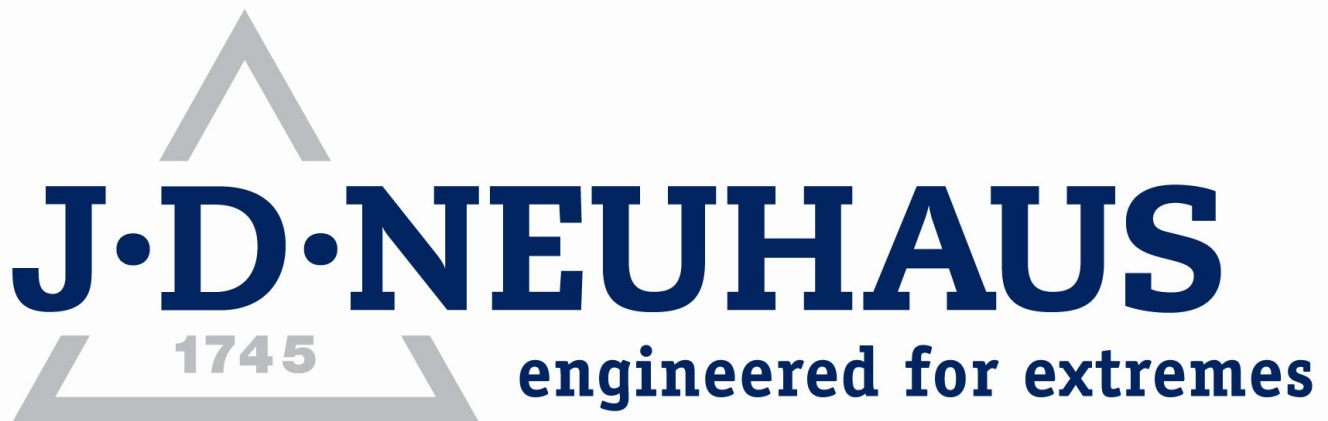


**Dailey Supply, Inc.**



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# JDN GENERAL CATALOGUE



**J·D·NEUHAUS**  
1745 engineered for extremes



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## The Company

At its Witten location, J.D. Neuhaus with 150 employees produces hoists and crane systems which are mainly driven by compressed air.

Thanks to this globally unique specialisation and our more than 50-years of expertise with compressed air as a drive medium, we have become a recognised expert in the field. Today, our share of exports is 80%. In total, we export to more than 90 countries around the globe. Our sales companies in the USA, Great Britain, France and Singapore support our customers at local level.

J.D. Neuhaus air hoists and hydraulic hoists are now used in more than 70 different industries. Demand for our products is particularly high in the oil and gas exploration and processing sectors, in mining, the chemical industry and heavy plant construction.

The complete JDN production range includes a total of 12 product lines, which are precisely adapted to their respective areas of application and requirements in terms of load capacity. Moreover, we consistently set new standards with customised solutions for exceptional applications.





## Environmental Protection and Quality

Starting with the development and production of our products, we place great value on ecological compatibility. Long service life and recyclability already make an important contribution towards relieving the environmental burden.



Furthermore, our production has been adapted to minimise energy consumption, emissions, sewage and waste; it also uses environmentally-compatible production processes and materials. Resources are used sparingly and waste is recycled wherever possible.

One of the most important commitments of the J.D. Neuhaus management is to promote awareness, openness and a sense of responsibility among employees in order to establish conditions favourable to the implementation of our environmental guidelines. We have also made environmental protection a permanent feature of our employee training courses.



In December 2009 we received ISO 14001 certification from the TÜV Rheinland Technical Control Association for our extensive environment management system.

Our quality management system covers all our processes, from planning and design through to production and customer service. It is also certified by the TÜV Rheinland according to ISO 9001.



# JDN AIR HOISTS MINI



## The mini series at a glance



Energy supply  
(spiral hose)



Manual trolleys

Special grease for  
oil-free operation




Mini tool box consisting of:  
mini with 3 m lift and 2 m  
control length in practical  
transport box incl. 6 m supply  
hose and couplings



mini in manipulator version

Galvanised chain  
3 standard lifting heights

Sensitive control  
3 standard control lengths

Explosion classification  
 II 3 GD IIA T4





## The JDN mini series for general duty

**Capacities: 125 kg, 250 kg, 500 kg, 980 kg**  
**Air pressure: 6 bar**

The **mini** widens the range of applications in the light duty sector as a handy, flexible and universally deployable hoist making it an ideal tool for a wide range of light/medium manufacturing applications.

### mini Manipulator

With the **mini** manipulator loads can be lifted, lowered, manually traversed and positioned with only one hand. Further information on request.

Explosion Classification:  $\text{Ex}$  II 3 GD IIA T4



mini 250



mini 250  
in manual trolley



mini-  
Manipulator

## The advantages at a glance

- Price competitive alternative when compared to other types of powered hoists.
- Suitable for lube-free operation.
- Suitable for application in hazardous areas.
- Minimum components for ease of maintenance.
- Wear resistant motor braking system.
- Lightweight for easy handling.
- Also suitable for horizontal pulling.
- Extremely sensitive lever control with emergency shut-off valve, max. control length 6 m.
- Available lifting heights: up to 8 m.
- With chain box as standard.
- With manual trolley as option.

## Technical Data

Type		mini 125	mini 250	mini 500	mini 1000
Capacity	lbs	275	550	1100	2160
	kg	125	250	500	980
Air pressure	PSI	85	85	85	85
	bar	6	6	6	6
Number of chain strands		1	1	1	1
Motor output	kW	0.4	0.4	1	1
Lifting speed at full load <sup>1</sup>	ft/min	49.5	26	33	16
	m/min	15	8	10	5
Lifting speed without load <sup>1</sup>	ft/min	130	65	65	33
	m/min	40	20	20	10
Lowering speed at full load	ft/min	99	52	59	33
	m/min	30	16	18	10
Lowering speed without load	ft/min	78.7	39.4	39.4	19.7
	m/min	24	12	12	6
Air consumption at full load – lifting	cfm	17.5	17.5	42.5	42.5
	m <sup>3</sup> /min	0.5	0.5	1.2	1.2
Air consumption at full load – lowering	cfm	24.7	24.7	56.5	56.5
	m <sup>3</sup> /min	0.7	0.7	1.6	1.6
Air connection		G 3/8	G 3/8	G 1/2	G 1/2
Hose dimension (Ø inside)	inch	3/8	3/8	1/2	1/2
	mm	9	9	13	13
Weight with 10 ft / 3 m lift	lbs	21	23.1	46.2	50.6
	kg	9.5	10.5	21	23
Chain dimension	mm	4 x 12	4 x 12	7 x 21	7 x 21
Weight of chain	lbs/ft	0.23	0.23	0.67	0.67
	kg/m	0.35	0.35	1.0	1.0
Height of lift	ft	10/16/26			
	m	3/5/8			
Length of control at standard lift	ft	6.5/13/20			
	m	2/4/6			
Noise level at full load <sup>2</sup> – lifting	dB(A)	79	79	77	77
Noise level at full load <sup>2</sup> – lowering	dB(A)	80	80	83	83

Group mechanism: M3 (1 Bm)

<sup>1</sup> Lifting speed at 2 m length of control. Longer control hoses decrease the lifting speeds.

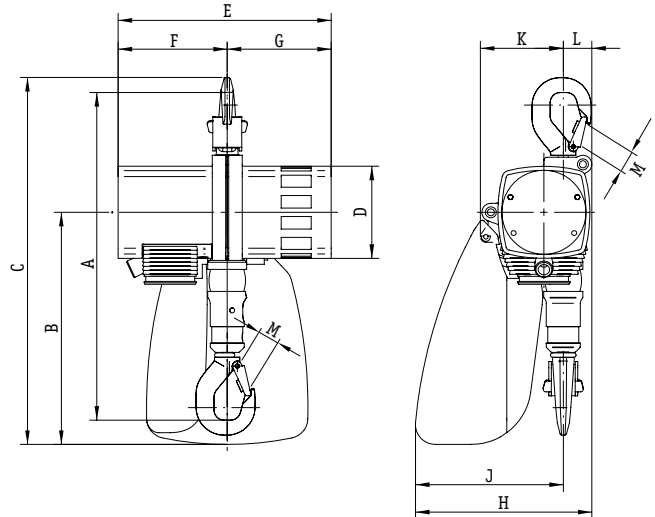
<sup>2</sup> Measured at 1 m distance acc. to DIN 45635 part 20

# JDN AIR HOISTS MINI



## Dimensions

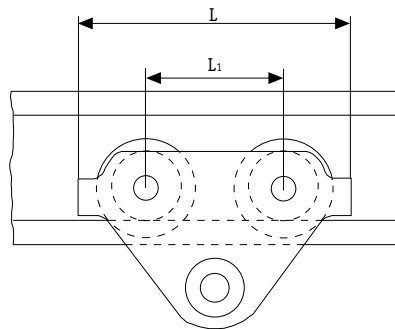
Type		mini 125	mini 250	mini 500	mini 1000
A	inch mm	12.9 328	12.9 328	18.0 458	18.0 458
B	inch mm	9.1 232	9.1 232	12.4 316	12.4 316
C	inch mm	14.4 367	14.4 367	19.9 505	19.9 505
D	inch mm	3.6 92	3.6 92	4.8 122	4.8 122
E	inch mm	8.4 213	8.4 213	11.5 292	11.5 292
F	inch mm	4.3 109	4.3 109	5.8 148	5.8 148
G	inch mm	4.1 104	4.1 104	5.6 144	5.6 144
H	inch mm	7 177	7 177	9.2 234	9.2 234
J	inch mm	5.8 148	5.8 148	7.6 194	7.6 194
K	inch mm	3.3 83	3.3 83	4.7 119	4.7 119
L	inch mm	1.1 29	1.1 29	1.6 40	1.6 40
M	inch mm	0.7 19	0.7 19	1.1 28	1.1 28



## Manual Trolleys for JDN Air Hoists mini

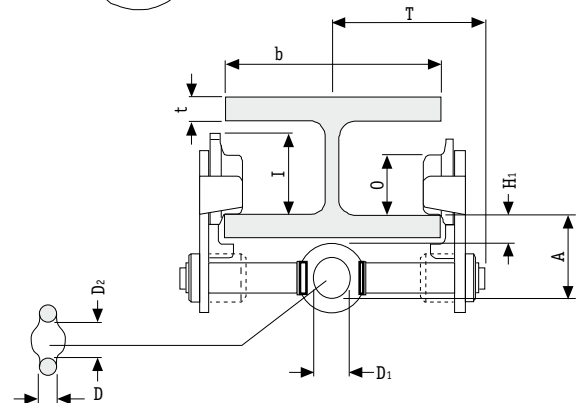
### Technical Data

Type		LN 250	LN 1000
Capacity	lbs kg	550 250	2200 1000
Beam flange width b	inch mm	2-8 50-220	2-8 58-220
max. flange thickness t	inch mm	1.2 30	1.0 25
min. curve radius	inch m	35.4 0.9	39.4 1.0
Weight	lbs kg	17 7.7	21 10.5



## Dimensions

Type		LN 250	LN 1000
A	inch mm	3.1 79	3.1 79
D	inch mm	0.7 17	0.7 17
D <sub>1</sub>	inch mm	1 25	1.2 30
D <sub>2</sub>	inch mm	1.2 30	1.4 35
H <sub>1</sub>	inch mm	1.2 30	1 25
I	inch mm	2.7 67.5	3.2 81.5
L	inch mm	10.2 260	10.2 260
L <sub>1</sub>	inch mm	5.1 130	5.1 130
O	inch mm	2.2 55	2.7 68
T	inch mm	5.7 144	5.9 151







## Capacities: 250 kg up to 100 t Air pressure: 4 bar or 6 bar

Proven in practice: JDN Air Hoists **PROFI** Series are superior in all places where safety has priority. The **PROFI** Series scores well with its 100% duty rating and explosion protection as standard. This important advantage ensures JDN Air Hoists are especially suitable for applications in hazardous areas.

JDN Air Hoists **PROFI** Series are very robust and therefore suitable for tough industrial applications even in continuous working processes. According to your requirements there are various control systems available. For traversing loads there are also different trolley designs to meet your particular demands.

### Where the JDN PROFI excellence has been proven

Aircraft construction, assembly lines, chemical industry, dairies, electro plating, explosives and pyrotechnics industry, food industry, foundries, furniture industry, glass industry, lacquer and varnish factories, match industry, mechanical engineering, auto industry, oil storage plants, on- and offshore, paint shops, paper industry, power plants, refineries, sawmills, shipyards, space industry, tempering plants, textile industry.

### Standard Features

- Suitable for application in hazardous areas
- Sensitive infinitely variable speed control for the precise positioning of loads
- Easy operation
- Suitable for lube-free operation
- 100 % duty rating and unlimited duty cycles
- Low maintenance
- Low headroom, lightweight
- Sound absorption
- Insensitive to dust, humidity and temperatures ranging from -20°C up to +70°C
- From 1t upwards with overload protection (EC-version)

### Technical Details

- Fail-safe starting, low maintenance vane motor
- Chain sprocket in the mid section runs in dust-proof maintenance-free ball bearings
- Planetary gear box with long-life grease lubrication, all gears made of tempered or hardened high-grade steel
- Load chain and hooks manufactured from high quality tempered steels with a breaking strength of five times the nominal load

### The advantages at a glance

- **Strong – Fast – Silent**  
High performance with more efficiency by reliability plus high lifting and lowering speeds. Low sound emissions.
- **High Level of Safety**  
Integrated emergency stop switch from 1t upwards with overload protection.
- **Oil-Free Operation**  
Patented, permanent motor lubrication during operation, using a high-performance grease. No additional motor lubrication required.
- **Patented Motor-Brake System**  
For operation with low maintenance and little wear. Based on the proven design of the JDN Mini Series.
- **Modern Design – Compact Size**  
Features no protruding control hoses or parts susceptible to damage, making the PROFI also suitable for horizontal pulling.
- **100 % Duty Rating – No Downtime**
- **Ex Classification according to EC Directive on Hazardous Locations 94/9/EEC**  
As standard:  
⊕ II 2 GD IIA T4/II 3 GD IIB T4  
With increased spark protection:  
⊕ II 2 GD IIC T4



## The modular system at a glance

**Limit Switch for Trolley Travel**  
**Extension Arm for Control**



### Trolleys

- Manual Trolley
- Reel Chain Trolley
- Motor Trolley

**Special High Performance Grease**  
for oil-free operation



**Service Unit**  
**Filter Regulator**



### Housing Finish

- Standard JDN Green
- 4-coat offshore paint system

### Filter Silencer

### Chain Container

- Chain Box
- Chain Bag

### Hook

- Standard
- Copper-plated
- Stainless Steel

### Controls

- Rope Control
- FI Control (sensitive)
- E Control (single speed)
- F Control (multi-function)
- Remote Control
- Electropneumatic Interface

### Ex Classification

Standard:

Ex II 2 GD IIA T4/II 3 GD IIB T4

With increased spark protection:

Ex II 2 GD IIB T4

With increased spark protection

for explosion group IIC:

Ex II 2 GD IIC T4



### Supply

- Hose Trolleys
- Spiral Hose
- Energy Chain
- C-rail
- Square Bar

**Limit Switch for Lift**



## PROFI 025 TI – 2 TI

### Technical Data

Type		025 TI		05 TI		1 TI		2 TI	
Capacity	mt	0.16	0.25	0.32	0.5	0.63	1	1.25	2
Air pressure	PSI	65	85	65	85	65	85	65	85
	bar	4	6	4	6	4	6	4	6
Number of chain strands		1		1		1		2	
Motor output	kW	0.6	1.0	0.6	1.0	0.6	1.0	0.6	1.0
Lifting speed at full load	ft/min	65.6	65.6	32.8	36.1	16.4	18	8.2	8.9
	m/min	20	20	10	11	5	5.5	2.5	2.7
Lifting speed without load	ft/min	123	137.8	52.5	62.3	32.8	36.1	16.4	18
	m/min	37.5	42	16	19	10	11	5	5.5
Lowering speed at full load	ft/min	124.7	124.7	55.8	55.8	32.8	36.1	16.4	18
	m/min	38	38	17	17	10	11	5	5.5
Air consumption at full load – lifting	cfm	24.7	42.4	24.7	42.4	24.7	42.4	24.7	42.4
	m <sup>3</sup> /min	0.7	1.2	0.7	1.2	0.7	1.2	0.7	1.2
Air consumption at full load – lowering	cfm	28.3	53	28.3	53	28.3	53	28.3	53
	m <sup>3</sup> /min	0.8	1.5	0.8	1.5	0.8	1.5	0.8	1.5
Air connection		G 1/2		G 1/2		G 1/2		G 1/2	
Hose dimension (ø inside)	inch	1/2		1/2		1/2		1/2	
	mm	13		13		13		13	
Weight with standard lift, rope control	lbs	59.5	59.5	59.5	59.5	61.6	61.7 <sup>1</sup>	75 <sup>1</sup>	75 <sup>1</sup>
	kg	27	27	27	27	27.5	28 <sup>1</sup>	34 <sup>1</sup>	34 <sup>1</sup>
Chain dimension	mm	7 x 21		7 x 21		7 x 21		7 x 21	
Weight of chain	lbs/ft	0.67		0.67		0.67		0.67	
	kg/m	1.0		1.0		1.0		1.0	
Standard lift	ft	10		10		10		10	
	m	3		3		3		3	
Length of control at standard lift	ft	6.5		6.5		6.5		6.5	
	m	2		2		2		2	
Noise level at full load <sup>2</sup> – lifting	dB(A)	73	74	74	75	74	76	74	76
Noise level at full load <sup>2</sup> – lowering	dB(A)	77	78	77	78	77	78	77	78

<sup>1</sup>With overload protection

<sup>2</sup>Measured at 1 m distance acc. to DIN 45635 part 20

Group mechanism at 6 bar: PROFI 025 TI M5 (2 m), PROFI 05 TI - PROFI 2 TI M4 (1 Am)

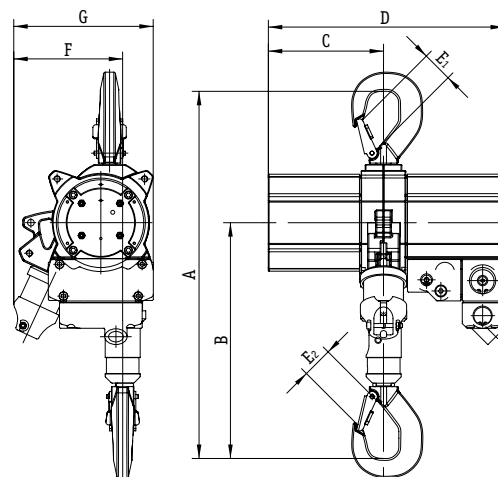


PROFI 1 TI

### Dimensions

Type		025 TI	05 TI	1 TI	2 TI
A min. headroom <sup>1</sup>	inch	17.7	17.7	17.7	19.6
	mm	450	450	450	498
B	inch	11.3	11.3	11.3	13.2
	mm	288	288	288	336
C	inch	5.7	5.7	5.7	5.7
	mm	145	145	145	145
D	inch	11.7	11.7	11.7	11.7
	mm	297	297	297	297
E <sub>1</sub>	inch	1.1	1.1	1.1	1.1
	mm	28	28	28	28
E <sub>2</sub>	inch	1.1	1.1	1.1	1.1
	mm	28	28	28	28
F up to hook centre	inch	5.4	5.4	5.4	5.4
	mm	137	137	137	137
G maximum width	inch	6.9	6.9	6.9	7.2
	mm	176	176	176	183

<sup>1</sup>Chain containers increase the hoist headroom





## PROFI 1.5 TI and 3 TI/2

### Technical Data

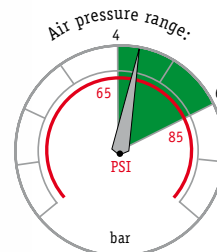
Type		1.5 TI	3 TI/2
Capacity	mt	1.6	3.2
Air pressure range	PSI bar	65-85 4-6	65-85 4-6
Number of chain strands		1	2
Motor output	kW	1.3-2	1.3-2
Lifting speed at full load	ft/min m/min	13.1-19.7 4-6	6.6-9.8 2-3
Lifting speed without load	ft/min m/min	27.6-32.8 8.4-10	13.8-16.4 4.2-5
Lowering speed at full load	ft/min m/min	36.1-39.4 11-12	18.0-19.7 5.5-6
Air consumption at full load – lifting	cfm m <sup>3</sup> /min	53-92 1.5-2.6	53-92 1.5-2.6
Air consumption at full load – lowering	cfm m <sup>3</sup> /min	78-127 2.2-3.6	78-127 2.2-3.6
Air connection		G 3/4	G 3/4
Hose dimension (Ø inside)	inch mm	3/4 19	3/4 19
Weight with standard lift, rope control	lbs kg	123 56	146 66
Chain dimension	mm	9 x 27	9 x 27
Weight of chain	lbs/ft kg/m	1.2 1.8	1.2 1.8
Standard lift	ft m	10 3	10 3
Length of control at standard lift	ft m	6,5 2	6,5 2
Noise level at full load <sup>1</sup> – lifting	dB(A)	73-77	73-77
Noise level at full load <sup>1</sup> – lowering	dB(A)	78-80	78-80



PROFI 1.5 TI



PROFI 3 TI/2

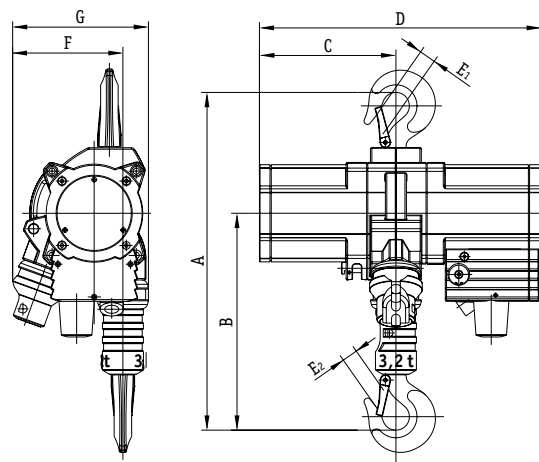


<sup>1</sup>Measured at 1 m distance acc. to DIN 45635 part 20  
Group mechanism: M3 (1 Bm)

### Dimensions

Type		1.5 TI	3 TI/2
A min. headroom <sup>1</sup>	inch mm	18.9 480	21.4 544
B	inch mm	11.5 293	14.0 356
C	inch mm	7.9 200	7.9 200
D	inch mm	16.2 412	16.2 412
E <sub>1</sub>	inch mm	1.1 28	1.1 28
E <sub>2</sub>	inch mm	1.0 26	1.1 28
F up to hook centre	inch mm	6.7 170	5.5 140
G maximum width	inch mm	8.5 215	8.5 215

<sup>1</sup>Chain containers increase the hoist headroom







## PROFI 3 TI – 20 TI

### Technical Data

Type		3 TI		6 TI		10 TI		16 TI		20 TI	
Capacity	mt	3.2		6.3		10		16		20	
Air pressure	PSI	65	85	65	85	65	85	65	85	65	85
	bar	4	6	4	6	4	6	4	6	4	6
Number of chain strands		1		2		2		3		4	
Motor output	kW	1.8	3.5	1.8	3.5	1.8	3.5	1.8	3.5	1.8	3.5
Lifting speed at full load	ft/min	8.2	16.4	3.9	8.2	2.6	5.2	1.6	3.3	1.3	2.3
	m/min	2.5	5	1.2	2.5	0.8	1.6	0.5	1	0.4	0.7
Lifting speed without load	ft/min	19.7	32.8	9.8	16.4	6.6	10.5	4.3	6.6	3.3	4.6
	m/min	6	10	3	5	2	3.2	1.3	2	1	1.4
Lowering speed at full load	ft/min	24.6	35.4	11.8	17.7	8.2	11.2	5.3	6.9	3.9	5.3
	m/min	7.5	10.8	3.6	5.4	2.5	3.4	1.6	2.1	1.2	1.6
Air consumption at full load – lifting	cfm	71	142	71	142	71	142	71	142	71	142
	m <sup>3</sup> /min	2	4	2	4	2	4	2	4	2	4
Air consumption at full load – lowering	cfm	124	195	124	195	124	195	124	195	124	195
	m <sup>3</sup> /min	3.5	5.5	3.5	5.5	3.5	5.5	3.5	5.5	3.5	5.5
Air connection		G 3/4		G 3/4		G 3/4		G 3/4		G 3/4	
Hose dimension (Ø inside)	inch	3/4		3/4		3/4		3/4		3/4	
	mm	19		19		19		19		19	
Weight with standard lift, rope control	lbs	189.6		242.5		343.9		529.1		627	
	kg	86		110		156		240		285	
Chain dimension	mm	13 x 36		13 x 36		16 x 45		16 x 45		16 x 45	
	lbs/ft	2.6		2.6		3.9		3.9		3.9	
Weight of chain	kg/m	3.8		3.8		5.8		5.8		5.8	
	ft	10		10		10		10		10	
Standard lift	m	3		3		3		3		3	
	ft	6.5		6.5		6.5		6.5		6.5	
Length of control at standard lift	m	2		2		2		2		2	
	ft	6.5		6.5		6.5		6.5		6.5	
Noise level at full load <sup>1</sup> – lifting	dB(A)	74	78	74	78	74	78	74	78	74	78
Noise level at full load <sup>1</sup> – lowering	dB(A)	79	80	79	80	79	80	79	80	79	80

<sup>1</sup>Measured at 1 m distance acc. to DIN 45635 part 20

Group mechanism at 6 bar: M3 (1 Bm)

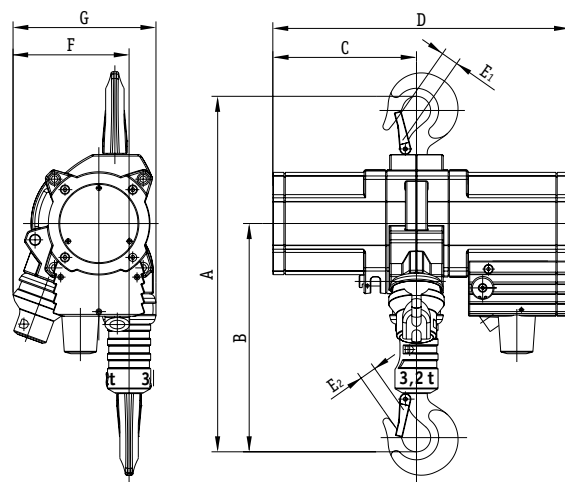


PROFI 6 TI

### Dimensions

Type		3 TI	6 TI	10 TI	16 TI	20 TI
A min. headroom <sup>1</sup>	inch	23.3	26.5	32	35.4	40.6
	mm	593	674	813	898	1030
B	inch	14.7	17.9	21.6	23.5	26.4
	mm	373	454	548	598	670
C	inch	9.2	9.2	12.1	15	15
	mm	233	233	308	382	382
D	inch	19	19	22.6	27.2	27.2
	mm	483	483	575	692	692
E <sub>1</sub>	inch	1.6	1.6	1.7	2.1	2.8
	mm	40	40	44	53	70
E <sub>2</sub>	inch	1.2	1.6	1.7	2.1	2.8
	mm	30	40	44	53	70
F up to hook centre	inch	7.4	6.1	7.8	7.8	7.1
	mm	187	154	197	199	180
G maximum width	inch	9.2	9.2	12	12.1	12.4
	mm	233	233	306	308	315

<sup>1</sup>Chain containers increase the hoist headroom



# JDN AIR HOISTS PROFI



## PROFI 25 TI – 100 TI

### Technical Data

Type		25 TI	30 TI	37 TI	40 TI	50 TI	60 TI	75 TI	100 TI
Capacity	mt	25	30	37.5	40	50	60	75	100
Air pressure	PSI bar	85 6							
Number of chain strands		2	2	3	3	4	4	3	4
Motor output	kW	6.3							9
Lifting speed at full load	ft/min m/min	4.1 1.25	3.3 1.0	2.5 0.75	2.3 0.7	1.8 0.55	1.5 0.45	1.7 0.53	1.3 0.4
Lifting speed without load	ft/min m/min	7.9 2.4	7.9 2.4	5.6 1.7	5.6 1.7	4.3 1.3	4.3 1.3	4.4 1.33	3.3 1
Lowering speed at full load	ft/min m/min	9.2 2.8	9.2 2.8	6.6 2.0	6.6 2.0	5.3 1.6	5.3 1.6	4.1 1.25	3.1 0.95
Air consumption at full load – lifting	cfm m³/min	230 6.5							268.5 7.6
Air consumption at full load – lowering	cfm m³/min	102 2.9							212 6
Air connection		G 1 1/2							
Hose dimension (Ø inside)	inch mm	1 1/2 35							
Weight with standard lift, rope control	lbs kg	1213 550	1213 550	1874 850	1874 850	2072 940	2072 940	3968 1800	4409 2000
Chain dimension	mm	23.5 x 66							32 x 90
Weight of chain	lbs/ft kg/m	8.2 12.2							14.3 21.3
Standard lift	ft m	10 3							
Length of control at standard lift	ft m	6.5 2							
Noise level at full load¹ – lifting	dB(A)	78							77
Noise level at full load¹ – lowering	dB(A)	82							83

¹Measured at 1 m distance acc. to DIN 45635 part 20

Group mechanism at 6 bar: PROFI 25 TI, 37 TI, 50 TI, 75 TI, 100 TI: M3 (1 Bm), PROFI 30 TI, 40 TI, 60 TI: M2 (1 Cm)

4 bar versions on request

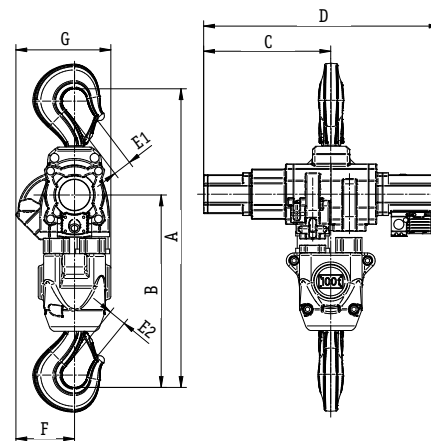
### Dimensions

Type		25 TI	30 TI	37 TI	40 TI	50 TI	60 TI	75 TI	100 TI
A min. headroom¹	inch mm	49.6 1260	49.6 1260	57.9 1470	57.9 1470	58.5 1485	58.5 1485	76 1930	76 1930
B	inch mm	32.6 827	32.6 827	36.8 935	36.8 935	37.4 950	37.4 950	49.2 1250	49.2 1250
C	inch mm	17.7 450	17.7 450	21.3 540	21.3 540	21.3 540	21.3 540	32.5 825	32.5 825
D	inch mm	35.4 900	35.4 900	42.5 1080	42.5 1080	42.5 1080	42.5 1080	60.4 1535	60.4 1535
E₁	inch mm	2.8 70	2.8 70	3.9 100	3.9 100	3.9 100	3.9 100	4.7 120	4.7 120
E₂	inch mm	2.8 70	2.8 70	3.9 100	3.9 100	3.9 100	3.9 100	4.7 120	4.7 120
F up to hook centre	inch mm	10.6 270	10.6 270	11.2 285	11.2 285	9.8 250	9.8 250	15.9 405	14.4 365
G maximum width	inch mm	17.5 445	17.5 445	17.7 450	17.7 450	16.9 430	16.9 430	23.6 600	23.6 600

¹Chain containers increase the hoist headroom



PROFI 100 TI





## Capacities: 1/2 t and 3/6 t Air pressure: 4 bar

JDN Air Hoists of the **M Series** are the specialists for underground mining operations. Due to their versatility they are nowadays also deployed in many different industrial fields. Generally they have the same features as the hoists of the PROFI series but operate with an air pressure of only 4 bar. Two different control systems are available.

### Further Significant Features as Standard:

- Suitable for use in hazardous areas with risk of explosion
- Two chain falls for alternate working
- Specially designed for horizontal moving of loads

### Technical Data

Type		M 64	M 63 D
Capacity	mt	1/2	3/6
Air pressure	PSI bar	65 4	65 4
Number of chain strands		1/2	1/2
Motor output	kW	0.77	1.3
Lifting speed at full load	ft/min m/min	9.8/4.9 3/1.5	7.2/3.6 2.2/1.1
Lifting speed without load	ft/min m/min	26.3/13.1 8/4	16.4/8.2 5/2.5
Lowering speed at full load	ft/min m/min	41/21.3 12.5/6.5	19.7/9.8 6/3
Air consumption at full load – lifting	cfm m³/min	35.3 1.0	77.7 2.2
Air consumption at full load – lowering	cfm m³/min	70.6 2.0	113 3.2
Air connection		Rd 32 x 1/8"	Rd 32 x 1/8"
Hose dimension (Ø inside)	inch / mm	0.75 / 19	0.75 / 19
Weight with standard lift	lbs / kg	132.3 / 60	220.5 / 100
Weight without chain, without control	lbs / kg	68.3 / 31	112.4 / 51
Chain dimension	mm	9 x 27	13 x 36
Weight of chain	lbs/ft kg/m	1.2 1.8	2.6 3.8
Heights of lift standard lift	ft m	16.4/8.2 5/2.5	16.4/8.2 5/2.5
Length of control at standard lift	ft / m	6.6 / 2	6.6 / 2
Noise level at full load <sup>1</sup>	dB(A)	75-84	79-83

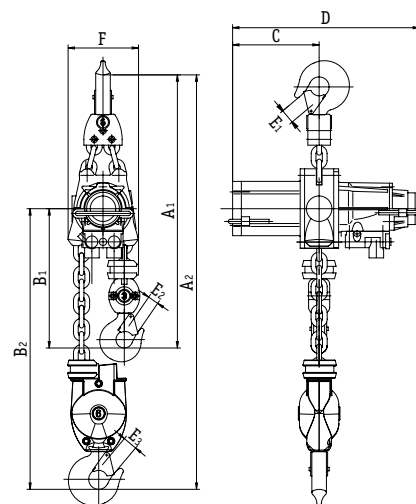
Group mechanism: M3 (1 Bm) <sup>1</sup>Measured at 1 m distance acc. to DIN 45635 part 20

### Dimensions

Type		M 64	M 63 D
A <sub>1</sub> (smallest headroom with 1/1 chain strands)	inch / mm	23.7 / 603	29.5 / 750
A <sub>2</sub> (smallest headroom with 1/2 chain strands)	inch / mm	26 / 660	34.3 / 870
B <sub>1</sub> (with 1/1 chain strands)	inch / mm	12.3 / 313	14.6 / 370
B <sub>2</sub> (with 1/2 chain strands)	inch / mm	14.6 / 370	19.3 / 490
C	inch / mm	6.9 / 175	9.33 / 237
D	inch / mm	14.8 / 375	20 / 507
E <sub>1</sub> (Hook opening)	inch / mm	1.2 / 30	1.6 / 40
E <sub>2</sub> (Hook opening)	inch / mm	1.2 / 30	1.6 / 40
E <sub>3</sub> (Hook opening)	inch / mm	1.2 / 30	1.2 / 30
F (maximum width)	inch / mm	5.7 / 144	7.7 / 195



M 63 D





## Capacities: 0.25 t up to 20 t

JDN Trolleys are available for all hoists of the PROFI and M series:

- Manual trolleys (LN) for pushing or pulling the trolleys by hand
- Reel chain trolleys (LH) for moving the trolleys by operating the reel chain mechanism
- Motorised trolley (LM) air motor powered

## Standard Features

- Easy to install
- With anti-climb and anti-drop devices
- Robust manufacture requiring little maintenance
- Able to negotiate curves

## Options

- Rack and pinion drive\*<sup>1</sup>
- Spark-resistant package\*<sup>2</sup>
- Offshore paint\*<sup>2</sup>

## Energy Feeding Systems

The air supply can be fed by various systems:

- Energy chain
- C-rail
- Square rail
- Spiral hose
- Hose trolleys



PROFI 1TI in  
Manual Trolley



PROFI 1TI in  
Reel Chain Trolley



PROFI 2TI in  
Motor Trolley

\*<sup>1</sup>From LM 3.2t upwards  
\*<sup>2</sup>Not available for LN 1t





## Technical Data

JDN Air Hoist PROFI			025 TI	05 TI	1 TI	1.5 TI	2 TI	3 TI/2	3 TI	6 TI	10 TI	16 TI	20 TI
Capacity of trolley LN	mt		1 <sup>6</sup>			2		3.2		6.3	10-16		-
Capacity of trolley LH and LM	mt		2					3.2		6.3	10-16		20
Capacity of hoist with trolley	mt		0.25	0.5	1	1.6	2	3.2		6.3	10	16	20
Weight of Manual Trolley (LN)	lbs		23.1			39.6		57.3		257.9	418.9		-
	kg		10.5			18		26		117	190		-
Weight of Reel Chain Trolley (LH)	lbs		57.3					81.6		280	485		628.3
	kg		26					37		127	220		285
Weight of Motor Trolley (LM)	lbs		57.3					72.8		273.4	485		628.3
	kg		26					33		124	220		285
Hoist weight, standard lift	lbs		59.5	59.5	61.7	123.5	75	145.5	189.6	242.5	344	529	628.3
	kg		27	27	28	56	34	66	86	110	156	240	285
Total weight with standard lift Manual Trolley	lbs		82.7	82.7	84.9	163.1	114.6	202.8	246.9	500.4	762.8	948	-
	kg		37.5	37.5	38.5	74	52	92	112	227	346	430	-
Total weight with standard lift Reel Chain Trolley	lbs		116.8	116.8	119.1	180.8	132.3	227.1	271.1	522.5	829	1014	1257
	kg		53	53	54	82	60	103	123	237	376	460	570
Total weight with standard lift Motor Trolley	lbs		116.8	116.8	119.1	180.8	132.3	218.3	262.4	515.9	829	1014	1257
	kg		53	53	54	82	60	99	119	234	376	460	570
Weight of chain	lbs/ft		0.67			1.2	0.67	1.2	2.6		3.9		
	kg/m		1			1.8	1	1.8	3.8		5.8		
Chain dimension	mm		7x21			9x27	7x21	9x27	13x36		16x45		
Number of chain strands			1			2		1	2		3	4	
Air pressure Motor Trolley	PSI		85			65-85	85	65-85		85			
	bar		6			4-6	6	4-6		6			
Air consumption Motor Trolley <sup>4</sup> (at full load)	cfm					21.2					45.9		
	m <sup>3</sup> /min					0.6					1.3		
Air consumption hoist (at full load)	cfm		53			53-92	53	53-92		194.2			
	m <sup>3</sup> /min		1.5			1.5-2.6	1.5	1.5-2.6		5.5			
Motor output Motor Trolley <sup>4</sup>	kW					0.2					0.7		
Motor output hoist	kW		1			1.3-2	1	1.3-2		3.5			
Travelling distance Reel Chain Trolley, chain reel off	33 ft 10 m	ft m				4.6					3.6		3.3
						1.4					1.1		1.0
Travelling speed Motor Trolley <sup>4</sup> (at full load)	ft/min m/min					29.5*/45.9 9*/14					16.4*/39.4 5*/12		
Hose connection Motor Trolley			G 1/2			G 3/4	G 1/2	G 3/4					
Minimum radius Manual Trolley	ft m		3.3 <sup>1</sup> 1.0 <sup>1</sup>			3.9 <sup>1</sup> 1.2 <sup>1</sup>		1.6 <sup>1</sup> 0.5 <sup>2</sup>		3.3 <sup>1</sup> 1 <sup>2</sup>			-
Minimum radius Reel Chain Trolley and Motor Trolley	ft m					1.6 <sup>2</sup> 0.5 <sup>2</sup>				3.3 <sup>2</sup> 1 <sup>2</sup>			4.9 <sup>2</sup> 1.5 <sup>2</sup>
Max. bottom flange thickness t Manual Trolley	inch mm		1.0 25			1.1 28		1.6 40		2.6 <sup>5</sup> 65 <sup>5</sup>			-
Max. bottom flange thickness t Reel Chain and Motor Trolley	inch mm					1.6 40				2.6 <sup>5</sup> 65 <sup>5</sup>			-
Max. bottom flange width b Manual Trolley	inch mm		8.7 220			12 305			12.2 310				-
Max. bottom flange width b Reel Chain and Motor Trolley	inch mm		11 280						12.2 310				-
Min. bottom flange width b Manual Trolley	inch mm		2.3 58			2.6 66		2.3 58	2.1 54	5 128			-
Min. bottom flange width b Reel Chain and Motor Trolley	inch mm		2.2 56					2.3 58	2.1 54	5 128			5.8 148
Noise level at Motor Trolley <sup>3,4</sup>	dB(A)		80										

\*1st speed of F control with two speeds

<sup>1</sup>Measured at the middle of the beam

<sup>2</sup>Measured at the inner edge of the beam

<sup>3</sup>Measured at 1m distance acc. to DIN 45635 part 20

<sup>4</sup>At 6 bar

<sup>5</sup>55 mm, if hoist is suspended

<sup>6</sup>LN 1t not available with spark-resistant package

The designation of the trolley is composed of the short code (LN, LH, LM) and the carrying capacity acc. to table, as for example LN 1t.

- Capacities over 20 t see JDN Monorail Air Hoists page 26
- Versions with one and two hooks (e.g. BBH) see page 23
- Low Headroom Trolleys for restricted headrooms see page 21

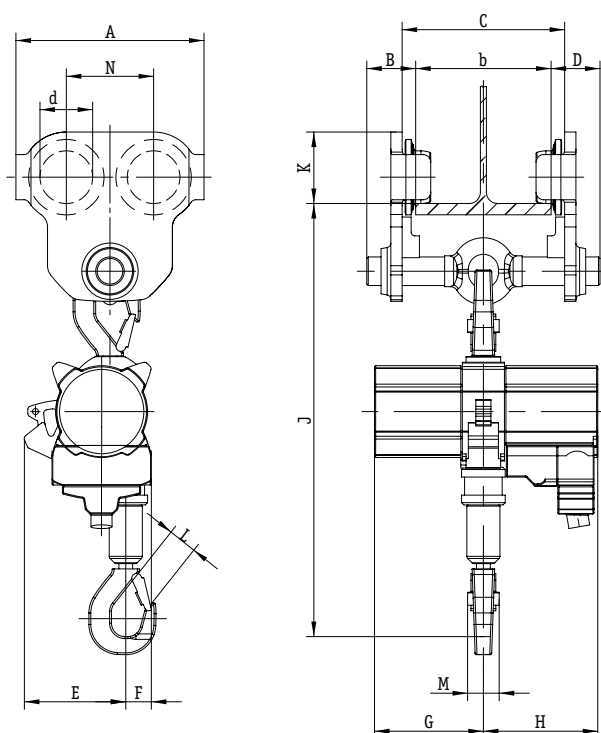


## PROFI in Manual Trolley (LN)

### Dimensions

JDN Air Hoist PROF1		025 TI		05 TI	1 TI	1.5 TI	2 TI	3 TI/2	3 TI	6 TI	10 TI	16 TI
With Trolley		LN 1 t			LN 2 t		LN 3.2 t		LN 6.3 t		LN 10-16 t	
A	inch	10.2			12.2		11.5		19.7		19.3	
	mm	260			310		292		500		490	
B max.	inch	4.8			6.4		4.5		6.2		6.4	
	mm	122			162		113		157		162	
C	inch	b + 1 b + 26			b + 2.4 b + 60			b + 2.8 b + 70				
	mm											
d	inch	2.7			3.2		3.3		6.5			
	mm	68			80		84		165			
D max.	inch	4.8			6.4		4.5		6.2		6.4	
	mm	122			162		113		157		162	
E	inch	5.4			5.7	5.4	5.5	7.4	6.1	7.8	7.8	
	mm	137			170	137	140	187	154	197	199	
F	inch	1.5			1.8	1.8	3.0	1.8	3.1	4.3		
	mm	39			45	46	75	46	79	109		
G	inch	5.7			7.9	5.7	7.9	9.2		12.1		15
	mm	145			200	145	200	233		308		382
H	inch	6			3.3	6	3.3	9.8		10.5		12.2
	mm	152			212	152	212	250		267		310
J* (mounted)	inch	–	–	–	–	–	24.1	25	30	37	39	
	mm	–	–	–	–	–	613	635	763	929	982	
J* (suspended)	inch	20.9			23.1	23.5	–	31.4	36.2	46.3	49.6	
	mm	530			588	597	–	798	919	1176	1260	
K	inch	2.7		3.2	3.7		4.2		7.4			
	mm	67.5			94		107		188			
L	inch	1.1			1.0	1.1		1.2	1.6	1.7	2.1	
	mm	28			26	28		30	40	44	53	
M	inch	1.7			1.6	1.7		2		2.6	3.2	
	mm	42			40	42		51		66	82	
N	inch	5.1			5.9		5.4		9.3			
	mm	130			150		136		236			

\*Chain containers increase the hoist headroom



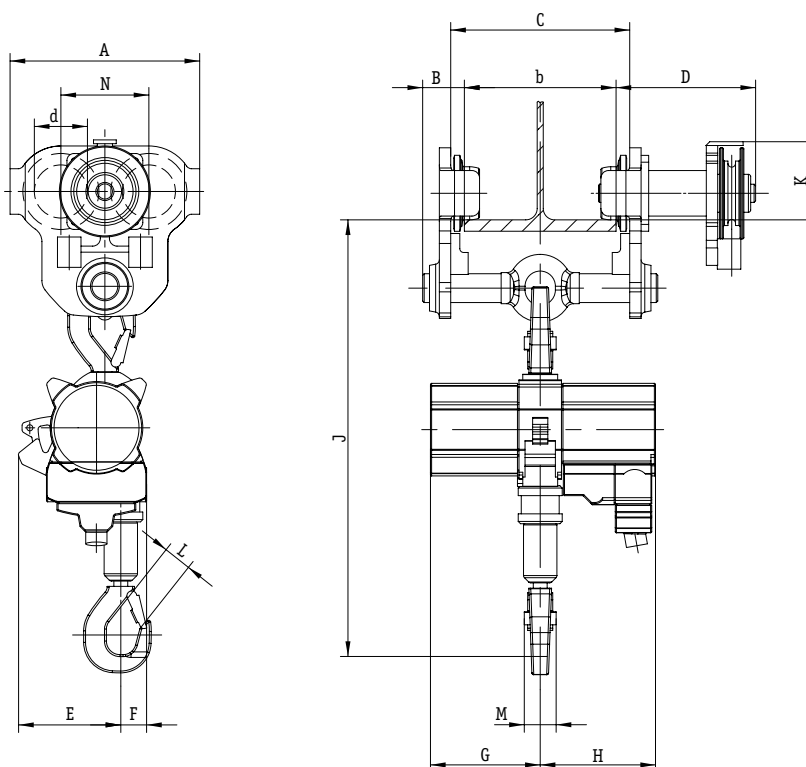


## PROFI in Reel Chain Trolley (LH)

### Dimensions

JDN Air Hoist PROFI		025 TI		05 TI	1 TI	1.5 TI	2 TI	3 TI/2		3 TI	6 TI	10 TI		16 TI	20 TI
With Trolley		LH 2 t						LH 3.2 t		LH 6.3 t		LH 10-16 t		LH 20 t	
A	inch mm	9.8 250						11.5 292		19.7 500		19.3 490		23.6 600	
B max.	inch mm	5.1 130						4.4 113		6.2 157		6.4 162		5.2 132	
C	inch mm	b + 1.4 b + 36						b + 2.4 b + 60				b + 2.8 b + 70		b + 2.7 b + 68	
d	inch mm	2.8 70						3.3 84				6.5 165		7.3 185	
D	inch mm	7.2 184			11.2 284	7.2 184	11.6 294	11.6 294	12.1 307			12.6 320		12.6 320	
E	inch mm	5.4 137			6.7 170	5.4 137	5.5 140	7.4 187	6.1 154	7.8 197		7.8 199	7.1 180		
F	inch mm	1.5 39			1.7 45	1.8 46	3.0 75	1.8 46	3.1 79			4.3 109		5.3 135	
G	inch mm	5.7 145			7.9 200	5.7 145	7.9 200	9.2 233		12.1 308		15 382			
H	inch mm	6 152			3.3 212	6 152	3.3 212	9.8 250		10.5 267		12.2 310			
J* (mounted)	inch mm	- -	- -	- -	- -	- -	24.1 613	25 635	30 763	37 929		39 982	44.3 1125		
J* (suspended)	inch mm	22.2 563			23.7 602	24.1 611	- -	31.4 798	36.2 919	46.3 1176		46.1 1171	58.1 1475		
K	inch mm	4.1 103					4.4 110				8.5 215		8.9 226		
L	inch mm	1.1 28			1.0 26	1.1 28		1.2 30	1.6 40	1.7 44	2.1 53	2.9 75			
M	inch mm	1.7 42			1.6 40	1.7 42		2 51		2.6 66	3.2 82	3.4 86			
N	inch mm	4.6 116					5.4 136				9.3 236		10.8 274		

\*Chain containers increase the hoist headroom



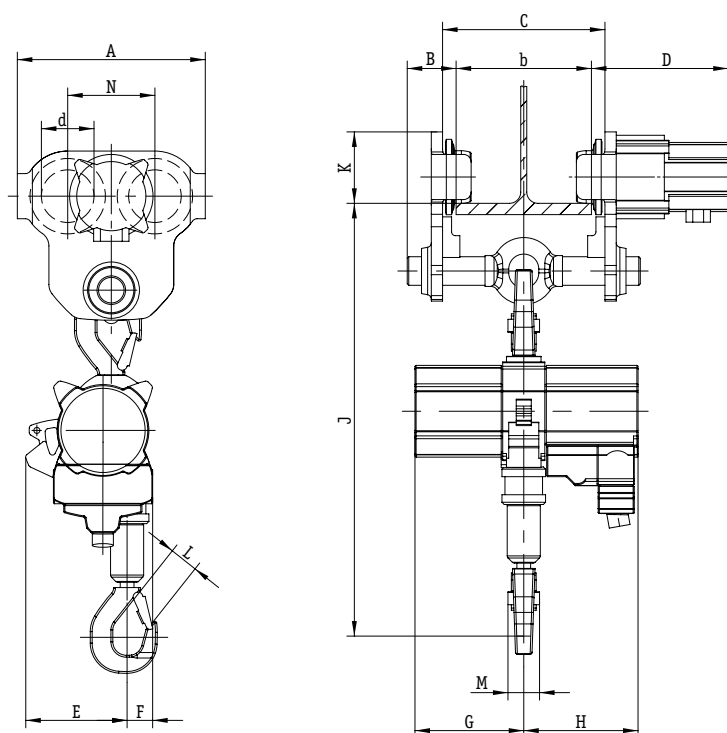


## PROFI in Motor Trolley (LM)

### Dimensions

JDN Air Hoist PROFI		025 TI	05 TI	1 TI	1.5 TI	2 TI	3 TI/2	3 TI	6 TI	10 TI	16 TI	20 TI
With Trolley				LM 2 t				LM 3.2 t	LM 6.3 t	LM 10-16 t		LM 20 t
A	inch			9.8				11.5	19.7	19.3		23.6
	mm			250				292	500	490		600
B max.	inch			5.1				4.4	6.2	6.4		5.3
	mm			130				113	157	162		134
C	inch			b + 1.4				b + 2.4		b + 2.8		b + 2.7
	mm			b + 36				b + 60		b + 70		b + 68
d	inch			2.8				3.3		6.5		7.3
	mm			70				84		165		185
D	inch		7.3		7.3	7.3		7.5	8.1	12.5		12.9
	mm		185		185	185		191	205	318		328
E	inch		5.4		6.7	5.4	5.5	7.4	6.1	7.8	7.8	7.1
	mm		137		170	137	140	187	154	197	199	180
F	inch		1.5		1.7	1.8	3.0	1.8	3.1	4.3		5.3
	mm		39		45	46	75	46	79	109		135
G	inch		5.7		7.9	5.7	7.9		9.2	12.1		15
	mm		145		200	145	200		233	308		382
H	inch		6		3.3	6	3.3		9.8	10.5		12.2
	mm		152		212	152	212		250	267		310
J* (mounted)	inch	-	-	-	-	-	24.1	25	30	37	39	44.3
	mm	-	-	-	-	-	613	635	763	929	982	1125
J* (suspended)	inch		22.2		23.7	24.1	-	31.4	36.2	46.3	46.1	58.1
	mm		563		602	611	-	798	919	1176	1171	1475
K	inch			3.7				4.2		7.4		8.6
	mm			95				107		188		218
L	inch		1.1		1.0	1.1		1.2	1.6	1.7	2.1	2.9
	mm		28		26	28		30	40	42	55	75
M	inch		1.7		1.6		1.7		2	2.6	3.2	3.4
	mm		42		40		42		51	66	82	86
N	inch			4.6				5.4		9.3		10.8
	mm			116				136		236		274

\*Chain containers increase the hoist headroom





# JDN LOW HEADROOM TROLLEYS



## The trolley solution for restricted headroom areas. Capacities: 0.5 t up to 6.3 t

Where headroom is restricted and standard trolleys can't meet the lifting height requirements we recommend **JDN Low Headroom Trolleys** whereby our air hoists are mounted horizontally. When only very low headroom is available we recommend JDN Ultra-Low Monorail Hoist design.

### Standard Features

- Small number of maintenance/wear free moving parts
- No additional motor lubrication required
- 2-step travelling speed
- Adjustable trolley widths to suit your requirements

### Special Features

- Able to negotiate curves
- Extended trolley tie bars for bulky or elongated loads

### Technical Data

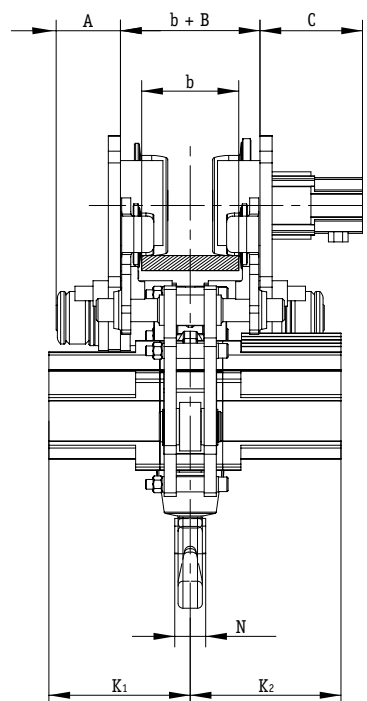
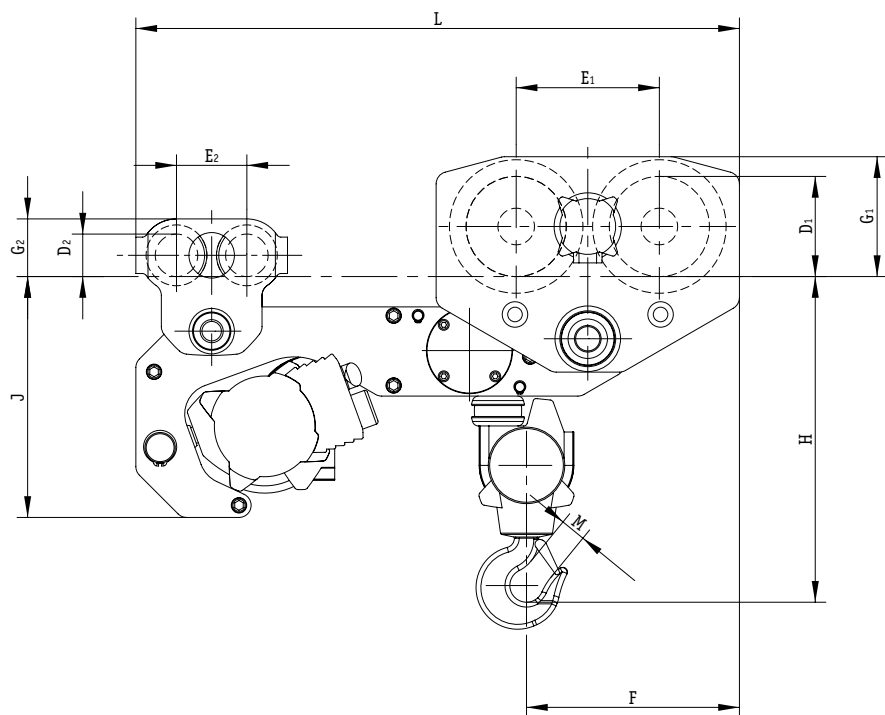
Hoist Type		PROFI 05 TI	PROFI 1 TI	PROFI 2 TI	PROFI 3 TI	PROFI 6 TI
Trolley Type		LMF 05-2 t	LMF 05-2 t	LMF 05-2 t	LMF 3.2 t	LMF 6.3 t
Capacity	mt	0.5	1	2	3.2	6.3
Air pressure	PSI bar	85 6	85 6	85 6	85 6	85 6
Number of chain strands		1	1	2	1	2
Motor output Hoist	kW	1	1	1	3.5	3.5
Motor output Trolley	kW	0.2	0.2	0.2	0.2	0.2
Lifting speed at full load	ft/min m/min	32.81 10	16.40 5	8.20 2.5	14.76 4.5	7.21 2.2
Lifting speed without load	ft/min m/min	55.77 17	32.81 10	16.40 5	29.52 9	14.76 4.5
Lowering speed at full load	ft/min m/min	55.77 17	36.09 11	18.04 5.5	35.43 10.8	17.72 5.4
Travelling speed at full load	ft/min m/min	29.53*/45.93 9*/14	29.53*/45.93 9*/14	29.53*/45.93 9*/14	29.53*/45.93 9*/14	29.53*/45.93 9*/14
Air consumption at full load – lifting	cfm m³/min	42.38 1.2	42.38 1.2	42.38 1.2	141.26 4	141.26 4
Air consumption at full load – lowering	cfm m³/min	52.97 1.5	52.97 1.5	52.97 1.5	194.23 5.5	194.23 5.5
Air consumption trolley motor	cfm m³/min	21.19 0.6	21.19 0.6	21.19 0.6	21.19 0.6	21.19 0.6
Air connection		G 1/2	G 1/2	G 1/2	G 3/4	G 3/4
Hose dimension (Ø inside)	inch mm	1/2 13	1/2 13	1/2 13	3/4 19	3/4 19
Weight with standard lift and control	lbs kg	216.05 98	218.26 99	231.59 105	462.97 210	727.53 330
Chain dimension	inch mm	0.28 x 0.83 7 x 21	0.28 x 0.83 7 x 21	0.28 x 0.83 7 x 21	0.51 x 1.42 13 x 36	0.51 x 1.42 13 x 36
Weight of chain	lbs/ft kg/m	0.67 1	0.67 1	0.67 1	2.6 3.8	2.6 3.8
Standard lift	ft m	10 3	10 3	10 3	10 3	10 3
Length of control at standard lift	ft m	6.5 2	6.5 2	6.5 2	6.5 2	6.5 2
Max. bottom flange thickness t	inch mm	0.98 25	0.98 25	0.98 25	1.38 35	1.38 35
Max. bottom flange width b	inch mm	12.20 310	12.20 310	12.20 310	12.20 310	12.20 310
Min. bottom flange width b	inch mm	3.15 80	3.15 80	3.15 80	4.92 125	4.92 125
Noise level at full load¹ – lifting	dB(A)	75	76	76	78	78
Noise level at full load¹ – lowering	dB(A)	78	78	78	80	80

\*1st step at F-control with 2-step travelling speed, ¹Measured at 1m distance acc. to DIN 45635 part 20



Low Headroom Trolley  
LMF

# JDN LOW HEADROOM TROLLEYS



## Dimensions

Hoist Type		PROFI 05 TI	PROFI 1 TI	PROFI 2 TI	PROFI 3 TI	PROFI 6 TI
Trolley Type		LMF 05-2 t	LMF 05-2 t	LMF 05-2 t	LMF 3.2 t	LMF 6.3 t
A max.	inch mm	4.13 105	4.13 105	4.13 105	4.13 105	4.17 106
B	inch mm	1.42 36	1.42 36	1.42 36	1.42 36	2.76 70
b min.	inch mm	3.15 80	3.15 80	3.15 80	3.15 80	4.92 125
C	inch mm	6.46 164	6.46 164	6.46 164	6.46 164	6.65 169
D <sub>1</sub>	inch mm	2.76 70	2.76 70	2.76 70	2.76 70	6.50 165
D <sub>2</sub>	inch mm	2.76 70	2.76 70	2.76 70	2.76 70	2.76 70
E <sub>1</sub>	inch mm	4.57 116	4.57 116	4.57 116	4.57 116	9.29 236
E <sub>2</sub>	inch mm	4.57 116	4.57 116	4.57 116	4.57 116	4.57 116
F	inch mm	6.77 172	6.77 172	7.68 195	8.98 228	13.82 351
G <sub>1</sub>	inch mm	3.74 95	3.74 95	3.74 95	3.74 95	7.76 197
G <sub>2</sub>	inch mm	3.74 95	3.74 95	3.74 95	3.74 95	3.74 95
H min.	inch mm	12.60 320	12.60 320	15.51 394	16.34 415	21.14 537
J	inch mm	12.60 320	12.60 320	12.60 320	15.63 397	15.63 397
K <sub>1</sub>	inch mm	5.71 145	5.71 145	5.71 145	9.17 233	9.17 233
K <sub>2</sub>	inch mm	5.98 152	5.98 152	5.98 152	9.76 248	9.76 248
L	inch mm	28.15 715	28.15 715	28.15 715	32.48 825	39.17 995
M	inch mm	1.10 28	1.10 28	1.10 28	1.18 30	1.57 40
N	inch mm	1.65 42	1.65 42	1.65 42	1.65 42	2.01 51
t max.	inch mm	0.98 25	0.98 25	0.98 25	1.38 35	1.38 35



## BBH 1000 and BBH 2000

### JDN Big Bag Handling Air Hoists

For big bag handling J.D. Neuhaus offers innovative design solutions to meet the special requirements of these applications.

**JDN Big Bag Handling Air Hoists** are available in capacities of 1100 kg and 2200 kg with an air pressure of 6 bar.

### Designs with one or two load hooks

With one load hook for standard cruciform lifting beam designs. The extended distance between the hook and the chain box is particularly advantageous. This guarantees that there is no risk of collision between the load and the chain box.

With twin load hooks for more complex cruciform lifting beam designs or for standard lifting beam designs with two suspension points.

### The advantages at a glance

- Particularly suited for use as big bag handling hoists and for the movement of all kinds of bulky loads due to the low headroom design.
- Compact, modern design.
- Suitable for use as a synchronised hoist in twin-hook design.
- The use of JDN standard components guarantees reliable operation and cost effective manufacture.
- No additional motor lubrication required.
- Small number of maintenance/wear free moving parts.

- Chain box included as standard.
- Suitable for a wide variety of beam sizes/profiles, with hook centres to suit your requirements.

### Take advantage of the driving medium air:

- Suitable for use as standard in areas at risk of explosion. Explosion protection classification according to Directive 94/9/EG (Equipment and Protective Systems Intended for use in Potentially Explosive Areas (ATEX)).

The hoists are available for the following explosion protection classifications:

Ex II 2 GD IIA T4/II 3 GD IIB T4

Ex II 2 GD IIB T4 or II 2 GD IIC T4.

- 100% duty rating, and thus no downtimes.



BBH 1000-2

# JDN BIG BAG HANDLING AIR HOISTS



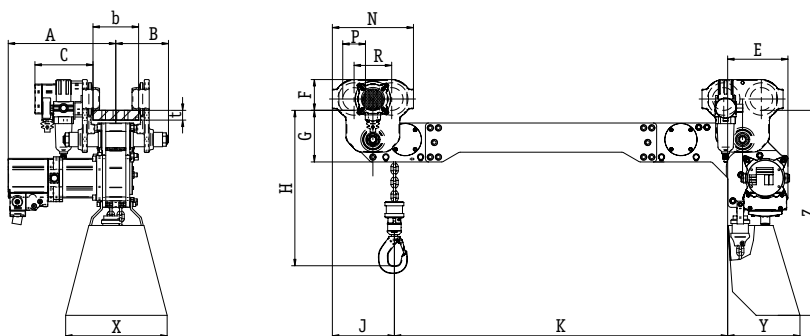
## Technical Data

Type		BBH 1000-1	BBH 2000-1
Capacity	mt	1.1	2.2
Air pressure	PSI bar	85 6	
Number of hooks		1	
Number of chain strands		1	2
Motor output hoist	kW	0.7	
Motor output trolley	kW	0.2	
Lifting speed at full load	ft/min m/min	12.14 3.7	5.58 1.7
Lifting speed without load	ft/min m/min	24.61 7.5	11.48 3.5
Lowering speed at full load	ft/min m/min	32.81 10	16.40 5
Air consumption at full load – lifting	cfm m <sup>3</sup> /min	49.44 1.4	
Air consumption at full load – lowering	cfm m <sup>3</sup> /min	42.38 1.2	
Air consumption at full load – trolley	cfm m <sup>3</sup> /min	21.19 0.6	
Air connection		G 1/2	
Hose dimension (Ø inside)	inch mm	1/2 13	
Weight at standard lift and minimum k dimension	lbs kg	286.60 130	302.03 137
Chain dimension	mm	7 x 21	
Weight of chain	lbs/ft kg/m	0.67 1	
Standard lift	ft m	10 3	
Length of control at standard load – lift	ft m	6.5 2	
Noise level at full load <sup>1</sup> – lifting	dB(A)	76	
Noise level at full load <sup>1</sup> – lowering	dB(A)	78	
Noise level at full load <sup>1</sup> – trolley	dB(A)	80	

## Dimensions

Type		BBH 1000-1	BBH 2000-1
A	inch mm	13.1 332	
B	inch mm	6.4 163	8.7 220
b min.	inch mm	3.54 90	
b max.	inch mm	12.20 310	
C	inch mm	7.17 182	
E	inch mm	7.68 195	
F	inch mm	3.7 95	
G	inch mm	6.3 159	
H	inch mm	15.3 388	17.24 438
J	inch mm	7.56 192	8.66 220
K min.	inch mm	17.13 435	16.14 410
K max.	inch mm	43.31 1100	
L	inch mm	– –	
M	inch mm	1.10 28	
N	inch mm	9.84 250	
P	inch mm	2.76 70	
R	inch mm	4.57 116	
t max.	inch mm	1.18 30	

Group mechanism: M4 (1 Am) - <sup>1</sup>Measured at 1 m distance acc. to DIN 45635 part 20







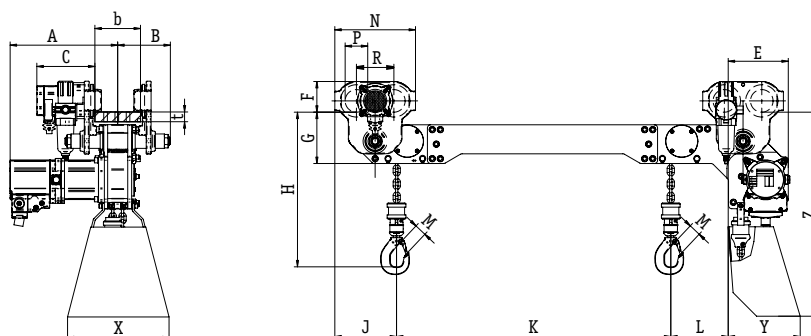
## Technical Data

Type		BBH 1000-2	BBH 2000-2
Capacity	mt	1.1	2.2
Air pressure	PSI bar	85 6	
Number of hooks		2	
Number of chain strands		2	4
Motor output hoist	kW	0.7	
Motor output trolley	kW	0.2	
Lifting speed at full load	ft/min m/min	12.14 3.7	5.58 1.7
Lifting speed without load	ft/min m/min	24.61 7.5	11.48 3.5
Lowering speed at full load	ft/min m/min	32.81 10	16.40 5
Air consumption at full load – lifting	cfm m <sup>3</sup> /min		49.44 1.4
Air consumption at full load – lowering	cfm m <sup>3</sup> /min		42.38 1.2
Air consumption at full load – trolley	cfm m <sup>3</sup> /min		21.19 0.6
Air connection			G 1/2
Hose dimension (Ø inside)	inch mm		1/2 13
Weight at standard lift and minimum k dimension	lbs kg	302.03 137	328.49 149
Chain dimension	mm		7 x 21
Weight of chain	lbs/ft kg/m		0.67 1
Standard lift	ft m		10 3
Length of control at standard load – lift	ft m		6.5 2
Noise level at full load <sup>1</sup> – lifting	dB(A)		76
Noise level at full load <sup>1</sup> – lowering	dB(A)		78
Noise level at full load <sup>1</sup> – trolley	dB(A)		80

## Dimensions

Type		BBH 1000-2	BBH 2000-2
A	inch mm	3.1 332	
B	inch mm	6.4 163	8.7 220
b min.	inch mm	3.54 90	
b max.	inch mm	12.20 310	
C	inch mm	7.17 182	
E	inch mm	14.69 373	13.62 346
F	inch mm	3.74 95	
G	inch mm	6.26 159	
H	inch mm	15.3 388	17.24 438
J	inch mm	7.56 192	8.66 220
K min.	inch mm	10.24 260	
K max.	inch mm	51.18 1300	
L	inch mm	6.89 175	5.91 150
M	inch mm	1.10 28	
N	inch mm	9.84 250	
P	inch mm	2.76 70	
R	inch mm	4.57 116	
t max.	inch mm	1.18 30	

Group mechanism: M4 (1 Am) · <sup>1</sup>Measured at 1 m distance acc. to DIN 45635 part 20





## Capacities: 10 t up to 115 t per unit

**JDN Monorail Hoists** are available with air or hydraulic drive for the offshore industry, or wherever heavy loads have to be moved in reduced spaces. Depending on the application JDN Monorail Hoists can be used in tandem. For example: Working in parallel for BOP handling systems. Working in tandem and connected by a tie bar for handling grinding rollers in the cement industry.

## Standard Features

- Ideally suited for working in hazardous areas (explosion risk)
- Insensitive to humidity, dust and temperatures from -20°C up to +70°C.
- Low headroom, compact design
- Low air consumption
- World wide service

## Technical Details

- Instant starting vane motor requiring low maintenance
- Fail safe disc brake immediately holds load safely in the event of interruption of air supply
- All gearbox components made of tempered or hardened high-grade steel
- Anti-climb and anti-drop devices
- Lateral guiding plates
- Pendant control unit with emergency shut-off valve

## Accessories

- Increased spark protection
- Rack and pinion drive
- Overload protection
- Two speed trolley travel control
- Filter silencer

Third party acceptance by DNV, ABS or Lloyds Register of shipping etc, available on request.

## Special executions

If you cannot find the correct hoisting system to suit your application in our standard programme then Non standard designs to suit your particular application are our speciality.



EH 100



EH 20



EH 25

## Technical Data

Type		EH 10	EH 16	EH 20	EH 25	EH 30	EH 37	EH 40	EH 50	EH 60
Capacity	mt	10	16	20	25	30	37.5	40	50	60
Air pressure	PSI	85	85	85	85	85	85	85	85	85
	bar	6	6	6	6	6	6	6	6	6
Number of chain strands		2	3	4	2	2	3	3	4	4
Motor output trolley	kW	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
Motor output hoist	kW	3.5	3.5	3.5	6.3	6.3	6.3	6.3	6.3	6.3
Lifting speed at full load	ft/m	5.3	3.3	2.3	4.1	3.3	2.5	2.3	1.8	1.5
	m/min	1.6	1.0	0.7	1.25	1.0	0.75	0.7	0.55	0.45
Lifting speed without load	ft/m	10.5	6.6	4.6	7.9	7.9	5.6	5.6	4.3	4.3
	m/min	3.2	2.0	1.4	2.4	2.4	1.7	1.7	1.3	1.3
Lowering speed at full load	ft/m	11.2	6.9	5.3	9.2	9.2	6.6	6.6	5.3	5.3
	m/min	3.4	2.1	1.6	2.8	2.8	2.0	2.0	1.6	1.6
Travelling speed at full load	ft/m	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
	m/min	12	12	12	12	12	12	12	12	12
Travelling speed without load	ft/m	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
	m/min	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Air consumption – trolley	cfm	46	46	46	92	92	92	92	92	92
	m <sup>3</sup> /min	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6
Air consumption – hoist lifting	cfm	141.5	141.5	141.5	229.6	229.6	229.6	229.6	229.6	229.6
	m <sup>3</sup> /min	4	4	4	6.5	6.5	6.5	6.5	6.5	6.5
Air connection		G <sup>3</sup> / <sub>4</sub>	G <sup>3</sup> / <sub>4</sub>	G <sup>3</sup> / <sub>4</sub>	G <sup>1 1</sup> / <sub>2</sub>	G <sup>1 1</sup> / <sub>2</sub>	G <sup>1 1</sup> / <sub>2</sub>	G <sup>1 1</sup> / <sub>2</sub>	G <sup>1 1</sup> / <sub>2</sub>	G <sup>1 1</sup> / <sub>2</sub>
Hose dimension(Ø inside)	inch	<sup>3</sup> / <sub>4</sub>	<sup>3</sup> / <sub>4</sub>	<sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>
	mm	19	19	19	35	35	35	35	35	35
Weight with standard lift	lbs	992.1	1267.7	1366.3	2205	2205	3307	3307	3638	3638
	kg	450	575	620	1000	1000	1500	1500	1650	1650
Chain dimension	mm	16 x 45	16 x 45	16 x 45	23.5 x 66	23.5 x 66	23.5 x 66	23.5 x 66	23.5 x 66	23.5 x 66
Weight of chain	lbs/ft	3.9	3.9	3.9	8.2	8.2	8.2	8.2	8.2	8.2
	kg/m	5.8	5.8	5.8	12.2	12.2	12.2	12.2	12.2	12.2
Standard lift	ft	10	10	10	10	10	10	10	10	10
	m	3	3	3	3	3	3	3	3	3
Length of control at standard lift	ft	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	m	2	2	2	2	2	2	2	2	2
Noise level at full load <sup>1</sup> with standard silencer – lifting	dB(A)	78	78	80	78	78	78	78	78	78
Noise level at full load <sup>1</sup> with standard silencer – lowering	dB(A)	80	80	84	82	82	82	82	82	82

<sup>1</sup>Measured at 1m distance acc. to DIN 45635 part 20, Group mechanism: EH10, EH16, EH20, EH25, EH37, EH50: M3 (1 Bm), EH30, EH40, EH60: M2 (1 Cm)  
4 bar versions on request

# JDN MONORAIL AIR HOISTS



Two versions, for each of the 75 and 100 tonne lifting capacity products in the EH range are now available in both double trolley as well as the previously available 4 trolley traverse drive versions. The new

twin trolley drive versions, which offer more compact units for operation where limited space is available, are designated as EH 75C and EH 100C.

## Technical Data

Type		EH 75	EH 100	EH 75 C	EH 100 C
Capacity	mt	75	100	75	100
Air pressure	PSI bar	85 6		85 6	
Number of trolleys		4		2	
Number of chain strands		3	4	3	4
Motor output trolley	kW	2.8		1.4	2.8
Motor output hoist	kW	9		9	
Lifting speed at full load	ft/min m/min	1.7 0.53	1.3 0.4	1.7 0.53	1.3 0.4
Lifting speed without load	ft/min m/min	4.4 1.33	3.3 1	4.4 1.33	3.3 1
Lowering speed at full load	ft/min m/min	4.1 1.25	3.1 0.95	4.1 1.25	3.1 0.95
Travelling speed at full load	ft/min m/min	23 7		23 7	
Travelling speed without load	ft/min m/min	26.3 8		26.3 8	
Air consumption trolley	cfm m³/min	184 5.2		92 2.6	184 5.2
Air consumption hoist – lifting	cfm m³/min	283 8		283 8	
Air consumption hoist – lowering	cfm m³/min	212 6		212 6	
Air connection		G 1 1/2		G 1 1/2	
Hose dimension (Ø inside)	inch mm	1 1/2 35		1 1/2 35	
Weight with standard lift	lbs kg	8267 3750	11244 5100	7496 3400	10472 4750
Chain dimension	mm	32 x 90		32 x 90	
Weight of chain	lbs/ft kg/m	14.3 21.3		14.3 21.3	
Standard lift	ft m	10 3		10 3	
Length of control at standard lift	ft m	6.5 2		6.5 2	
Noise level at full load¹ – lifting	dB(A)	77		77	
Noise level at full load¹ – lowering	dB(A)	83		83	

¹Measured at 1 m distance acc. to DIN 45635 part 20  
Group mechanism: EH 75, EH 100: M3 (1 Bm)



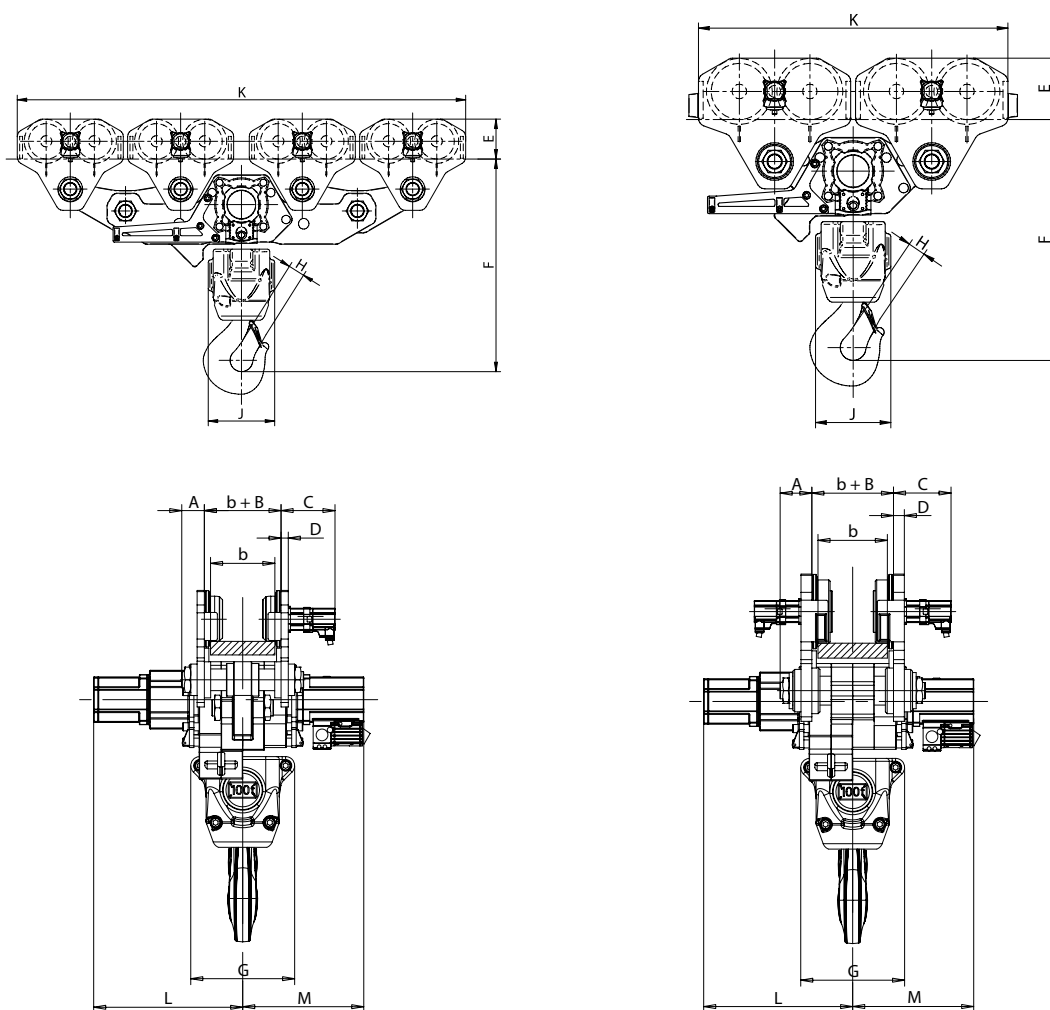


## Dimensions

Type		EH 10	EH 16	EH 20	EH 25	EH 30	EH 37	EH 40	EH 50	EH 60	EH 75	EH 100	EH 75 C	EH 100 C
A	inch	4.1	5.1	5.1	3.5-6.8 <sup>1</sup>				4.9	4.9	3.9	4.9	4.9	6.9
	mm	105	130	130	90-172 <sup>1</sup>				125	125	100	125	125	176
B	inch	2.8	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	mm	70	68	68	70	70	68	68	68	68	68	68	68	68
C	inch	11.2	11.6	11.6	11.6	11.6	11.6	11.6	11.8	11.8	11.6	11.8	11.8	12.6
	mm	285	295	295	295	295	295	295	300	300	295	300	300	320
D	inch	0.9	1.4	1.4	0.9	1.4	1.4	1.4	1.6	1.6	1.4	1.6	1.6	2.4
	mm	25	35	35	25	35	35	35	40	40	35	40	40	60
E	inch	7.8	8.7	8.7	7.4	7.4	8.6	8.6	11.1	11.1	8.6	11.1	11.1	15
	mm	198	220	220	188	188	218	218	283	283	218	282	282	382
F*	inch	27.8	29.5	32.3	39.3	39.3	43.0	43.0	44.9	44.9	59.2	59.2	59.2	59.2
	mm	705	750	820	998	998	1090	1090	1140	1140	1500	1500	1500	1500
G	inch	5.4	8.4	7.9	6.7	6.7	12.6	12.6	16.5	16.5	18.9	22.6	18.9	22.6
	mm	138	213	200	170	170	320	320	420	420	480	575	480	575
H	inch	1.7	2	2.8	2.8	2.8	3.9	3.9	3.9	3.9	4.7	4.7	4.7	4.7
	mm	44	53	70	70	70	100	100	100	100	120	120	120	120
J	inch	7.6	7.3	10.5	13.8	13.8	13.0	13.0	13.4	13.4	17.9	18.5	17.9	18.5
	mm	192	185	266	350	350	330	330	340	340	455	470	455	470
K	inch	22.8	23.6	23.6	43.3	43.3	55.1	55.1	61.0	61.0	118.9	124.8	68.90	75.98
	mm	580	600	600	1100	1100	1400	1400	1550	1550	3020	3170	1750	1930
L	inch	12.1	14.5	14.5	17.7	17.7	21.3	21.3	21.3	21.3	32.5	32.5	32.5	32.5
	mm	308	367	367	450	450	540	540	540	540	825	825	825	825
M	inch	10.5	12.8	12.8	17.7	17.7	21.3	21.3	21.3	21.3	27.8	27.8	23.4	27.8
	mm	266	325	325	450	450	540	540	540	540	706	706	670	706

<sup>1</sup>Depending on beam width

\*Chain containers increase the hoist headroom



# JDN ULTRA-LOW MONORAIL HOISTS

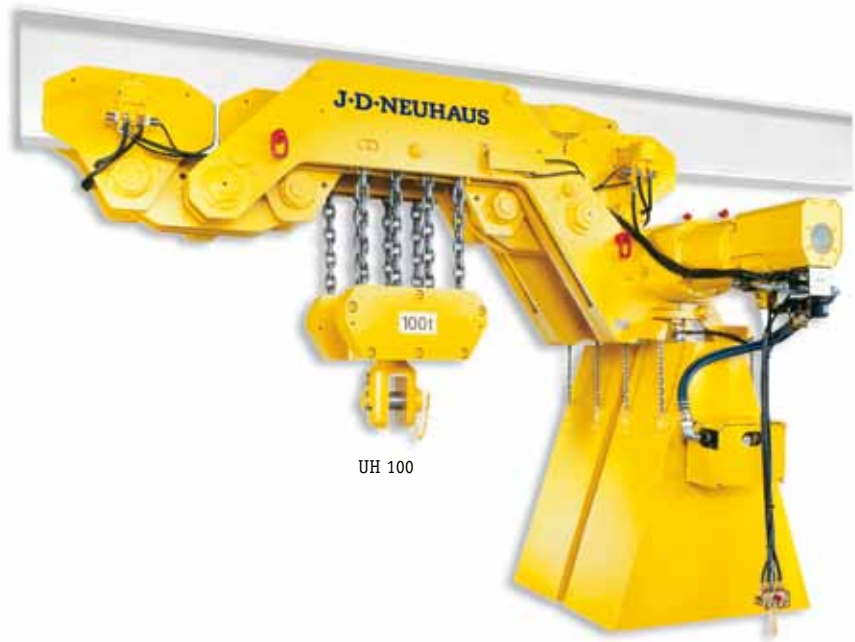


**Capacities:**  
**4 t up to 100 t**  
**Air pressure: 6 bar**

Where loads have to be lifted and transported in extremely reduced spaces the **JDN Ultra-Low Monorail Hoists** provide the ideal solution. For example the Ultra-Low Monorail Hoist with a load capacity of 6 t has a headroom of only 230 mm.

## Standard Features

- Ideally suited for working in hazardous areas (explosion risk)
- Insensitive to humidity, dust and temperatures from -20°C up to +70°C
- Extremely low headroom
- Low air consumption
- Available with increased spark protection



UH 100

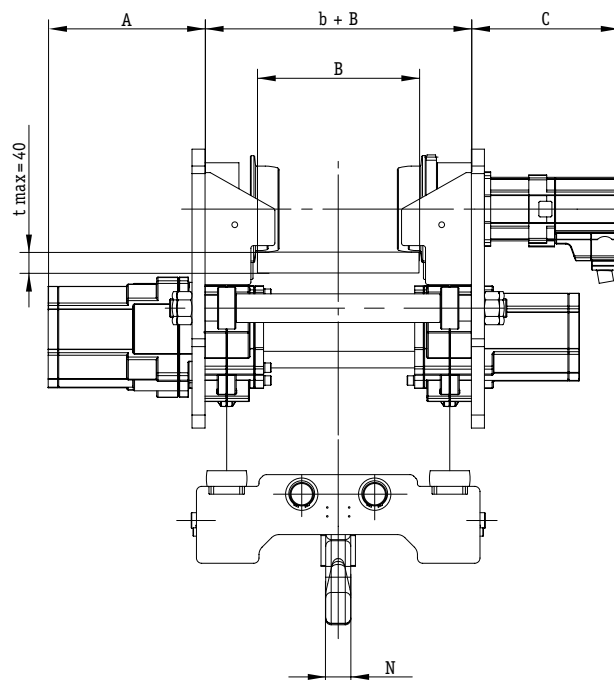
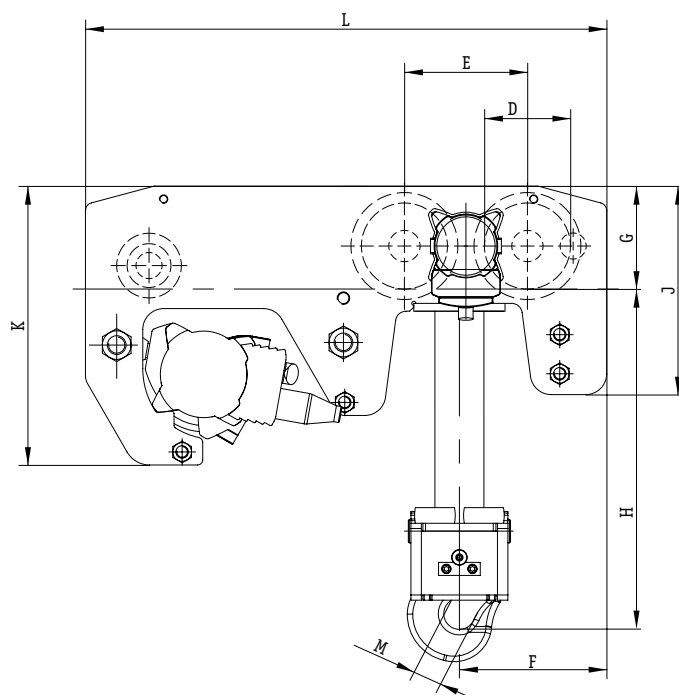
## Technical Data

Type		UH 4	UH 6	UH 8	UH 12	UH 16
Capacity	mt	4	6	8	12	16
Air pressure	PSI	85	85	85	85	85
	bar	6	6	6	6	6
Number of chain strands		2	2	4	4	4
Motor output	kW	2.5	2.5	2.5	2.5	2.5
Lifting speed at full load	ft/min	9.84	6.56	4.59	2.95	2.13
	m/min	3.0	2.0	1.4	0.9	0.65
Lifting speed without load	ft/min	19.69	14.76	9.51	7.22	3.94
	m/min	6.0	4.5	2.9	2.2	1.2
Lowering speed at full load	ft/min	24.61	17.06	11.81	8.20	4.92
	m/min	7.5	5.2	3.6	2.5	1.5
Air consumption at full load – lifting	cfm	141.26	141.26	141.26	141.26	141.26
	m <sup>3</sup> /min	4.0	4.0	4.0	4.0	4.0
Air consumption at full load – lowering	cfm	194.23	194.23	194.23	194.23	194.23
	m <sup>3</sup> /min	5.5	5.5	5.5	5.5	5.5
Air connection		G 3/4	G 3/4	G 3/4	G 3/4	G 3/4
Hose dimension (Ø inside)	inch	3/4	3/4	3/4	3/4	3/4
	mm	19	19	19	19	19
Weight with standard lift	lbs	1014.13	1036.17	1190.50	1212.54	1234.60
	kg	460	470	540	550	560
Chain dimension	mm	13 x 36	13 x 36	13 x 36	13 x 36	13 x 36
Weight of chain	lbs/ft	2.6	2.6	2.6	2.6	2.6
	kg/m	3.8	3.8	3.8	3.8	3.8
Standard lift	ft	10	10	10	10	10
	m	3	3	3	3	3
Length of control at standard lift	ft	6.5	6.5	6.5	6.5	6.5
	m	2	2	2	2	2
Noise level at full load <sup>1</sup> – lifting	dB(A)	78	78	78	78	78
Noise level at full load <sup>1</sup> – lowering	dB(A)	80	80	80	80	80

<sup>1</sup>Measured at 1m distance acc. to DIN 45635 part 20

Group mechanism: M3 (1 Bm)

Technical data for higher capacities on request.



## Dimensions

Type		UH 4	UH 6	UH 8	UH 12	UH 16
A	inch	7.68	12.01	7.68	12.01	12.01
	mm	195	305	195	305	305
B	inch	7.87	7.87	7.87	7.87	7.87
	mm	200	200	200	200	200
C	inch	11.16	11.16	11.16	11.16	11.16
	mm	284	284	284	284	284
D	inch	6.50	6.50	6.50	6.50	6.50
	mm	165	165	165	165	165
E	inch	9.29	9.29	9.29	9.29	9.29
	mm	236	236	236	236	236
F	inch	12.99	12.99	11.14	11.14	11.14
	mm	330	330	283	283	283
G	inch	7.78	7.78	7.78	7.78	7.78
	mm	197.5	197.5	197.5	197.5	197.5
H min. 150 ≤ b ≤ 310	inch	9.06	9.06	-	-	-
	mm	230	230	-	-	-
H min. 150 ≤ b ≤ 230	inch	-	-	11.61	11.61	13.15
	mm	-	-	295	295	334
H min. 230 ≤ b ≤ 310	inch	-	-	10.87	10.87	12.40
	mm	-	-	276	276	315
J	inch	15.75	15.75	15.75	15.75	15.75
	mm	400	400	400	400	400
K	inch	21.06	21.06	21.06	21.06	21.06
	mm	535	535	535	535	535
L	inch	39.37	39.37	39.37	39.37	39.37
	mm	1000	1000	1000	1000	1000
M	inch	1.57	1.57	1.73	1.73	2.09
	mm	40	40	44	44	53
N	inch	2.01	2.01	2.60	2.60	3.23
	mm	51	51	66	66	82

Dimensions for higher capacities on request.



## Capacities: 20 t up to 200 t

BOP handling systems from J.D. Neuhaus are recognised for their reliable, robust and efficient operation on land and on jack-up and semi-submersible drilling platforms. The monorail air hoists (EH) in our BOP handling systems feature a compact design with low installation height. They can be used as double hoists in standard BOP

handling systems or, when linked together with a coupling rod, can be operated as a 4-point BOP handling system. For extremely low headrooms we recommend our ultra-low hoists from the UH series. Alternatively, all BOP handling systems are available with hydraulic drives.

## Technical Data

Type		BH 20	BH 32	BH 40	BH 50	BH 75	BH 100	BH 150	BH 200
Consisting of 2 units		EH 10	EH 16	EH 20	EH 25	EH 37	EH 50	EH 75	EH 100
Capacity	mt	20	32	40	50	75	100	150	200
Weight with standard lift	lbs	1984	2535	2734	4409	6614	7275	17637	25133
	kg	900	1150	1240	2000	3000	3300	8000	11400
Standard lift	ft	10	10	10	10	10	10	10	10
	m	3	3	3	3	3	3	3	3
Length of control at standard lift	ft	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	m	2	2	2	2	2	2	2	2

For further technical data see JDN monorail hoists

## Options

- Offshore version for special corrosion protection under tough weather conditions (salty, moist air) on sea and land
- Offshore paint finish
- Rack and pinion drive
- Delta-P overload protection
- Ultra-low hoists
- Pneumatic, hydraulic or electric remote control
- Load display systems
- Radio remote control
- Articulated trolleys for limited side pulling
- Individual acceptance by the authorised companies of your choice
- Special versions according to your requirements
- Cryogenic versions down to -45°C



Ultra Low Headroom BOP Handling System BHU 200





## JDN Subsea Hoists

### The ultimate tool for every professional diver

The JDN PROFI Subsea series is available with air or hydraulic drives. As well as a sensitive control system, the PROFI hoists are equipped with an overload protection. PROFI subsea hoists are a versatile and indispensable tool for professional divers and are suitable for horizontal work as well as for oblique pulling.

### Advantages

- Air or hydraulic drive
- Infinitely variable speeds can be regulated sensitively
- With overload protection
- Very versatile, also suitable for horizontal and oblique pulling thanks to hook suspension



PROFI 6TI Subsea

## JDN Cryogenic Hoists

### Not only suitable for BOP handling in arctic areas:

The temperature range of standard JDN hoists is -20°C to +70°C. JDN has developed hydraulic hoists for applications at temperatures as low as minus 45°C, such as BOP handling in arctic areas. To enable these hydraulic drives to be used under such extreme temperatures, they are fitted with a device that pre-heats the drives to a temperature of -25°C before being operated. This is achieved directly by means of the standard hydraulic supply. JDN hydraulic hoists are designed to be operated with low-temperature hydraulic fluids and can be operated efficiently at temperatures from -45°C to +40°C.

### Advantages

- Application range -45°C to +40°C
- Hydraulic drive
- Easy starting thanks to pre-heating device for the drives
- Operation with low-temperature hydraulic fluid
- Tested under real conditions and in use in Siberia



EH 20-H

**Do you need a hoist for toughest conditions? Then contact us.**



## Hydraulic Hoists PROFI / Hydraulic Monorail Hoists Capacities: 3 t up to 100 t

**JDN Hydraulic Hoists and Hydraulic Monorail Hoists** are available with capacities from 3 t up to 100 t. Depending on motor size these hoists work with an intake pressure of 130 bar up to 180 bar. Pressure fluid: Oil.

### Advantages

- Ideally suited for working in hazardous areas (explosion risk)
- Extremely low noise emissions
- Fully enclosed highly robust gear motor
- Integrated overload protection
- Only two supply connections at hoist "P" and "T", leakage oil drained internally
- The drive is hermetically sealed off from the environment



PROFI 6 TI-H



## Hydraulic Hoists PROFI 3 TI-H - 20TI-H

### Technical Data

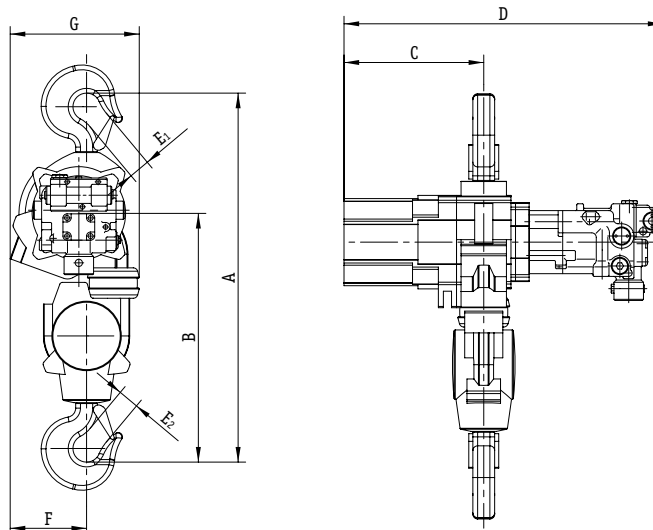
Type		3 TI-H	6 TI-H	10 TI-H	16 TI-H	20 TI-H
Capacity	mt	3.2	6.3	10	16	20
Intake pressure	PSI	1885	1885	1885	1885	1885
	bar	130	130	130	130	130
Intake volume	cfm	1.7	1.7	1.7	1.7	1.7
	l/min	48	48	48	48	48
Number of chain strands		1	2	2	3	4
Motor output	kW	3.5	3.5	3.5	3.5	3.5
Motortype		KM 1/16	KM 1/16	KM 1/16	KM 1/16	KM 1/16
Lifting speed at full load	ft/min	13.1	6.6	3.9	2.6	2.0
	m/min	4.0	2.0	1.2	0.8	0.6
Lifting speed without load	ft/min	14.8	7.6	4.1	2.7	2.0
	m/min	4.5	2.3	1.25	0.82	0.6
Lowering speed at full load	ft/min	14.8	7.6	4.3	2.8	2.1
	m/min	4.5	2.3	1.3	0.85	0.65
Lowering speed without load	ft/min	14.8	7.6	4.3	2.8	2.1
	m/min	4.5	2.3	1.3	0.85	0.65
Connection		G 1/2	G 1/2	G 1/2	G 1/2	G 1/2
Hose dimension		DN 12	DN 12	DN 12	DN 12	DN 12
Weight at standard lift with control	lbs	198.4	251.3	352.7	538.0	637.1
	kg	90	114	160	244	289
Chain dimension	mm	13 x 36	13 x 36	16 x 45	16 x 45	16 x 45
Weight of chain	lbs/ft	2.6	2.6	3.9	3.9	3.9
	kg/m	3.8	3.8	5.8	5.8	5.8
Standard lift	ft	10	10	10	10	10
	m	3	3	3	3	3
Length of control at standard lift	ft	6.5	6.5	6.5	6.5	6.5
	m	2	2	2	2	2

Group mechanism: M3 (1 Bm)

### Dimensions

Type		3 TI-H	6 TI-H	10 TI-H	16 TI-H	20 TI-H
A smallest headroom <sup>1</sup>	inch / mm	23.4 / 593	26.5 / 674	32 / 813	35.4 / 898	40.6 / 1030
B	inch / mm	14.7 / 373	17.9 / 454	21.6 / 548	23.5 / 598	26.4 / 670
C	inch / mm	9.2 / 233	9.2 / 233	12.2 / 308	15 / 382	15 / 382
D	inch / mm	22.8 / 578	22.8 / 578	26.4 / 670	31 / 787	31 / 787
E <sub>1</sub>	inch / mm	1.6 / 40	1.6 / 40	1.8 / 44	2.1 / 53	2.8 / 70
E <sub>2</sub>	inch / mm	1.2 / 30	1.6 / 40	1.8 / 44	2.1 / 53	2.8 / 70
F	inch / mm	7.4 / 187	6.1 / 154	7.8 / 197	7.8 / 199	7.1 / 180

<sup>1</sup> Chain containers increase the hoist headroom



# JDN HYDRAULIC HOISTS AND MONORAIL HOISTS



## Hydraulic Hoists PROFI 25 TI-H – 100 TI-H

### Technical Data

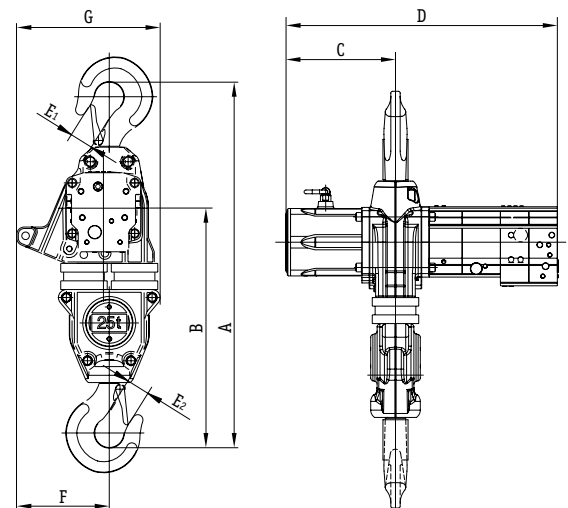
Type		25 TI-H	37 TI-H	50 TI-H	75 TI-H	100 TI-H
Capacity	mt	25	37.5	50	75	100
Intake pressure	PSI	2176	2176	2176	2611	2611
	bar	150	150	150	180	180
Intake volume	cfm	2.8	2.8	2.8	3.0	3.0
	l/min	80	80	80	85	85
Number of chain strands		2	3	4	3	4
Motor output	kW	6	6	6	9	9
Motor type		KM 2/32	KM 2/32	KM2/32	KM2/32	KM2/32
Lifting speed at full load	ft/min	3.6	2.3	1.6	1.7	1.3
	m/min	1.1	0.7	0.5	0.53	0.4
Lifting speed without load	ft/min	3.9	2.6	1.6	2.0	1.5
	m/min	1.2	0.8	0.5	0.6	0.45
Lowering speed at full load	ft/min	3.9	2.6	1.6	2.0	1.5
	m/min	1.2	0.8	0.5	0.6	0.45
Lowering speed without load	ft/min	3.9	2.6	1.6	2.0	1.5
	m/min	1.2	0.8	0.5	0.6	0.45
Connection		G 3/4	G 3/4	G 3/4	G 3/4	G 3/4
Hose dimension		DN 16	DN 16	DN 16	DN 16	DN 16
Weight with standard lift and control	lbs	1282	2123	2068	4079	4519
	kg	583	965	940	1850	2050
Chain dimension	mm	23.5 x 66	23.5 x 66	23.5 x 66	32 x 90	32 x 90
Weight of chain	lbs/ft	8.2	8.2	8.2	14.3	14.3
	kg/m	12.2	12.2	12.2	21.3	21.3
Standard lift	ft	10	10	10	10	10
	m	3	3	3	3	3
Length of control with standard lift	ft	6.5	6.5	6.5	6.5	6.5
	m	2	2	2	2	2

Group mechanism: PROFI 25 TI-H – PROFI 100 TI-H M3 (1 Bm)

### Dimensions

Type		25 TI-H	37 TI-H	50 TI-H	75 TI-H	100 TI-H
A smallest headroom <sup>1</sup>	inch	50.5	57.7	66.9	76.0	76.0
	mm	1282	1466	1700	1930	1930
B	inch	37.3	36.8	45	49.2	49.2
	mm	948	935	1144	1250	1250
C	inch	15.5	14.8	17.4	32.5	32.5
	mm	393	377	442	825	825
D	inch	42.1	40.8	48.6	64.4	64.4
	mm	1069	1037	1235	1635	1635
E <sub>1</sub>	inch	2.8	3.9	3.9	4.7	4.7
	mm	70	100	100	120	120
E <sub>2</sub>	inch	2.8	3.9	3.9	4.7	4.7
	mm	70	100	100	120	120
F	inch	18.4	20.4	12.2	15.9	14.4
	mm	466	518	310	405	365
G	inch	24	29.3	21.2	23.6	23.6
	mm	610	745	539	600	600

<sup>1</sup> Chain containers increase the hoist headroom







## Hydraulic Monorail Hoists EH 20-H – EH 100-H

### Technical Data

Type		EH 20-H	EH 25-H	EH 37-H	EH 50-H	EH 75-H	EH 100-H
Capacity	mt	20	25	37.5	50	75	100
Intake pressure	PSI	1885	2176	2176	2176	2611	2611
	bar	130	150	150	150	180	180
Intake volume	cfm	1.7	2.8	2.8	2.8	3	3
	l/min	48	80	80	80	85	85
Number of chain strands		4	2	3	4	3	4
Motor output – Trolley	kW	0.7	1.4	1.4	1.4	2.8	2.8
Motor output – Hoist	kW	3.5	6	6	6	9	9
Motor type – Trolley		KM1/8	KM1/8	KM1/8	KM1/8	KM1/8	KM1/8
Motor type – Hoist		KM1/16	KM2/32	KM2/32	KM2/32	KM2/32	KM2/32
Lifting speed at full load	ft/min	2.0	3.6	2.3	1.6	1.7	1.3
	m/min	0.6	1.1	0.7	0.5	0.53	0.4
Lifting speed without load	ft/min	2.0	3.9	2.6	2	2	1.5
	m/min	0.6	1.2	0.8	0.6	0.6	0.45
Lowering speed at full load	ft/min	2.1	3.9	2.6	2	2	1.5
	m/min	0.65	1.2	0.8	0.6	0.6	0.45
Lowering speed without load	ft/min	2.1	3.9	2.6	2	2	1.5
	m/min	0.65	1.2	0.8	0.6	0.6	0.45
Travelling speed at full load	ft/min	39.4	39.4	39.4	39.4	39.4	39.4
	m/min	12	12	12	12	12	12
Connection		G 1/2	G 3/4	G 3/4	G 3/4	G 3/4	G 3/4
Hose dimension		DN 12	DN 16	DN 16	DN 16	DN 16	DN 16
Weight with standard lift and control	lbs	1584	2310	3410	4136	8378	11354
	kg	720	1050	1550	1880	3800	5150
Chain dimension	mm	16 x 45	23.5 x 66	23.5 x 66	23.5 x 66	32 x 90	32 x 90
Weight of chain	lbs/ft	3.9	8.2	8.2	8.2	14.3	14.3
	kg/m	5.8	12.2	12.2	12.2	21.3	21.3
Standard lift	ft	10	10	10	10	10	10
	m	3	3	3	3	3	3
Length of control with standard lift	ft	6.5	6.5	6.5	6.5	6.5	6.5
	m	2	2	2	2	2	2

Group mechanism: EH 20-H – EH 100-H M3 (1 Bm)



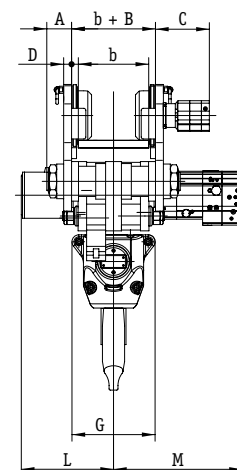
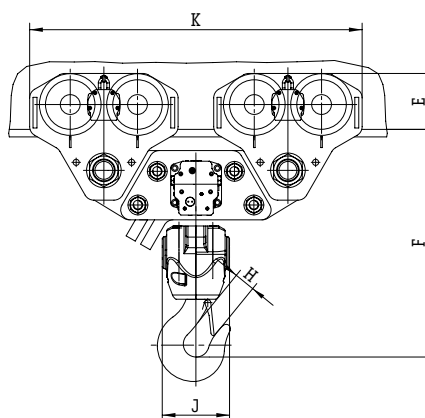
EH 20-H



EH 25-H

### Dimensions

Type		EH 20-H	EH 25-H	EH 37-H	EH 50-H	EH 75-H	EH 100-H
A	inch	5.1	5.8	5.8	4.9	3.9	4.9
	mm	130	146	146	125	100	125
B	inch	2.7	2.8	2.8	2.7	2.7	2.7
	mm	68	70	70	68	68	68
C	inch	10.5	10.1	10.5	10.7	8.9	9.1
	mm	267	257	267	272	225	230
D	inch	1.4	1	1	1.6	1.4	1.6
	mm	35	25	25	40	35	40
E	inch	8.7	7.8	8.7	11.1	8.6	11.1
	mm	220	198	220	283	218	282
F <sup>1</sup>	inch	32.3	39.3	42.1	45.3	59.1	59.1
	mm	820	998	1070	1150	1500	1500
G	inch	7.9	6.7	7.5	16.5	18.9	22.6
	mm	200	170	190	420	480	575
H	inch	2.8	2.8	3.9	3.9	4.7	4.7
	mm	70	70	100	100	120	120
J	inch	10.5	13.8	17.9	13.4	17.9	18.5
	mm	266	350	455	340	455	470
K	inch	23.6	46.7	68.1	66.1	118.9	124.8
	mm	600	1185	1730	1680	3020	3170
L	inch	14.5	14.8	14.8	18.2	32.5	32.5
	mm	367	377	377	462	825	825
M	inch	16.5	22.1	22.1	27.0	31.7	31.7
	mm	420	562	562	687	805	805



<sup>1</sup>Chain containers increase the hoist headroom



Explosion-protected **JDN Crane Systems** are the right choice for the most challenging environmental conditions, whether onshore or offshore. Available in air drive or hydraulic drive versions.

## The delivery programme comprises explosion-proof

- Top running overhead travelling cranes
- Under hung overhead travelling cranes
- Jib cranes

which can be designed to your individual needs, customised installations are our speciality. Depending on your requirements JDN air hoists in motor trolleys or monorail hoist systems are integrated into the crane design. An ergonomically designed pneumatic pendant control is supplied with two speed control as standard for crane and trolley travel. Infinitely variable hoist and trolley speed control is also available.

## Different JDN Cranes in Detail

- Overhead cranes with single or double girder design
- Underhung cranes including low headroom design
- Jib cranes
- Cranes with in line mechanically linked synchronised hoists
- Cranes with parallel operating hoists
- Capacities up to 100 t
- Crane spans up to 36 m



## JDN Crane Kits for explosion-proof air cranes

### Capacities: up to 10 t

J.D. Neuhaus can offer crane manufacturers crane component kits complete with pneumatic crane drives. With these crane kits overhead travelling cranes up to 10 t capacity can be built very simply and economically, especially for applications in hazardous areas.

The crane manufacturer provides the main girder and JDN delivers all the components that are necessary to build an air powered crane of their chosen design:

- End carriages with pneumatic drives
- Energy feeding systems
- Safety accessories
- And of course the appropriate air hoist with trolley

## Technical data

Capacity	Main travel (crane)		Cross travel (trolley)			Hoist		
	max. speed	control	max. speed	control		max. speed	control	
	[m/min]	2-steps	[m/min]	2-steps	variable	[m/min] lifting/lowering	1-step	variable
1 t	7/20	x	9/14	x		5/12	x	+
2 t	7/20	x	9/14	x		2.5/6	x	+
3 t	7/20	x	9/14	x		3.5/8.5	x	+
6 t	10/24	x	9/14	x		1.5/3.5	x	+
10 t	7/20	x	5/12	x		1.0/3.0	x	+
15 t	5/25	x	5/12	x	+	0.7/1.5	x	+
20 t	5/25	x	5/12	x	+	0.5/1.3	x	+
32 t	5/25	x	5/12	x	+	0.6/1.3	x	
40 t	5/25	x	5/12	x	+	0.65/1.2	x	
50 t	5/25	x	5/12	x	+	0.50/1.1	x	

x = Standard    + = Option (speeds under standard conditions)



## JDN Explosion Protection Classification and marking

Hoists and cranes from J.D. Neuhaus have an unbeatable advantage over electrically-driven lifting equipment: Even the standard versions are suitable for use in explosion-hazardous areas and bear explosion-proof labelling according to the ATEX standard.

If you have any questions about the topic of explosion protection, please contact our sales team. We will be happy to advise you.



### Example: EX II 2 GD IIB T4 classification means:

EX	II	2	GD	IIB	T4
ATEX mandatory marking for equipment usable in explosive atmospheres	II Surface Work	2 For use in zone 1	G Gas	IIC (Acetylene & Hydrogen)	Temperature Class T1 < = 450°C T2 < = 300°C T3 < = 200°C <b>T4 &lt; = 135°C</b> T5 < = 100°C T6 < = 85°C
	I Underground Work	3 For use in zone 2	D Dust	IIB (Ethylene)	
				IIA (Propane)	

## JDN Accessories Tailored to your individual needs

We offer a wide range of accessories designed to ensure that JDN standard products are suitable for your specific applications. This means, for example, that you can meet very specific safety requirements, adjust performance capacity or make operations even more convenient.

- Filter silencer
- Filter regulator
- Service unit
- Main air emergency-stop valve
- Chain box
- Special grease cartridge for oil-free operation, volume 250 ml
- Limit switch for lifting and travelling
- Booster valve (control lengths over 12 m)
- Extension arm for control on motorised trolley
- Additional suspension for chain box (for installation in trolley)
- Copper-plated load hook for increased spark protection
- Stainless steel load hook (up to 750 kg capacity)
- Stainless steel chain (reduced capacity) up to 6 TI
- Manual emergency lowering device for PROFI 3 TI – 20 TI hoists
- Special paint finishes



**JDN Air Hoists and Cranes are available with various controls to suit your special necessities.**



## Rope Control

### **Suitable for any control length:**

This control type provides infinitely speed control for hoist lifting and lowering motions and is suitable for any required control length. The rope control option is available for all PROFI series hoists up to 25 t capacity. For larger capacity PROFI series hoists 37 TI, 50 TI and 100 TI the rope is replaced by a pull chain for greater strength.



## FI-Control

### **Sensitive control, for easy handling:**

The FI-Control provides precise infinitely variable speed control and the ergonomically designed synthetic housing ensures comfortable handling for the operator. The use of corrosion resistant materials makes it suitable for use in aggressive atmospheres, with the control hoses enclosed in an outer sheath which protects them from external conditions.



## E-Control

### **Low maintenance, corrosion-proof:**

The very robust brass construction distinguishes the E-type pendant control valve. Low weight and ergonomic design ensure ease of handling. Only available in single speed control version.



## F-Control

### Available for multi-function use:

The F-control is manufactured from an unbreakable synthetic material, resistant to external conditions. The ergonomically designed housing ensures ease of handling. Up to 18 different control functions can be incorporated in a single pendant control e.g key switch, two stage travelling speed, klaxon or simultaneous control of two hoist motors. As an option the F-control can also be delivered with infinitely variable speed control of hoisting and trolley travelling motions.

## Controls for JDN Air Hoists in motor trolley and JDN Monorail Hoists

For controlling JDN air hoists in motor trolleys and JDN monorail hoists we recommend the four button version of the E or F-control. The rope control option is also available.

## Controls for JDN Air Cranes

For controlling JDN air cranes the F-control is the most suitable because of its multi-function capability.

## Operating Convenience via radio control

To overcome excessive distances between operator and crane, or to use hoisting equipment in remote areas, the JDN Radio Control offers a convenient and safe alternative to other control types. The JDN radio control is also available in explosion-proof design.





A series of supply systems are available for powering JDN Air Hoists in trolleys, monorail hoists and crane systems:

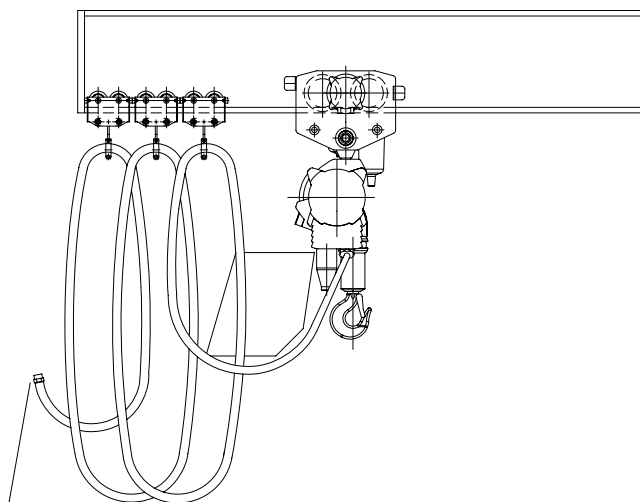
- Hose trolleys
- Spiral hose
- Square bar or C rail
- Energy chain

## Hose trolleys

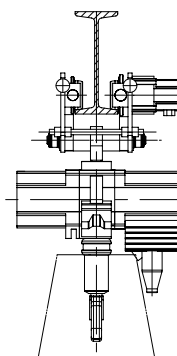
The hose is fastened to trolleys, which roll directly on the bottom flange of the beam. With each horizontal move of the hoist along the beam, the hose trolleys make the hose follow suit. The hose trolleys will be used for short distances or if there is not enough space on the side of the beam to install C or square bars.

Your advantages:

- Easy to install
- Cost-efficient
- Consisting of: Hose carriages and hose



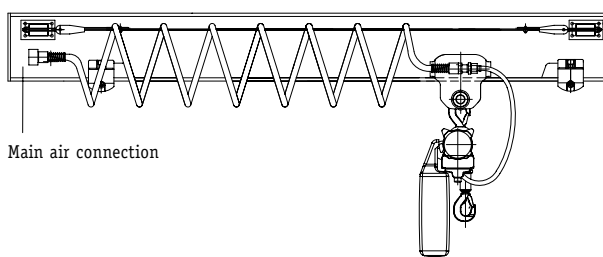
Main air connection



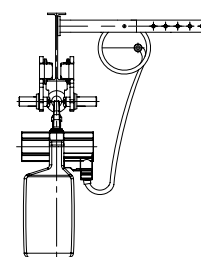
## Spiral hose

This simple and economical solution is suitable for distances of up to 10 metres. The hose rings are suspended on a plastic-coated rope that runs parallel to the track.

The spiral hose can be used in category 3 (zone 2) with gases in explosion group IIA and IIB. It is not suitable for applications in category 2 (zone 1) or group IIC.



Main air connection



### Practical tip:

Make sure to lay the hose so that its extended length is roughly 1.5 times the required distance.

- Consisting of: Tensioning arms, rope tensioners, hose and rope



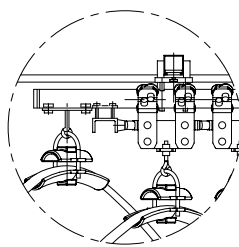
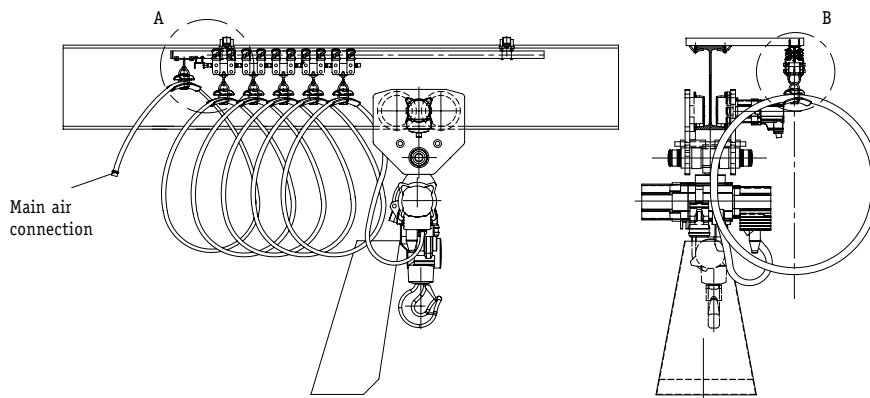
## Square bar & C rail

Galvanised C rails or square bars are installed along the beam to carry the energy supply lines.

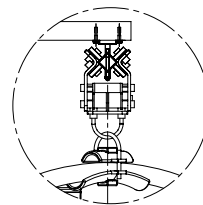
### Square bar

Depending on the local conditions, rails and curved tracks of different lengths are available, as well as an extensive range of installation accessories. The square bar is also suitable for curved tracks.

- Consisting of: Square bars, tensioning arms, hose, hose supports and supply line carriages



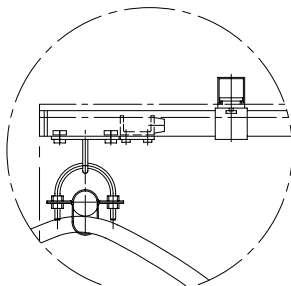
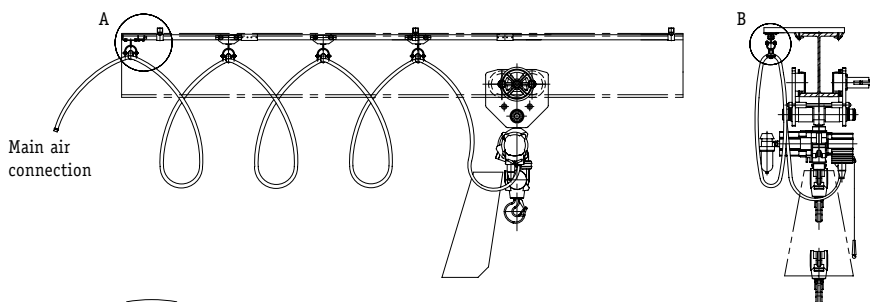
Detail A



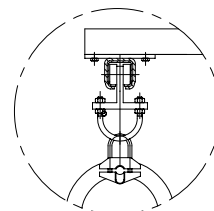
Detail B

### C rail

- Consisting of: C rails with support, adapter, antistatic supply hose and hose support. The supports must be attached to the upper flange of the beam.



Detail A



Detail B



## Energy chain

### Energy chain for trolley drive of overhead travelling cranes

The energy supply for trolley drive in overhead travelling cranes is realised by a horizontal version of the energy chain. A guide channel is mounted on the girder with the chain gliding inside. Air distribution and the control box are also attached to the guide channel. Usually there are two different types of hoses inside the energy chain: The air hose, which feeds the hoisting motor and the trolley motor, and the control hose for crane control functions.

In case of low headroom requirements choose vertical installed energy chain, like the supply for trolleys in underslung cranes.

### Energy chain for crane drive of overhead travelling cranes

The energy supply for crane drive in overhead travelling cranes is realised by a vertical installation of the energy chain. The necessary guide channel system is mounted with clamped brackets on the bottom flange. If different profile sizes for the bottom flange are used because varying in support spacing, the brackets may be clamped to the top flange. The clamped brackets can be used for all the normal steel girder sections (with flange thickness 7-40 mm (0,28-1,57 inch)).

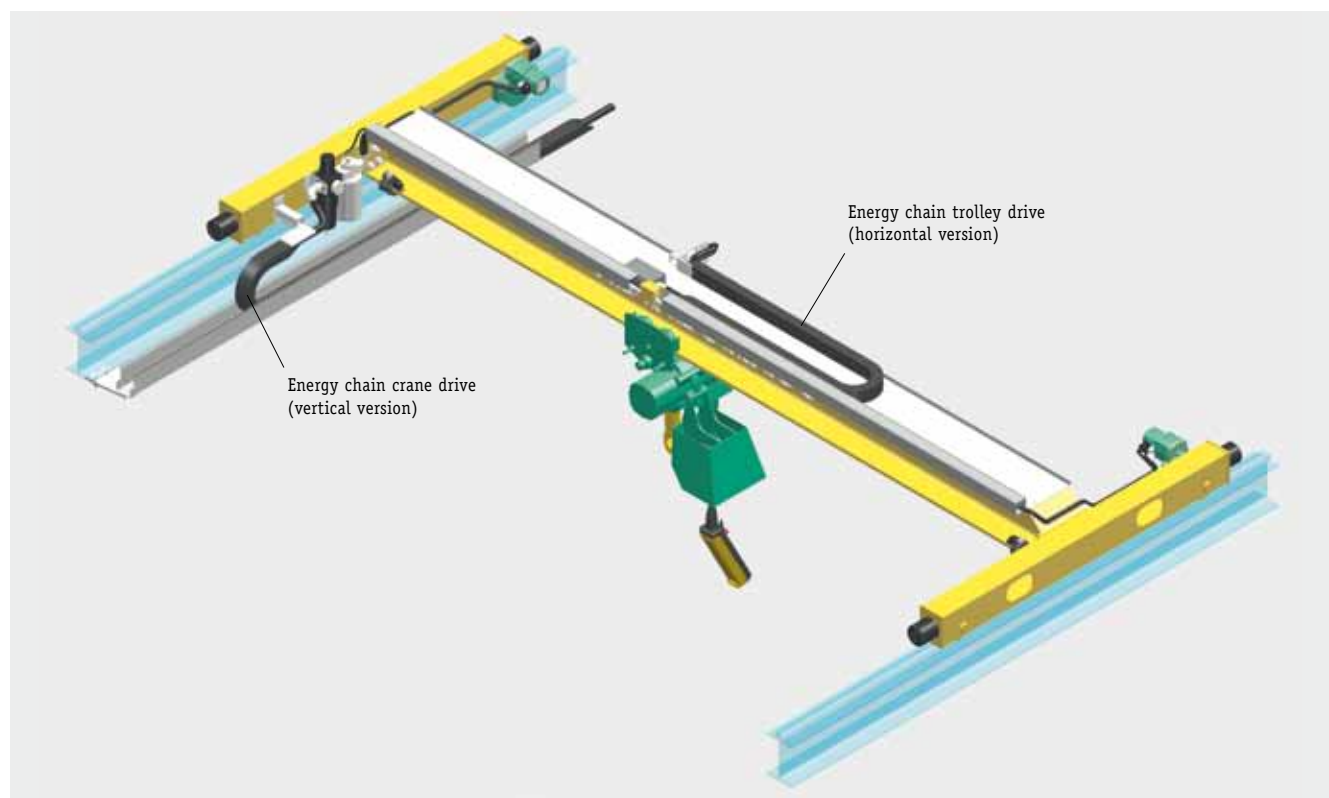
The energy chain carries air hoses inside, which supply the hoisting motor, driving motors as well as the control hoses of the crane. In addition it is possible to install further control hoses and electric cables inside the energy chain.

The main air connection of the energy supply is located midway of the crane travel distance.

### Energy chain for trolley and crane drive of underslung cranes

The energy supply for hoists with trolley and for crane drives in underslung cranes is realised by a vertical installation of the energy chain. The guide channel system is mounted with c-sockets, which are clamped by claws on the top flange of the girder. The dimensions of the c-sockets are depending on the used girder.

Supply air hoses for hoisting and travelling as well as control hoses are installed in the energy chain.



Energy supply at an overhead travelling crane



### More safety for you, around the world

#### JDN Global Service

Maximum operating safety results in ensured productivity: That's our promise for your JDN products and systems. As a J.D. Neuhaus hoist or crane system operator, you know thanks to your own experience that our products are exemplary when it comes to reliability and longevity.

#### Maximise the potential of longevity

Is it possible to increase the profitability of an investment and simultaneously reduce the risk of production downtime? Yes, it is! By carefully planning ahead. With JDN Service at your side, you ensure the continuous operational availability of your JDN hoists. And: With regular maintenance, you simultaneously ensure the maximum longevity of your JDN products.

#### Benefit from the advantages of the manufacturer

Long downtimes and a lack of operational safety of a system are absolutely the worst case scenario for every conscientious manager. Your best defence in this case is a service partnership with J.D. Neuhaus, since nobody knows JDN products better than their designer and manufacturer, which means us. Nobody can supply you with original spare parts or replacement products quicker and cheaper than we can.

### Use the expertise of the world's market leader

So what does it mean to you to purchase products and services from a single provider, the world's market leader in pneumatic and hydraulic hoists? This means one less thing to worry about. We manage your JDN products during their entire life cycle, we are certified according to ISO 9001 and ISO 14001, and we are a master of every export routine. That's quality of service that takes away your fears and helps you relax.

### Experience the strength of the service team

What if something happens? You can contact JDN Global Service to help you every day, around the clock with experienced JDN technicians, who have the best training and operate around the world. We diagnose, find a solution, and fix the problem. In any remote corner of the world. We're JDN Global Service. We're prepared for extremes.

## "SECURE YOUR PRODUCTIVITY, MAXIMISE YOUR OPERATING SAFETY!"







## Project management

We provide you support from planning to on-site installation of your project at your premises.

Our services for you:

- On-site examination to plan the construction site
- Organisation of the construction site and coordination with all participants
- Provision of technicians
- Approval of the hoists and crane systems according to your specifications
- Approval in cooperation with external certification authorities

## Regular inspection

To ensure operational readiness, we complete regular maintenance and inspection of your JDN hoist.

Our services for you:

- Annual maintenance according to legal regulations and our specified maintenance plan
- Addition to our maintenance database and reminder about upcoming planned maintenance
- Maintenance contracts for precise cost controls

## Training

To ensure that smaller repairs and annual maintenance are able to be completed by your own personnel, we provide customer-specific training courses.

Our services for you:

- Training courses at the various JDN service centres
- Training courses at your premises that are especially tailored to your needs
- On-the-job training

## Service kits

For supply of spare parts on-site. With our service kits, you can rest assured that all of the required replacement parts for a particular module will be available to you.

## Repairs

Our service technicians possess the best possible training to complete all repairs and modifications involving your JDN hoisting equipment, even in the case of off-shore applications.

Our services for you:

- Repair and modifications in our own workshops
- Repair and modifications at your premises
- Conversion work in cooperation with our R&D department
- Overload tests

## Spare parts

With speedy spare parts supply, we are able to ensure the operational readiness of your JDN hoisting equipment.

Our services for you:

- Support during selection of the right spare parts
- Configuration of spare parts for your own warehouse
- Worldwide delivery

## General overhauls

After expiry of the theoretical operating time and after 10 years at the latest, all JDN hoists must be overhauled. This enables us to ensure fault-free operation for many more years.

Our services for you:

- General overhaul in our own service centres and with authorised service partners
- Cooperation with surveyor and re-certifiers
- Complete general overhaul kits

## Rentals

Do you need hoists for the short term? We can deliver.

Our services for you:

- Quickly available
- Hoists in different capacities
- Adjustment of hoisting equipment to your requirements





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