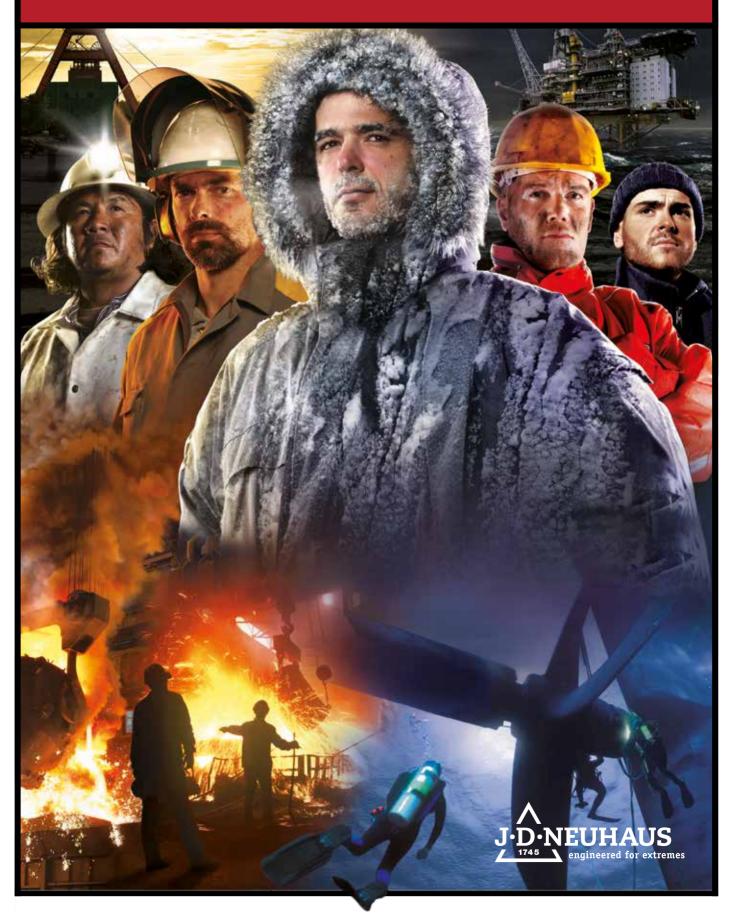
JDN GENERAL CATALOGUE



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JDN COMPANY PORTRAIT



J.D. Neuhaus GmbH - Manufacturing

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-bearing capacity. Moreover, we consistently set new standards with customised solutions for exceptional applications.



J.D. Neuhaus L.P.

Established in 1989 as a subsidiary of J.D. Neuhaus GmbH, J.D. Neuhaus L.P. is located in Sparks Maryland with a highly qualified sales staff, engineering team, service technicians, and substantial inventory to quickly and efficiently support clients throughout North and South America.













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.



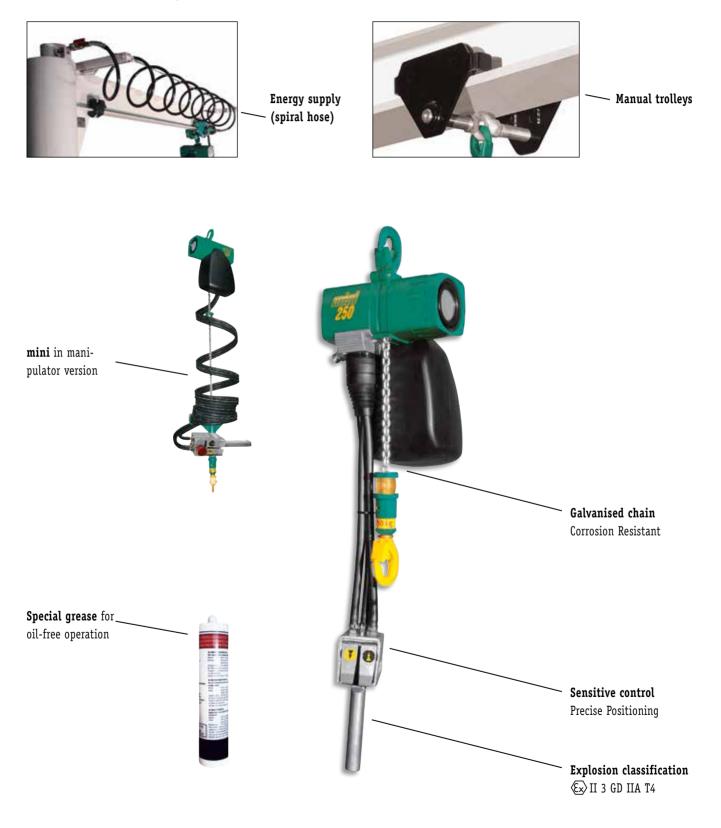




JDN AIR HOISTS MINI



The mini series at a glance







The JDN mini series for general duty Carrying capacities: 275 Ibs, 500 Ibs, 1,100 Ibs, 2,200 Ibs Air pressure: 87 psi

The **mini** widens the range of applications as a handy, flexible and universally deployable hoist making it an ideal tool for a wide range of manufacturing and assembly 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: 🕼 II 3 GD IIA T4

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 optional emergency stop, max. control length 20 ft.
- Available lifting heights: up to 26 ft.
- With chain box as standard.
- With manual trolley as option.







Technical Data

Туре		mini 125	mini 250	mini 500	mini 1000	
Capacity	lbs	275	550	1100	2160	
	<i>kg</i>	125	<i>250</i>	<i>500</i>	<i>980</i>	
Number of chain strands		1	1	1	1	
Motor output	kW	0.4	0.4	1	1	
Air pressure	psi	87	87	87	87	
	bar	6	6	6	6	
Lifting speed without load	ft/min	130	65	65	33	
	<i>m/min</i>	<i>40</i>	20	20	10	
Lifting speed at full load	ft/min	49.5	26	33	16	
	<i>m/min</i>	<i>15</i>	<i>8</i>	10	5	
Lowering speed at full load	ft/min	99	52	59	33	
	<i>m/min</i>	<i>30</i>	16	18	10	
Lowering speed without load	ft/min	78.7	39.4	39.4	19.7	
	<i>m/min</i>	24	<i>12</i>	<i>12</i>	6	
Air consumption at full load – lifting	cfm	17.5	17.5	42.5	42.5	
	<i>m³/min</i>	<i>0.5</i>	<i>0.5</i>	1.2	1.2	
Air consumption at full load - lowering	cfm	24.7	24.7	56.5	56.5	
	m³/min	0.7	0.7	<i>1.6</i>	<i>1.6</i>	
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	
	<i>kg</i>	9.5	10.5	<i>21</i>	<i>23</i>	
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	
	<i>kg/m</i>	0.35	0.35	1.0	1.0	
Height of lift	ft m	10/16/26 3/5/8				
Length of control at standard lift	ft m	6.5/13/20 2/4/6				
Noise level at full load ² - lifting	dB(A)	79	79	77	77	
Noise level at full load ² - lowering	dB(A)	80	80	83	83	

Group mechanism: M3 (1 Bm)

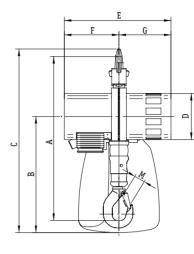
¹Lifting speed at 2 m length of control. Longer control hoses decrease the lifting speeds. ²Measured at 1 m distance acc. to DIN 45635 part 20

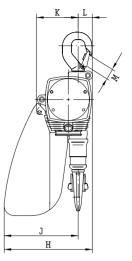
JDN AIR HOISTS MINI



Dimensions

Туре		mini 125	mini 250	mini 500	mini 1000
A	inch	12.9	12.9	18.0	18.0
	mm	<i>328</i>	<i>328</i>	458	458
В	inch	9.1	9.1	12.4	12.4
	mm	232	232	316	316
С	inch	14.4	14.4	19.9	19.9
	mm	367	367	505	505
D	inch	3.6	3.6	4.8	4.8
	mm	<i>92</i>	92	122	122
E	inch	8.4	8.4	11.5	11.5
	<i>mm</i>	213	213	<i>292</i>	<i>292</i>
F	inch	4.3	4.3	5.8	5.8
	mm	109	109	148	148
G	inch	4.1	4.1	5.6	5.6
	<i>mm</i>	104	104	144	144
Н	inch	7	7	9.2	9.2
	<i>mm</i>	177	177	234	234
J	inch	5.8	5.8	7.6	7.6
	<i>mm</i>	148	148	194	194
К	inch	3.3	3.3	4.7	4.7
	<i>mm</i>	<i>83</i>	<i>83</i>	119	119
L	inch	1.1	1.1	1.6	1.6
	<i>mm</i>	29	29	40	40
М	inch	0.7	0.7	1.1	1.1
	<i>mm</i>	19	19	28	28





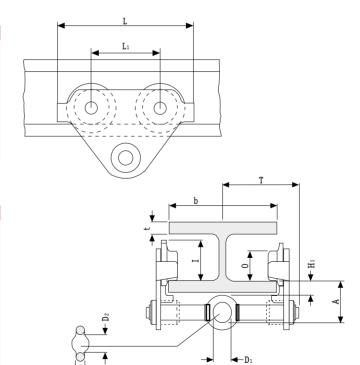
Manual Trolleys for JDN Air Hoists mini

Technical Data

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

Dimensions

Туре		LN 250	LN 1000
A	inch	3.1	3.1
Δ.	mm	79	79
D	inch	0.7	0.7
U	mm	17	17
D 1	inch	1	1.2
DI	mm	25	30
D2	inch	1.2	1.4
02	mm	30	35
H1	inch	1.2	1
111	mm	30	25
Ι	inch	2.7	3.2
1	mm	67.5	81.5
L	inch	10.2	10.2
-	mm	260	260
Lı	inch	5.1	5.1
L 1	mm	130	130
0	inch	2.2	2.7
v	mm	55	68
T	inch	5.7	5.9
	mm	144	151



JDN AIR HOISTS PROFI





Carrying capacities: 550 Ibs up to 100+ metric tons Air pressure: 60 psi or 87 psi versions available

Proven in practice: JDN Air Hoists **PROFI** Series are superior the most demanding environments. 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

- Smooth 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 in the main air supply*.
 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.

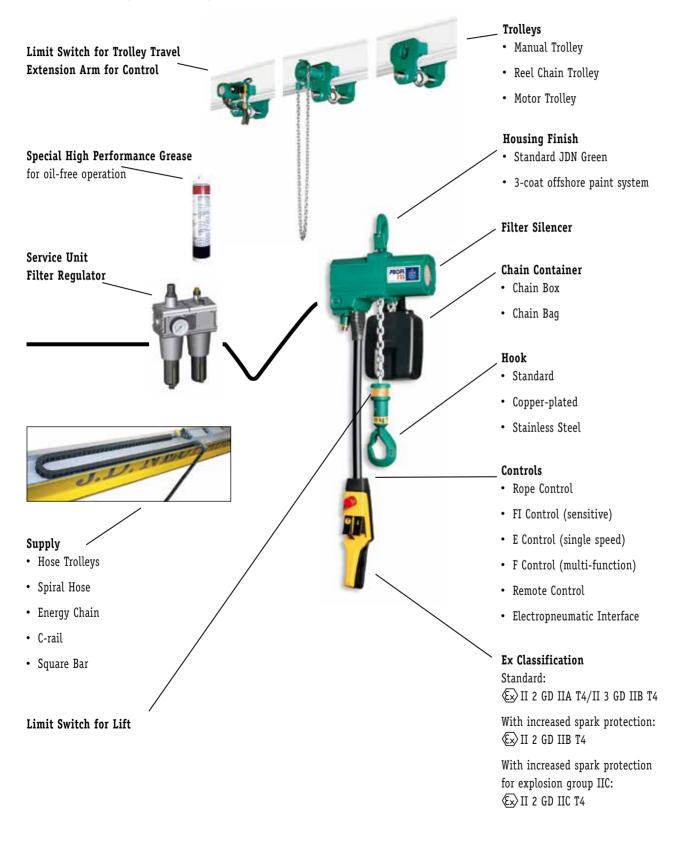
- Patented Motor-Brake System For operation with low maintenance and little wear. Based on the proven design of the JDN Mini Series.
- Modern Design Compact Size
 Features no protruding control hoses
 or parts susceptible to damage, making
 the PROFI also suitable for horizontal
 pulling.
- 100% Duty Rating No Downtime
- Ex Classification according to EC Directive on Hazardous Locations 94/9/EEC

*up to PROFI 20 TI

JDN AIR HOISTS PROFI



The modular system at a glance









PROFI 025TI – 2TI

Technical Data

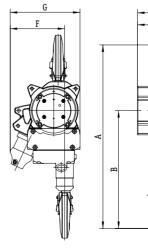
Туре		02	5 TI	05	TI	1	TI	2	TI
Air pressure	psi bar	60 4	87 6	60 4	87 6	60 4	87 6	60 4	87 6
Carrying capacity	mt	0.16	0.25	0.32	0.5	0.63	1	1.25	2
Number of chain strands			1		1		1	2	
Motor output	kW	0.6	1.0	0.6	1.0	0.6	1.0	0.6	1.0
Lifting speed at full load	ft/min <i>m/min</i>	65.6 <i>20</i>	65.6 <i>20</i>	32.8 10	36.1 <i>11</i>	16.4 5	18 5.5	8.2 2.5	8.9 <i>2</i> .7
Lifting speed without load	ft/min <i>m/min</i>	123 37.5	137.8 <i>42</i>	52.5 <i>16</i>	62.3 <i>19</i>	32.8 10	36.1 <i>11</i>	16.4 5	18 5.5
Lowering speed at full load	ft/min <i>m/min</i>	124.7 38	124.7 38	55.8 <i>17</i>	55.8 <i>17</i>	32.8 10	36.1 <i>11</i>	16.4 5	18 5.5
Air consumption at full load – lifting	cfm m³/min	24.7 0.7	42.4 1.2	24.7 0.7	42.4 1.2	24.7 0.7	42.4 1.2	24.7 0.7	42.4 1.2
Air consumption at full load – lowering	cfm m³/min	28.3 <i>0.8</i>	53 1.5	28.3 <i>0.8</i>	53 1.5	28.3 <i>0.8</i>	53 1.5	28.3 <i>0.8</i>	53 1.5
Air connection		G	1/2	G 1/2		G 1/2		G 1/2	
Hose dimension (ø inside)	inch <i>mm</i>		/2 3		/2 3		/2 3	1/ 1	/2 3
Weight with standard lift, rope control	lbs <i>kg</i>	59.5 <i>27</i>	59.5 <i>27</i>	59.5 <i>27</i>	59.5 <i>27</i>	61.6 27.5	61.7 ¹ 28 ¹	75 ¹ 34 ¹	75 ¹ 34 ¹
Chain dimension	mm	7 x	21	7 x	21	7 x	21	7 x	21
Weight of chain	lbs/ft <i>kg/m</i>	0.67 1.0		0.67 0.67 1.0 1.0		•••	•••	67 .0	
Standard lift	ft m	10 3		10 <i>3</i>		10 3		10 3	
Length of control at standard lift	ft m	6.5 2		6.5 2		6.5 2		6.5 2	
Noise level at full load ² – lifting	dB(A)	73	74	74	75	74	76	74	76
Noise level at full load ² – lowering	dB(A)	77	78	77	78	77	78	77	78



¹With overload protection ²Measured at 1 m distance acc. to DIN 45635 part 20 Group mechanism at 6 bar: PROFI 025TI M5 (2 m), PROFI 05TI - PROFI 2TI M4 (1 Am)

Dimensions

Туре		025 TI	05 TI	1 TI	2 TI
A min, headroom ¹	inch	17.7	17.7	17.7	19.6
it internet inclusion	mm	450	450	450	498
В	inch	11.3	11.3	11.3	13.2
b	mm	288	288	288	336
C	inch	5.7	5.7	5.7	5.7
L	mm	145	145	145	145
D	inch	11.7	11.7	11.7	11.7
D	mm	297	297	297	297
E1	inch	1.1	1.1	1.1	1.1
E1	mm	28	28	28	28
-	inch	1.1	1.1	1.1	1.1
E ₂	mm	28	28	28	28
F up to book contro	inch	5.4	5.4	5.4	5.4
F up to hook centre	mm	137	137	137	137
C	inch	6.9	6.9	6.9	7.2
G maximum width	mm	176	176	176	183



'Chain containers increase the hoist headroom



PROFI 1.5TI and 3TI/2

Technical Data

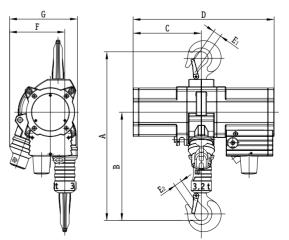
Туре		1.5TI	3 TI/2
Air pressure range	psi	60-87	60-87
	bar	<i>4-6</i>	<i>4-6</i>
Capacity	mt	1.6	3.2
Number of chain strands		1	2
Motor output	kW	1.3-2	1.3-2
Lifting speed without load	ft/min	27.6-32.8	13.8-16.4
	<i>m/min</i>	<i>8.4-10</i>	<i>4.2-5</i>
Lifting speed at full load	ft/min	13.1-19.7	6.6-9.8
	<i>m/min</i>	<i>4-6</i>	<i>2-3</i>
Lowering speed at full load	ft/min	36.1-39.4	18.0-19.7
	<i>m/min</i>	<i>11-12</i>	5.5-6
Air consumption at full load –	cfm	53-92	53-92
lifting	<i>m³/min</i>	1.5-2.6	1.5-2.6
Air consumption at full load -	cfm	78-127	78-127
lowering	<i>m³/min</i>	2.2-3.6	2.2-3.6
Air connection		G 3/4	G 3/4
Hose dimension (Ø inside)	inch	³ / ₄	³ / ₄
	<i>mm</i>	19	19
Weight with standard lift,	lbs	123	146
rope control	<i>kg</i>	56	<i>66</i>
Chain dimension	mm	9 x 27	9 x 27
Weight of chain	lbs/ft	1.2	1.2
	<i>kg/m</i>	1.8	1.8
Standard lift	ft	10	10
	m	<i>3</i>	<i>3</i>
Length of control at standard lift	ft	6,5	6,5
	m	<i>2</i>	<i>2</i>
Noise level at full load ¹ – lifting	dB(A)	73-77	73-77
Noise level at full load ¹ – lowering	dB(A)	78-80	78-80



 $^1\mathrm{Measured}$ at 1 m distance acc. to DIN 45635 part 20 Group mechanism: M3 (1 Bm)

Dimensions

Туре		1.5 TI	3 TI/2
A min. headroom ¹	inch	18.9	21.4
A min. neudroom	mm	480	544
В	inch	11.5	14.0
В	mm	293	356
С	inch	7.9	7.9
L	mm	200	200
D	inch	16.2	16.2
U	mm	412	412
E1	inch	1.1	1.1
E1	mm	28	28
-	inch	1.0	1.1
E2	mm	26	28
F up to book contro	inch	6.7	5.5
F up to hook centre	mm	170	140
G maximum width	inch	8.5	8.5
G maximum width	mm	215	215



 ${}^{1}\mbox{Chain}$ containers increase the hoist headroom





PROFI 3TI – 20TI

Technical Data

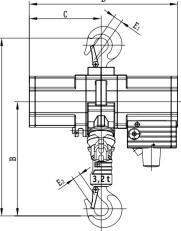
Туре		3 TI		6 TI		10 TI		16 TI		20 TI	
Air pressure	psi	60	87	60	87	60	87	60	87	60	87
Capacity	bar mt	4	6 .2	4	6 .3	4	6 0	4	6 6	4 6 20	
Number of chain strands	int		. <u>-</u> 1		2		2	1		4	
Motor output	kW	1.8	3.5	1.8	3.5	1.8	3.5	1.8	3.5	1.8	3.5
Lifting speed without load	ft/min <i>m/min</i>	19.7 6	32.8 10	9.8 <i>3</i>	16.4 5	6.6 <i>2</i>	10.5 <i>3.2</i>	4.3 1.3	6.6 <i>2</i>	3.3 1	4.6 1.4
Lifting speed at full load	ft/min <i>m/min</i>	8.2 2.5	16.4 5	3.9 1.2	8.2 2.5	2.6 0.8	5.2 1.6	1.6 0.5	3.3 1	1.3 0.4	2.3 0.7
Lowering speed at full load	ft/min <i>m/min</i>	24.6 7.5	35.4 10.8	11.8 <i>3.6</i>	17.7 5.4	8.2 2.5	11.2 <i>3</i> .4	5.3 1.6	6.9 <i>2</i> .1	3.9 1.2	5.3 1.6
Air consumption at full load – lifting	cfm m³/min	71 2	142 4	71 2	142 4	71 2	142 4	71 2	142 4	71 2	142 4
Air consumption at full load - lowering	cfm m³/min	124 3.5	195 5.5	124 3.5	195 5.5	124 3.5	195 5.5	124 3.5	195 5.5	124 3.5	195 5.5
Air connection		G	3/4	G ³ /4		G ³ /4		G ³ /4		G ³ /4	
Hose dimension (Ø inside)	inch mm		/4 9	³ / ₄ 19		³ / ₄ 19		³ / ₄ 19			/ ₄ 9
Weight with standard lift, rope control	lbs <i>kg</i>		9.6 86	242.5 110		343.9 <i>156</i>		529.1 240		627 285	
Chain dimension	mm	13	x 36	13 :	x 36	16	x 45	16 >	45	16 >	‹ 45
Weight of chain	lbs/ft <i>kg/m</i>	2.6 3.8			.6 .8	-	.9 .8	3. 5.		3. 5.	.9 .8
Standard lift	ft m	10 3		10 <i>3</i>		10 <i>3</i>		1			0 3
Length of control at standard lift	ft m	6.5 2		6.5 2		6.5 2		6.5 <i>2</i>		6.5 2	
Noise level at full load ¹ - lifting	dB(A)	74	78	74	78	74	78	74	78	74	78
Noise level at full load ¹ - lowering	dB(A)	79	80	79	80	79	80	79	80	79	80



 $^1\text{Measured}$ at 1 m distance acc. to DIN 45635 part 20 Group mechanism at 6 bar: M3 (1 Bm)

Dimensions

Туре		3 TI	6 TI	10 TI	16 TI	20 TI
A min. headroom ¹	inch	23.3	26.5	32	35.4	40.6
	mm	593	674	813	<i>898</i>	1030
В	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
	<i>mm</i>	233	233	308	<i>382</i>	<i>382</i>
D	inch	19	19	22.6	27.2	27.2
	mm	483	483	575	692	692
E1	inch	1.6	1.6	1.7	2.1	2.8
	mm	40	40	44	53	70
E ₂	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
	<i>mm</i>	233	233	306	308	<i>315</i>



¹Chain containers increase the hoist headroom



PROFI 25TI – 100TI

Technical Data

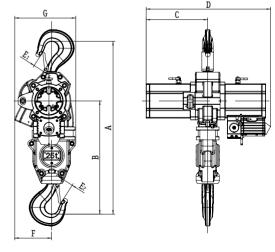
Туре		25 TI	30 TI	37 TI	40 TI	50 TI	60 TI	75 TI	100 TI		
Air pressure	psi bar		87 6								
Capacity	mt	25	30	37.5	40	50	60	75	100		
Number of chain strands		2	2 2 3 3 4 4								
Motor output	kW			6	.3			9	9		
Lifting speed at full load	ft/min <i>m/min</i>	4.1 1.25	3.3 1.0	4.4 1.33	3.3 1						
Lifting speed without load	ft/min <i>m/min</i>	7.9 2.4	7.9 2.4	1.7 0.53	1.3 0.4						
Lowering speed at full load	ft/min <i>m/min</i>	9.2 2.8	9.2 <i>2.8</i>	4.1 1.25	3.1 0.95						
Air consumption at full load – lifting	cfm <i>m³/min</i>		230 6.5								
Air consumption at full load – lowering	cfm <i>m³/min</i>)2 .9				212 6		
Air connection					G 1	1/2					
Hose dimension (Ø inside)	inch <i>mm</i>					¹ / ₂ 5					
Weight with standard lift, rope control	l lbs <i>kg</i>	1213 550	1213 550	1874 <i>850</i>	1874 <i>850</i>	2072 <i>940</i>	2072 <i>940</i>	3968 1800	4409 <i>2000</i>		
Chain dimension	mm			23.5	x 66			32 :	x 90		
Weight of chain	lbs/ft <i>kg/m</i>				.2 2.2				i.3 1.3		
Standard lift	ft m					.0 3					
Length of control at standard lift	ft m		6.5 2								
Noise level at full load¹ – lifting	dB(A)			7	8			7	7		
Noise level at full load ¹ – lowering	dB(A)		82 83								



¹Measured at 1 m distance acc. to DIN 45635 part 20 Group mechanism at 6 bar: PROFI 25TI, 37TI, 50TI, 75TI, 100TI: M3 (1 Bm), PROFI 30TI, 40TI, 60TI: M2 (1 Cm) 4 bar versions on request

Dimensions

Туре		25 TI	30 TI	37 TI	40 TI	50 TI	60 TI	75 TI	100 TI
A min. headroom ¹	inch	49.6	49.6	57.9	57.9	58.5	58.5	76	76
A min. neadroom	mm	1260	1260	1470	1470	1485	1485	1930	1930
В	inch	32.6	32.6	36.8	36.8	37.4	37.4	49.2	49.2
D	mm	827	827	935	935	950	950	1250	1250
С	inch	17.7	17.7	21.3	21.3	21.3	21.3	32.5	32.5
L	mm	450	450	540	540	540	540	825	825
D	inch	35.4	35.4	42.5	42.5	42.5	42.5	60.4	60.4
U	mm	900	900	1080	1080	1080	1080	1535	1535
E1	inch	2.8	2.8	3.9	3.9	3.9	3.9	4.7	4.7
L1	mm	70	70	100	100	100	100	120	120
E ₂	inch	2.8	2.8	3.9	3.9	3.9	3.9	4.7	4.7
E 2	mm	70	70	100	100	100	100	120	120
F up to hook centre	inch	10.6	10.6	11.2	11.2	9.8	9.8	15.9	14.4
r up to nook centre	mm	270	270	285	285	250	250	405	365
G maximum width	inch	17.5	17.5	17.7	17.7	16.9	16.9	23.6	23.6
	mm	445	445	450	450	430	430	600	600



¹Chain containers increase the hoist headroom

JDN AIR HOISTS M SERIES





Carrying capacities: 1 t up to 6 t Air pressure: 60 psi

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

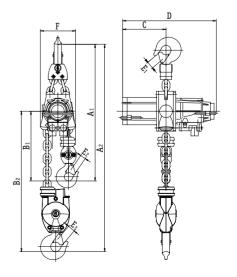
Туре		M 64	M 63 D
Carrying capacity	mt	1/2	3/6
Number of chain strands		1/2	1/2
Motor output	kW	0.77	1.3
Air pressure	psi bar	60 4	60 4
Lifting speed at full load	ft/min <i>m/min</i>	9.8/4.9 <i>3/1.5</i>	7.2/3.6 2.2/1.1
Lifting speed without load	ft/min <i>m/min</i>	26.3/13.1 <i>8</i> /4	16.4/8.2 5/2.5
Lowering speed at full load	ft/min <i>m/min</i>	41/21.3 12.5/6.5	19.7/9.8 6/3
Air consumption at full load - lifting	cfm <i>m³/min</i>	35.3 1.0	77.7 2.2
Air consumption at full load - lowering	cfm <i>m³/min</i>	70.6 2.0	113 <i>3.2</i>
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 / <i>31</i>	112.4 / 51
Chain dimension	mm	9 x 27	13 x 36
Weight of chain	lbs/ft <i>kg/m</i>	1.2 1.8	2.6 3.8
Heights of lift	ft m	16.4/8.2 5/2.5	16.4/8.2 5/2.5
Length of control	ft / <i>m</i>	6.6 / 2	6.6 / 2
Noise level at full load ¹	dB(A)	75-84	79-83

Group mechanism: M3 (1 Bm) $\,^{1}\text{Measured}$ at 1 m distance acc. to DIN 45635 part 20

Dimensions

Туре		M 64	M 63 D
A_1 (smallest headroom with 1/1 chain strands)	inch / mm	23.7 / 603	29.5 / 750
A_2 (smallest headroom with 1/2 chain strands)	inch / mm	26 / 660	34.3 / 870
B1 (with 1/1 chain strands)	inch / mm	12.3 / 313	14.6 / 370
B2 (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
E1 (Hook opening)	inch / mm	1.2 / 30	1.6 / 40
E2 (Hook opening)	inch / mm	1.2 / 30	1.6 / 40
E₃ (Hook opening)	inch / mm	1.2 / 30	1.2 / 30
F (maximum width)	inch / mm	5.7 / 144	7.7 / 195







Carrying capacities: up to 20 t

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

- As manual trolleys (LN) for pushing or pulling the trolleys by hand
- As reel chain trolleys (LH) for moving the trolleys by operating the reel chain mechanism
- As motorised trolley (LM) powered by an air motor

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*1
- Spark-resistant package*2
- Offshore paint*2

Energy Feeding Systems

The air supply can be fed by various systems:

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

*1From LM 3.2t upwards *2Not available for LN 1t ⁴At 6 bar

⁵55 mm, if hoist is suspended

⁶LN 1t not available with spark-resistant package

Fechnical Data	
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The	designatio	n of th	e trolley	is	composed	of	the	short	code	(LN,	LH,	LM)	and	the	carryi	١g
capa	icity acc. t	table	e, as for	exa	ample LN 1	t.										

JDN Air Hoist PROFI		025 TI	05 TI	1TI	1.5 TI	2 TI	3 TI/2	3 TI	6 TI	10 TI	16 TI	20 TI
Carrying capacity of trolley LN	mt		16		2		3.2		6.3	10-11		_
Carrying capacity of trottey EN			1		L							_
trolley LH and LM	mt			2			3.2	2	6.3	10-	-16	20
Carrying capacity of hoist with trolley	mt	0.25	0.5	1	1.6	2	3.1	2	6.3	10	16	20
Weight of Manual Trolley (LN)	lbs <i>kg</i>		23.1 10.5		39. 18		57.3 <i>26</i>		257.9 <i>117</i>	418 19		-
Weight of Reel Chain Trolley (LH)	lbs kg		57.3 26				81. <i>37</i>		280 127	485 <i>220</i>		628. <i>285</i>
Weight of Motor Trolley (LM)	lbs <i>kg</i>		57.3 <i>26</i>			72. 33		273.4 124	48 22		628. <i>285</i>	
Hoist weight, standard lift	lbs <i>kg</i>	59.5 <i>27</i>	59.5 <i>27</i>	61.7 28	123.5 <i>56</i>	75 34	145.5 <i>66</i>	189.6 <i>86</i>	242.5 110	344 156	529 <i>240</i>	628. 285
Total weight with standard lift Manual Trolley	lbs <i>kg</i>	82.7 37.5	82.7 37.5	84.9 <i>38.5</i>	163.1 74	114.6 <i>52</i>	202.8 <i>92</i>	246.9 <i>112</i>	500.4 <i>227</i>	762.8 <i>346</i>	948 <i>430</i>	-
Total weight with standard lift Reel Chain Trolley	lbs <i>kg</i>	116.8 53	116.8 53	119.1 54	180.8 <i>82</i>	132.3 <i>60</i>	227.1 <i>103</i>	271.1 <i>123</i>	522.5 <i>237</i>	829 <i>376</i>	1014 <i>460</i>	125 570
Total weight with standard lift Motor Trolley	lbs <i>kg</i>	116.8 53	116.8 <i>53</i>	119.1 54	180.8 <i>82</i>	132.3 <i>60</i>	218.3 <i>99</i>	262.4 119	515.9 <i>234</i>	829 <i>376</i>	1014 <i>460</i>	125 570
Weight of chain	lbs/ft <i>kg/m</i>		0.67 1		1.2 1.8	0.67 1	1.2 1.8		.6 .8		3.9 5.8	
Chain dimension	mm		7x21		9x27	7x21	9x27	13	x 36		16x45	
Number of chain strands				1			2	1	í		3	4
Air pressure Motor Trolley	psi bar		87 6		60-87 <i>4-6</i>	87 6	60-87 <i>4-6</i>			87 6		
Air consumption Motor Trolley ⁴ (at full load)	cfm m³∕min					1.2 0.6					45.9 1.3	
Air consumption hoist (at full load)	cfm m³/min		53 53-92 53 53-92 1.5 1.5-2.6 1.5 1.5-2.6				194.2 5.5					
Motor output Motor Trolley ⁴	kW					0.2					0.7	
Motor output hoist	kW		1		1.3-2	1	1.3-2			3.5		
Travelling distance Reel 33 Chain Trolley, chain reel off 10						4.6 1.4				3. 1.		3.3 1.0
Travelling speed Motor Trolley ⁴ (at full load)	ft/min <i>m/min</i>					*/45.9 */14				16	5.4*/39 5*/12	
Hose connection Motor Trolley	,		$G^{1/2}$		G 3/4	· .			G 3/	4	,	
Minimum radius Manual Trolley	ft m		3.3 ¹ 1.0 ¹		3.9 1.2	1	2.6 <i>0.8</i>		,	6.6 ² 2 ²		-
Minimum radius Reel Chain Trolley and Motor Trolley	ft m			2 ² 0.6 ²			2.6 0.8	2		6.6 ² 2 ²		8.2 2.5
Max. bottom flange thickness t Manual Trolley	inch mm		1.0 25	0.0	1. 28		1.0 40	5		2.6 ⁵		-
Manual Hottey Max. bottom flange thickness t Reel Chain and Motor Trolley	inch mm		25			, 1.6 <i>40</i>	40			0.5	2.6⁵ 65⁵	_
Max. bottom flange width b	inch		8.7 220		12 30	2			12.2 <i>310</i>		0.5-	-
Manual Trolley Max. bottom flange width b Real Chain and Mater Trolloy	mm inch		220	11	30				12.2			_
Reel Chain and Motor Trolley Min. bottom flange width b Manual Trolloy	mm inch		2.3	280	2.		2.3	2.1	310	5		-
Manual Trolley Min. bottom flange width b Roal Chain and Mator Trolloy	mm inch		58	2.2	66	,	58 2.3	54 2.1		128 5		5.8
Reel Chain and Motor Trolley Noise level at Motor Trolley ^{3,4}	mm dB(A)			56			58 80	54		128		148
1st speed of F control with two speeds Measured at the middle of the beam Measured at the inner edge of the beas Measured at 1m distance acc. to DIN 4 Measured at 1m distance acc.	n	0	• Ver	rsions	with or	ie and	e JDN M two hoo	ks (e.g	g. BBH)	see p	oage 2	2

• Low Headroom Trolleys for restricted headrooms see page 20





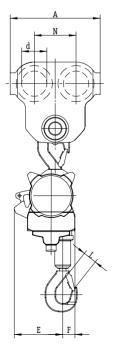


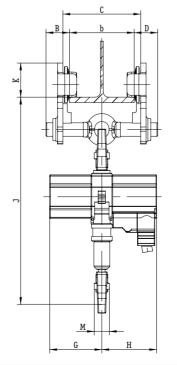
PROFI in Manual Trolley (LN)

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
With Trolley			LN 1 t		LN	2 t	LN 3	8.2 t	LN 6.3 t	LN 10)-16 t
A	inch mm		10.2 <i>260</i>		12 <i>31</i>		11 29		19.7 500	19 49	
B max.	inch <i>mm</i>		4.8 122		6. 16		4. 11	3	6.2 157	6 10	
C	inch mm			b + 1 b + 26			b + b +			b + 2.8 b + 70	
d	inch <i>mm</i>		2.7 68		3. 80	0	3. 8	4		6.5 165	
D max.	inch <i>mm</i>		4.8 122		6. 16	2	4. 11	3	6.2 157	6 10	52
E	inch <i>mm</i>		5.4 137		5.7 170	5.4 137	5.5 140	7.4 187	6.1 <i>154</i>	7.8 197	7.8 199
F	inch mm		1.5 39		1.8 45	1.8 46	3.0 75	1.8 46	3.1 79	4 10	
G	inch <i>mm</i>		5.7 145		7.9 200	5.7 145	7.9 200		.2 33	12.1 <i>308</i>	15 <i>382</i>
Н	inch <i>mm</i>		6 152		3.3 212	6 152	3.3 212		.8 50	10.5 267	12.2 <i>310</i>
J* (mounted)	inch mm	-	- -	-	-	-	24.1 <i>613</i>	25 635	30 763	37 929	39 <i>982</i>
J* (suspended)	inch mm		20.9 <i>530</i>		23.1 588	23.5 597	-	31.4 798	36.2 919	46.3 1176	49.6 1260
К	inch mm	2.7 67.		3.2 81.5	3. 94		4. 10			7.4 188	
L	inch <i>mm</i>		1.1 28		1.0 26		1 28	1.2 30	1.6 40	1.7 44	2.1 53
М	inch <i>mm</i>		1.7 42		1.6 40		1.7 42		2 51	2.6 66	3.2 <i>82</i>
Ν	inch mm		5.1 <i>130</i>		5. 15		5. 13			9.3 <i>236</i>	

*Chain containers increase the hoist headroom







PROFI 1TI in Manual Trolley

JDN TROLLEYS

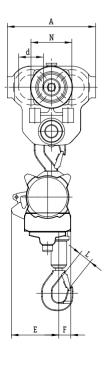


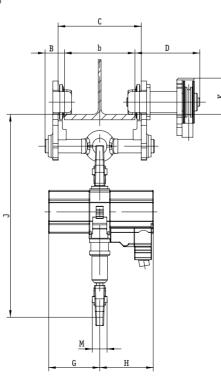
PROFI in Reel Chain Trolley (LH)

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	3.2 t	LH 6.3 t	LH 10)-16 t	LH 20 t
А	inch mm			9.8 250			11 29	92	19.7 500	19 49	90	23.6 <i>600</i>
B max.	inch mm			5.1 <i>130</i>			4. 11		6.2 157	6. 10		5.2 132
C	inch mm			b + 1.4 b + 36			b + b +			b + 2.8 b + 70		b + 2.7 b + 68
d	inch mm			2.8 70			3. <i>8</i>			6.5 165		7.3 185
D	inch mm		7.2 184		11.2 284	7.2 184	11.6 <i>294</i>	11.6 <i>294</i>	12.1 <i>307</i>	12 32	2.6 20	12.6 <i>320</i>
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 <i>mm</i>		1.5 39		1.7 45	1.8 46	3.0 75	1.8 46	3.1 79	4. 10		5.3 135
G	inch mm		5.7 145		7.9 200	5.7 145	7.9 200).2 33	12.1 308		15 82
Н	inch <i>mm</i>		6 152		3.3 <i>212</i>	6 152	3.3 <i>212</i>).8 150	10.5 <i>267</i>		2.2 10
J* (mounted)	inch <i>mm</i>	-	-	-	-	-	24.1 <i>613</i>	25 635	30 763	37 929	39 <i>982</i>	44.3 1125
J* (suspended)	inch <i>mm</i>		22.2 563		23.7 602	24.1 <i>611</i>	-	31.4 798	36.2 919	46.3 1176	46.1 1171	58.1 1475
К	inch mm			4.1 103			4. 11			8.5 215		8.9 <i>226</i>
L	inch mm		1.1 28		1.0 26		l.1 28	1.2 30	1.6 40	1.7 44	2.1 53	2.9 75
М	inch mm		1.7 42		1.6 40		1.7 42		2 51	2.6 66	3.2 <i>82</i>	3.4 <i>86</i>
Ν	inch mm			4.6 116			5. 13			9.3 <i>236</i>		10.8 <i>274</i>

*Chain containers increase the hoist headroom











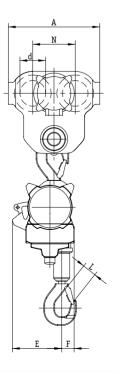


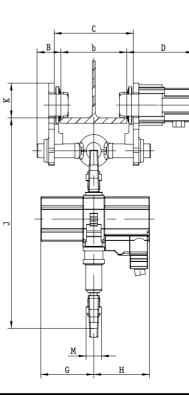
PROFI in Motor Trolley (LM)

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	3.2 t	LM 6.3 t	LM 10)-16 t	LM 20 t
A	inch mm			9.8 250			11 29		19.7 500	19 49		23.6 600
B max.	inch mm			5.1 <i>130</i>			4.		6.2 157	6 10		5.3 134
C	inch mm			b + 1.4 b + 36			b + b +	2.4 60		b + 2.8 b + 70		b + 2.7 b + 68
d	inch <i>mm</i>			2.8 70			3.			6.5 165		7.3 185
D	inch mm		7.3 185		7.3 185	7.3 185	7.	91	8.1 205	12 31		12.9 <i>328</i>
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 <i>39</i>		1.7 45	1.8 46	3.0 75	1.8 46	3.1 79	4 10		5.3 135
G	inch <i>mm</i>		5.7 145		7.9 200	5.7 145	7.9 200		9.2 233	12.1 308		15 <i>82</i>
н	inch <i>mm</i>		6 152		3.3 <i>212</i>	6 152	3.3 <i>212</i>		9.8 250	10.5 <i>267</i>		2.2 10
J* (mounted)	inch <i>mm</i>	-	-	-	-	-	24.1 <i>613</i>	25 635	30 763	37 929	39 <i>982</i>	44.3 1125
J* (suspended)	inch <i>mm</i>		22.2 563		23.7 <i>602</i>	24.1 <i>611</i>	-	31.4 798	36.2 919	46.3 1176	46.1 1171	58.1 1475
К	inch <i>mm</i>			3.7 95			4 10	.2)7		7.4 188		8.6 218
L	inch <i>mm</i>		1.1 28		1.0 <i>26</i>		1 ?8	1.2 30	1.6 40	1.7 42	2.1 55	2.9 75
М	inch mm		1.7 42		1.6 40		1.7 42		2 51	2.6 66	3.2 <i>82</i>	3.4 <i>86</i>
Ν	inch mm			4.6 116			5	.4 36		9.3 236		10.8 274

*Chain containers increase the hoist headroom







JDN LOW HEADROOM TROLLEYS



The trolley solution for restricted headroom areas. Carrying capacities: 0.5 t to 6.3 t standard, larger sizes upon request

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 horizontally mounted. 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
- Optional 2-speed travelling speed
- Adjustable trolley widths to suit your requirements

Special Features

- In special KRV design
- 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
Carrying capacity	mt	0.5	1	2	3.2	6.3
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
Air pressure	psi	87	87	87	87	87
	bar	6	6	6	6	6
Lifting speed at full load	ft/min	32.81	16.40	8.20	14.76	7.21
	<i>m/min</i>	<i>10</i>	5	<i>2.5</i>	4.5	<i>2.2</i>
Lifting speed without load	ft/min	55.77	32.81	16.40	29.52	14.76
	<i>m/min</i>	<i>17</i>	10	5	<i>9</i>	4.5
Lowering speed at full load	ft/min	55.77	36.09	18.04	35.43	17.72
	<i>m/min</i>	<i>17</i>	<i>11</i>	5.5	<i>10.8</i>	5.4
Travelling speed at full load	ft/min	29.53*/45.93	29.53*/45.93	29.53*/45.93	29.53*/45.93	29.53*/45.93
	<i>m/min</i>	9*/14	<i>9*/14</i>	9*/14	<i>9*/14</i>	<i>9*/14</i>
Air consumption at full	cfm	42.38	42.38	42.38	141.26	141.26
load – lifting	<i>m³/min</i>	1.2	1.2	1.2	4	4
Air consumption at full	cfm	52.97	52.97	52.97	194.23	194.23
load – lowering	m³/min	1.5	1.5	1.5	5.5	5.5
Air consumption	cfm	21.19	21.19	21.19	21.19	21.19
trolley motor	m³/min	0.6	0.6	0.6	0.6	0.6
Air connection	,	G 1/2	G 1/2	G 1/2	G ³ / ₄	G ³ / ₄
Hose dimension (Ø inside)	inch	1/2	1/2	1/2	³ / ₄	³ / ₄
	mm	13	13	13	19	19
Weight with standard lift	lbs	216.05	218.26	231.59	462.97	727.53
and control	<i>kg</i>	98	99	<i>105</i>	<i>210</i>	<i>330</i>
Chain dimension	inch	0.28 x 0.83	0.28 x 0.83	0.28 x 0.83	0.51 x 1.42	0.51 x 1.42
	mm	7 <i>x 21</i>	7 <i>x 21</i>	7 <i>x 21</i>	<i>13 x 36</i>	<i>13 x 36</i>
Weight of chain	lbs/ft	0.67	0.67	0.67	2.6	2.6
	<i>kg/m</i>	1	1	1	3.8	3.8
Standard lift	ft	10	10	10	10	10
	m	3	3	3	3	<i>3</i>
Length of control at standard lift	ft	6.5	6.5	6.5	6.5	6.5
	m	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>
Max. bottom flange	inch	0.98	0.98	0.98	1.38	1.38
thickness t	mm	<i>25</i>	<i>25</i>	<i>25</i>	<i>35</i>	<i>35</i>
Max. bottom flange width b	inch	12.20	12.20	12.20	12.20	12.20
	mm	<i>310</i>	<i>310</i>	<i>310</i>	<i>310</i>	<i>310</i>
Min. bottom flange width b	inch	3.15	3.15	3.15	4.92	4.92
	mm	<i>80</i>	<i>80</i>	<i>80</i>	<i>125</i>	<i>125</i>
Noise level at full load ¹ – lifting	dB(A)	75	76	76	78	78
Noise level at full load ¹ – lowering	dB(A)	78	78	78	80	80

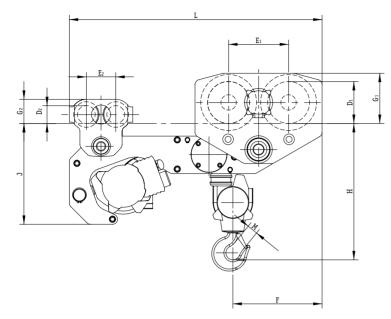


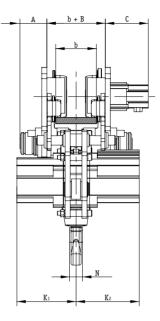
*1st step at F-control with 2-step travelling speed, 'Measured at 1m distance acc. to DIN 45635 part 20











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	4.13	4.13	4.13	4.17
	<i>105</i>	<i>105</i>	<i>105</i>	<i>105</i>	106
B inch mm	1.42	1.42	1.42	1.42	2.76
	<i>36</i>	<i>36</i>	<i>36</i>	36	70
b min. inch mm	3.15	3.15	3.15	3.15	4.92
	<i>80</i>	<i>80</i>	<i>80</i>	<i>80</i>	125
C inch mm	6.46	6.46	6.46	6.46	6.65
	<i>164</i>	<i>164</i>	<i>164</i>	<i>164</i>	<i>169</i>
D ₁ inch mm	2.76	2.76	2.76	2.76	6.50
	70	70	70	70	<i>165</i>
D2 inch	2.76	2.76	2.76	2.76	2.76
	70	70	70	70	70
E1 inch mm	4.57	4.57	4.57	4.57	9.29
	116	116	116	116	<i>236</i>
E2 inch mm	4.57	4.57	4.57	4.57	4.57
	116	116	116	116	116
F inch mm	6.77	6.77	7.68	8.98	13.82
	<i>172</i>	172	195	<i>228</i>	<i>351</i>
G1 inch mm	3.74	3.74	3.74	3.74	7.76
	95	95	95	95	197
G2 inch mm	3.74	3.74	3.74	3.74	3.74
	95	95	95	95	95
H min. inch	12.60	12.60	15.51	16.34	21.14
	<i>320</i>	<i>320</i>	<i>394</i>	415	537
J inch mm	12.60	12.60	12.60	15.63	15.63
	<i>320</i>	<i>320</i>	<i>320</i>	<i>397</i>	<i>397</i>
K ₁ inch mm	5.71	5.71	5.71	9.17	9.17
	<i>145</i>	<i>145</i>	<i>145</i>	233	233
K ₂ inch	5.98	5.98	5.98	9.76	9.76
mm	<i>152</i>	<i>152</i>	<i>152</i>	248	248
L inch	28.15	28.15	28.15	32.48	39.17
	<i>715</i>	715	715	<i>825</i>	<i>995</i>
M inch mm	1.10	1.10	1.10	1.18	1.57
	28	<i>28</i>	<i>28</i>	<i>30</i>	40
N inch mm	1.65	1.65	1.65	1.65	2.01
	42	42	42	42	51
t max. inch mm	0.98	0.98	0.98	1.38	1.38
	<i>25</i>	<i>25</i>	<i>25</i>	<i>35</i>	35

JDN BIG BAG HANDLING AIR HOISTS



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 carrying capacities of 1100 kg and 2200 kg with an air pressure of 6 bar.

Designs with one or two load hooks

Technical Data

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.

Туре		BBH 1000-1	BBH 2000-1	
Number of hooks			1	
Air pressure	psi / bar	87	/ 6	
Carrying capacity	mt	1.1	2.2	
Number of chain strands		1	2	
Engine output hoist	kW	0	.7	
Engine output trolley	kW	0	.2	
Lifting speed at full load	ft/min <i>m/min</i>	12.14 3.7	5.58 <i>1.7</i>	
Lifting speed without load	ft/min <i>m/min</i>	24.61 7.5	11.48 <i>3.5</i>	
Lowering speed at full load	ft/min <i>m/min</i>	32.81 10	16.40 5	
Air consumption at full load – lifting	cfm <i>m³/min</i>		.44 .4	
Air consumption at full load - lowering	cfm <i>m³/min</i>	42.38 1.2		
Air consumption at full load - trolley	cfm <i>m³/min</i>		.19 .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 <i>130</i>	302.03 <i>137</i>	
Chain dimension	mm	7 >	: 21	
Weight of chain	lbs/ft / kg/m	0.67	//1	
Standard lift	ft / <i>m</i>	10	/ 3	
Length of control at standard load – lift	ft / <i>m</i>	6.5	/ 2	
Noise level at full load ¹ – lifting	dB(A)	7	6	
Noise level at full load ¹ – lowering	dB(A)	7	8	
Noise level at full load ¹ – trolley	dB(A)	8	0	

- 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)).

• 100% duty rating, and thus no downtimes.

Dimensions

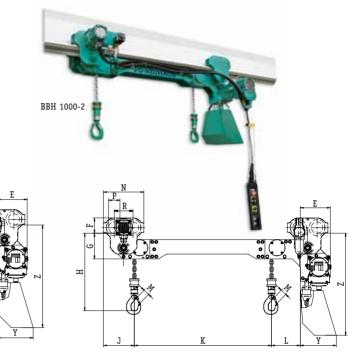
Тур	e		BBH 1000-1	BBH 2000-1				
А		inch / mm	13.1	/ 332				
В		inch / mm	6.4/8.7 / 163/220					
b	min.	inch / mm	3.54	/ 90				
D	max.	inch / mm	12.20	/ 310				
С		inch / mm	7.17	/ 182				
Ε		inch / mm	7.68	/ 195				
F		inch / mm	3.7	/ 95				
G		inch / mm	6.3 /	159				
Н		inch / mm	15.3 / 388	17.24 / 438				
J		inch / mm	7.56 / 192	8.66 / 220				
К	min.	inch / mm	17.13 / 435	16.14 / 410				
ĸ	max.	inch / mm	43.31	/ 1100				
L		inch / mm	- ,	/ _				
М		inch / mm	1.10	/ 28				
Ν		inch / mm	9.84	/ 250				
Р		inch / mm	2.76	/ 70				
R		inch / mm	4.57 / 116					
t	max.	inch / mm	1.18	/ 30				

Group mechanism: M4 (1 Am) \cdot 1 Measured at 1 m distance acc. to DIN 45635 part 20









Technical Data

Туре		BBH 1000-2	BBH 2000-2
Number of hooks		i	2
Air pressure	psi bar	8	7 5
Carrying capacity	mt	1.1	2.2
Number of chain strands		2	4
Engine output hoist	kW	0	.7
Engine output trolley	kW	0	.2
Lifting speed at full load	ft/min <i>m/min</i>	12.14 <i>3.7</i>	5.58 <i>1.7</i>
Lifting speed without load	ft/min <i>m/min</i>	24.61 7.5	11.48 <i>3.5</i>
Lowering speed at full load	ft/min <i>m/min</i>	32.81 10	16.40 5
Air consumption at full load - lifting	cfm m³/min		.44 .4
Air consumption at full load - lowering	cfm m³/min		38 2
Air consumption at full load – trolley	cfm m³/min		.19 <i>6</i>
Air connection	,		1/2
Hose dimension (Ø inside)	inch mm		3
Weight at standard lift and minimum k dimension	lbs <i>kg</i>	302.03 <i>137</i>	328.49 <i>149</i>
Chain dimension	mm	7 x	21
Weight of chain	lbs/ft <i>kg/m</i>	0.	67 !
Standard lift	ft m	1	0 3
Length of control at standard load – lift	ft m		.5
Noise level at full load ¹ – lifting	dB(A)	7	6
Noise level at full load ¹ – lowering	dB(A)	7	8
Noise level at full load ¹ – trolley	dB(A)	8	0

° (

Dimensions

Туре	e		BBH 1000-2	BBH 2000-2
А		inch		.1
		mm		32
В		inch <i>mm</i>	,	/8.7 /220
		inch	,	54
	min.	mm	3. 9	
b		inch	12.	.20
	max.	mm	31	
С		inch	7.	
Ũ		mm		82
Ε		inch mm	14.69 <i>373</i>	13.62 <i>346</i>
		inch		540 74
F		mm		/4 5
<u>,</u>		inch	6.	
G		mm	15	59
Н		inch	15.3	17.24
		mm	388	438
J		inch	7.56	8.66
		<i>mm</i> inch	192	220
	min.	mm	20	.24
Κ		inch		.18
	max.	mm	13	00
L		inch	6.89	5.91
2		mm	175	150
М		inch		10
		<i>mm</i> inch	2 9.	
Ν		mm		64 50
		inch		76
Ρ		mm	7	0
R		inch	4.	
N		mm		16
t	max.	inch		18
		mm	3	0

JDN MONORAIL AIR HOISTS



Carrying 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 handling 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.

Technical Data

Туре		EH 10	EH 16	EH 20	EH 25	EH 30	EH 37	EH 40	EH 50	EH 60	EH 75	EH 100
Carrying capacity	mt	10	16	20	25	30	37.5	40	50	60	75	100
Number of chain strands		2	3	4	2	2	3	3	4	4	3	4
Motor output Trolley	kW	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
Motor output Hoist	kW	3.5	3.5	3.5	6.3	6.3	6.3	6.3	6.3	6.3	9	9
Air pressure	psi	87	87	87	87	87	87	87	87	87	87	87
	bar	6	6	6	6	6	6	6	6	6	6	6
ifting speed at full load	ft/min	5.3	3.3	2.3	4.1	3.3	2.5	2.3	1.8	1.5	1.7	1.3
	<i>m/min</i>	1.6	1.0	0.7	1.25	1.0	0.75	0.7	0.55	0.45	0.53	0.4
ifting speed without load	ft/min	10.5	6.6	4.6	7.9	7.9	5.6	5.6	4.3	4.3	4.4	3.3
	<i>m/min</i>	<i>3.2</i>	2.0	1.4	2.4	2.4	1.7	1.7	1.3	1.3	1.3	1.0
owering speed at full load	ft/min	11.2	6.9	5.3	9.2	9.2	6.6	6.6	5.3	5.3	4.1	3.1
	<i>m/min</i>	<i>3</i> .4	2.1	1.6	2.8	2.8	2.0	2.0	1.6	1.6	1.25	0.95
ravelling speed at full load	ft/min	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	23	23
	<i>m/min</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	7	7
ravelling speed without load	ft/min	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	26.3	26.3
	<i>m/min</i>	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	8	8
ir consumption – Trolley	cfm	46	46	46	92	92	92	92	92	92	184	184
	m³/min	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	5.2	5.2
ir consumption – Hoist lifting)	, cfm m³/min	141.5 4	141.5 4	141.5 4	229.6 <i>6</i> .5	229.6 <i>6</i> .5	229.6 <i>6</i> .5	229.6 <i>6</i> .5	229.6 <i>6</i> .5	229.6 <i>6</i> .5	283 <i>8</i>	283 <i>8</i>
ir connection	,	G ³ /4	G ³ / ₄	G ³ /4	G 1 1/2	G1 ¹ / ₂	G1 ¹ / ₂	G1 ¹ / ₂	G 1 1/2	G 1 1/2	G 1 ¹ / ₂	G 1 ¹ / ₂
ose dimension(Ø inside)	inch	³ / ₄	³ / ₄	³ / ₄	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂
	<i>mm</i>	19	19	19	35	35	35	35	35	35	35	35
/eight with standard lift	lbs	992.1	1267.7	1366.3	2205	2205	3307	3307	3638	3638	8267	11244
	<i>kg</i>	<i>450</i>	575	<i>620</i>	1000	1000	1500	1500	<i>1650</i>	1650	3750	<i>5100</i>
hain 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	32 x 90	32 x 9
leight of chain	lbs/ft	3.9	3.9	3.9	3.9	8.2	8.2	8.2	8.2	8.2	14.3	14.3
	<i>kg/m</i>	5.8	5.8	5.8	12.2	12.2	12.2	12.2	12.2	12.2	21.3	21.3
tandard lift	ft	10	10	10	10	10	10	10	10	10	10	10
	m	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	3
ength of control at	ft	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
tandard lift	m	<i>2</i>	2	<i>2</i>	2	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	2
oise level at full load ¹ rith standard silencer – lifting	dB(A)	78	78	80	78	78	78	78	78	78	77	77
loise level at full load ¹ with tandard silencer – lowering	dB(A)	80	80	84	82	82	82	82	82	82	83	83







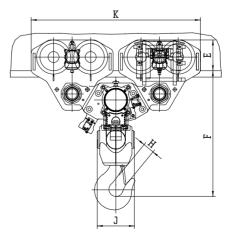


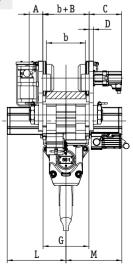


Dimensions

Туре		EH 10	EH 16	EH 20	EH 25	EH 30	EH 37	EH 40	EH 50	EH 60	EH 75	EH 100
A	inch	4.1	5.1	5.1			6.8 ¹		4.9	4.9	3.9	4.9
	mm	105	130	130	<i>90-172</i> ¹				125	125	100	125
В	inch	2.8	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7
-	mm	70	68	68	70	70	68	68	68	68	68	68
С	inch	11.2	11.6	11.6	11.6	11.6	11.6	11.6	11.8	11.8	11.6	11.8
č	mm	285	295	295	295	295	295	295	300	300	295	300
D	inch	0.9	1.4	1.4	0.9	1.4	1.4	1.4	1.6	1.6	1.4	1.6
U	mm	25	35	35	25	35	35	35	40	40	35	40
E	inch	7.8	8.7	8.7	7.4	7.4	8.6	8.6	11.1	11.1	8.6	11.1
-	mm	198	220	220	188	188	218	218	283	283	218	283
F*	inch	27.8	29.5	32.3	39.3	39.3	43.0	43.0	44.9	44.9	59.2	59.2
	mm	705	750	820	998	998	1090	1090	1140	1140	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
U	mm	138	213	200	170	170	320	320	420	420	480	575
н	inch	1.7	2	2.8	2.8	2.8	3.9	3.9	3.9	3.9	4.7	4.7
	mm	44	53	70	70	70	100	100	100	100	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
0	mm	192	185	266	350	350	330	330	340	340	455	470
К	inch	22.8	23.6	23.6	43.3	43.3	55.1	55.1	61.0	61.0	118.9	124.8
N .	mm	580	600	600	1100	1100	1400	1400	1550	1550	3020	3170
L	inch	12.1	14.5	14.5	17.7	17.7	21.3	21.3	21.3	21.3	32.5	32.5
-	mm	308	367	367	450	450	540	540	540	540	825	825
м	inch	10.5	12.8	12.8	17.7	17.7	21.3	21.3	21.3	21.3	27.8	27.8
ri -	mm	266	325	325	450	450	540	540	540	540	706	706

¹Depending on beam width *Chain containers increase the hoist headroom





JDN ULTRA-LOW MONORAIL HOISTS

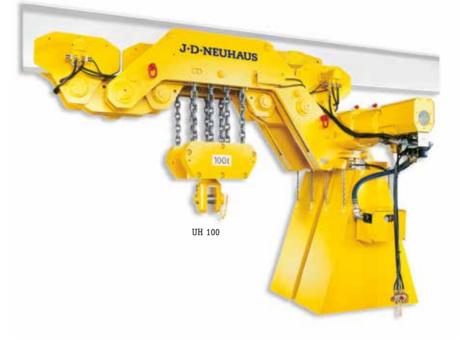


Carrying capacities: 2 t up to 100 t Air pressure: 87 psi

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



Technical Data

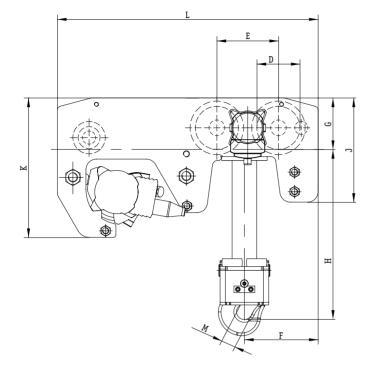
Туре		UH 4	UH 6	UH 8	UH 12	UH 16
Carrying capacity	mt	4	6	8	12	16
Number of chain strands		2	2	4	4	4
Motor output	kW	2.5	2.5	2.5	2.5	2.5
Air pressure	psi	87	87	87	87	87
	bar	6	6	6	6	6
Lifting speed at full load	ft/min	9.84	6.56	4.59	2.95	2.13
	<i>m/min</i>	<i>3.0</i>	<i>2.0</i>	<i>1.4</i>	<i>0.9</i>	<i>0.65</i>
Lifting speed without load	ft/min	19.69	14.76	9.51	7.22	3.94
	<i>m/min</i>	<i>6.0</i>	4.5	<i>2.9</i>	2.2	<i>1.2</i>
Lowering speed at full load	ft/min	24.61	17.06	11.81	8.20	4.92
	<i>m/min</i>	7.5	<i>5.2</i>	<i>3.6</i>	<i>2</i> .5	1.5
Air consumption lifting –	cfm	141.26	141.26	141.26	141.26	141.26
full load	m³/min	<i>4.0</i>	<i>4.0</i>	<i>4.0</i>	<i>4.0</i>	4.0
Air consumption lowering –	cfm	194.23	194.23	194.23	194.23	194.23
full load	<i>m³/min</i>	5.5	5.5	5.5	5.5	5.5
Air connection	,	G ³ / ₄				
Hose dimension (Ø inside)	inch	³ / ₄				
	mm	19	19	19	19	19
Weight with standard lift	lbs	1014.13	1036.17	1190.50	1212.54	1234.60
	<i>kg</i>	<i>460</i>	470	<i>540</i>	550	<i>560</i>
Chain dimension	mm	13 x 36				
Weight of chain	lbs/ft	2.6	2.6	2.6	2.6	2.6
	<i>kg/m</i>	3.8	3.8	3.8	3.8	3.8
Standard lift	ft	10	10	10	10	10
	m	3	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>
Length of control at standard lift	ft	6.5	6.5	6.5	6.5	6.5
	m	<i>2</i>	2	<i>2</i>	2	<i>2</i>
Noise level at full load ¹ – lifting	dB(A)	78	78	78	78	78
Noise level at full load ¹ – lowering	dB(A)	80	80	80	80	80

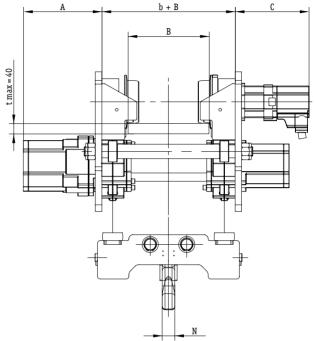
¹Measured at 1m distance acc. to DIN 45635 part 20 Group mechanism: M3 (1 Bm) Technical data for higher capacities on request.











Dimensions

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

Dimensions for higher capacities on request.

JDN BOP HANDLING SYSTEMS



Carrying 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

Туре		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
Carrying capacity	mt	20	32	40	50	75	100	150	200
Weight with standard lift	lbs	1984	2535	2734	4409	6614	7275	17637	25133
	<i>kg</i>	<i>900</i>	1150	1240	<i>2000</i>	<i>3000</i>	3300	<i>8000</i>	<i>11400</i>
Standard lift	ft	10	10	10	10	10	10	10	10
	m	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>
Length of control at standard lift	ft	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	m	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>

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 up to -45°C

JDN HOISTS FOR USE IN THE TOUGHEST CONDITIONS







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



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



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

JDN HYDRAULIC HOISTS AND MONORAIL HOISTS



Hydraulic Hoists PROFI / Hydraulic Monorail Hoists Carrying capacities: up to 100 t

JDN Hydraulic Hoists and Hydraulic

Monorail Hoists are available with carrying 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









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

Technical Data

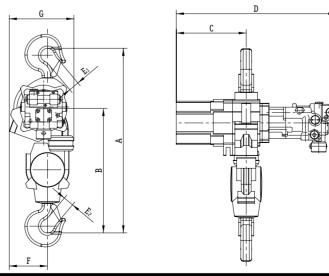
Туре		3 TI-H	6 TI-H	10 TI-H	16 TI-H	20 TI-H
Carrying capacity	mt	3.2	6.3	10	16	20
Number of chain strands		1	2	2	3	4
Motortype		KM 1/16				
Motor output	kW	3.5	3.5	3.5	3.5	3.5
Intake pressure	psi / bar	1885 / 130	1885 / 130	1885 / 130	1885 / 130	1885 / 130
Intake volume	cfm <i>l/min</i>	1.7 48	1.7 48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

Group mechanism: M3 (1 Bm)

Dimensions

Туре		3 TI-H	6 TI-H	10 TI-H	16 TI-H	20 TI-H
A smallest headroom ¹	inch / mm	23.4 / 593	26.5 / 674	32 / 813	35.4 / 898	40.6 / 1030
В	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 / <i>382</i>	15 / <i>382</i>
D	inch / mm	22.8 / 578	22.8 / 578	26.4 / 670	31 / 787	31 / 787
E1	inch / mm	1.6 / 40	1.6 / 40	1.8 / 44	2.1 / 53	2.8 / 70
E2	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

 $^{1}\,\mathrm{Chain}$ containers increase the hoist headroom



JDN HYDRAULIC HOISTS AND MONORAIL HOISTS



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

Technical Data

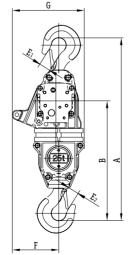
Туре		25 TI-H	37 TI-H	50 TI-H	75 TI-H	100 TI-H
Capacity	mt	25	37.5	50	75	100
Number of chain strands		2	3	4	3	4
Motor output	kW	6	б	б	9	9
Motor type		KM 2/32	KM 2/32	KM2/32	KM2/32	KM2/32
Intake pressure	psi	2176	2176	2176	2611	2611
	bar	<i>150</i>	<i>150</i>	<i>150</i>	<i>180</i>	<i>180</i>
Intake volume	cfm	2.8	2.8	2.8	3.0	3.0
	<i>l/min</i>	<i>80</i>	<i>80</i>	<i>80</i>	<i>85</i>	<i>85</i>
Lifting speed at rated load	ft/min	3.6	2.3	1.6	1.7	1.3
	<i>m/min</i>	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
	<i>m/min</i>	1.2	0.8	0.5	<i>0.6</i>	0.45
Lowering speed at rated load	ft/min	3.9	2.6	1.6	2.0	1.5
	<i>m/min</i>	1.2	0.8	0.5	<i>0.6</i>	0.45
Lowering speed without load	ft/min	3.9	2.6	1.6	2.0	1.5
	<i>m/min</i>	1.2	0.8	0.5	<i>0.6</i>	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	lbs	1282	2123	2068	4079	4519
and control	<i>kg</i>	583	965	<i>940</i>	1850	<i>2050</i>
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
	<i>kg/m</i>	12.2	12.2	12.2	21.3	21.3
Standard lift	ft	10	10	10	10	10
	m	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>
Length of control with standard lift	ft	6.5	6.5	6.5	6.5	6.5
	m	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>

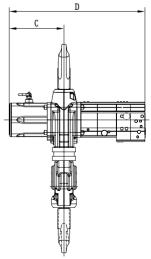
Group mechanism: PROFI 25TI-H - PROFI 100TI-H M3 (1 Bm)

Dimensions

Туре		25 TI-H	37 TI-H	50 TI-H	75 TI-H	100 TI-H
A smallest headroom ¹	inch	50.5	57.7	66.9	76.0	76.0
	mm	1282	1466	1700	1930	1930
В	inch	37.3	36.8	45	49.2	49.2
U	mm	948	935	1144	1250	1250
c	inch	15.5	14.8	17.4	32.5	32.5
С	mm	393	377	442	825	825
D	inch	42.1	40.8	48.6	64.4	64.4
D	mm	1069	1037	1235	1635	1635
E1	inch	2.8	3.9	3.9	4.7	4.7
E 1	mm	70	100	100	120	120
-	inch	2.8	3.9	3.9	4.7	4.7
E ₂	mm	70	100	100	120	120
F	inch	18.4	20.4	12.2	15.9	14.4
F	mm	466	518	310	405	365
C	inch	24	29.3	21.2	23.6	23.6
G	mm	610	745	539	600	600

¹ Chain containers increase the hoist headroom









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

Technical Data

Туре		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
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
Intake pressure	psi	1885	2176	2176	2176	2611	2611
	bar	<i>130</i>	<i>150</i>	<i>150</i>	<i>150</i>	<i>180</i>	<i>180</i>
Intake volume	cfm	1.7	2.8	2.8	2.8	3	3
	<i>l/min</i>	48	<i>80</i>	<i>80</i>	<i>80</i>	85	<i>85</i>
Lifting speed at rated load	ft/min	2.0	3.6	2.3	1.6	1.7	1.3
	<i>m/min</i>	<i>0.6</i>	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
	<i>m/min</i>	<i>0.6</i>	1.2	0.8	0.6	0.6	0.45
Lowering speed at rated load	ft/min	2.1	3.9	2.6	2	2	1.5
	<i>m/min</i>	0.65	1.2	0.8	0.6	0.6	0.45
Lowering speed without	ft/min	2.1	3.9	2.6	2	2	1.5
load	<i>m/min</i>	0.65	1.2	0.8	0.6	0.6	0.45
Travelling speed at rated load	ft/min	39.4	39.4	39.4	39.4	39.4	39.4
	<i>m/min</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>
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	lbs	1584	2310	3410	4136	8378	11354
and control	<i>kg</i>	<i>720</i>	<i>1050</i>	<i>1550</i>	<i>1880</i>	<i>3800</i>	<i>5150</i>
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
	<i>kg/m</i>	5.8	12.2	12.2	12.2	21.3	21.3
Standard lift	ft	10	10	10	10	10	10
	m	<i>3</i>	3	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>
Length of control	ft	6.5	6.5	6.5	6.5	6.5	6.5
with standard lift	m	<i>2</i>	2	2	<i>2</i>	2	2





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

Dimensions

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

¹Chain containers increase the hoist headroom

JDN CRANE SYSTEMS/CRANE KITS

Explosion-protected JDN Crane Systems are the right choice for the most challen-

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
- Carrying capacities up to 100 t
- Crane spans up to 36 m



JDN Crane Kits for explosion-proof air cranes

Carrying capacities: up to 100 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 100 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

Load 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	х	9/14	х		5/12	х	+
2 t	7/20	х	9/14	х		2.5/6	х	+
3 t	7/20	х	9/14	х		3.5/8.5	х	+
6 t	10/24	х	9/14	х		1.5/3.5	х	+
10 t	7/20	х	5/12	х		1.0/3.0	х	+
15 t	5/25	х	5/12	х	+	0.7/1.5	х	+
20 t	5/25	х	5/12	х	+	0.5/1.3	х	+
32 t	5/25	х	5/12	х	+	0.6/1.3	х	
40 t	5/25	х	5/12	х	+	0.65/1.2	х	
50 t	5/25	х	5/12	х	+	0.50/1.1	х	

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

JDN FOOD GRADE HOISTS





Clean room and food grade upgrades are available for most models and are suitable for a wide variety of wash down, pharmaceutical, food and beverage processing, and clean assembly applications.

Food Grade Coatings: Nickel Plating, FDA Powder-Coating, FDA Epoxy Paints

Stainless Accessories: Stainless Load Chain, Hooks, Trolley Wheels, Exposed Hardware

Additional Features: Sealed motor and gearbox assemblies, special lubricants, filtered or piped exhaust

Clean Hoist System Features and Upgrades

- Patented Oil-Free Air Motor
- Nickel Plated Hoist Body
- Stainless Hi-Grade Chain
- Stainless Trolley Wheels
- Filtered or Piped Exhaust
- Sealed Motor and Gearbox
- FDA Approved White Epoxy
- Stainless Hook Assemblies
- Class 1 Div 1 Spark Resistant
- Food Grade Lubricants

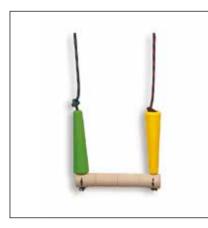


Contact J.D. Neuhaus for additional information and to schedule an onsite project consultation.

JDN CONTROLS



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 carrying 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/AL Control

Sensitive control, with improved ergonomics:

The FI/AL Control provides infinitely variable speed control in a compact yet rugged aluminum housing with improved ergonomics. Ideal for a wide range of manufacturing and assembly applications. Available for both our Mini and Profi series of air hoists.



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 it's 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.

JDN ENERGY SUPPLIES



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

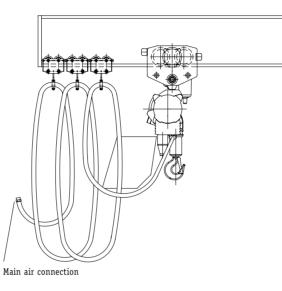
- Hose trolleys
- Spiral hose
- Square bar or C rail
- Energy chain

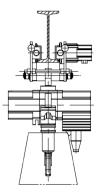
Hose trolleys

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





Spiral hose

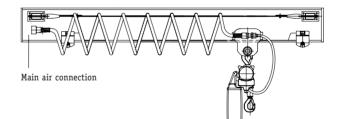
This simple and economical solution is suitable for distances of up to 10 metres. The hose rings are suspended on a plasticcoated rope that runs parallel to the track.

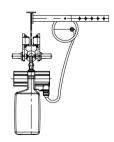
The spiral hose can be used in category 3 (zone 2) with gases in explosion group IIA and IIB. It is not suitable for applications in category 2 (zone 1) or group IIC.

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





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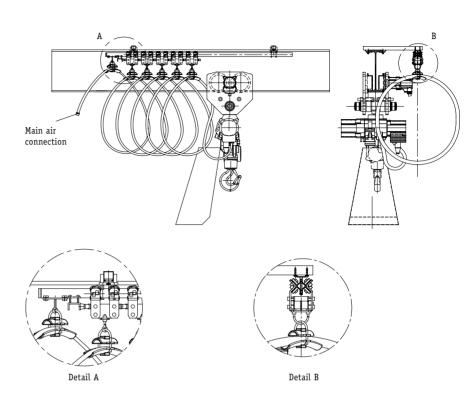
Square bar & C rail

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

Square bar

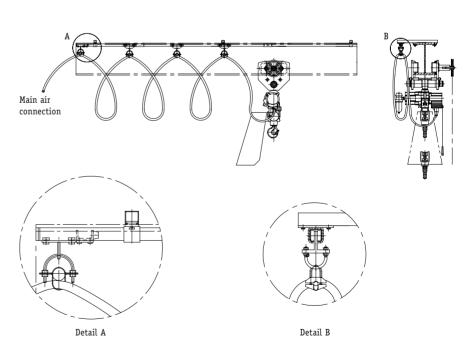
Depending on the local conditions, rails and curved tracks of different lengths are available, as well as an extensive range of installation accessories. The square bar is also suitable for curved tracks.

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



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.



JDN ENERGY SUPPLIES



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

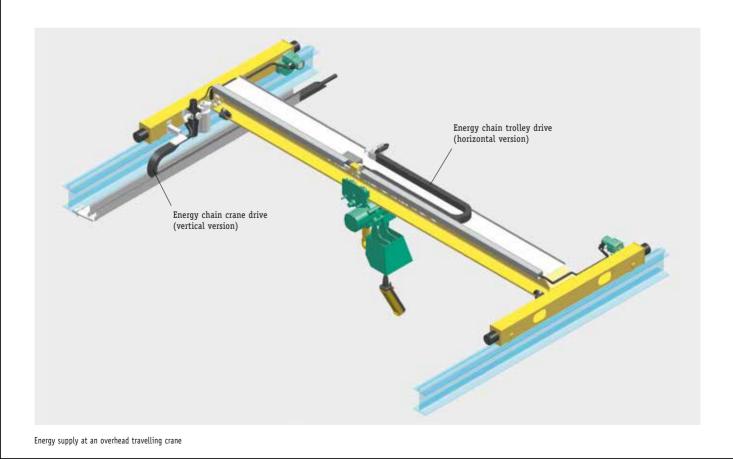
The energy supply for crane drive in overhead travelling cranes is realised by a vertical installation of the energy chain. The necessary guide channel system is mounted with clamped brackets on the bottom flange. If different profile sizes for the bottom flange are used because varying in support spacing, 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-consoles, which are clamped by claws on the top flange of the girder. The dimensions of the c-consoles are depending on the used girder.

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



JDN EXPLOSION PROTECTION JDN ACCESSORIES







JDN Explosion Protection Classification and marking

Hoists and cranes from J.D. Neuhaus have an unbeatable advantage over electricallydriven 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 mar- king 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
	I Underground Work	3 For use in zone 2	D Dust	IIB (Ethylene)	T3 < = 200°C T4 < = 135°C T5 < = 100°C T6 < = 85°C
				IIA (Propane)	

Contact J.D. Neuhaus for information on North American NEC spark resistant requirements.

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 carrying capacity)
- Stainless steel chain (reduced load-bearing capacity) up to 6 TI
- Manual emergency lowering device for PROFI 3TI - 20TI hoists
- Special paint finishes

JDN SERVICE



Product Training

For training your staff on operation, care, and maintenance of JDN Air Hoists we offer custom tailored training courses at our facilities. Simply choose the base training course for sales or service professionals and a J.D. Neuhaus will contact you regarding customized areas of focus.

J.D. Neuhaus Training Seminar

The J.D. Neuhaus Training Seminar is a custom tailored two day event designed tobenefit both sales and service personnel. The goal of this seminar is to increase our distributor's sales effectiveness and ability to service J.D. Neuhaus products.



J.D. Neuhaus Training Facility

Upon completion of this seminar, attendees will be better able to:

- Obtain necessary customer requirements.
- Recommend equipment best suited for the end-user's application.
- Communicate the features and benefits unique to J.D. Neuhaus.
- Install & maintain J.D. Neuhaus equipment.
- Troubleshoot potential problems.
- Recommend a maintenance plan/ procedure to increase end-user productivity.



Day 1 – Combined Sales & Service Personnel

Introduction to J.D. Neuhaus Facility, Staff, and Process

J.D. Neuhaus Product Overview – Hoists, Trolleys, Winches, Cranes, Engineered Systems

J.D. Neuhaus Operation Manual – Installation, Safe Operation, Maintenance, Troubleshooting

J.D. Neuhaus Spare Parts List – Organization, Identifying Components, Breakdown Drawings

Individual hands-on teardown and reassembly of NMBI Series Air Motor and Control Valve

Casual group dinner at local restaurant (optional). General discussion.

Day 2 – Sales Personnel

Internet, Target Industries, Marketing Efforts

Effective Sales Methods & Applications

Topics & discussion suggested by attendees.

Day 2 – Service Personnel

Overload Protection, High Capacity Units Advanced Repair Procedures Topics & discussion suggested by attendees.

Motor Rebuild Kits

For added convenience, J.D. Neuhaus offers complete air motor rebuild kits for hoists and trolley drives. Kits include all necessary components to restore the air motor to as new conditions.



Advice & Support

We aim to respond quickly and efficiently to your individual questions. For telephone advice and support, please contact your JDN Service Team.

If you want to send us an e-mail, you can use the service online form at www.jdngroup.com or our email at info@jdngroup.com J.D. Neuhaus L.P. 9 Loveton Circle Sparks, MD 21152 Phone (410) 472-0500 (800) 331-2889 Fax (410) 472-2202 www.jdngroup.com www.facebook.com/jdneuhaus info@jdngroup.com

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With the issue of this edition all previous versions are null and void.





Contact: