EN 818-7 T



## Force on the chain



standard chain punctual load



calibrated HADEF special chain in line load

66/04 AK

The premium solution  
for heavy duty installations!

**HADEF** 

# Electric Chain Hoists

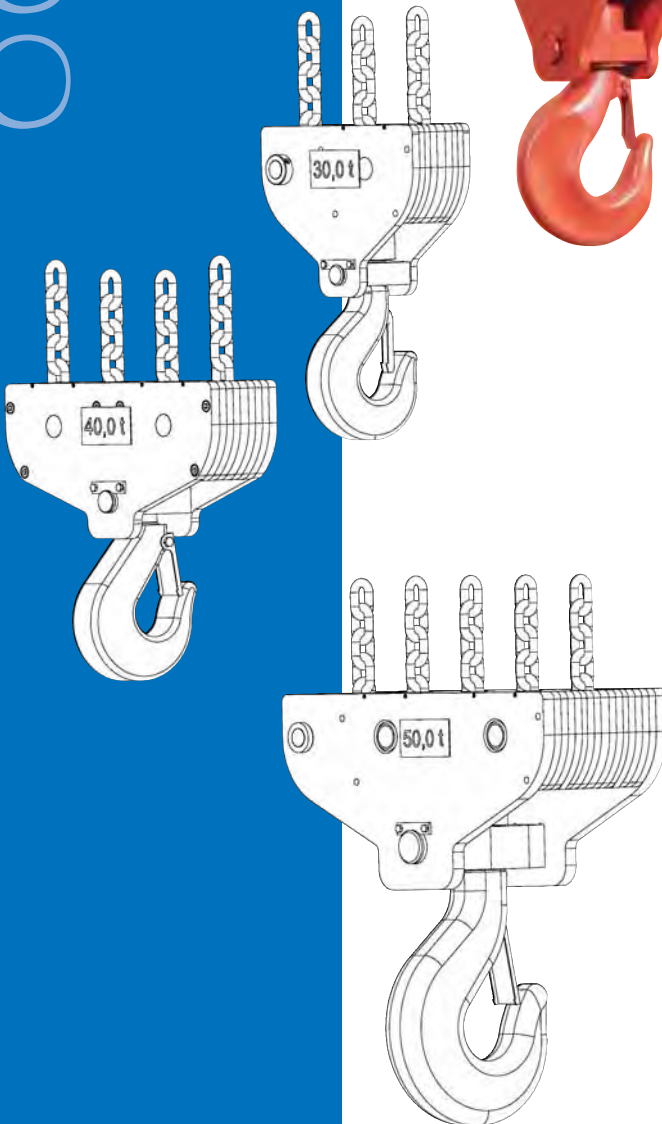
NEU  
**NEW**

Addition to the  
AK PREMIUM LINE!

## AK 10 10 - 60 t



12,5 t single fall



## Sicherheit **Safety**

- 42 V low voltage control
- phase monitoring relay
- thermal protected hoist motor
- emergency and operational limit switches
- hoist protection by power cut-off
- plug-in connection for power supply and remote or pendant control switch
- IP 55 enclosure protects the hoist from penetration of humidity and dust
- operating time meter
- available up to "5 m" classification
- variable trolley speed of 0,1 – 8 m/min
- 5 years guarantee <sup>(1)</sup>

 - version on request

1) on condition of proper use, - wear parts excluded  
See our General Terms and guarantee conditions.

Type 66/04 AK

## Electric Chain Hoists

**Available up to 60 t capacity**



**66/04 AKS**  
stationary with suspension eye



**66/04 AKR**  
with push travel trolley



**66/04 AKH**  
with hand geared trolley



**66/04 AKE**  
with electric trolley

capacity W.L.L.	chain falls no.	lifting speed main/ slow m/min	type	FEM 9.511/ ISO 4301
250	1	16,0/4,0	AK 402 DT 80 N 8/2	2m/M5
500	1	6,0	AK 405 DT 80 K 4	2m/M5
500	1	9,4/2,3	AK 405 DT 80 N 8/2	2m/M5
630	1	6,0	AK 406 DT 80 K 4	1Bm/M3
630	1	9,4/2,3	AK 406 DT 80 N 8/2	1Bm/M3
1000	2	3,0	AK 410 DT 80 K 4	2m/M5
1000	2	4,5/ 1,1	AK 410 DT 80 N 8/2	2m/M5
1000	1	8,0/ 2,0	AK 610 DT 90 L 8/2	2m/M5
1250	2	4,5/ 1,1	AK 412 DT 80 N 8/2	1Bm/M3
1250	1	8,0/ 2,0	AK 612 DT 90 L 8/2	1Bm/M3
1600	1	8,0/ 2,0	AK 716 DT 100 L 8/2	2m/M5
1600	1	11,0/ 2,6	AK 716 DT 100 L 8/2	2m/M5
2000	2	4,0/ 1,0	AK 620 DT 90 L 8/2	2m/M5
2000	1	10,0/ 2,5	AK 820 FN 100 M8/2	2m/M5
2500	2	4,0/ 1,0	AK 625 DT 90 L 8/2	1Bm/M3
2500	2	5,5/ 1,3	AK 725 DT 100 L 8/2	2m/M5
2500	1	8,0/ 2,0	AK 825 FN 100 M8/2	2m/M5
3200	2	4,0/ 1,0	AK 732 DT 100 L 8/2	2m/M5
3200	2	5,0/ 1,25	AK 832 FN 100 M8/2	2m/M5
4000	2	5,0/ 1,25	AK 840 FN 100 M8/2	2m/M5
5000	2	4,0/ 1,0	AK 850 FN 100 M8/2	2m/M5
5000	1	5,4/ 1,35	AK 905 FN 112 M8/2	2m/M5
5000	1	8,0/ 2,0	AK 905 FN 132 M8/2	2m/M5
6300	1	5,4/ 1,35	AK 906 FN 112 M8/2	1Bm/M3
6300	1	8,0/ 2,0	AK 906 FN 132 M8/2	1Bm/M3
10000	1	5,8/1,4	AK 1010 FN 160 M8/2	2m/M5
10000	2	2,8/ 0,7	AK 910 FN 112 M8/2	2m/M5
10000	2	4,0/ 1,0	AK 910 FN 132 M8/2	2m/M5
12000	2	2,8/ 0,7	AK 912 FN 112 M8/2	1Bm/M3
12000	2	4,0/ 1,0	AK 912 FN 132 M8/2	1Bm/M3
12500	1	5,8/1,4	AK 1012 FN 160 M8/2	1Bm/M3
15000	3	1,8/ 0,45	AK 915 FN 112 M8/2	2m/M5
15000	3	2,6/ 0,6	AK 915 FN 132 M8/2	2m/M5
20000	2	2,9 /0,7	AK 1020 FN 160 M8/2	2 m/M5
20000	4	1,35/0,35	AK 920 FN 112 M8/2	2m/M5
20000	4	2,0/ 0,5	AK 920 FN 132 M8/2	2m/M5
25000	2	2,9/0,7	AK 1025 FN 160 M8/2	1Bm/M3
25000	5	1,1/ 0,27	AK 925 FN 112 M8/2	2m/M5
25000	5	1,6/ 0,4	AK 925 FN 132 M8/2	2m/M5
30000	6	1,0/ 0,2	AK 930 FN 112 M8/2	2m/M5
30000	6	1,3/ 0,3	AK 930 FN 132 M8/2	2m/M5

travel speed of 16/4 m/min  
for electric trolleys as standard,  
other speeds on request.



Electric Chain Hoist  
Type 66/04 AKS  
stationary  
used in the food industry


Type 66/04 AK

# Electric Chain Hoists

HADEF testing stand  
(up to 100 t)

# 66/04 AK

## Optionally available:

- up to 8 lifting/lowering positions programmable by „teach in“ method (see page 47)
- load measuring device with load indicator
- operating time meter
- hook suspension instead of suspension eye
- load factor memory to log operation data
- monitoring of brake lining wear
- special voltages or frequencies
- radio control
- IP 66 - protection against dust and overflow
- continuous speed adjustment by frequency converter control (see page 47)
- modification for curved beam
- variable trolley speed of 0,1 - 8 m/min. (for AK 4 - AK 7)
-  -version



HADEF double-rail crab Type 35/04  
with electric chain hoist **Type 66/04 AK**  
**capacity: 25 t**  
for Double Grider Electric Overhead  
Travelling Crane **Type ZEE**  
**span: 15 m**



radio (remote) control

## Electric Chain Hoists

Low Headroom Configuration



Type 28/06 EE  
capacity 40 t / 8 chain falls

### Type 28/06 E

**HADEF Electric Chain Hoist combined with monorail trolley**  
**Low headroom configuration**  
 with push travel trolley Type 28/06 ER  
 with hand geared trolley Type 28/06 EH  
 with electric trolley Type 28/06 EE



Favourable for low headroom purposes

capacity W.L.L.	chain falls	hook to hook dimension	lifting speed main/ slow	FEM 9.511/ ISO 4301
kg	no.	mm	m/min	
500	1	300	9 / 2,2	2m/M5
1000	1	361	8 / 2	2m/M5
1600	1	479	11 / 2,6	2m/M5
2000	2	456	4 / 1	2m/M5
2500	1	405	8,0 / 2,0	2m/M5
2500	2	567	5,5 / 1,3	2m/M5
3200	2	567	5,5 / 1,3	2m/M5
5000	2	543	4,0 / 1,0	2m/M5
5000	1	569	5,4 / 1,35	2m/M5
5000	1	569	8,0 / 2,0	2m/M5
6300	1	569	5,4 / 1,35	1Bm/M3
6300	1	569	8,0 / 2,0	1Bm/M3
10000	2	775	2,8 / 0,7	2m/M5
10000	2	775	4,0 / 1,0	2m/M5
12000	2	775	2,8 / 0,7	1Bm/M3
12000	2	775	4,0 / 1,0	1Bm/M3
15000	3	821	1,8 / 0,45	2m/M5
15000	3	821	2,6 / 0,6	2m/M5
20000	4	821	1,35 / 0,35	2m/M5
20000	4	821	2,0 / 0,5	2m/M5
25000	5	925	1,1 / 0,27	2m/M5
25000	5	925	1,6 / 0,4	2m/M5
30000	6	975	1 / 0,2	2m/M5
30000	6	975	1,3 / 0,3	2m/M5
40000	2 x 4	1155	1,35 / 0,35	2m/M5
40000	2 x 4	1155	2,0 / 0,5	2m/M5
50000	2 x 5	(1)	1,1 / 0,27	1Bm/M3
60000	2 x 6	(1)	1,0 / 0,2	1Bm/M3

Note: electric trolleys with two travel speeds of 16/4 m/min, other travel speeds on request

1) dimensions on request

**Type 29/06 Synchro**

# Electric Chain Hoists ultralow headroom configuration

with hand geared trolley Type 29/06 EHS – Synchro  
with electric trolley Type 29/06 EES – Synchro

*modification  
for curved beam  
on request*



*two drives for smooth  
lifting/lowering with high  
lifting speeds*

capacity W.L.L.	chain falls	hook to hook dimension	lifting speed	FEM 9.511/ ISO 4301	load chain ø
kg	no.	mm	m/min		mm
500	2	155	9/2,2	2m/M5	5,0
1000	2	155	9/2,2	2m/M5	5,0
2000	2	185	8/2	2m/M5	7,0
2500	2	213	11/2,6	2m/M5	9,0
3200	2	213	8/2	2m/M5	9,0

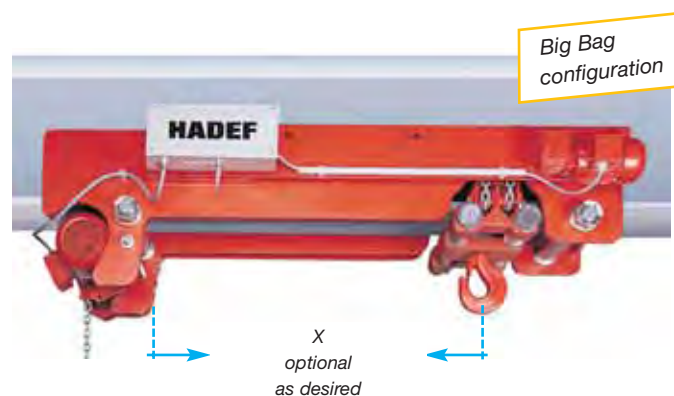
Note: electric trolleys with two travel speeds of 16/4 m/min,  
other travel speeds on request

## Type 29/06 EEL Big Bag

HADEF Electric Chain Hoist combined with monorail trolley  
ultralow headroom configuration with electric trolley

capa- city W.L.L.	chain falls	hook to hook dimension	lifting speed	FEM 9.511/ ISO 4301	horizontal width between hook and hoist unit x
kg	no.	mm	m/min		mm
1000	2	155	4,5 /1,1	2m/M5	545
2000	2	185	4,0/1,0	2m/M5	620
3200	2	213	4,0/1,0	2m/M5	680
5000	4	254	2,8/0,7	2m/M5	750
6300	4	254	2,0/0,5	1Bm/M3	750

Note: electric trolleys with two travel speeds of 16/4 m/min,  
other travel speeds on request



## Type 29/06 EH + EE

HADEF Electric Chain Hoist  
combined with monorail trolley  
ultralow headroom configuration

with hand geared trolley Type 29/06 EH  
with electric trolley Type 29/06 EE

*The favourable solution in  
reduced headroom areas.*



Type 29/06 EE  
capacity 16 t  
4 chain falls

capacity W.L.L.	chain falls	hook to hook dimension	lifting speed main/ slow	FEM 9.511/ ISO 4301
kg	no.	mm	m/min	
1000	2	155	4,5/ 1,1	2m/M5
2000	2	185	4,0/ 1,0	2m/M5
2500	2	213	5,5/ 1,3	2m/M5
3200	2	213	5,5/ 1,3	2m/M5
5000	4	276	2,8/ 0,7	2m/M5
5000	2	280	4,0/ 1,0	2m/M5
6300	4	276	2,0/ 0,5	1Bm/M3
10000	4	305	2,0/ 0,5	2m/M5
10000	2	360	2,8/ 0,7	2m/M5
12000	2	360	2,8/ 0,7	1Bm/M3
16000	4	407	1,4/ 0,3	3m/M6
20000	4	487	1,4/ 0,3	2m/M5
25000	6	575	1,0/ 0,2	2m/M5
30000	6	575	1,0/ 0,2	2m/M5
40000	2x4	710	1,4/ 0,3	2m/M5
50000	2x5	730	1,1/ 0,27	2m/M5
60000	2x6	<sup>(1)</sup>	1,0/ 0,2	1Bm/M3

Note: electric trolleys as standard with 16/4 m/min,  
other travel speeds on request

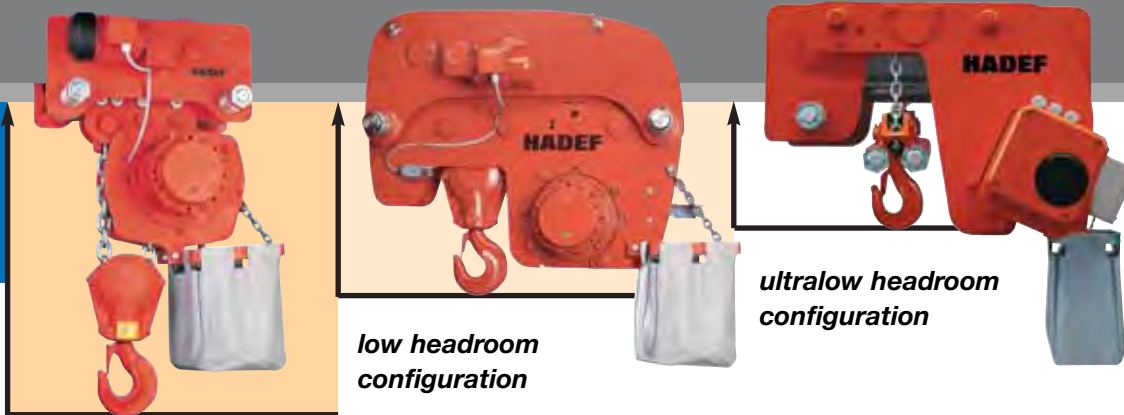
1) dimensions on request.



Type 29/06 EE  
capacity 50 t  
10 chain falls

*modification  
for curved beam  
on request*





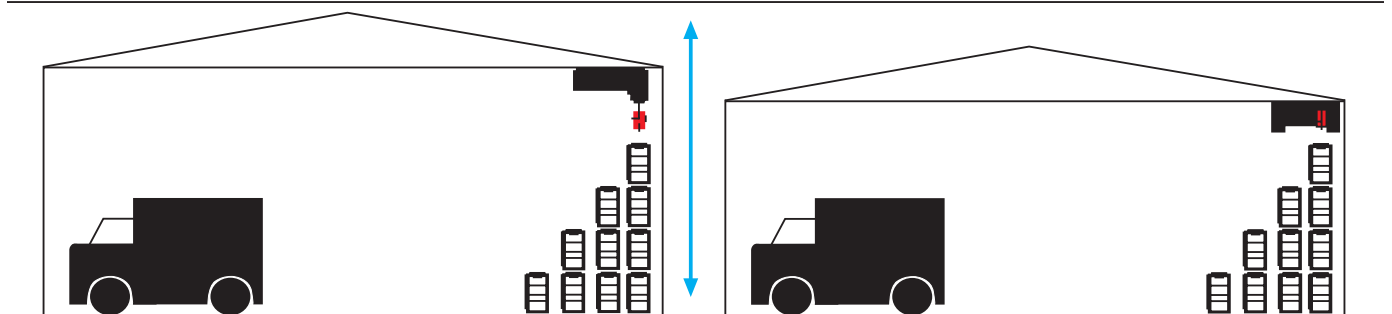
*compact design*

*low headroom configuration*

*ultralow headroom configuration*

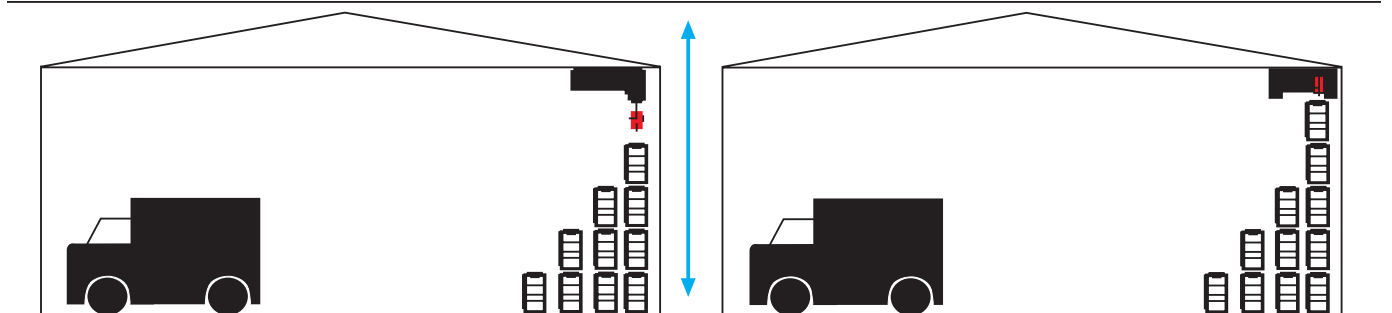
# ultralow headroom configuration

height of the building can be reduced or, if the building does already exist the ultralow headroom hoist is an ideal solution where there is lack of space available



ultralow headroom configuration

Up to 1000 mm additional operating height available with ultralow headroom hoist



ultralow headroom configuration

Type 70/06 AP

## Pneumatic Chain Hoist

stationary hoist with suspension eye  
 with push travel trolley  
 with hand geared trolley  
 with pneumatic trolley

Type 70/06 APS  
 Type 70/06 APR  
 Type 70/06 APH  
 Type 70/06 APP

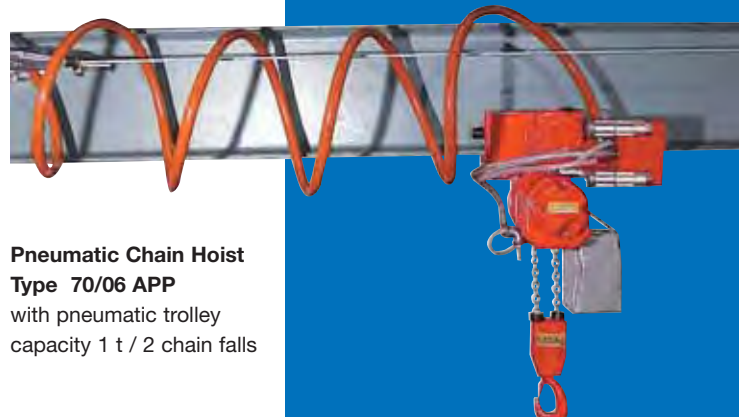


*modification  
 for curved beam  
 on request*

70/06 AP

capacity W.L.L.	chain falls	lifting speed		Type	FEM 9.511/ ISO 4301	load chain ø
		lifting	lowering			
kg	no.	m/min	m/min			mm
500	1	7,0	16,0	AP 405 TI 8	2m/M5	5
1000	2	3,5	8,0	AP 410 TI 8	2m/M5	5
1000	1	8,0	15,0	AP 610 TI 15	2m/M5	7
1600	1	8,0	16,0	AP 716 TI 25	2m/M5	9
2000	2	4,0	7,0	AP 620 TI 15	2m/M5	7
2000	1	<sup>(1)</sup>	<sup>(1)</sup>	AP 820 TI 35	2m/M5	9
3200	2	4,0	8,0	AP 732 TI 25	2m/M5	9
3200	2	<sup>(1)</sup>	<sup>(1)</sup>	AP 832 TI 35	2m/M5	11,3
5000	2	<sup>(1)</sup>	<sup>(1)</sup>	AP 850 TI 35	2m/M5	11,3
5000	1	2,7	3,6	AP 905 TI 50	2m/M5	16
6300	1	2	3,6	AP 906 TI 50	1Bm/M3	16
10000	2	1,5	2,2	AP 910 TI 50	2m/M5	16
12000	2	1,2	2,2	AP 912 TI 50	1Bm/M3	16
15000	3	0,9	2,2	AP 915 TI 50	2m/M5	16
20000	4	0,7	1,1	AP 920 TI 50	2m/M5	16
25000	5	0,6	0,7	AP 925 TI 50	2m/M5	16
30000	6	0,45	0,6	AP 930 TI 50	2m/M5	16

<sup>1)</sup> dimensions on request



**Pneumatic Chain Hoist**  
**Type 70/06 APP**  
 with pneumatic trolley  
 capacity 1 t / 2 chain falls

Serial model up to EX-class:

CE  II 2G IIB c T4

CE  II 2D c 135°C

**Pneumatic Chain Hoist combined with monorail trolley. Low headroom configuration**  
 with push travel trolley **Type 28/06 APR**  
 with hand geared trolley **Type 28/06 APH**  
 with pneumatic trolley **Type 28/06 APP**

capacity W.L.L.	chain falls	hook to hook dimension	lifting speed		FEM 9.511/ ISO 4301	load chain Ø
			lifting	lowering		
kg	no.	mm	m/min	m/min		mm
500	1	300	7,0	16,0	2m/M5	5,0
1000	1	361	8,0	15,0	2m/M5	7,0
1600	1	479	8,0	16,0	2m/M5	9,0
2000	2	456	4,0	7,0	2m/M5	7,0
3200	2	567	4,0	8,0	2m/M5	9,0
5000	2	(1)	3,0	6,0	2m/M5	11,3
6300	1	569	2,0	3,6	1Bm/M3	16,0
12000	2	775	1,2	2,2	2m/M5	16,0

*Intermediate capacities and capacities up to 60 t available.*

1) On request.

28/06 AP



*modification  
for curved beam  
on request*

**Type 28/06 AP  
low headroom  
configuration**



29/06 AP

*modification  
for curved beam  
on request*



**Type 29/06 AP  
ultralow headroom  
configuration**

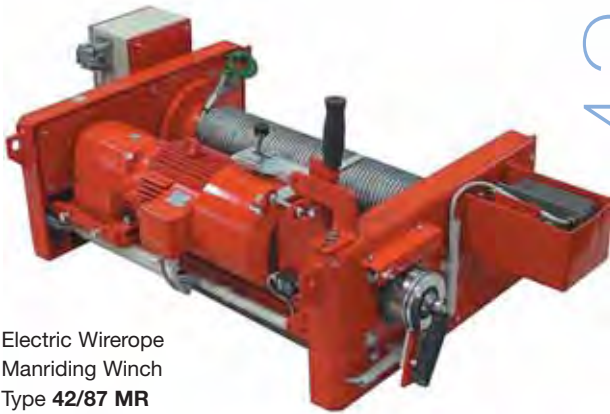
**Pneumatic Chain Hoist combined with monorail trolley.**  
 with hand geared trolley **Type 29/06 APH**  
 with pneumatic trolley **Type 29/06 APP**

capacity W.L.L.	chain falls	hook to hook dimension	lifting speed		FEM 9.511/ ISO 4301	load chain Ø
			lifting	lowering		
kg	no.	mm	m/min	m/min		mm
1000	2	155	3,5	8,0	2m/M5	5,0
2000	2	185	4,0	7,0	2m/M5	7,0
2500	2	213	4,0	8,0	2m/M5	9,0
3200	2	213	4,0	8,0	2m/M5	9,0
6300	4	254	1,8	3,6	1Bm/M3	9,0
12000	2	360	1,2	2,2	1Bm/M3	16,0

*Intermediate capacities and capacities up to 60 t available.*

## Type 42/87 E

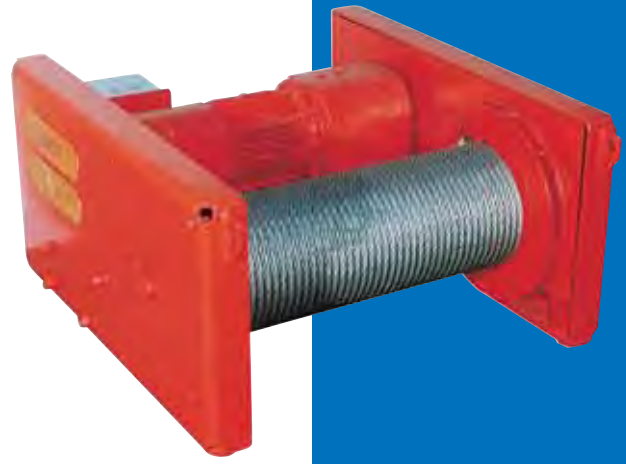
# Electric Wirerope Winches



Electric Wirerope Manriding Winch Type 42/87 MR for transport of persons

**Pulling winch\***  
\* As lifting winch optional limit switch required!

42/87 E



pulling rope force 1st layer daN (kg)	wirerope speed m/min	wirerope		FEM 9.511/ ISO 4301	wirerope storage	
		Ø mm	nec. minimum breaking load kN		1st layer m	total in top rope layer m
500	6,0	6	20	1Am/M4	24,0	179
500	16,0/4,0	6	20	1Am/M4	24,0	179
990	6,0	9	40	1Am/M4	25,0	145
990	16,0/4,0	9	40	1Am/M4	25,0	145
1000	6,0	9	40	1Am/M4	25,0	145
1000	16,0/4,0	9	40	1Am/M4	25,0	145
2000	6,0	12	80	1Am/M4	30,0	226
2000	16,0/4,0	12	80	1Am/M4	30,0	226
3200	8,0/2,0	16	128	1Am/M4	31,0	23
5000	6,0/1,5	20	200	1Am/M4	35,0	259
7500	5,5/1,4	24	300	1Am/M4	47,0	350
10000	4,0/1,0	28	400	1Am/M4	50,0	280

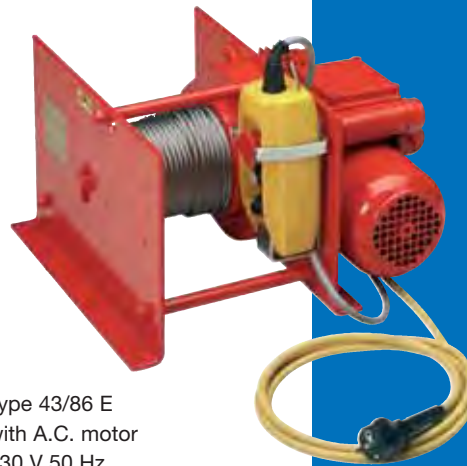
## Type 43/86 E Liftboy

pulling rope force 1st layer daN (kg)	wirerope speed top layer m/min	wirerope		FEM 9.511/ ISO 4301	wirerope storage (2)	
		Ø mm	nec. minimum breaking load kN		1st layer m	total in top rope layer m
125	11,0	4	5	1Bm/M3	6,4	32
250	7,0	4	9	1Bm/M3	7,1	35
500	4,0	6	18	1Bm/M3	5,7	30
990	6,0	8	36	1Bm/M3	8,4	30
1000	6,0	8	36	1Bm/M3	8,4	30
2000	6,0 (1)	11	70	1Bm/M3	8,0	30
3200	5,5	16	114	1Bm/M3	9,0	37

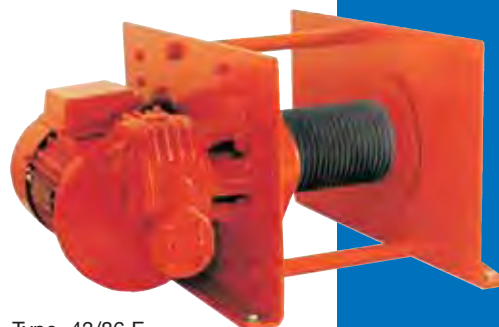
(1) for single phase current 3 m/min.

(2) with ungrooved drum

**Pulling winch\***  
\* As lifting winch optional limit switch required!



Type 43/86 E with A.C. motor 230 V 50 Hz complete model



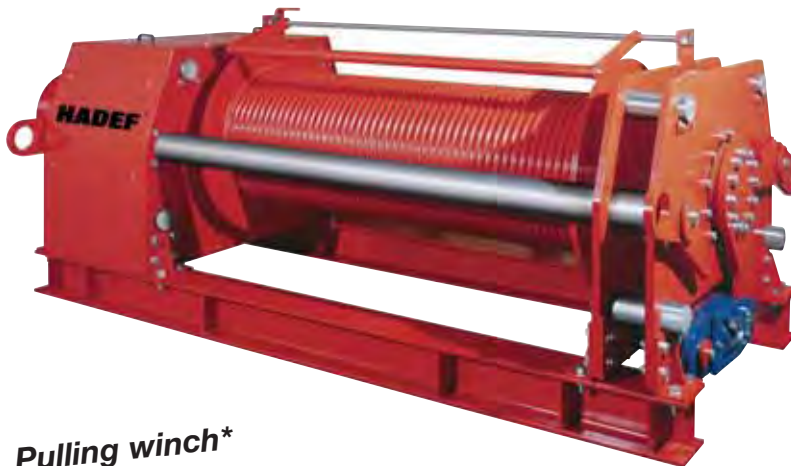
Type 43/86 E with threephase current motor

43/86 E

*High speeds on all rope layers  
maintenance-free  
duty classification 2m/ M5*

**Type 47/05 E**

# Electric Wirerope Winches



**Pulling winch\***  
\* As lifting winch optional  
limit switch required!

- very high, adjustable wirerope speeds
- long lifetime
- large wirerope storage capacities
- frequency control for smooth running
- high performance planetary gear integrated in the drum
- IP 54 enclosure

The serial winch is suitable for various purposes of use such as:

- material handling winch
- deck winch
- builder's winch
- rescue and towing winch

**Large variety of accessories available such as:**

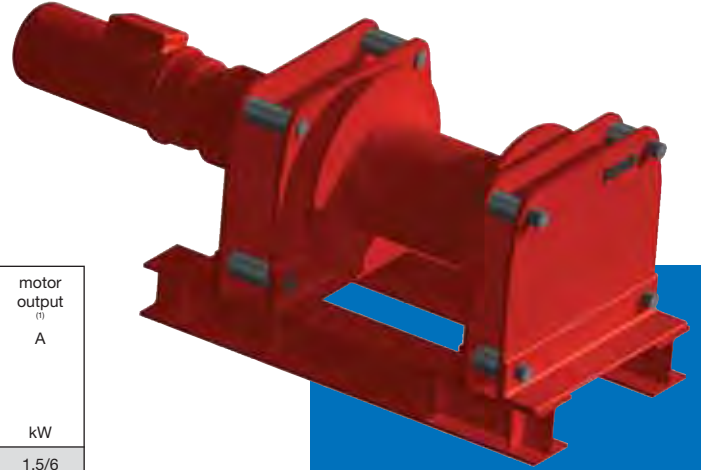
- secondary brake as safety brake (motor brake) or as brake acting directly on the drum
- accessory drive (motor or manual)
- manrider winch
- winch for different kinds of conveyors
- pressure roller
- wirerope winding device
- free-wheeling of drum
- slack-rope monitoring device
- load factor memory
- radio control
- higher enclosure classification
- drum with separation spacers
- hydraulic drive units

pulling rope force		wirerope speed at 50 Hz rated frequency			wire-rope	wirerope storage		motor-output
1st layer	5. layer	1st layer	3. layer	5. layer	∅	1st layer	5. layer	
daN (kg)	daN (kg)	m/min	m/min	m/min	mm	m	m	kW
5000	3700	6	7,1	8	14	67	400	1,5/6
		7,7	9	10				2/9
		11	13	15				3/12
6300	4600	5,2	6,0	6,9	16	60	370	1,5/6
		7	9	10				2/9
		9	10	11				3/12
8000	5850	3,8	4,5	5,2	18	62	365	1,5/6
		6	7	8				2/9
		8	9	10,5				3/12
10000	7250	3,3	3,9	4,5	20	55	350	1,5/6
		5	6	6,9				2/9
		6,5	7,7	8,9				3/12
12500	9000	2,6	3	3,5	22	54	350	1,5/6
		4	4,7	5,5				2/9
		4,9	5,8	6,9				3/12
16000	11400	3	3,6	4,1	25	52	345	2/9
		4	4,7	5,5				3/12
		6,5	6,5	9,5				22
20000	14500	18	22	26	28	50	340	55
		2,6	3,1	3,7				2/9
		3,2	3,8	4,5				3/12
25000	18000	5,5	6,5	8	32	52	340	22
		14	17	19				55
		4,5	5,5	6,5				22
32000	22000	6,5	7,5	8,5	36	46	315	30
		8,5	10	11,5				45
		10	12	15				55
36000	24500	4,5	5,5	6,5	36	49	335	30
		7	8,5	10				45
		8,5	10	12				55
40000	28000	4	5	6	40	54	360	30
		6,5	8	9,5				45
		7,5	9	10,5				55
		4	4,7	5,5				30
		5,5	6,5	8				45
		7	8,5	10				55

Type 45/07 E

## Electric Wirerope Winches

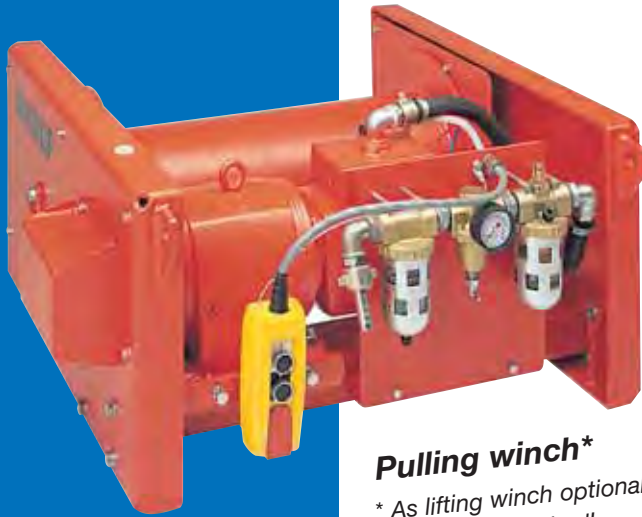
**Pulling winch\***  
\* As lifting winch optional limit switch required!



Pulling rope force		Wirerope speed			wirerope Ø	wirerope storage		motor output (1) A
1st layer	5th layer	1st layer	3rd layer	5th layer		1st layer	5th layer	
daN (kg)	daN	m/min	m/min	m/min	mm	m/min	m/min	kW
2000	1550	15	17	19	10	35	230	1,5/6
		24	26	30				2,2/9
		35	40	44				3/12
3200	2375	10	12	14	12	30	205	1,5/6
		14	16	19				2,2/9
		19	22	25				3/12
4000	2900	6	8	9	13	28	190	1,5/6
		10	12	13				2,2/9
		15	18	20				3/12
5000	3600	6	7	8,5	14	26	180	1,5/6
		9,5	11,2	13				2,2/9
		13	16	18				3/12
6300	4300	5,3	6,5	7,7	16	23	160	1,5/6
		6,7	8,2	10				2,2/9
		10,1	12	14				3/12
8000	5600	4	4,7	5,7	18	23	160	1,5/6
		5,5	6,6	7,8				2,2/9
		7,9	9,8	11				3/12
10000	6900	3	3,6	4,3	20	23	170	1,5/6
		4,7	5,8	6,8				2,2/9
		5,9	7,2	8,4				3/12
12500	8700	2,4	2,9	3,4	22	26	175	1,5/6
		3,5	4,2	4,9				2,2/9
		4,8	5,8	6,8				3/12
16000	10500	2	2,4	2,8	25	20	155	1,5/6
		3	3,5	4,2				2,2/9
		3,7	4,5	5,4				3/12
		7	8,6	10,2				22 FU
20000	14410	2,3	2,9	3,5	28	17	150	2,2/9
		2,9	3,6	4,4				3/12
		5,9	7,4	8,9				22 FU
25000	17500	2,5	3,2	3,9	32	18	150	3/12
		4,5	5,7	6,8				22 FU
		5,8	7,4	15				30 FU

(1) FU = Frequency control necessary

45/07 E



Type 42/87 P

# Pneumatic Wirerope Winches



-version on request

**Pulling winch\***  
\* As lifting winch optional limit switch required!

42/87 P

pulling rope force		wirerope speed		wirerope		FEM 9.511/ ISO 4301	wirerope storage	
1. layer	top layer	lifting	lowering	Ø	nec. minimum breaking load		1st layer	total in top rope layer
daN (kg)	daN (kg)	m/min	m/min	mm	kN		m	m
500	320	15,0	28,0	6	20	1Am/M4	24	179
990	650	10,0	17,0	9	40	1Am/M4	25	145
1000	650	10,0	17,0	9	40	1Am/M4	25	145
2000	1400	5,0	9,0	12	80	1Am/M4	30	226
3200	2000	7,0	12,0	16	128	1Am/M4	31	230
5000	3200	5,0	9,0	20	200	1Am/M4	35	259
7500	5000	5,0	9,0	24	300	1Am/M4	47	351
10000	6300	4,0	7,0	28	400	1Am/M4	50	282

pulling rope force 1. layer	wirerope speed		wirerope		FEM 9.511/ ISO 4301	wirerope storage	
	lifting	lowering	Ø	nec. minimum breaking load		1st layer	total in top rope layer
daN (kg)	m/min	m/min	mm	kN		m	m
250	7,0	12,0	4	9	1Bm/M3	5,6	35
250	12,0	18,0	4	9	1Bm/M3	5,6	35
500	4,0	7,0	6	18	1Bm/M3	4,8	30
500	8,0	16,0	6	18	1Bm/M3	4,8	30
500	12,0	16,0	6	18	1Bm/M3	4,8	30
990	6,0	12,0	8	36	1Bm/M3	6,8	30
1000	6,0	12,0	8	36	1Bm/M3	6,8	30
2000	3,0	6,0	11	70	1Bm/M3	6,3	30

Type 43/86 P



43/86 P



-version on request

**Pulling winch\***  
\* As lifting winch optional limit switch required!

# Special Hoist Program

explosion-proof  
Chain Hoists

 -version



Photo: SIRI



Various manual and pneumatic chain hoists and winches are available in explosion-proof design.







# Offshore

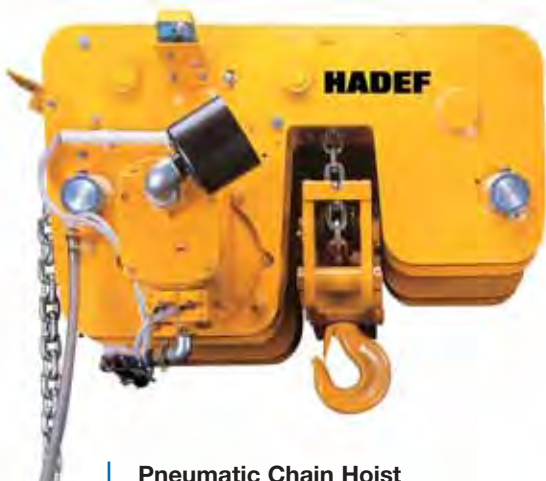
Photo: Øyvind Hagen, Statoil

## Spezialgeräte

### *Special Hoists* *Application*



**Pneumatic Chain Hoist  
Type 29/06 APP**  
with pneumatic trolley  
capacity 30 t / 6 chain falls  
offshore-design



**Pneumatic Chain Hoist  
Type 29/06 APP**  
with pneumatic trolley  
capacity 12 t / 2 chain falls



## Type 9/98

# Spur Gear Hoists

as standard for 3 m suspension height

fitted with  
hoist protection  
by slipping-clutch

capacity W.L.L.	chain falls	hook to hook dimension	weight
kg	no.	mm	kg
500	1	288	8,9
1000	1	345	12,2
1500	1	423	19,6
2000	2	491	13,6
3000	2	593	27,0
5000	2	702	42,0
10000	4	755	105,0
10000 <sup>(1)</sup>	2	824	100,0
15000 <sup>(1)</sup>	3	1115	135,0
20000 <sup>(1)</sup>	4	1165	170,0
25000 <sup>(1)</sup>	5	1233	198,0
30000	2 x 3	1160	270,0
40000	2 x 4	1280	340,0
50000	2 x 5	1470	396,0



-version on request



(1) only one operator  
required up to 25 t



## Type 11/09

**Robust Aluminium Spur Gear Hoist**

capacity W.L.L.	chain falls	hook to hook dimension	weight
kg	no.	mm	kg
250	1	288	11,0
500	1	288	11,0
1000	1	345	13,0
1500	1	423	18,0
2000	2	491	22,0
3000	2	593	30,0
5000	3	620	39,0

## Type 24/98

**Spur Gear Hoist combined with monorail trolley. Compact design with push travel trolley Type 24/98 HR with hand geared trolley Type 24/98 HH**

capacity W.L.L.	chain falls	hook to hook dimension	weight
kg	no.	mm	kg
500	1	244	20,1
1000	1	289	26,7
1500	1	359	50,6
2000	2	446	44,6
3000	2	495	76,0
5000	2	592	97,0
10000	4	615	182,5

capacities up to 25 t available



-version on request

24/98

## Type 23/09

**Robust Aluminium Spur Gear Hoist combined with monorail trolley. Compact design with push travel trolley Type 23/09 HR with hand geared trolley Type 23/09 HH**

capacity W.L.L.	chain falls	hook to hook dimension	weight
kg	no.	mm	kg
500	1	291	22,5
1000	1	345	28,0
1500	1	419	45,0
2000	2	433	49,0
3000	2	476	76,0
5000	3	595	93,0



23/09



Type 19/90



Type 22/90



Type 22/90 E

Type 19/90  
Type 22/90  
Type 22/90 E

Monorail push travel trolley Type 19/90  
Monorail hand geared trolley Type 22/90  
Monorail electric trolley Type 22/90 E



-version on request

runs with the trolley  
blocks the trolley  
including the load



Beam locking device

capacity W.L.L.	flange width 1 N from - to	flange width 2 N from - to
	mm	mm
kg		
500	50 - 146	147 - 302
1000	50 - 179	180 - 310
1500	50 - 173	174 - 316
2000	50 - 173	174 - 316
2500	66 - 186	187 - 310
3200	66 - 186	187 - 310
5000	74 - 182	183 - 310
6300	74 - 164	165 - 310
7500	119 - 189	190 - 310
10000	119 - 189	190 - 310

capacities up to 100 t available (combination of trolleys)  
curve radius on request

modification  
for curved beam  
on request



Type 20/94 AFP



Type 20/94 AFR



Type 20/94 AFE



Type 20/94 AFH

# Monorail Trolleys

Type 20/94

Monorail push travel trolley

Type 20/94 AFR

Monorail hand geared trolley

Type 20/94 AFH

Monorail electric trolley

Type 20/94 AFE

Monorail pneumatic trolley

Type 20/94 AFP

capacity W.L.L.	flange width 1 N from - to	flange width 2 N from - to
	mm	mm
kg		
500	50 - 146	147 - 302
1000	50 - 135	136 - 220
2000	66 - 185	186 - 310
3200	74 - 196	197 - 310
4000	74 - 196	197 - 310
5000	74 - 192	193 - 310
6300	119 - 215	216 - 312
7500	119 - 215	216 - 312
10000	119 - 215	216 - 312

capacities up to 25 t available  
curve radius on request

**Type 28/98**

# Spur Gear Hoists

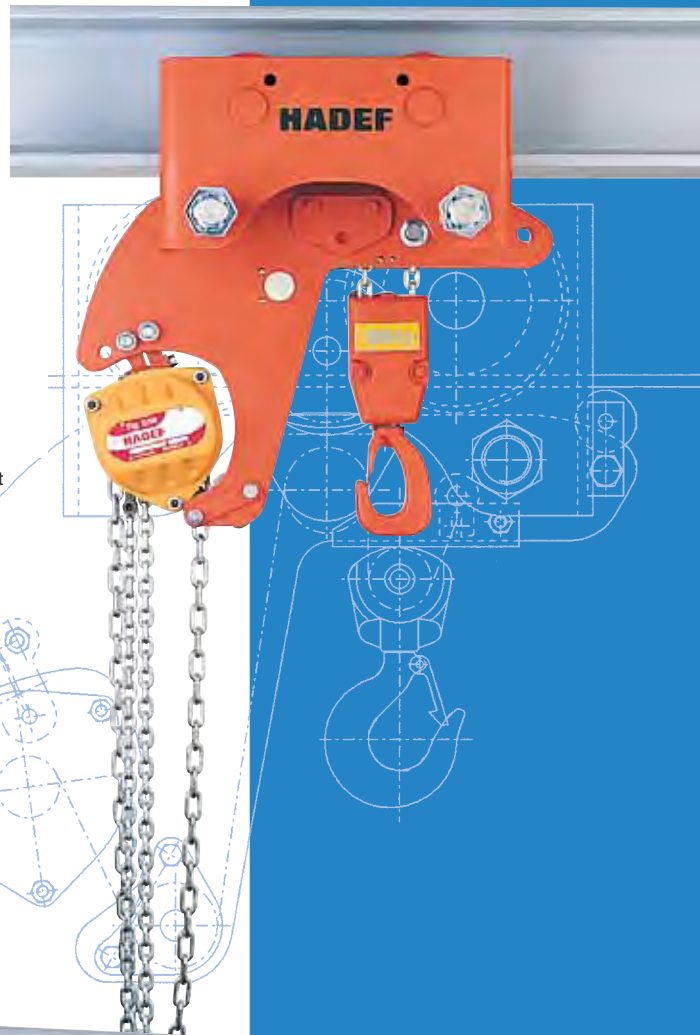
as standard for 3 m suspension height

Spur Gear Hoist combined with monorail trolley.  
 Low headroom configuration  
 with push travel trolley Type 28/98 HR  
 with hand geared trolley Type 28/98 HH

capacity W.L.L.	chain falls	hook to hook dimension	weight
kg	no.	mm	kg
500	1	222	35
1000	1	264	42
1500	1	327	76
2000	2	325	78
3000	2	384	104
5000	3	507	165
10000	2	760	810

*capacities up to 25 t available*

28/98



**Type 29/98**

Spur Gear Hoist combined with monorail trolley.  
 ultralow headroom configuration  
 with hand geared trolley Type 29/98 HH

capacity W.L.L.	chain falls	hook to hook dimension	weight
kg	no.	mm	kg
1000	2	140	75
2000	2	163	145
3200	2	193	225
5000	4	239	370
6300	4	239	370
10000	2	270	1020

*capacities up to 30 t available*

29/98



# 53/07

capacity W.L.L.	chain falls	standard lifting height	weight with standard lifting height
kg	no.	m	kg
800	1	1,5	5,7
1600	1	1,5	8,0
2500	1	1,5	11,2
3200	1	1,5	15,0
6300	2	1,5	26,0

Type 53/07



## Ratchet Lever Hoists



capacity W.L.L.	chain falls	standard lifting height	weight with standard lifting height
kg	no.	m	kg
250	1	1	1,5
500	1	1	2,5
750 <sup>(1)</sup>	1	1	3,4
1500 <sup>(2)</sup>	1	1	5,9



**Aluminium body  
lightweight and small**

(1) available mid of 2009  
(2) available end of 2009

## Type 199/75 Aluminium Wirerope Winch

pulling rope force 1st layer kg	wirerope		FEM 9.511/ ISO 4301	wirerope storage		crank effort 1st layer daN (kg)	drum Ø mm	weight without wirerope kg
	Ø mm	nec. minimum breaking load kN		1st layer m	6. layer m			
63	3	3	1Cm/M2	2,0	18,0	10	40	3
125	3	5	1Cm/M2	2,0	18,0	12	40	3
250	4	9	1Cm/M2	1,4	14,0	16	46	5



# Wirerope winches

## Type 200/77 Wirerope Winch

pulling rope force 1st layer kg	wirerope		FEM 9.511/ ISO 4301	wirerope storage		crank effort 1st layer daN (kg)	weight without wirerope kg
	Ø mm	nec. minimum breaking load kN		1st layer m	6. layer m		
50	3	2	1Cm/M2	0,4	5,3	8	1,0
100	3	4	1Cm/M2	0,45	7,8	6	2,1



## Type 190/94 Type 192/98 Stainless Steel Wirerope Winch

**additional high gear ratio  
for speed-controlled rope  
pay-out**



pulling rope force 1st layer kg	wirerope		FEM 9.511/ ISO 4301	wirerope storage		crank effort 1st layer daN (kg)	drum Ø mm	weight without wirerope kg
	Ø mm	nec. minimum breaking load kN		1st layer m	4. layer m			
500	6	18	1Em	4,9	25,0	17	82,5	11

Type 190/94

pulling rope force 1st layer kg	wirerope		FEM 9.511/ ISO 4301	wirerope storage		crank effort 1st layer daN (kg)	drum Ø mm	weight without wirerope kg
	Ø mm	nec. minimum breaking load kN		1st layer m	4. layer m			
500	6	18	1Em	4,9	25,0	17	82,5	10

Type 192/98

## Type 430/91 Worm Gear Wirerope Winch



pulling rope force 1st layer kg	wirerope		FEM 9.511/ ISO 4301	wirerope storage		crank effort 1st layer daN (kg)	drum Ø mm	weight without wirerope kg
	Ø mm	nec. minimum breaking load kN		1st layer m	3. layer m			
125	3	5	1Bm/M3	3,2	11,4	5,5	70	5,5
250	4	9	1Bm/M3	2,3	8,8	11,5	70	5,5
300	5	11	1Bm/M3	1,8	-	14	70	5,5

pulling rope force 1st layer kg	wirerope nec. minimum breaking load kN		FEM 9.511/ ISO 4301	wirerope storage		crank effort daN (kg)	drum Ø mm	weight without wirerope kg
	Ø mm			1st layer m	top layer m			
250	4	9	1Cm/M2	4,0	105	5	48	13
500	6	17	1Cm/M2	4,4	68	9	70	16
1000	8	34	1Cm/M2	6,0	65	14	102	26
1500	10	51	1Dm/M1	5,4	40	20	102	28
2000	11	67	1Cm/M2	6,2	57	12	133	60
3000	14	101	1Cm/M2	6,8	65	17	165	78
5000	18	168	1Cm/M2	6,4	37	34	219	115



### Type 238/99

#### Worm Gear Wirerope Winch

also available with separating partition for operation with two wirerope

# Wirerope winches

pulling rope force 1st layer kg	wirerope nec. minimum breaking load kN		FEM 9.511/ ISO 4301	wirerope storage		crank effort 1st layer daN (kg)	drum Ø mm	weight without wirerope kg
	Ø mm			1st layer m	top layer m			
300	5	11	1Bm/M3	4,8	42,2	10,3	120	34
500	6	18	1Bm/M3	5,2	67,4	15,4	150	50
1000	9	36	1Bm/M3	6,1	15,3	16,4	200	87
1500	11	54	1Bm/M3	5,4	13,8	20,3	205	110



### Type 250/33

#### Wall Winch

optional with load pressure brake or with brake regulator

pulling rope force 1st layer kg	wirerope nec. minimum breaking load kN		FEM 9.511/ ISO 4301	wirerope storage		crank effort 1st layer daN (kg)	drum Ø mm	weight without wirerope kg
	Ø mm			1st layer m	top layer m			
300	6	10	1Dm/M1	2,3	11,8	19	70	10
500	6	16	1Dm/M1	2,3	11,8	21	70	10
1000	9	32	1Dm/M1	3,4	12,0	18	102	15
2000	12	63	1Dm/M1	4,1	9,0	32	120	23
3000	13	95	1Dm/M1	3,0	7,0	30	120	23



### Type 260/76

#### Manual Spur Gear Wirerope Winch

capacity W.L.L. kg	lifting height mm	crank effort daN	lift per crank turn mm	weight kg
1500	350	25	14	13
3000	350	25	8	20
5000	350	25	4	27
10000	350	50	4	42

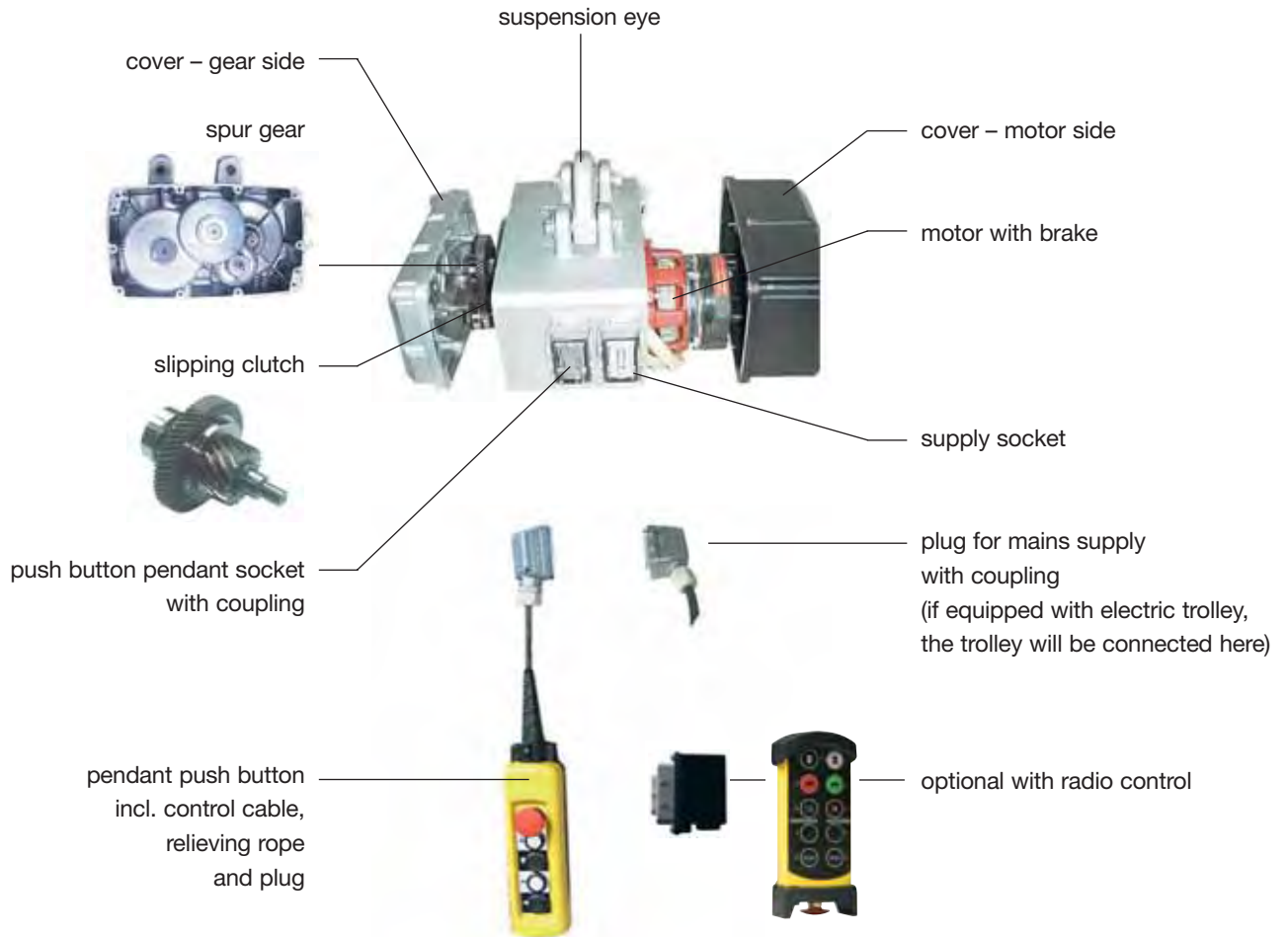


### Steel Jack

acc. to DIN 7355

Type 62/05

# Technical Details



low voltage control for lifting/lowering is integrated in the Electric Chain Hoist (incl. phase monitoring relay)

Trolley optionally with separate low voltage control or with frequency converter



**operational limit switch**

stops the hoist at highest and lowest hook position



operational limit switch

**variable limit switch**

stops the hoist at multiple points up to max. 25 m (lifting and lowering)







plug-in  
connections

Type 62/05

# Electric Chain Hoist

*easy to install  
comfortable to use*

Made in Germany

62/05

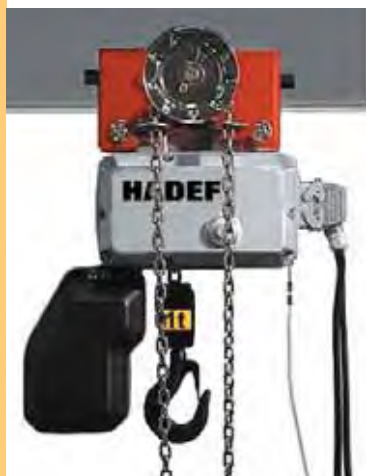
Type 62/05 E  
with electric trolley



Type 62/05 R  
with push  
travel trolley



Type 62/05 S  
stationary hoist  
with suspension eye



Type 62/05 H  
with hand geared trolley

capacity W.L.L.	chain falls	hook to hook dimension (1)	lifting speed	weight (2)
kg	no.	mm	m/min	kg
125	1	367	8,0/2,0	30
250	1	367	8,0/2,0	30
500	1	400	8,0/2,0	31
1000	2	463	4,0/1,0	33
1000	1	480	10,0/2,5	51
2000	2	570	5,0/1,25	54

(1) stationary hoist

(2) standard suspension height = 3m



Type 208/05  
Type 209/05

### Trolleys

capacity W.L.L.	flange width 1 N from - to	flange width 2 N from - to	weight without hand chain
kg	mm	mm	kg
<b>push travel trolley Type 208/05</b>			
500	64 - 152	153 - 310	7
1000	64 - 190	191 - 310	14
2000	88 - 190	191 - 310	21
3000	102 - 190	191 - 310	35
5000	114 - 185	186 - 310	48
<b>hand geared trolley Type 209/05</b>			
1000	64 - 190	191 - 310	18
2000	88 - 190	191 - 310	26
3000	102 - 190	191 - 310	41
5000	114 - 185	186 - 310	54



208/05



209/05



optional with threaded bolt for easy adjustment to flange width

Type 147/05

### Wirerope Pull Hoist

pulling rope force	lever force at full load	wirerope Ø	weight without wirerope
kg	daN	mm	kg
800	28,4	8	6
1600	41,2	11	12
3200	44,1	16	23



Type 221/05

### Beam Clamp



capacity W.L.L.	flange width	weight approx.
kg	mm	kg
1000	75 - 230	4
2000	75 - 230	5
3000	90 - 320	10
5000	90 - 320	12

# Spur Gear Hoist

## Type 8/98

same hoist as HADEF high quality hoist Type 9/98 but without overload protection standard hoist for 3 m suspension height



capacity W.L.L.	chain falls	hook to hook dimension	weight
kg	no.	mm	kg
250	1	255	3,6
500	1	288	8,9
1000	1	345	12,2
1500	1	423	18,0
2000	2	491	16,0
3000	2	593	27,0
5000	2	702	42,0



## Type 240/98

Spur Gear Hoist combined with monorail trolley compact design

with push travel trolley Type 240/98 HR

with hand geared trolley Type 240/98 HH

capacity W.L.L.	chain falls	hook to hook dimension	weight
kg	no.	mm	kg
500	1	244	20,1
1000	1	289	26,7
1500	1	359	50,6
2000	2	446	44,6
3000	2	495	76,0
5000	2	592	97,0

## Type 25/05

standard hoist for 1,5 m lifting height

capacity W.L.L.	chain falls	weight with 1,5 m lifting height
kg	no.	kg
250	1	2



# Lever Hoist

## Type 50/07

standard hoist for 1,5 m lifting height



capacity W.L.L.	chain falls	weight with 1,5 m lifting height
kg	no.	kg
750	1	6,2
1500	1	9,6
3000	1	15,5
6000	2	27,0

## Type TA

# Articulated Crane

HADEF Articulated Single Girder Underslung Crane Type TA



-version on request



combined with Spur Gear Hoist Type 24/98 HR

capacity W.L.L. kg	Hoist HADEF Spur Gear Hoist Type 24/98 HR	beam profile IPE	span up to mm	weight of crane without hoist kg
250	24/98 HR 0,5 t	160	4000	90
		160	5000	105
		160	6000	125
		180	7000	170
500	24/98 HR 0,5 t	160	4000	90
		180	5000	130
		200	6000	180
		220	7000	240
1000	24/98 HR 1 t	200	4000	130
		220	5000	180
		240	6000	240
		270	7000	320
1250	24/98 HR 1,5 t	240	4000	150
		240	5000	200
		270	6000	270
		300	7000	360

with Electric Chain Hoist Type 66/04 AKR or  
with Electric Chain Hoist Type 62/05 R

capa- city W.L.L. kg	Hoist HADEF Electric Chain Hoist Type 66/04 AKR or Type 62/05 R	lifting speed m/min	FEM 9.511/ ISO 4301	span up to mm	weight of crane without hoist kg
250	62/05 R	8,0/ 2,0	1Am/M4	4000	90
				5000	105
				6000	125
				7000	170
500	AK 405 DT 80 N 8/2 62/05 R	9,4/ 2,3 8,0/ 2,0	2m/M5	4000	90
				5000	130
			1Am/M4	6000	180
				7000	240
1000	AK 410 DT 80 N 8/2 62/05 R	4,5/ 1,1 4,0/ 1,0	2m/M5	4000	130
				5000	180
			1Am/M4	6000	240
				7000	320
1250	AK 412 DT 80 N 8/2	4,5/ 1,1	1Bm/M3	4000	150
				5000	200
				6000	270
				7000	360

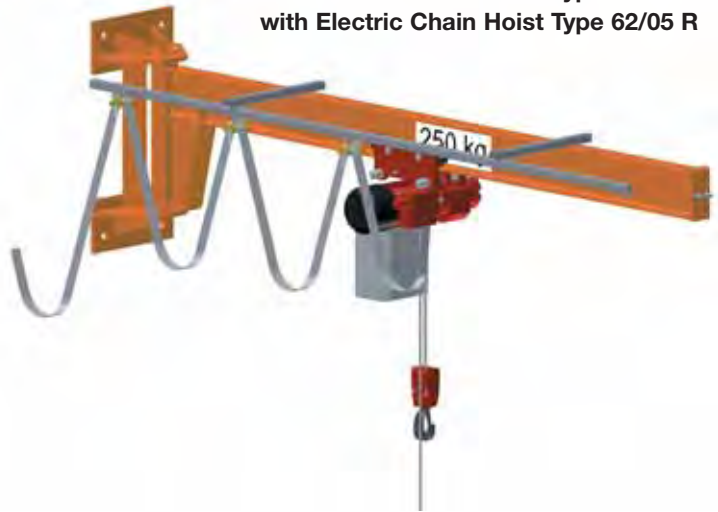
capacity W.L.L.	span clearance	hook to hook dim. Type 66/04 AK	weight of crane without hoist
kg	mm	mm	kg
125	2000	393	92
	3000		107
	4000		170
	5000		192
	6000		307
250	2000	393	92
	3000		147
	4000		170
	5000		277
	6000		307
500	2000	393	125
	3000		147
	4000		246
	5000		354
	6000		396
1000	2000	453	184
	3000		270
	4000		312
	5000		354
1500	2000	610	227
	3000		270
	3500		291
2000	2000	610	227
	3000		270

SCHWENKBEREICH  
slewing range / Rotation

180°

### Type 320/01 E Wall-mounted Jib Crane

with Electric Chain Hoist Type 66/04 AKR or  
with Electric Chain Hoist Type 62/05 R



## Jib Cranes

Combination with all HADEF PREMIUM LINE  
and professional line Chain Hoists

capacity W.L.L.	span clearance	hook to hook dim. Type 66/04 AK	weight of crane without hoist
kg	mm	mm	kg
125	2000	393	252
	3000		268
	4000		354
	5000		377
	6000		604
250	2000	393	252
	3000		332
	4000		354
	5000		573
	6000		604
500	2000	393	310
	3000		332
	4000		542
	5000		784
	6000		827
630	2000	393	310
	3000		512
	4000		742
	5000		784
	6000		784
1000	2000	453	481
	3000		700
	4000		742
	5000		784
1250	2000	453	481
	3000		700
	4000		742
1500	2000	610	658
	3000		700
	3500		721
2000	2000	610	658
	3000		700

SCHWENKBEREICH  
slewing range / Rotation

270°

### Type 360/01 E Jib Crane

with Electric Chain Hoist Type 66/04 AKR or  
with Electric Chain Hoist Type 62/05 R



## Type EDHH

### Single Girder Manual Underslung Crane



-version on request

EDHH



capacity W.L.L.	span up to	wheel base	max. wheel load per wheel pair
kg	mm	mm	kg
1000	7000	1200	795
	10000	1200	900
	14000	1600	1200
1500	7000	1200	1110
	10000	1200	1225
	14000	1600	1600
2000	7000	1200	1400
	10000	1200	1500
	14000	1600	1900
3000	7000	1600	1900
	10000	1600	2090
	14000	1600	2400
5000	6000	1600	3100
	10000	1600	3300
	14000	2000	3750
10000	7000	2000	6030
	10000	2000	6300
	14000	2000	6580



## Type EHH

### Single Girder Manual Overhead Travelling Crane



-version on request

EHH

capacity W.L.L.	span up to	wheel base	max. wheel load per wheel pair
kg	mm	mm	kg
1000	6000	800	635
	10000	1200	725
	14000	1600	910
1500	6000	800	883
	10000	1200	980
	14000	1600	1233
2000	6000	800	1164
	10000	1200	1264
	14000	1600	1524
3000	5000	1200	1739
	10000	1200	1874
	14000	1600	2094
5000	6000	1200	2638
	10000	1600	2924
	14000	1600	3167
10000	7000	1600	5155
	10000	1600	5475
	14000	2200	5936

EEE



EDEE

**Type EEE**

**Single Girder  
Electric Overhead Travelling Crane**

capacity W.L.L. kg	Hoist HADEF Electric Chain Hoist Type 66/04 AK	lifting speed m/min	FEM 9.511/ ISO 4301	span up to mm
1000	AK 410 DT 80 N 8/2	4,5/1,1	2 m/ M5	7000
				9000
				12000
				16000
				17000
2000	AK 620 DT 90 L 8/2	4/1	2 m/ M5	7000
				9000
				12000
				14000
				16000
2000	AK 820 FN 100 M 8/2	10,0/2,5	2 m/ M5	7000
				9000
				12000
				14000
				16000
3200	AK 732 DT 100 L 8/2	4/1	2 m/ M5	7000
				9000
				12000
				13000
				16000
5000	AK 850 FN 100 M 8/2	4,0/1,0	2 m/ M5	7000
				11000
				12000
				16000
				18000
5000	AK 905 FN 112 M 8/2	5,4/1,35	2 m/ M5	7000
				11000
				12000
				16000
				18000
6300	AK 906 FN 112 M 8/2	5,4/1,35	1 Bm/ M3	7000
				10000
				12000
				14000
				17000
10000	AK 910 FN 112 M 8/2	2,8/0,7	2 m/ M5	6000
				9000
				11000
				12000
				14000

# Single Girder Electric Cranes

**Type EDEE**

**Single Girder  
Electric Underslung Crane**

capa- city W.L.L. kg	Hoist HADEF Electric Chain Hoist Type 66/04 AK	lifting speed m/min	FEM 9.511/ ISO 4301	span up to mm
1000	AK 410 DT 80 N 8/2	4,5/1,1	2 m/ M5	7000
				9000
				12000
2000	AK 620 DT 90 L 8/2	4/1	2 m/ M5	7000
				9000
				12000
3200	AK 732 DT 100 L 8/2	4/1	2 m/ M5	7000
				9000
				12000
5000	AK 850 FN 100 M 8/2	4,0/1,0	2 m/ M5	6000
				10000
				13000
6300	AK 906 FN 112 M 8/2	5,4/1,35	1 Bm/M3	6000
				7000
				10000
10000	AK 910 FN 112 M 8/2	2,8/0,7	2 m/ M5	8000
				10000
				11000

**Single Girder Pneumatic  
Underslung Crane**  
**Type EDDD**  
capacity: 1 t  
span: 7 m

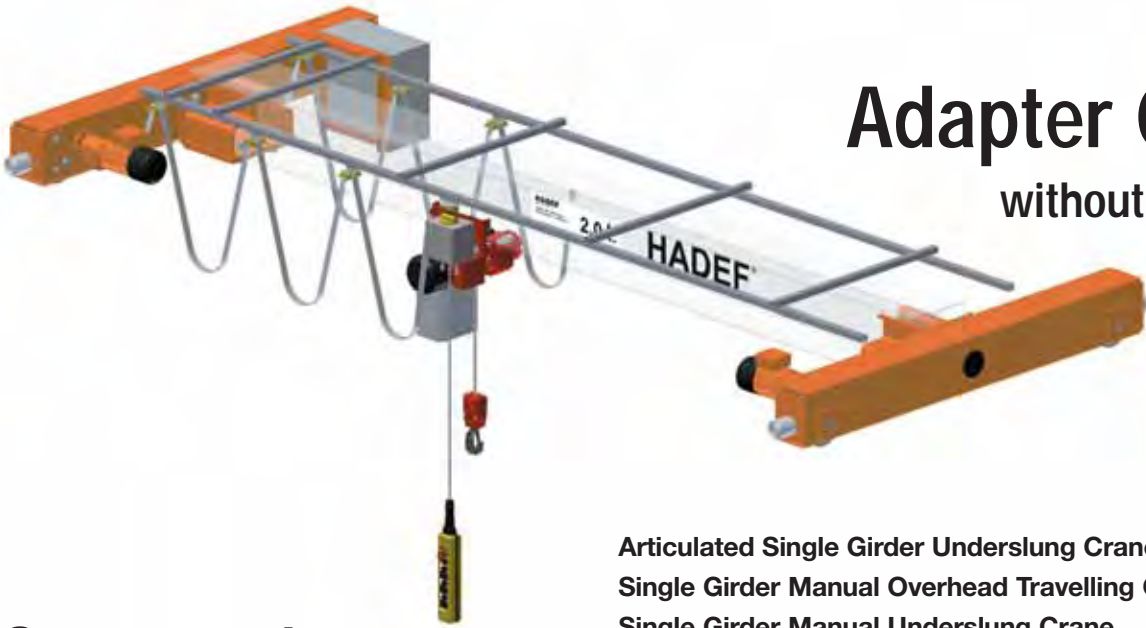


crane installation

**Single Girder Manual Overhead  
Travelling Crane**  
**Type EHH**  
capacity: 6 t  
span: 6 m







# Adapter Cranes

without main beam

## Save costs!

*HADEF Adapter Cranes help to reduce expensive cost for transport as the components are supplied and the main beam can be bought nearby and installed on site.*

Articulated Single Girder Underslung Crane	Type TA
Single Girder Manual Overhead Travelling Crane	Type EHH
Single Girder Manual Underslung Crane	Type EDHH
Single Girder Electric Overhead Travelling Crane	Type EEE
Single Girder Electric Underslung Crane	Type EDEE



# End Carriages



**ultralow headroom hoist**

**HADEF gantry crane**  
with ultralow headroom  
Electric Chain Hoist  
Type 29/06 EE  
capacity: 5 t

