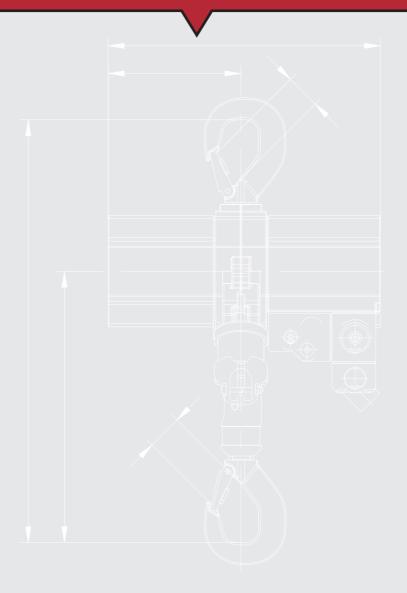
## GENERAL CATALOGUE





## J.D. NEUHAUS powered by air!



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#### **JDN AIR HOISTS mini**

The JDN mini Series for General Duty

Carrying 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. For heavier duty industrial applications we recommend the JDN PROFI series.

#### 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: (Ex) II 3 GD IIA T4(X)



#### ■ TECHNICAL DATA

Туре		mini 125	mini 250	mini 500	mini 1000
Capacity	lbs	275	550	1100	2160
	kg	125	250	500	980
Number of chain strands		1	1	1	1
Motor output	kW	0.4	0.4	1	1
Air pressure	PSI	85	85	85	85
	bar	6	6	6	6
Lifting speed without load <sup>1</sup>	ft/min	130	65	65	33
	<i>m/min</i>	<i>40</i>	20	20	10
Lifting speed at full load <sup>1</sup>	ft/min	49.5	26	33	16
	<i>m/min</i>	<i>15</i>	8	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	12	12	6
Air consumption at full load – lifting	cfm	17.5	17.5	42.5	42.5
	m³/min	<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	1.6	1.6
Air connection		G <sup>3</sup> /8	G <sup>3</sup> /8	G 1/2	G <sup>1</sup> / <sub>2</sub>
Hose dimension (Ø inside)	inch.	0.35	0.35	0.5	0.5
	<i>mm</i>	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	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
	<i>kg/m</i>	0.35	0.35	1.1	1.1
Height of lift	ft m			6 / 26 5 / 8	
Length of control at standard lift	ft m			13 / 20 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
6 1 1 117 (18.)					

#### Group mechanism: M3 (1 Bm)

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

#### ■ THE ADVANTAGES AT A GLANCE

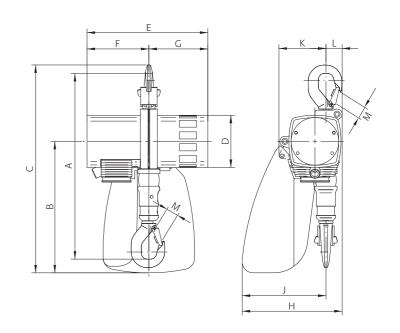
- Price competitive alternative when compared to other types of powered hoists.
- Suitable for lube-free operation.
- Suitable for application in hazardous areas.
- Minimum components for ease of maintenance.
- Wear resistant motor braking system.
- Lightweight for easy handling.
- Also suitable for horizontal pulling.
- Extremely sensitive lever control with emergency shut-off valve, max. control length 6 m.
- Available lifting heights: 3 m, 5 m, 8 m.
- With chain box as standard.
- With manual trolley as option.



2

#### DIMENSIONS

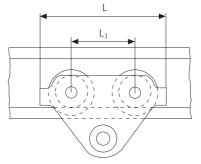
Туре		mini 125	mini 250	mini 500	mini 1000
А	inch.	12.9	12.9	18.0	18.0
	<i>mm</i>	328	328	<i>458</i>	<i>458</i>
В	inch.	9.1	9.1	12.4	12.4
	<i>mm</i>	232	232	316	316
С	inch.	14.4	14.4	19.9	19.9
	<i>mm</i>	367	367	<i>505</i>	505
D	inch.	3.6	3.6	4.8	4.8
	mm	92	92	122	122
Е	inch.	8.4	8.4	11.5	11.5
	mm	213	213	292	292
F	inch.	4.3	4.3	5.8	5.8
	<i>mm</i>	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
K	inch.	3.3	3.3	4.7	4.7
	mm	83	83	119	119
L	inch.	1.1	1.1	1.6	1.6
	mm	29	29	40	40
М	inch.	0.7	0.7	1.1	1.1
	<i>mm</i>	19	19	28	28



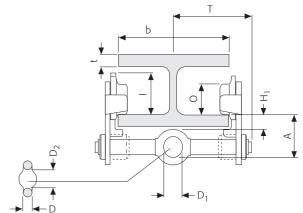
### MANUAL TROLLEYS FOR JDN AIR HOISTS mini

#### **■ TECHNICAL DATA**

Туре		LN 500	LN 1000
For use with:		mini 125 mini 250	mini 500 mini 1000
Beam flange width b	inch.	2 - 8	2 - 8
	<i>mm</i>	50 - 220	58 - 220
max. flange thickness t	inch.	1.3	1.2
	<i>mm</i>	34	30
min. curve radius	inch.	35.4	39.4
	<i>m</i>	0.9	1.0
Weight	lbs	17	21
	<i>kg</i>	7.7	10.5



Туре		LN 500	LN 1000
A	inch.	3.1	3.1
	<i>mm</i>	79.5	79
D	inch.	0.7	0.7
	<i>mm</i>	17	17
Dı	inch.	1	1.2
	<i>mm</i>	25	30
D <sub>2</sub>	inch.	1.2	1.4
	<i>mm</i>	30	35
Hı	inch.	1.2	1
	<i>mm</i>	30	25
1	inch.	2.7	3.2
	<i>mm</i>	67.5	81.5
L	inch.	10.2	10.2
	<i>mm</i>	260	260
Lı	inch.	5.1	5.1
	<i>mm</i>	130	<i>130</i>
0	inch.	2.2	2.7
	<i>mm</i>	55	68
T	inch.	5.7	5.9
	<i>mm</i>	144	151



#### **JDN AIR HOISTS PROFI**

Carrying 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. Unlike electric current, the compressed air power driving medium does not produce any ignition risk. 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
- Frequent switching and extended 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)
- Low sound emissions

#### **■ 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 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 new PROFI also suitable for horizontal pulling.

#### ⇒ 100 % Duty Rating - No Downtime

#### Suited For Application In Hazardous Areas

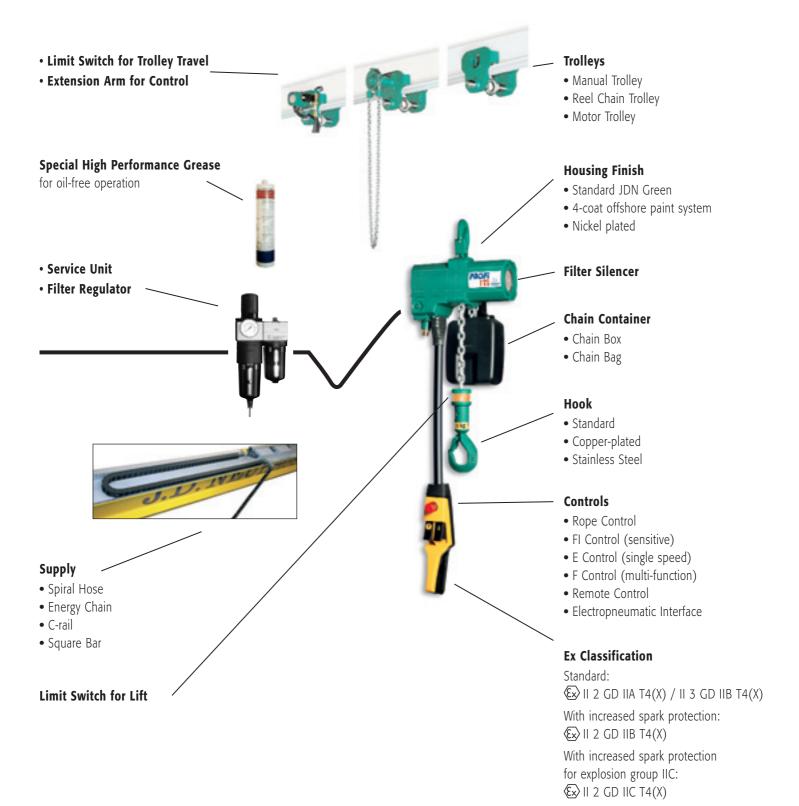
According to EC Directive on Hazardous Locations 94/9/EEC As standard: 
Il 2 GD IIA T4(X) / II 3 GD IIB T4(X) With increased spark protection: 
Il 2 GD IIC T4(X)





1

### The modular system at a glance



### **JDN AIR HOISTS PROFI**

#### **PROFI 025 TI - 2 TI**

#### **■ TECHNICAL DATA**

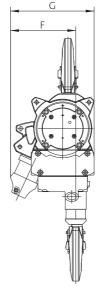
Туре		02	5 TI	05	TI	1	TI	2	TI
Air pressure	PSI bar	65 <i>4</i>	85 6	65 <i>4</i>	85 6	65 <i>4</i>	85 6	65 <i>4</i>	85 6
Carrying capacity	mt	0.16	0.25	0.32	0.5	0.63	1	1.25	2
Number of chain strands		1	l	1	1		1	2	2
Motor output	kW	0.6	1	0.6	1	0.6	1	0.6	1
Lifting speed at full load	ft/min m/min	65 2		32.8 10	36.1 <i>11</i>	16.4 5	18 5.5	8.2 2.5	8.9 2.7
Lifting speed without load	ft/min <i>m/min</i>	123 <i>37.</i> 5	137.8 <i>42</i>	52.5 16	62.3 19	32.8 10	36.1 11	16.4 5	18 5.5
Lowering speed at full load	ft/min <i>m/min</i>	12		55 1	5.8 7	32.8 10	36.1 11	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 0.8	53 1.5	28.3 0.8	53 1.5	28.3 0.8	53 1.5	28.3 0.8	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>	0. 1		0.	.5 <i>3</i>		.5 <i>3</i>	0.	
Weight with standard lift height and control length	lbs <i>kg</i>	59 2		59 2		61.6 27.5	61.7 <sup>1</sup> 28 <sup>1</sup>	75 34	
Chain dimension	mm	7 x	21	7 x	21	7 x	21	7 x	21
Weight of 1 m chain	lbs <i>kg</i>	2.	.2 1	2.	.2 1		.2 1	2.	.2
Standard lift	ft m	1	0	1	0		0	1	0
Lenght of control at standard lift	ft m	6.		6.	.5		.5 2	6.	
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

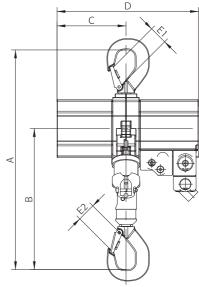
Group mechanism at 6bar: PROFI 025TI M5 (2m), PROFI 05TI - PROFI 2TI M4 (1Am)



Туре		025 TI	05 TI	1 TI	2 TI
A min. headroom <sup>1</sup>	inch.	17.7	17.7	17.7	19.6
	<i>mm</i>	450	450	450	<i>4</i> 98
В	inch.	11.3	11.3	11.3	13.2
	<i>mm</i>	288	288	288	336
С	inch.	5.7	5.7	5.7	5.7
	<i>mm</i>	145	145	145	145
D	inch.	11.7	11.7	11.7	11.7
	<i>mm</i>	297	297	297	297
E1	inch.	1.1	1.1	1.1	1.1
	<i>mm</i>	28	28	28	28
E2	inch.	1.1	1.1	1.1	1.1
	<i>mm</i>	28	28	28	28
F up to hook centre	inch.	5.4	5.4	5.4	5.4
	<i>mm</i>	137	137	137	137
G maximum width	inch.	6.9	6.9	6.9	7.2
	mm	176	176	176	183

 $<sup>^{\</sup>rm 1}$  Chain containers increase the hoist headroom







 $<sup>^{1}</sup>$  With overload protection  $^{2}$  Measured at 1 m distance acc. to DIN 45635 part 20

#### **PROFI 3 TI - 20 TI**

#### **■ TECHNICAL DATA**

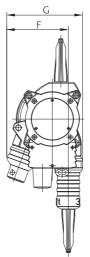
Туре		3	TI	6	TI	10	TI	16	TI .	20	TI
Air pressure	PSI bar	65 <i>4</i>	85 <i>6</i>	65 <i>4</i>	85 6	65 <i>4</i>	85 6	65 <i>4</i>	85 6	65 <i>4</i>	85 6
Capacity	mt	3	.2	6	.3	1	0	1	6	2	.0
Number of chain standards			1	:	2	2	2		3	4	4
Motor output	kW	1.8	3.5	1.8	3.5	1.8	3.5	1.8	3.5	1.8	3.5
Lifting speed without load	ft/min m/min	19.7 6	32.8 10	9.8 <i>3</i>	16.4 5	6.6 2	10.5 <i>3.2</i>	4.3 1.3	6.6 2	3.3 1	4.6 1.4
Lifting speed at full load	ft/min m/min	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 m/min	24.6 7.5	35.4 10.8	11.8 3.6	17.7 5.4	8.2 2.5	11.2 3.4	5.3 1.6	6.9 2.1	3.9 1.2	5.3 1.6
Air consumption at full load – lifting	cfm m³/min	71 2	142 <i>4</i>	71 2	142 <i>4</i>	71 2	142 <i>4</i>	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 <i>3.5</i>	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. <i>mm</i>	-	.7 9	-	.7 9	0	.7 9		.7 9	-	.7 9
Weight with standard lift height and control length	lbs kg		9.6 6		2.5 10		3.9 56		9.1 40		27 85
Chain dimension	mm	13 :	36	13 :	x 36	16	45	16	x 45	16	x 45
Weight of chain	lbs/ft kg/m		.6 .8		.6 .8		.9 .8		.9 .8		.9 .8
Standard lift	ft m		0		0		0		0		0
Lenght of control at standard lift	ft m	6.	.5 2		.5 2	6.	.5 2		.5 2		.5 2
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

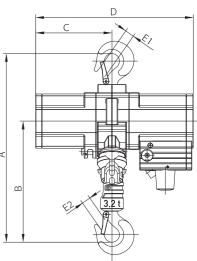
Group mechanism at 6bar: M3 (1Bm)



Туре		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
В	inch.	14.7	17.9	21.6	23.5	26.4
	<i>mm</i>	373	<i>454</i>	548	598	<i>670</i>
С	inch.	9.2	9.2	12.1	15	15
	<i>mm</i>	233	233	308	382	382
D	inch.	19	19	22.6	27.2	27.2
	<i>mm</i>	483	483	575	692	692
E1	inch.	1.6	1.6	1.7	2.1	3
	<i>mm</i>	40	40	44	53	75
E2	inch.	1.2	1.6	1.7	2.1	3
	<i>mm</i>	30	40	44	53	75
F up to hook centre	inch.	7.4	6.1	7.8	7.8	7.1
	<i>mm</i>	187	<i>154</i>	197	199	180
G maximum width	inch.	9.2	9.2	12	12.1	12.4
	<i>mm</i>	233	233	306	308	315

<sup>&</sup>lt;sup>1</sup> Chain containers increase the hoist headroom





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

### **JDN AIR HOISTS PROFI**

#### **PROFI 25 TI - 100 TI**

#### **■ TECHNICAL DATA**

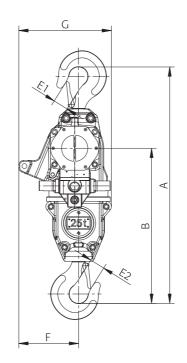
Туре		25 TI	37	TI	50	TI	100 TI
Air pressure	PSI bar	85 6	65 <i>4</i>	85 6	65 <i>4</i>	85 6	85 6
Capacity	mt	25	37	7.5	5	0	100
Number of chain standards		2	3	3	2	1	4
Motor output	kW	6	4	6	4	6	10
Lifting speed without load	ft/min m/min	7.5 2.3	1.1 1.1	3.6 1.6	2.3 0.7	4.3 1.3	2.3 0.7
Lifting speed at full load	ft/min m/min	3.6 1.1	1.3 0.4	2.1 0.7	1.1 0.3	0.9 0.5	1.1 <i>0.4</i>
Lowering speed at full load	ft/min m/min	6.2 1.9	3.3 1.0	4.9 1.5	2.9 0.9	4.6 1.4	2.6 0.8
Air consumption at full load - lifting	cfm m³/min	194.8 5.5	166.4 <i>4.7</i>	194.8 5.5	166.4 4.7	194.8 5.5	389.5 11
Air consumption at full load - lowering	cfm m³/min	230 6.5	194.8 5.5	230 6.5	198.2 5.6	230 6.5	424.9 12
Air connection		G1	G	1	G	1	G 1 <sup>1</sup> / <sub>2</sub>
Hose dimension (Ø inside)	inch. mm	1.0 25	1.	.0 5	1.	.0 5	1.4 35
Weight with standard lift height and control length	lbs kg	1098 <i>4</i> 98	19 88	36 30	18 85	85 5 <i>5</i>	5423 2460
Chain dimension	mm	23.5 x 66	23.5	x 66	23.5	x 66	32 x 90
Weight of 1 m (3.28 ft) chain	lbs/ft kg/m	8.2 12.2	-	.2		.2 ?.2	14.3 21.3
Standard lift	ft m	10 3		0		0	10 3
Lenght of control at standard lift	ft m	6.5 2	6.	.5 ?		.5 ?	6.5 2
Noise level at full load¹ - lifting	dB(A)	83	77	83	77	83	88
Noise level at full load <sup>1</sup> - lowering	dB(A)	83	79	83	79	83	89

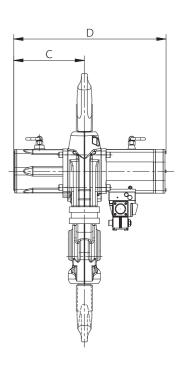


Group mechanism at 6 bar: PROFI 25 TI - PROFI 50 TI M3 (1Bm), PROFI 100 TI M2 (1 Cm) Versions with 4 bar for PROFI 25 TI and PROFI 100 TI on request.

				100 TI
incn.	49.6	55.2	67	86.6
mm	1260	1400	1 <i>7</i> 00	2200
inch.	32.6	34.3	45	58.1
mm	827	869	1144	1475
inch.	14.8	14.8	18.2	28.9
mm	<i>377</i>	<i>377</i>	463	<i>734</i>
inch.	32	32	38.6	59.3
mm	812	812	980	1505
inch.	2.9	4.05	4.1	4.7
mm	<i>75</i>	1 <i>03</i>	103	120
inch.	2.9	4.05	4.1	4.7
mm	<i>75</i>	1 <i>03</i>	103	120
inch.	12.6	20.4	12.2	17.3
mm	<i>318</i>	518	310	440
inch.	19.2	29.4	21.2	30.2
mm	488	<i>745</i>	539	767
	inch.  mm inch.	mm 1260 inch. 32.6 mm 827 inch. 14.8 mm 377 inch. 32 mm 812 inch. 2.9 mm 75 inch. 2.9 mm 75 inch. 12.6 mm 318 inch. 19.2	mm         1260         1400           inch.         32.6         34.3           mm         827         869           inch.         14.8         14.8           mm         377         377           inch.         32         32           mm         812         812           inch.         2.9         4.05           mm         75         103           inch.         2.9         4.05           mm         75         103           inch.         12.6         20.4           mm         318         518           inch.         19.2         29.4	mm         1260         1400         1700           inch.         32.6         34.3         45           mm         827         869         1144           inch.         14.8         14.8         18.2           mm         377         377         463           inch.         32         32         38.6           mm         812         812         980           inch.         2.9         4.05         4.1           mm         75         103         103           inch.         2.9         4.05         4.1           mm         75         103         103           inch.         12.6         20.4         12.2           mm         318         518         310           inch.         19.2         29.4         21.2

 $<sup>^{\</sup>mbox{\tiny $1$}}$  Chain containers increase the hoist headroom







 $<sup>^{\</sup>rm 1}\,{\rm Measured}$  at 1 m distance acc. to DIN 45635 part 20

#### **JDN AIR HOISTS M SERIES**

Carrying capacities: 1t up to 6t

Air pressure: 4 bar

JDN Air Hoists of the **M series** were originally developed 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**

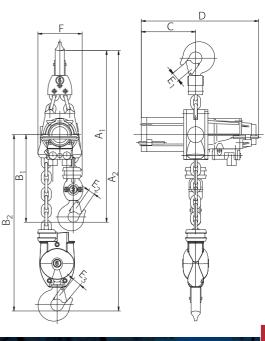
m/min $8/4$ Lowering speed at full load* ft/min $41/21.3$	3/6 1/2 1.3 65 4 7.2/3.6 2.2/1.1 16.4/8.2 5/2.5 19.7/9.8
Motor output kW 0.77  Air pressure PSI 65	1.3 65 4 7.2/3.6 2.2/1.1 16.4/8.2 5/2.5 19.7/9.8
Air pressure $\begin{array}{c} PSI \\ bar \\ 4 \\ \\ Lifting speed at full load* \\ tf/min \\ m/min \\ 3/1.5 \\ \\ Lifting speed without load* \\ tf/min \\ m/min \\ 8/4 \\ \\ Lowering speed at full load* \\ tf/min \\ 41/21.3 \\ \end{array}$	65 4 7.2/3.6 2.2/1.1 16.4/8.2 5/2.5 19.7/9.8
Lifting speed at full load* $ft/min$ $9.8/4.9$ $m/min$ $3/1.5$ Lifting speed without load* $ft/min$ $m/min$ $8/4$ Lowering speed at full load* $ft/min$ $41/21.3$	4 7.2/3.6 2.2/1.1 16.4/8.2 5/2.5 19.7/9.8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.2/1.1 16.4/8.2 5/2.5 19.7/9.8
m/min 8/4 Lowering speed at full load* ft/min 41/21.3	5/2.5 19.7/9.8
m/min 12.5/6.5	6/3
Air consumption at full load - lifting cfm $m^3/min$ 35.3 $m^3/min$ 1.0	77.7 2.2
Air consumption at full load - lowering cfm $m^3/min$ 2.0	113 3.2
Air connection Rd 32 x <sup>1</sup> /8" Rd	d 32 x <sup>1</sup> /8"
Hose dimension ( $\varnothing$ inside) inch. 0.75 mm 19	0.75 19
Weight with standard lift height lbs 132.3 and control length kg 60	220.5 100
Weight without chain, without control lbs 68.3 kg 31	112.4 51
Chain dimension mm 9 x 27	13 x 36
Weight of 1 m (3.28 ft) chain	8.4 3.8
Heights of lift ft 16.4/8.2 m 5/2.5	16.4/8.2 5/2.5
Lenght of control ft 6.6 $m$ 2	6.6 2
Noise level at full load <sup>1</sup> dB(A) 75 - 84	79 - 83



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

Туре		M 64	M 63 D
A1 (smallest headroom with 1/1 chain strands)	inch.	23.7	29.5
	<i>mm</i>	603	750
A2 (smallest headroom with 1/2 chain strands)	inch.	26	34.3
	mm	660	870
B1 (with 1/1 chain strands)	inch	12.3	14.6
	<i>mm</i>	313	<i>370</i>
B <sub>2</sub> (with 1/2 chain strands)	inch.	14.6	19.3
	mm	370	490
С	inch.	6.9	9.33
	mm	175	237
D	inch.	14.8	20
	mm	375	507
E1 (Hook opening)	inch.	1.2	1.6
	mm	30	40
E <sub>2</sub> (Hook opening)	inch.	1.2	1.6
	mm	30	40
E <sub>3</sub> (Hook opening)	inch.	1.2	1.2
	<i>mm</i>	30	30
F (maximum width)	inch.	5.7 144	7.7 195







#### **JDN TROLLEYS**

#### 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
- Spark-resistant package
- Offshore paint

#### **■ ENERGY FEEDING SYSTEMS**

The air supply can be fed by various systems:

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

#### **■ TECHNICAL DATA**

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 1 t.

JDN Air Hoist PROFI		Туре	025 TI	05 TI	1 TI	2 TI	3 TI	6 TI	10 TI	16 TI	20 TI
Carrying capacity of trolley LN		mt	0.	5	1	2	3.2	6.3	10	-16	_
Carrying capacity of trolley LH and	LM	mt		2	<u>)</u>		3.2	6.3	10	-16	20
Carrying capacity of hoist with troll	ley	mt	0.25	0.5	-1	2	3.2	6.3	10	16	20
Weight of Manual Trolley (LN)		lbs kg	17 23.1 39.6 7.7 10.5 18		57.2 26	257.4 117	264 120		- -		
Weight of Reel Chain Trolley (LH)		lbs kg		57 2			81.4 <i>37</i>	279.4 127		8.9 90	573.2 260
Weight of Motor Trolley (LM)		lbs kg		70 3			72.6 <i>33</i>	272.8 124		8.9 90	573.2 260
Hoist weight, standard lift		lbs kg	59.5 27	59.5 27	61.7 28	75 34	189.2 86	242 110	343.2 156	528 240	628.3 285
Total weight with standard lift Manual Trolley		lbs kg	76.5 <i>34.7</i>	76.5 <i>34.7</i>	84.9 <i>38.5</i>	114.6 52	246.4 112	499.2 227	607.2 276	792 360	-
Total weight with standard lift Reel Chain Trolley		lbs kg	130.1 59	130.1 59	132.3 60	145.5 66	270.6 123	521.4 237	762.8 <i>346</i>	948 <i>430</i>	1201.5 545
Total weight with standard lift Motor Trolley		lbs kg	116.8 53	116.8 53	119.1 <i>54</i>	132.3 60	261.8 119	514.8 234	762.8 <i>346</i>	948 <i>430</i>	1201.5 <i>545</i>
Weight of 1 m (3.28 ft) chain		lbs kg		0.			2			3.9 5.8	
Number of chain strands				1		2	1	2	2	3	4
Chain dimension		mm		7 x	21		13 x 36 16 x 45				
Air pressure Motor Trolley		PSI bar					85 6				
Air consumption Motor Trolley (at full load)						.3 6				46.1 1.3	
Air consumption hoist (at full load	)	cfm m³/min	53 1.5					194.2 5.5			
Motor output Motor Trolley		kW	0.2							0.7	
Motor output hoist		kW	1			3.5					
Travelling distance Reel Chain Trolley, chain reel off	30 ft 10 m	ft m	4.6 1.4						.6 .1	3.3 1.0	
Travelling speed Motor Trolley (at full load)		ft/min <i>m/min</i>				14 / 14 14			1	6.4* / 1 5* / 12	2
Hose connection Motor Trolley				G	1/2				$G^{3}/4$		
Minimum radius Manual Trolley		ft m	3 0.9		3.3 <sup>1</sup> 1.0 <sup>1</sup>	3.9 <sup>1</sup> 1.2 <sup>1</sup>	1.6 <sup>2</sup> 0.5 <sup>2</sup>		3.3 <sup>2</sup> 1 <sup>2</sup>		-
Minimum radius Reel Chain Troller Motor Trolley	y and	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.		1.0 25	1.1 28	1.6 40		2.6 65		-
Max. bottom flange thickness t Reel Chain and Motor Trolley		inch. mm			1.6 40					.6 5	
Max. bottom flange width b inch. Manual Trolley mm			8.7 220		12 305			2.2		-	
Max. bottom flange width b inch.  Reel Chain and Motor Trolley mm				1 28					12.2 310		
Min. bottom flange width b Manual Trolley		inch.	2 5		2.3 58	2.6 66	2.1 54		4.9 125		-
Min. bottom flange width b Reel Chain and Motor Trolley		inch.		5			2.1 54	2.1 4.9			5.8 148
Noise level at Motor Trolley <sup>3</sup>		dB(A)					80				

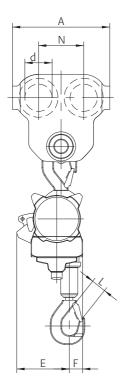
- \* 1 st speed of F control with two speeds
- <sup>1</sup> Measured at the middle of the beam
- <sup>2</sup> Measured at the inner edge of the beam
- <sup>3</sup> Measured at 1 m distance acc. to DIN 45635 part 20
- Capacities over 20t see JDN Monorail Air Hoists page 32
- Versions with one and two hooks (e.g. BBH) see page 26
- Low Headroom Trolleys for restricted headrooms see page 28

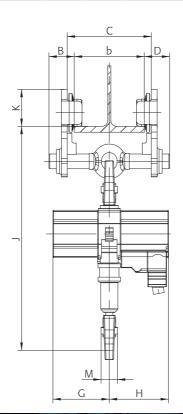


## **PROFI in Manual Trolley (LN)**

JDN Air Hoist PROFI		025 TI	05 TI	1 TI	2 TI	3 TI	6 TI	10 TI	16 TI
With Trolley			0.5 t	LN 1 t	LN 2 t	LN 3.2 t	LN 6.3 t		0-16 t
A	inch.	LIN		LIN I L					9.3
A	mm		10.2 260		12.2 310	11.5 292	19.7 500		90
B max.	inch. <i>mm</i>	4. 1	.7 19	4.8 122	6.4 162	4.5 113	5.6 141		.8 46
С	inch. <i>mm</i>		b + 1.1 b + 28		b + 1 b + 26	b + 2.4 b + 60		b + 2.8 b + 70	
d	inch. <i>mm</i>	2 5		2.7 68	3.2 80	3.3 84		6.5 1 <i>65</i>	
D max.	inch. <i>mm</i>		4.7 119		4.8 122	4.5 113	5.6 141	5.8 146	
E	inch. <i>mm</i>		5.4 137			7.4 187	6.1 154	7.8 197	7.8 199
F	inch. <i>mm</i>		1.5 39			.8 16	3.1 <i>79</i>		.3 09
G	inch. <i>mm</i>			5.7 45		9. 23	.2 33	12.1 308	15 382
Н	inch. <i>mm</i>			6 52		9.8 250			12.2 310
J* (mounted)	inch. <i>mm</i>	- -	-	-	- -	25 635	30 763	37.2 944	39.3 997
J* (suspended)	inch. <i>mm</i>		20.9 530		23.5 597	31.4 798	36.2 919	44.5 1131	47.8 1215
K	inch. <i>mm</i>	2. 67		3.2 81.5	3.7 94	4.2 107		7.8 198	
L	inch. <i>mm</i>	1.1 28				1.2 30	1.6 40	1.7 44	2.1 53
М	inch. <i>mm</i>		1.7 42				2 51	2.6 66	3.2 82
N	inch. <i>mm</i>		5.1 130		5.9 150	5.4 136		9.3 236	

<sup>\*</sup> Chain containers increase the hoist headroom







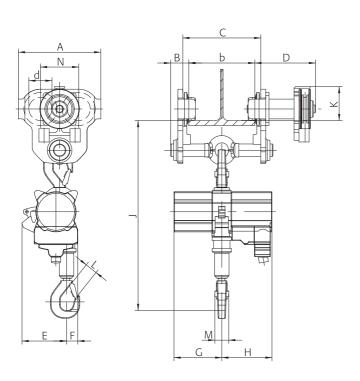


## **JDN TROLLEYS**

## **PROFI in Reel Chain Trolley (LH)**

JDN Air Hoist PROFI		025 TI	05 TI	1 TI	2 TI	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	0-16 t	LH 20 t
A	inch. mm		9. 25			11.5 292	19.7 19.3 500 490			23.6 600
B max.	inch. mm		5. 13			4.5 113	5.6 5.8 141 146			6.1 155
С	inch. mm		b + <i>b</i> +			b + 2.4 b + 60	b + 2.8 b + 70		b + 2.7 b + 68	
d	inch. mm		2. 7			3.3 84		6.5 165		
D	inch. mm		11 28			11.6 294	12.1 <i>307</i>		2.3 1 <i>2</i>	12.6 320
Е	inch. mm	5.4 <i>137</i>				7.4 187	6.1 154	7.8 197	7.8 199	7.1 180
F	inch. mm		1.5 39			.8 16			4.3 109	
G	inch. mm		5. 14				9.2 233		15 382	15 382
Н	inch. mm		6 15				9.8 10 250 26		12.2 310	12.2 310
J* (mounted)	inch. mm	_	_	-	-	25 635	30 763	37.2 944	39.3 997	44.9 1140
J* (suspended)	inch. mm		22.2 563		24.1 <i>611</i>	31.4 798	36.2 919	44.5 1131	47.9 1216	58.7 1490
K	inch. mm		4.1 103			4.3 110		7.8 198		8.9 226
L	inch. mm	1.1 28				1.2 30	1.6 40	1.7 44	2.1 53	2.9 <i>75</i>
М	inch. mm	1.7 42					2 51	2.6 66	3.2 82	3.4 86
N	inch. mm		4. 11			5.4 9.3 136 236			10.8 274	

<sup>\*</sup> Chain containers increase the hoist headroom



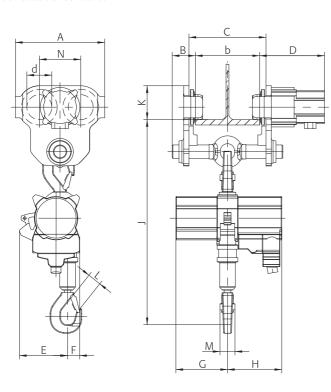




## **PROFI in Motor Trolley (LM)**

JDN Air Hoist PROFI		025 TI	05 TI	1 TI	2 TI	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	0-16 t	LM 20 t
A	inch. mm		9.8 25			11.5 292	19.7 19.3 500 490		23.6 600	
B max.	inch. mm		5. 1 <i>3</i>			4.5 113	5.6 141			6.1 155
С	inch. mm		b + b +			b + 2.4 b + 60	b + 2.8 b + 70			b + 2.7 b + 68
d	inch. mm		2.8 70			3.3 <i>84</i>		6.5 165		
D	inch. mm		7.: 18			11.7 297	8.1 205		2.5 18	12.9 <i>3</i> 28
Е	inch. mm		5. <sub>1</sub>			7.4 187	6.1 1 <i>54</i>	7.8 197	7.8 199	7.1 180
F	inch. mm		1.5 39			8 3.1 6 79		4.3 109		5.3 135
G	inch. mm		5. <sup>-</sup> 1 <i>4</i>			9.2 233		12.1 <i>308</i>	15 382	15 <i>3</i> 82
Н	inch. mm		6 15				9.8 10.5 12.2 250 267 310			12.2 310
J* (mounted)	inch. mm	- -	- -	- -	- -	25 635	30 763	37.2 944	39.3 997	44.9 1140
J* (suspended)	inch. mm		22.2 563		24.1 <i>611</i>	31.4 798	36.2 919	44.5 1131	47.9 1216	58.7 1490
K	inch. mm	3.7 95				4.2 107		8.5 215		8.6 218
L	inch. mm	1.1 28				1.2 <i>30</i>	1.6 40	1.7 42	2.1 55	2.9 <i>75</i>
М	inch. mm	1.7 42					2 51	2.6 66	3.2 82	3.4 86
N	inch. mm		4.0 1.1			5.4 136		9.3 236		10.8 274

<sup>\*</sup> Chain containers increase the hoist headroom







#### **JDN AIR WINCHES PROFI**

## Capacities: 500 kg up to 3000 kg

J.D.Neuhaus has been the market leader in compressed air powered lifting equipment for decades. In our latest milestone we have added a series of air winches to our product line.

## PROFI LIFTER 500-1 PROFI PULLER 800-1

JDN Lifting Winches (LIFTER 500-1) with capacities of 500 kg at the 5th layer and 750 kg at the 1st layer and Pulling Winches (PULLER 800-1) with capacities of 530 kg at the 5th layer and 800 kg at the 1st layer. The low weight of under 30 kg makes this series mobile, ideal for multiple applications. The winches provide sensitive operation by direct controls (push button or lever) over the full load range.



- Drum integrated exhaust air cooled planetary gearbox for minimum maintenance and maximum reliability at a 100% duty cycle.
- Compact design and low weight for mobile applications.
- ⇒ Powerful pneumatic drive with sensitive control.
- ⇒ High rope capacity up to 5 layers.
- Ideal for operation in hazardous areas
   II 3 GD IIA T4(X).



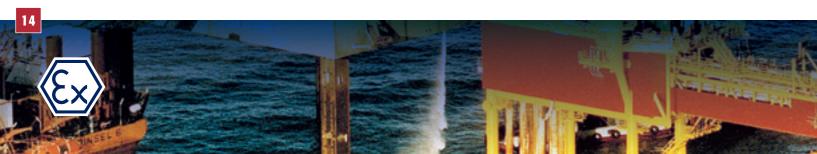


#### ■ TECHNICAL DATA

Туре		PROFI LIFTER 500-1	PROFI PULLER 800-1	
Air pressure	PSI bar	85 6		
Lifting capacity in the last layer	lbs kg	1100 500	- -	
Lifting capacity in the first layer	lbs kg	1650 <i>750</i>	- -	
Pulling capacity in the last layer	lbs kg	- -	1170 530	
Pulling capacity in the first layer	lbs kg	- -	1750 800	
Max. number of rope layers		!	5	
Max. motor power	kW	1		
Air connection		G <sup>1</sup> / <sub>2</sub>		
Air consumption at nominal load - lifting/pulling	cfm m³/min	42.4 1.2	38.9 1.1	
Air consumption at nominal load - lowering	cfm m³/min	53 1.5	- -	
Hose size (ø inside)	inch. <i>mm</i>		.6 3	
Rope drum diameter	inch. <i>mm</i>		.3 '6	
Rope diameter	inch. <i>mm</i>		- 1/4 - 7.0	
Minimum breaking force of rope	lbf kN	5508 <i>24.5</i>	5283 23.5	
Weight (without rope, with control)	lbs <i>kg</i>	64.6 29.3	68.8 <i>31.2</i>	
Control length (FD control)	ft m	4.9 1.5		
Noise level at nominal load - lifting/pulling <sup>1</sup>	dB(A)	85	87	
Noise level at nominal load - lowering <sup>1</sup>	dB(A)	89	-	

Group mechanism: M4 (1 Am)

<sup>\*</sup> Option



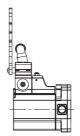
<sup>&</sup>lt;sup>1</sup> Measured at 1 m distance acc. to DIN 45635 part 20

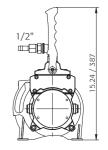
#### ■ PERFORMANCE DATA

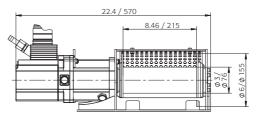
PROFI LIFTER 500-1									
Rope diameter		Speeds [ft/min]/[m/min]							
1/4" / 6 mm		Lif	ting	Lowering					
Rope Layer		1. Layer	5. Layer	1. Layer 5. Layer					
	0	58.1 / 17.7	92.6 / 28.2	43.7 / 13.3	69.6 / 21.2				
Load	550/250	46.2 / 14.1	62.4 / 19.0	54.5 / 16.6	96.9 / 29.6				
[lbs]/[kg]	1100/500	34.3 / 10.4	32.2 / 9.8	65.3 / 19.9	124.3 / 37.9				
	1650/750	22.4 / 6.8	-	76 / 23.2	-				

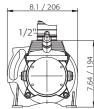
PROFI PULLER 800-1									
Rope diameter		Speeds [ft/min]/[m/min]							
1/4" / 6mm		Pul	ling	Unwinding					
Rope Layer		1. Layer 5. Layer		1. Layer	5. Layer				
	0	58.1 / 17.7	92.6 / 28.2	43.7 / 13.3	69.6 / 21.2				
Load	585/300	45.5 / 13.4	60.4 / 17.1	-	-				
[lbs]/[kg]	1170/530	32.8 / 10.0	28.2 / 8.1	-	-				
	1750/800	20.2 / 6.1	-	-	-				

#### ■ DIMENSIONS [inch.]/[mm]



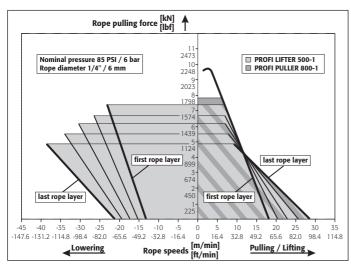


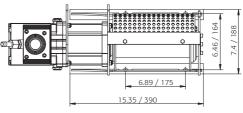




### CHARACTERISTIC LOAD CURVES

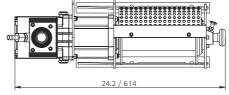
PROFI LIFTER 500-1 / PROFI PULLER 800-1





PROFI LIFTER 500-1





PROFI PULLER 800-1

#### **■ ROPE CAPACITIES**

PROFI LIFTER 500-1 / PROFI PULLER 800-1								
Max rope capacity	Rope diameter							
per layer	inch.	3/16	1/4					
1st	ft /m	34.4 / 10.5	25.7 / 7.8					
1st and 2nd	ft /m	75.6 / 23.1	58.3 / 17.8					
1st, 2nd and 3rd	ft /m	121.4 / 37.0	95.8 / 29.1					
1st, 2nd, 3rd and 4th	ft /m	171.5 / 52.3	136.8 / 41.7					
1st, 2nd, 3rd, 4th and 5th	ft /m	226.1 / 68.9	-					

Recommended rope diameter: 1/4" / 6 mm



#### **JDN AIR WINCHES PROFI**

#### PROFI LIFTER 500-2,2 / 800-2,2



PROFI LIFTER 800-2,2

JDN Air Winches with capacities of 500 and 800 kg. Lightweight aluminium castings make this series mobile, ideal for multiple applications.

#### **■ THE ADVANTAGES AT A GLANCE**

- ⇒ Drum integrated exhaust air cooled planetary gearbox for minimum maintenance and maximum reliability at a 100 % duty cycle.
- ⇒ High rope capacity.
- ⇒ Ideal ratio of drum/rope diameter (D/d=18) ensures a long duty cycle of the rope.
- Variable speeds, easy to install, low noise level.
- Ideal for applications in hazardous areas
   ₹x II 3 GD IIA T4(X).
- Various options.

#### **■ TECHNICAL DATA**

Туре		PROFI L 500-2,2	.IFTER 800-2,2
Nominal pressure (required static pressure)	PSI bar	85 <i>6</i>	
Capacity in the last layer	lbs <i>kg</i>	1100 500	1750 800
Max. number of rope layers		4	3
Max. motor power	kW	2.2	2
Air connection		G <sup>3</sup> /	<sup>1</sup> <sub>4</sub>
Hose size (ø inside / ø outside)	inch. mm	0.75/ 19/s	
Air consumption at nominal load - pulling	cfm m³/min	120.1 <i>3.4</i>	123.6 <i>3</i> .5
Air consumption without load - pulling	cfm m³/min	151.9 <i>4.3</i>	
Air consumption at nominal load - lowering	cfm m³/min	91.8 <i>2.6</i>	123.6 <i>3.5</i>
Air consumption without load - lowering	cfm m³/min	84.8 <i>2.4</i>	120.1 <i>3.4</i>
Max. possible rope diameter	inch. mm	5/16 7	3/8 10
Minimum breaking force of rope	lbf <i>kN</i>	5512 <i>24.5</i>	8822 39.2
Weight (without rope and additional devices)	lbs kg	176 80	187 85
Control length for pendant control	ft m	6.6	•
Noise level without load - lifting or pulling <sup>1</sup>	dB(A)	85	87
Noise level without load - lowering or unwinding <sup>1</sup>	dB(A)	80	86
Noise level at nominal load - lifting or pulling <sup>1</sup>	dB(A)	83	89
Noise level at nominal load - lowering <sup>1</sup>	dB(A)	89	92

Group mechanism: M3 (1 Bm)

#### **■ PERFORMANCE DATA**

PROFI LIFTER 500-2,2								
Rope diamet	er	Speeds [ft/min]/[m/min]						
1/4"/7 mm		Life	Lifting Lowering					
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer			
	0	115.0 / 35.0	145.6 / 44.4	44.4 / 13.5	56.2 / 17.1			
Load condition	550/250	92.6 / 28.2	109.7 / 33.4	59.9 / 18.3	81.0 / 24.7			
[lbs]/[kg]	1100/500	70.1 / 21.4	73.7 / 22.4	75.4 / 23.0	105.8 / 32.3			
	1410/640	57.5 / 17.5	-	84.1 / 25.6	-			

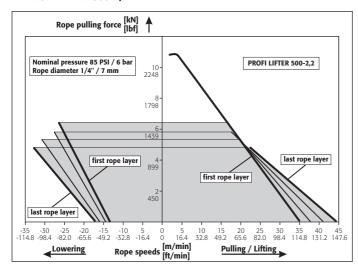
PROFI LIFTER 800-2,2								
Rope diameter		Speeds [ft/min]/[m/min]						
1/4"/9 mm		Lift	ing	Lowering				
Rope Layer		1. Layer	3. Layer	1. Layer	3. Layer			
	0	104.1 / 31.7	128.6 / 39.2	39.8 / 12.1	49.2 / 15.0			
Load condition	880/400	76.1 / 23.2	85.9 / 26.1	59.0 / 18.0	78.4 / 23.9			
[lbs]/[kg]	1750/800	48.4 / 14.6	43.6 / 13.1	77.9 / 23.8	107.2 / 32.8			
	2160/980	35.3 / 10.8	-	86.8 / 26.4	-			



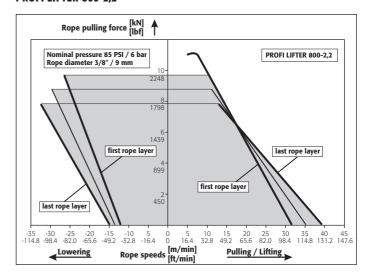
<sup>&</sup>lt;sup>1</sup> Measured at 1 m distance acc. to DIN 45635 part 20

#### **■ CHARACTERISTIC LOAD CURVES**

PROFI LIFTER 500-2,2



#### PROFI LIFTER 800-2,2



#### **■ ROPE CAPACITIES**

PROFI LIFTER 500-2,2						
Full used	ull used Rope diameter					
rope layer	inch.	1/4	5/16			
1st	ft / m	63.8 / 19.5	50.7 / 15.5			
1st and 2nd	ft / m	138.2 / 42.1	112.0 / 34.1			
1st, 2nd and 3rd	ft / m	218.5 / 66.6	179.3 / 54.6			
1st, 2nd, 3rd and 4th	ft / m	304.8 / 92.9	252.5 / 77.0			

Recommended rope diameter: 1/4" / 7 mm

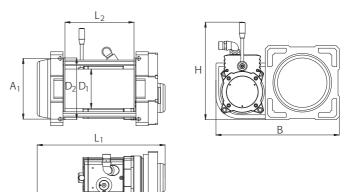
Rope diameter for rope drums with grooving: 1/4" / 7 mm

PROFI LIFTER 800-2,2						
Full used	Rope diameter					
rope layer	inch.	5/16	3/8			
1st	ft / m	57.6 / 17.5	47.6 / 14.5			
1st and 2nd	ft / m	126.3 / 38.5	106.3 / 32.4			
1st, 2nd and 3rd	ft / m	201.0 / 61.3	171.1 / 52.2			
-	-	-	-			

Recommended rope diameter: 3/8" / 9 mm

Rope diameter for rope drums with grooving: 5/16" / 8 mm

Туре		PROFI	LIFTER
		500-2,2	800-2,2
В	inch. / mm	21.3	/ 540
H max.	inch. / mm	16.9	/ 430
Lı	inch. / mm	20.1	/ 510
L <sub>2</sub>	inch. / mm	11.4	/ 290
D1	inch. / mm	5.5 / 140	6.3 / 160
D <sub>2</sub>	inch. / mm	9.5 /	240
A 1	inch. / mm	9.7 /	246
A 2	inch. / mm	12.5	/ 318





#### **JDN AIR WINCHES PROFI**

## PROFI LIFTER 1200-2,2 / 2000-2,6 PROFI PULLER 1800-2,2 / 3000-2,6







## **TECHNICAL DATA**

JDN Lifting and pulling winches are manufactured with a highly durable steel structure in lifting capacities of 1200 kg and 2000 kg and pulling capacities of 1800 kg and 3000 kg.

#### **■ THE ADVANTAGES AT A GLANCE**

- Drum integrated exhaust air cooled planetary gearbox for minimum maintenance and maximum reliability at a 100 % duty cycle.
- High rope capacity.
- ⇒ Ideal ratio of drum/rope diameter (D/d=21) ensures a long duty cycle of the rope.
- Variable speeds, easy to install, low noise level.
- Ideal for applications in hazardous areas. Standard models: ⟨Ex⟩ | | 2 GD | | | A T4(X) / | | | 3 GD | | | B T4(X) With increased spark protection:
- Various options.

⟨€x⟩ | I 2 GD | IB T4(X).

Туре		PROFI LIFTER 1200-2,2	PROFI LIFTER 2000-2,6	PROFI PULLER 1800-2,2	PROFI PULLER 3000-2,6
Nominal pressure (required static pressure)	PSI bar	85 6	85 6	85 6	85 6
Capacity (nominal load for lifting winches) in the last layer	lbs <i>kg</i>	2600 1200	4400 2000	-	-
Pulling capacity (nominal load for Pulling winches) in the first layer	lbs <i>kg</i>	- -	-	4000 1800	6600 <i>3000</i>
Max. number of rope layers	_	4	4	4	4
Max. motor power	kW	2.2	2.6	2.2	2.6
Lifting/pulling speed without load <sup>1</sup>	ft/min <i>m/min</i>	60.7 18.5	42.6 13.0	60.7 18.5	42.6 13.0
Lifting/pulling speed at 80 % of the nomainal load 1	ft/min <i>m/min</i>	43.6 13.3	28.9 8.8	32.2 9.8	19.7 6.0
Lifting/pulling speed at nominal load <sup>1</sup>	ft/min m/min	38.1 11.6	26.3 8.0	23.0 7.0	15.1 <i>4.6</i>
Lowering/unwinding speed without load <sup>1</sup>	ft/min m/min	53.2 16.2	41.0 12.5	53.2 16.2	41.0 12.5
Lowering speed at nominal load <sup>1</sup>	ft/min m/min	73.8 22.5	55.1 16.8		-
Air connection	,	G <sup>3</sup> /4	G1	G <sup>3</sup> /4	G1
Air consumption at nominal load - pulling	cfm m³/min	- -	-	120.1 <i>3.4</i>	141.3 <i>4.0</i>
Air consumption at nominal load - lifting	cfm m³/min	137.7 <i>3.</i> 9	158.9 <i>4.5</i>	- -	-
Air consumption without load - pulling	cfm m³/min	- -		162.5 <i>4.6</i>	176.6 5.0
Air consumption without load - lifting	cfm m³/min	162.5 <i>4.6</i>	176.6 5.0	<u>-</u>	-
Air consumption without load - lowering	cfm m³/min	148.3 <i>4.2</i>	151.9 <i>4.3</i>		-
Air consumption at nominal load - lowering	cfm m³/min	180.1 5.1	194.2 5.5		-
Hose size (ø inside)	inch.	0.8 19	1 25	0.8 19	1 25
Rope drum diameter	inch. mm	9.5 240	11.2 285	9.5 240	11.2 285
Max. possible rope diameter	inch. mm	7/16 11	1/2 13	7/16 11	1/2 13
Minimum breaking force of rope	lbf <i>kN</i>	13219 58.8	22054 98.1	11915 <i>53.0</i>	19851 88.3
Weight (without rope and additional devices) short drum version	lbs kg	304.2 138	518.1 235	304.2 138	518.1 235
Weight (without rope and additional devices) long drum version	lbs kg	348.3 158	683.4 <i>310</i>	348.3 158	683.4 310
Control length for pendant control	ft m	6.6 2	6.6 2	6.6 2	6.6
Noise level without load - lifting or pulling <sup>2</sup>	dB(A)	88	87	88	87
Noise level without load - lowering or unwinding <sup>2</sup>	dB(A)	90	88	90	88
Noise level at nominal load - lifting or pulling <sup>2</sup>	dB(A)	86	85	82	80
Noise level at nominal load - lowering <sup>2</sup>	dB(A)	92	88	-	-
Group mechanism: M3 (1 Rm)					



Group mechanism: M3 (1 Bm)

<sup>1</sup> Measured in the first layer with max. rope diameter

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

Unwinding

4. Layer



#### **■ PERFORMANCE DATA**

PROFI LIFTER 1200-2,2								
Rope diamet			Speeds [ft/min]/[m/min]					
3/8" / 10 mm	ı	Lifting Lowering						
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer			
	0	62.1 / 18.9	77.0 / 23.5	53.4 / 16.3	66.2 / 20.2			
Load condition	1300/600	47.8 / 14.5	55.0 / 16.7	65.4 / 20.0	84.7 / 25.9			
[lbs]/[kg]	2600/1200	33.5 / 10.1	33.1 / 9.9	77.5 / 23.8	103.3 / 31.7			
	3300/1500	25.9 / 7.9	-	84.0 / 25.6	-			

PROFI LIFTER 2000-2,6								
Rope diameter		Speeds [ft/min]/[m/min]						
1/2" / 12 mm	l	Lifting Lo			Lowering			
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer			
	0	42.4 / 12.9	53.5 / 16.3	41.3 / 12.6	52.2 / 15.9			
Load condition	2200/1000	33.1 / 10.1	38.6 / 11.8	49.0 / 14.9	64.4 / 19.6			
[lbs]/[kg]	4400/2000	23.8 / 7.2	23.8 / 7.2	56.7 / 17.3	76.6 / 23.4			
	5500/2500	19.1 / 5.8	-	60.5 / 18.5	-			

# Rope diameter 3/8" / 10 mm Speeds [ft/min]/[m/min] Pulling Unw Rope Layer 1. Layer 4. Layer 1. Layer Load condition 2200/1000 33.1 / 10.1 38.6 / 11.8

PROFI PULLER 1800-2,2

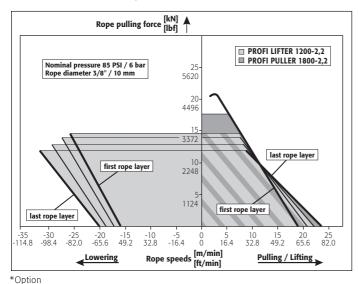
[lbs]/[kg]



PROFI PULLER 1800-2,2								
Rope diamet								
3/8" / 10 mm	ı	Pulling Unwinding						
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer			
	0	62.1 / 18.9	77.0 / 23.5	53.4 / 16.3	66.2 / 20.2			
Load condition	1300/600	47.8 / 14.5	55.0 / 16.7	-	-			
[lbs]/[kg]	2600/1200	33.5 / 10.1	33.1 / 9.9	-	-			
	4000/1800	18.2 / 5.6	-	-	-			

23.8 / 7.2

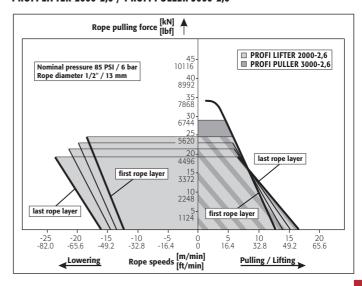
## ■ CHARACTERISTIC LOAD CURVES PROFI LIFTER 1200-2,2 / PROFI PULLER 1800-2,2



#### PROFI LIFTER 2000-2,6 / PROFI PULLER 3000-2,6

4400/2000 23.8 / 7.2

6600/3000 14.4 / 4.4



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#### **JDN AIR WINCHES PROFI**

## PROFI LIFTER 1200-2,2 / 2000-2,6 PROFI PULLER 1800-2,2 / 3000-2,6

#### **■ ROPE CAPACITIES**

PROFI LIFTER 1200-2,2 and PROFI PULLER 1800-2,2							
	Short drum						
Full used	used Rope diameter						
rope layer	inch.	5/16	3/8	7/16			
1st	ft / m	57.8 / 17.6	47.2 / 14.4	40.5 / 12.3			
1st and 2nd	ft / m	131.3 / 40.0	109.6 / 33.4	95.7 / 29.2			
1st, 2nd and 3rd	ft / m	209.2 / 63.8	176.3 / 53.8	155.4 / 47.4			
1st, 2nd, 3rd and 4th	ft / m	291.6 / 88.9	247.6 / 75.5	219.6 / 66.9			

Recommended rope diameter: 3/8 % / 9 up to  $10\,\mathrm{mm}$  Rope diameter for rope drums with grooving:  $3/8 \% / 10\,\mathrm{mm}$ 

PROFI LIFTER 2000-2,6 and PROFI PULLER 3000-2,6							
Short drum							
Full used		Roj	pe diameter				
rope layer	inch.	3/8	7/16	1/2			
1st	ft / m	83.2 / 25.4	70.4 / 21.5	60.8 / 18.5			
1st and 2nd	ft / m	185.7 / 56.6	159.6 / 48.6	140.0 / 42.7			
1st, 2nd and 3rd	ft / m	294.4 / 89.7	255.0 / 77.7	225.4 / 68.7			
1st, 2nd, 3rd and 4th	ft / m	409.3 / 124.8	356.6 / 108.7	317.1 / 96.7			

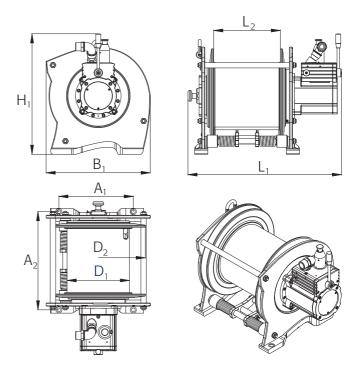
Recommended rope diameter: 1/2" /  $12\,\mathrm{mm}$  Rope diameter for rope drums with grooving: 1/2" /  $13\,\mathrm{mm}$ 

PROFI LIFTER 1200-2,2 and PROFI PULLER 1800-2,2						
Long drum						
Full used Rope diameter						
rope layer	inch.	5/16	3/8	7/16		
1st	ft / m	121.7 / 37.1	100.8 / 30.7	87.5 / 26.7		
1st and 2nd	ft / m	263.2 / 80.2	220.9 / 67.3	193.9 / 59.1		
1st, 2nd and 3rd	ft / m	413.3 / 126.0	349.5 / 106.5	308.9 / 94.2		
1st, 2nd, 3rd and 4th	ft / m	571.9 / 174.3	486.7 / 148.3	432.5 / 131.8		

PROFI LIFTER 2000-2,6 and PROFI PULLER 3000-2,6						
Long drum						
Full used	ull used Rope diameter					
rope layer	inch.	3/8	7/16	1/2		
1st	ft / m	209.8 / 63.9	179.5 / 54.7	156.7 / 47.8		
1st and 2nd	ft / m	447.0 / 136.2	385.9 / 117.6	340.1 / 103.7		
1st, 2nd and 3rd	ft / m	698.7 / 212.9	606.8 / 185.0	537.9 / 164.0		
1st, 2nd, 3rd and 4th	ft / m	964.9 / 294.1	842.2 / 256.7	750.3 / 228.7		

#### ■ DIMENSIONS [inch.]/[mm]

Туре	PROFI LIFTE Profi Pull		PROFI LIFTER 2000-2,6 PROFI PULLER 3000-2,6		
	Short drum Long drum		Short drum	Long drum	
В1	15.5	/ 393	18.7	/ 475	
H <sub>1</sub> max.	21.3	/ 540	23.2 / 590		
L <sub>1</sub> max.	23.0 / 585	30.9 / 785	27.6 / 700	43.3 / 1100	
L <sub>2</sub>	8.5 / 216	16.4 / 416	12.0 / 305	27.8 / 705	
Dı	9.5 ,	/ 240	11.2	/ 285	
D <sub>2</sub>	13.8	/ 350	16.9	/ 430	
Aı	11.6	/ 295	13.4	/ 340	
A <sub>2</sub>	12.3 / 312	20.2 / 512	17.7 / 449	33.4 / 849	



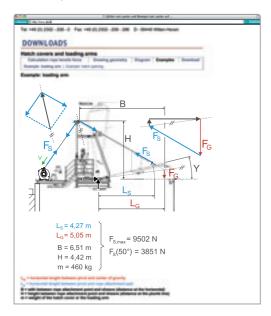


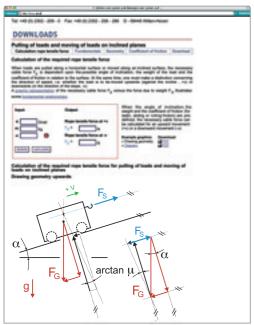
#### Special winch applications

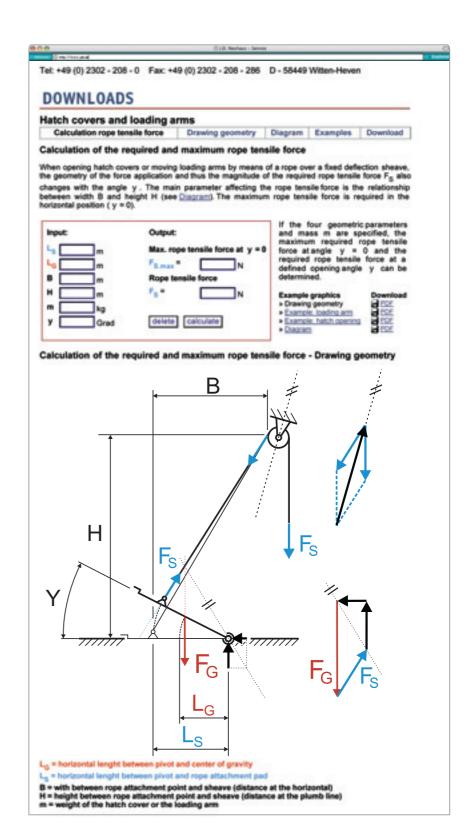
We have prepared comprehensive information regarding this subject on our web site for your detailed information.

However this page contains an excerpt for example purposes. For the full information, including a download option, please visit

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#### **JDN AIR WINCHES PROFI**

## PROFI LIFTER 1200-6 / 2000-6 PROFI PULLER 1800-6 / 3000-6

With increased motor power (6 kW) for high rope speeds

JDN Lifting and pulling winches are manufactured with a highly durable steel structure in lifting capacities of 1200 kg and 2000 kg and pulling capacities of 1800 kg and 3000 kg.

#### ■ THE ADVANTAGES AT A GLANCE

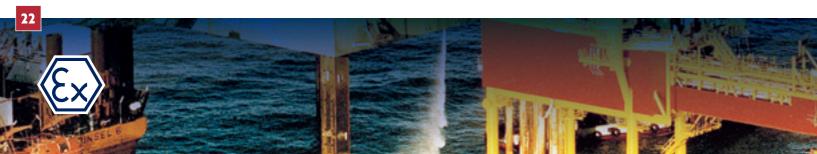
- Increased motor power for high rope speeds.
- Drum integrated exhaust air cooled planetary gearbox for minimum maintenance and maximum reliability at a 100 % duty cycle.
- ⊃ Long drum version offering increased rope capacity with 4 layer spooling.
- Ideal ratio of drum/rope diameter (D/d=21) ensures a long duty cycle of the rope.
- Variable speeds, easy to install, low noise level.
- Integrated overload protection.
- Ideal for applications in hazardous areas.Standard models:
  - (Ex) II 2 GD IIA T4(X) / II 3 GD IIB T4(X) With increased spark protection:
  - $\langle E_X \rangle$  II 2 GD IIB T4(X).
- Various options.

#### **■ TECHNICAL DATA**

Туре		PROFI LIFTER 1200-6	PROFI LIFTER 2000-6	PROFI PULLER 1800-6	PROFI PULLER 3000-6
Nominal pressure (required static pressure)	PSI bar	85 6	85 6	85 6	85 6
Capacity (nominal load for lifting winches) in the last layer	lbs kg	2600 1200	4400 2000	- -	- -
Pulling capacity (nominal load for Pulling winches) in the first layer	lbs kg	-		4000 1800	6600 <i>3000</i>
Max. number of rope layers	Ĭ	4	4	4	4
Max. motor power	kW	5.5	5.5	6.0	6.0
Lifting/pulling speed without load <sup>1</sup>	ft/min <i>m/min</i>	98.8 <i>30.1</i>	63.7 19.4	98.8 <i>30.1</i>	63.7 19.4
Lifting/pulling speed at 80 % of the nomainal load 1	ft/min <i>m/min</i>	74.8 22.8	47.6 14.5	62.7 19.1	39.7 12.1
Lifting/pulling speed at nominal load <sup>1</sup>	ft/min <i>m/min</i>	68.6 20.9	43.6 13.3	53.5 16.3	33.8 10.3
Lowering/unwinding speed without load <sup>1</sup>	ft/min m/min	67.9 20.7	42.3 12.9	67.9 20.7	42.3 12.9
Lowering speed at nominal load <sup>1</sup>	ft/min m/min	91.5 27.9	58.1 17.7	- -	-
Air connection		G1	G1	G1	G1
Air consumption at nominal load - pulling	cfm m³/min	-	-	229.6 6.5	229.6 <i>6.5</i>
Air consumption at nominal load - lifting	cfm m³/min	240.1 6.8	240.1 6.8	-	-
Air consumption without load - pulling	cfm m³/min	-	-	317.8 9.0	300.2 8.5
Air consumption without load - lifting	cfm m³/min	317.8 9.0	300.2 8.5	-	-
Air consumption without load - lowering	cfm m³/min	254.3 7.2	254.3 7.2	-	-
Air consumption at nominal load - lowering	cfm m³/min	296.6 <i>8.4</i>	257.8 7.3	- -	- -
Hose size (ø inside)	inch. mm	0.98 25	0.98 25	0.98 25	0.98 25
Rope drum diameter	inch. mm	9.5 240	11.2 285	9.5 240	11.2 285
Max. possible rope diameter	inch. mm	7/16 11	1/2 13	7/16 11	1/2 13
Minimum breaking force of rope	lbf <i>kN</i>	13219 58.8	22054 98.1	11915 <i>53.0</i>	19851 88.3
Weight (without rope and additional devices) <sup>2</sup>	lbs kg	516 234	851 386	516 234	851 <i>386</i>
Control length for pendant control	ft m	6.6 2	6.6 2	6.6 2	6.6 2
Noise level without load - lifting or pulling <sup>3</sup>	dB(A)	85	86	85	85
Noise level without load - lowering or unwinding <sup>3</sup>	dB(A)	82	84	82	84
Noise level at nominal load - lifting or pulling <sup>3</sup>	dB(A)	83	83	81	81
Noise level at nominal load - lowering <sup>3</sup>	dB(A)	86	95	-	-

Group mechanism: M3 (1 Cm)

<sup>&</sup>lt;sup>3</sup> Measured at 1 m distance according to DIN 45635 part 20



<sup>&</sup>lt;sup>1</sup> Measured in the first layer with max. rope diameter

<sup>&</sup>lt;sup>2</sup> Standard version with long drum



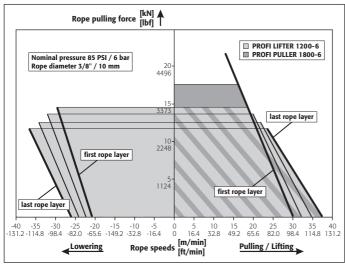
PROFI PULLER 3000-6 with wire rope\*

#### **■ PERFORMANCE DATA**

PROFI LIFTER 1200-6							
Rope diameter		Speeds [ft/min]/[m/min]					
3/8" / 10 mm		Lift	Lifting Lowering				
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer		
	0	98.8 / 30.1	122.5 / 37.3	68.0 / 20.7	84.3 / 25.7		
Load condition	1300/600	84.0 / 25.5	99.7 / 30.3	79.6 / 24.3	102.1 / 31.2		
[lbs]/[kg]	2600/1200	69.1 / 20.9	76.9 / 23.2	91.2 / 27.9	120.0 / 36.8		
	3300/1500	61.1 / 18.6	-	97.4 / 29.7	-		

PROFI LIFTER 2000-6							
Rope diameter		Speeds [ft/min]/[m/min]					
1/2" / 12 mm		Lifting Low			ering		
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer		
condition [lbs]/[kg]	0	63.6 / 19.4	80.3 / 24.5	42.5 / 12.9	53.6 / 16.3		
	2200/1000	53.7 / 16.4	64.5 / 19.6	50.2 / 15.3	65.9 / 20.1		
	4400/2000	43.8 / 13.3	48.7 / 14.8	57.9 / 17.7	78.1 / 23.8		
	5500/2500	38.8 / 11.8	-	61.8 / 18.8	-		

## ■ CHARACTERISTIC LOAD CURVES PROFI LIFTER 1200-6 / PROFI PULLER 1800-6



\*Option \*\*Standard in CE version

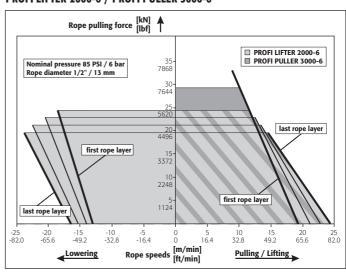


PROFI PULLER 3000-6 with wire rope\* and drum guard\*\*

PROFI PULLER 1800-6							
Rope diameter		Speeds [ft/min]/[m/min]					
3/8" / 10 mm		Pul	ling	Unwinding			
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer		
Load condition [lbs]/[kg]	0	98.8 / 30.1	122.5 / 37.3	68.0 / 20.7	84.3 / 25.7		
	1300/600	84.0 / 25.5	99.7 / 30.3	-	-		
	2600/1200	69.1 / 20.9	76.9 / 23.2	-	-		
	4000/1800	53.2 / 16.3	-	-	-		

PROFI PULLER 3000-6							
Rope diameter		Speeds [ft/min]/[m/min]					
1/2" / 12 mm	1	Pul	lling Unwinding				
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer		
	0	63.6 / 19.4	80.3 / 25.4	42.5 / 12.9	53.6 / 16.3		
Load condition	2200/1000	53.7 / 16.4	64.5 / 19.6	-	-		
[lbs]/[kg]	4400/2000	43.8 / 13.3	48.7 / 14.8	-	-		
	6600/3000	33.9 / 10.3	-	-	-		

#### PROFI LIFTER 2000-6 / PROFI PULLER 3000-6



#### **JDN AIR WINCHES PROFI**

## PROFI LIFTER 1200-6 / 2000-6 PROFI PULLER 1800-6 / 3000-6

#### **■ ROPE CAPACITIES**

PROFI LIFTER 1200-6 and PROFI PULLER 1800-6						
Max rope capacity	Rope diameter					
per layer	inch.	5/16	3/8	7/16		
1st	ft / m	121.7 / 37.1	100.8 / 30.7	87.5 / 26.7		
1st and 2nd	ft / m	263.2 / 80.2	220.9 / 67.3	193.9 / 59.1		
1st, 2nd and 3rd	ft / m	413.3 / 126.0	349.5 / 106.5	308.9 / 94.2		
1st, 2nd, 3rd and 4th	ft / m	571.9 / 174.3	486.7 / 148.3	432.5 / 131.8		

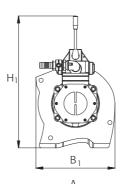
Recommended rope diameter: 3/8" / 9 up to 10 mm Rope diameter for rope drums with grooving: 3/8" / 10 mm

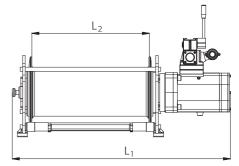
PROFI LIFTER 2000-6 and PROFI PULLER 3000-6						
Max rope capacity		Rope diameter				
per layer	inch.	3/8	7/16	1/2		
1st	ft / m	209.8 / 63.9	179.5 / 54.7	156.7 / 47.8		
1st and 2nd	ft / m	447.0 / 136.2	385.9 / 117.6	340.1 / 103.7		
1st, 2nd and 3rd	ft / m	698.7 / 212.9	606.8 / 185.0	537.9 / 164.0		
1st, 2nd, 3rd and 4th	ft / m	964.9 / 294.1	842.2 / 256.7	750.3 / 228.7		

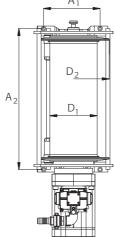
Recommended rope diameter: 1/2" / 12 mm Rope diameter for rope drums with grooving: 1/2" / 13 mm

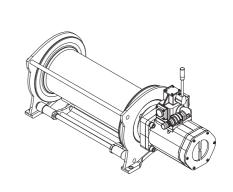
#### ■ DIMENSIONS [inch.]/[mm]

Туре	PROFI LIFTER 1200-6 PROFI PULLER 1800-6	PROFI LIFTER 2000-6 PROFI PULLER 3000-6
В1	15.5 / 393	18.7 / 475
H <sub>1</sub> max.	29.2 / 742	31.2 / 792
L <sub>1</sub> max.	39.4 / 1000	51.8 / 1315
L <sub>2</sub>	16.4 / 416	27.8 / 705
Dı	9.5 / 240	11.2 / 285
D <sub>2</sub>	13.8 / 350	16.9 / 430
A1	11.6 / 295	13.4 / 340
A <sub>2</sub>	20.2 / 512	33.4 / 849









## **Equipment, Options and Accessories**



**Emergency lowering** 

Offshore painting

Splitted rope drum

device



Option

Option

Option

<sup>&</sup>lt;sup>1</sup> Only with E-, FI- und FD control <sup>2</sup> When operating as pulling winch <sup>3</sup> Option with lever control <sup>4</sup> Standard in CE version

#### 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 1000 kg and 2000 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 compressed air as the driving medium:

- 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:
  - $\langle E_x \rangle$  II 2 GD IIA T4(X) / II 3 GD IIB T4(X),
  - $\langle E_X \rangle$  II 2 GD IIB T4(X) or II 2 GD IIC T4(X).
- ⇒ 100 % duty rating, and thus no downtimes.

#### **■ TECHNICAL DATA**

Туре	BBH 1000-1	BBH 2000-1		
Number of hooks		1		
Air pressure	PSI bar	85 6		
Carrying capacity	mt	1	2	
Number of chain strands		1	2	
Engine output hoist	kW	1		
Engine output trolley	kW	0.	2	
Lifting speed at full load	ft/min m/min	13.12 4	6.56 2	
Lifting speed without load	ft/min m/min	29.53 9	14.76 <i>4.5</i>	
Lowering speed at full load	ft/min m/min	32.81 <i>10</i>	16.40 5	
Air consumption at full load – lifting	cfm m³/min	49. 1.		
Air consumption at full load – lowering	cfm m³/min	42.38 1.2		
Air consumption at full load – trolley	cfm m³/min	21.19 <i>0.6</i>		
Air connection		G <sup>1</sup> ,	/2	
Hose dimension (Ø inside)	inch. <i>mm</i>	0.5 1.5		
Weight at standard lift and minimum k dimension	lbs <i>kg</i>	286.60 130	302.03 <i>137</i>	
Chain dimension	inch. <i>mm</i>	0.28 x 7 x		
Weight of 1 m chain	lbs kg	2.2 1		
Standard lift	ft m	10 3		
Length of control at standard load <sup>1</sup> – lift	ft m	6. 2		
Noise level at full load <sup>1</sup> – lifting	ll load <sup>1</sup> – lifting dB(A) 76			
Noise level at full load <sup>1</sup> – lowering	dB(A)	78	8	
Noise level at full load <sup>1</sup> – trolley	dB(A)	80	0	
1 1 11 11 1				

#### **DIMENSIONS**

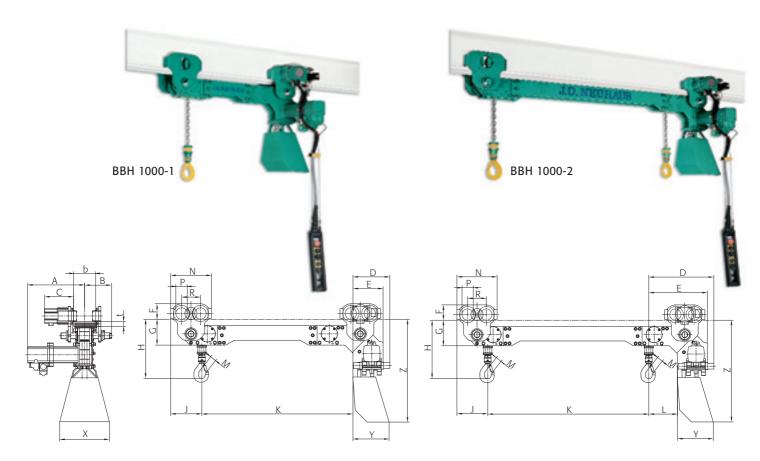
Туј	pe		BBH 1000-1	BBH 2000-1	
Α		inch. mm	14. 36		
В		inch. <i>mm</i>	6.4/8.7 163/220		
Ь	min.	inch. mm	3.54 90		
D	max.	inch. mm	12. 31		
С		inch. mm	7.° 18		
D		inch. mm	8.9 22		
Е		inch. mm	7.2 18		
F		inch. mm	3.74 95		
G		inch. mm	6.26 <i>15</i> 9		
Н		inch. mm	15.3 <i>388</i>	16.77 426	
J		inch. <i>mm</i>	7.56 192	8.66 220	
K	min.	inch. mm	17.13 <i>435</i>	16.14 <i>410</i>	
K	max.	inch. mm	43. 110		
L		inch. mm	-	-	
М		inch. mm	1.10 28	1.18 <i>30</i>	
N		inch. mm	9.84 250		
Р		inch. mm	2.76 70		
R		inch. mm	4.! 11	* *	
t	max.	inch. mm	1.		





Group mechanism: M4 (1 Am)

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



#### **■ TECHNICAL DATA**

Гуре		BBH 1000-2	BBH 2000-2	
Number of hooks		2		
Air pressure	PSI bar	8.	•	
Carrying capacity	mt	1	2	
Number of chain strands		2	4	
Engine output hoist	kW	1		
Engine output trolley	kW	0.	2	
ifting speed at full load	ft/min m/min	13.12 <i>4</i>	6.56 2	
ifting speed without load	ft/min m/min	29.53 9	14.76 <i>4.</i> 5	
Lowering speed at full load	ft/min m/min	32.81 10	16.40 5	
Air consumption at full load – lifting	cfm m³/min	49. 1.		
Air consumption at full load – lowering	cfm m³/min	42.38 1.2		
Air consumption at full load – trolley	cfm m³/min	21.19 0.6		
Air connection		G1	/2	
Hose dimension (Ø inside)	inch. mm	0.5 1.	-	
Neight at standard lift and minimum k dimension	lbs kg	302.03 137	328.49 149	
Chain dimension	inch. mm	0.28 x 7 x		
Neight of 1 m chain	lbs kg	2.20 1		
Standard lift	ft m	10 3		
ength of control at standard load <sup>1</sup> – lift	ft m	6.5		
Noise level at full load¹ – lifting	dB(A)	7	5	
Noise level at full load <sup>1</sup> – lowering	dB(A)	7:	3	
Noise level at full load <sup>1</sup> – trolley	dB(A)	81		

Group mechanism: M4 (1 Am)

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

Тур	е		BBH 1000-2	BBH 2000-2	
Α		inch. <i>mm</i>	14. 36		
В		inch. mm	6.4/8.7 163/220		
b	min.	inch. mm	3.54 90		
U	max.	inch. mm	12. 31	.20 1 <i>0</i>	
С		inch. mm	7. 18	17 32	
D		inch. mm	15.94 <i>405</i>	14.9 <i>37</i> 8	
E		inch. mm	14.29 <i>363</i>	13.2 336	
F		inch. mm	3.74 95		
G		inch. mm	6.26 <i>15</i> 9		
Н		inch. mm	15.3 <i>388</i>	16.77 <i>426</i>	
J		inch. mm	7.56 192	8.66 220	
K	min.	inch. mm	10. 26	24 60	
K	max.	inch. mm	51. 13	18 00	
L		inch. mm	6.89 175	5.91 <i>150</i>	
М		inch. mm	1.10 28	1.18 <i>30</i>	
N		inch. mm	9.84 250		
Р		inch. <i>mm</i>	2.76 70		
R		inch. <i>mm</i>	4.57 116		
t	max.	inch. mm	1. <i>3</i>	18 <i>0</i>	



#### **JDN LOW HEADROOM TROLLEYS**

The trolley solution for restricted headroom areas.

Carrying capacities: from 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 horizontally mounted. When only very low headroom is available we recommend JDN Ultra-Low Monorail Hoist design.



Low Headroom Trolley LMF

#### **■ STANDARD FEATURES**

- State of the art design utilising JDN's new PROFI TI motor technology
- Small number of maintenance/wear free moving parts
- No additional motor lubrication required
- 2-step travelling speed
- Adjustable trolley widths to suit your requirements (please contact us for details)

#### **■ SPECIAL FEATURES**

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

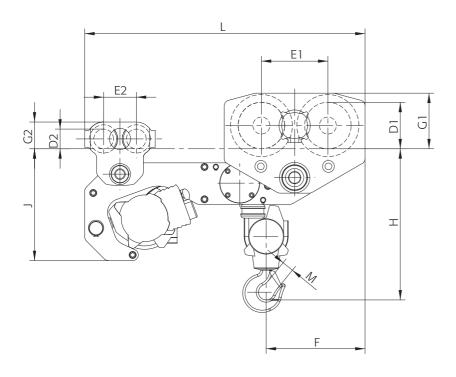
#### **■ TECHNICAL DATA**

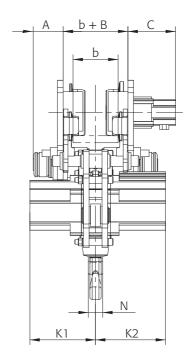
Hoist Type		PROFI 05 TI	PROFI 1 TI	PROFI 2 TI	PROFI 3 TI	PROFI 6 TI
Trolley Type		LMF 05-2 t	LMF 05-2 t	LMF 05-2 t	LMF 3.2 t	LMF 6.3 t
Carrying capacity	mt	0.5	1	2	3.2	6.3
Number of chain strands		1	1	2	1	2
Motor output Hoist	kW	1	1	1	3.5	3.5
Motor output Trolley	kW	0.2	0.2	0.2	0.2	0.2
Air pressure	PSI	85	85	85	85	85
	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>	10	5	2.5	<i>4.5</i>	2.2
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	9	<i>4.5</i>
Lowering speed at full load	ft/min	55.77	36.09	18.04	35.43	17.72
	<i>m/min</i>	<i>17</i>	11	5.5	10.8	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/mi</i> n	9*/14	9*/14	9*/14	9*/14	9*/14
Air consumption at full load – lifting	cfm	42.38	42.38	42.38	141.26	141.26
	m³/min	1.2	1.2	1.2	<i>4</i>	<i>4</i>
Air consumption at full load – lowering	cfm	52.97	52.97	52.97	194.23	194.23
	m³/min	1.5	1.5	1.5	<i>5.5</i>	5.5
Air consumption trolley motor	cfm	21.19	21.19	21.19	21.19	21.19
	m³/min	<i>0.6</i>	0.6	<i>0.6</i>	<i>0.6</i>	<i>0.6</i>
Air connection		G 1/2	G 1/2	G 1/2	G 3/4	G 3/4
Hose dimension (Ø inside)	inch.	0.51	0.51	0.51	0.75	0.75
	mm	<i>13</i>	13	13	19	19
Weight with standard lift height and control length	lbs	216.05	218.26	231.59	462.97	727.53
	kg	98	99	<i>105</i>	210	<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 x 21	7 x 21	7 x 21	13 x 36	13 x 36
Weight of chain	lbs/m	2.20	2.20	2.20	8.38	8.38
	kg/m	1	1	1	<i>3.8</i>	3.8
Standard lift	ft	9.84	9.84	9.84	9.84	9.84
	m	<i>3</i>	3	<i>3</i>	3	3
Length of control at standard lift	ft	6.56	6.56	6.56	6.56	6.56
	m	2	2	2	2	2
Max. bottom flange thickness t	inch.	0.98	0.98	0.98	1.38	1.38
	<i>mm</i>	25	25	25	<i>35</i>	<i>35</i>
Max. bottom flange width b	inch.	12.20	12.20	12.20	12.20	12.20
	<i>mm</i>	<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
	<i>mm</i>	<i>80</i>	80	80	125	125
Noise level at full load <sup>1</sup> - lifting	dB(A)	75	76	76	78	78
Noise level at full load <sup>1</sup> - lowering	dB(A)	78	78	78	80	80
*1-+						

<sup>\*1</sup>st step at F-control with 2-step travelling speed



 $<sup>^{\</sup>rm 1}$  Measured at 1 m distance acc. to DIN 45635 part 20





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.	4.13	4.13	4.13	4.13	4.17
	<i>mm</i>	105	105	105	105	106
В	inch.	1.42	1.42	1.42	1.42	2.76
	<i>mm</i>	36	36	36	36	70
b min.	inch.	3.15	3.15	3.15	3.15	4.92
	<i>mm</i>	<i>80</i>	<i>80</i>	<i>80</i>	<i>80</i>	125
С	inch.	6.46	6.46	6.46	6.46	6.65
	<i>mm</i>	1 <i>64</i>	164	1 <i>64</i>	164	169
D1	inch.	2.76	2.76	2.76	2.76	6.50
	<i>mm</i>	<i>70</i>	70	70	70	165
D2	inch.	2.76	2.76	2.76	2.76	2.76
	<i>mm</i>	70	70	70	70	<i>70</i>
E1	inch.	4.57	4.57	4.57	4.57	9.29
	<i>mm</i>	116	116	116	116	236
E2	inch.	4.57	4.57	4.57	4.57	4.57
	<i>mm</i>	116	116	116	116	116
F	inch.	6.77	6.77	7.68	8.98	13.82
	<i>mm</i>	1 <i>7</i> 2	172	195	228	<i>351</i>
G1	inch.	3.74	3.74	3.74	3.74	7.76
	<i>mm</i>	95	95	95	95	197
G2	inch.	3.74	3.74	3.74	3.74	3.74
	<i>mm</i>	95	95	95	95	95
H min.	inch.	12.60	12.60	15.51	16.34	21.14
	<i>mm</i>	<i>320</i>	<i>320</i>	<i>394</i>	<i>415</i>	<i>537</i>
J	inch.	12.60	12.60	12.60	15.63	15.63
	<i>mm</i>	<i>320</i>	<i>320</i>	<i>320</i>	<i>397</i>	<i>397</i>
K1	inch.	5.71	5.71	5.71	9.17	9.17
	<i>mm</i>	<i>145</i>	<i>145</i>	145	233	233
K2	inch.	5.98	5.98	5.98	9.76	9.76
	<i>mm</i>	1 <i>52</i>	152	152	248	248
L	inch.	28.15	28.15	28.15	32.48	39.17
	<i>mm</i>	<i>715</i>	<i>715</i>	<i>715</i>	825	995
М	inch.	1.10	1.10	1.10	1.18	1.57
	<i>mm</i>	28	28	28	<i>30</i>	40
N	inch.	1.65	1.65	1.65	1.65	2.01
	<i>mm</i>	<i>42</i>	<i>42</i>	<i>42</i>	<i>42</i>	<i>51</i>
t max.	inch.	0.98	0.98	0.98	1.38	1.38
	<i>mm</i>	<i>25</i>	25	25	<i>35</i>	<i>35</i>

#### **JDN ULTRA-LOW MONORAIL HOISTS**

Carrying capacities: 4t up to 100t

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 6t has a headroom of only 230 mm.

#### **■ STANDARD FEATURES**

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



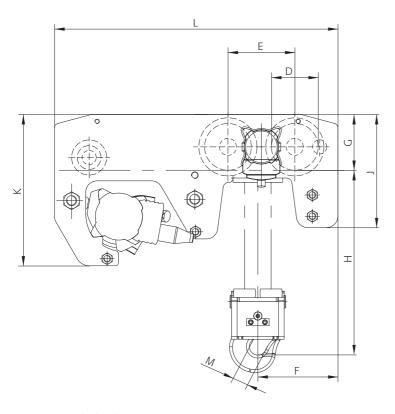
#### **■ TECHNICAL DATA**

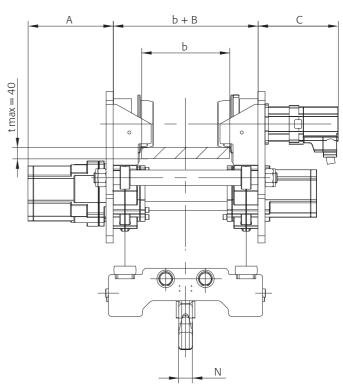
Туре		UH 4	UH 6	UH 8	UH 12	UH 16
Carrying capacity	mt	4	6	8	12	16
Number of chain strands		2	2	4	4	4
Motor output	kW	2.5	2.5	2.5	2.5	2.5
Air pressure	PSI	85	85	85	85	85
	bar	6	6	6	6	6
Lifting speed at full load	ft/min	9.84	6.56	4.59	2.95	2.13
	<i>m/min</i>	<i>3.0</i>	2.0	1.4	<i>0.9</i>	0.65
Lifting speed without load	ft/min	19.69	14.76	9.51	7.22	3.94
	<i>m/min</i>	6.0	<i>4.5</i>	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 lifting – full load	cfm	141.26	141.26	141.26	141.26	141.26
	m³/min	<i>4.0</i>	<i>4.0</i>	<i>4.0</i>	<i>4.0</i>	<i>4.0</i>
Air consumption lowering – full load	cfm	194.23	194.23	194.23	194.23	194.23
	m³/min	5.5	5.5	5.5	5.5	5.5
Air connection		G 3/4	G <sup>3</sup> / <sub>4</sub>	G <sup>3</sup> / <sub>4</sub>	G 3/4	G <sup>3</sup> / <sub>4</sub>
Hose dimension (Ø inside)	inch.	0.75	0.75	0.75	0.75	0.75
	<i>mm</i>	19	19	19	19	19
Weight with standard lift height and control length	lbs	1014.13	1036.17	1190.50	1212.54	1234.60
	<i>kg</i>	<i>460</i>	<i>470</i>	<i>540</i>	<i>550</i>	<i>560</i>
Chain dimension	inch.	0.51 x 1.42	0.51 x 1.42	0.51 x 1.42	0.51 x 1.42	0.51 x 1.42
	<i>mm</i>	13 x 36	13 x 36	13 x 36	13 x 36	13 x 36
Weight of 1 m chain	lbs	8.38	8.38	8.38	8.38	8.38
	<i>kg</i>	<i>3.8</i>	3.8	<i>3.8</i>	<i>3.8</i>	<i>3.8</i>
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

Group mechanism: M3 (1Bm) Technical data for higher capacities on request.



 $<sup>^{\</sup>rm 1}$  Measured at 1 m distance acc. to DIN 45635 part 20





#### DIMENSIONS

Туре		UH 4	UH 6	UH 8	UH 12	UH 16
Α	inch.	7.68	12.01	7.68	12.01	12.01
	mm	195	<i>305</i>	195	<i>305</i>	<i>305</i>
В	inch.	7.87	7.87	7.87	7.87	7.87
	mm	200	200	200	200	200
С	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	1 <i>65</i>	165	165	165	<i>165</i>
Е	inch.	9.29	9.29	9.29	9.29	9.29
	mm	236	236	236	<i>2</i> 36	236
F	inch.	12.99	12.99	11.14	11.14	11.14
	mm	<i>330</i>	<i>330</i>	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. mm	9.06 230	9.06 230	-	-	-
H min. 150 < =b < =230	inch. mm	-	-	11.61 295	11.61 295	13.15 <i>334</i>
H min. 230 < =b < =310	inch. mm	-	-	10.87 276	10.87 276	12.40 <i>315</i>
J	inch.	15.75	15.75	15.75	15.75	15.75
	mm	400	400	400	<i>400</i>	<i>400</i>
K	inch.	21.06	21.06	21.06	21.06	21.06
	mm	535	<i>535</i>	535	<i>535</i>	<i>535</i>
L	inch.	39.37	39.37	39.37	39.37	39.37
	mm	1000	1000	1000	1000	1000
М	inch.	1.57	1.57	1.73	1.73	2.09
	mm	40	40	44	<i>44</i>	53
N	inch.	2.01	2.01	2.60	2.60	3.23
	mm	51	<i>51</i>	66	66	82

Technical data for higher capacities on request.



#### 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  $-20^{\circ}$ C up to  $+70^{\circ}$ 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 **DIMENSIONS** in the event of interruption of air supply
- All gearbox components made of tempered or hardened high-grade steels
- Anti-climb and anti-drop devices
- Lateral guiding plates
- Pendant Control unit with emergency shut-off valve

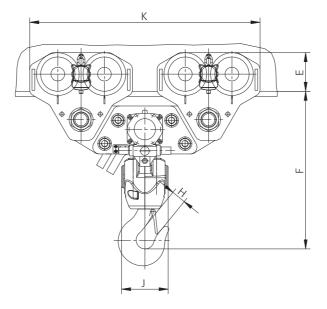
#### ACCESSORIES

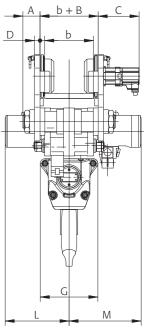
- Increased spark protection
- Rack and pinion drive
- Overload protection
- Two speed trolley travel control
- Filter silencer

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.





Туре		EH 10	EH 16	EH 20	EH 25	EH 37	EH 50	EH 75	EH 100
A max.	inch.	4.1	5.1	5.1	5.8	3.9	4.9	3.9	4.9
	mm	105	130	130	146	100	125	100	125
В	inch.	2.8	2.7	2.7	2.8	2.7	2.7	2.7	2.7
	mm	70	68	68	70	68	68	68	68
С	inch.	11.2	11.6	11.6	11.2	11.6	11.8	11.6	11.8
	mm	285	295	295	285	295	<i>300</i>	295	<i>300</i>
D	inch.	0.9	1.4	1.4	1.0	1.4	1.6	1.4	1.6
	mm	25	35	35	25	35	40	35	40
E	inch.	7.8	8.7	8.7	7.8	8.7	11.1	8.7	11.1
	mm	198	220	220	198	220	283	220	283
F*	inch.	27.8	29.5	32.3	39.3	42.1	45.3	58.3	60.4
	mm	705	<i>750</i>	820	998	1070	1150	1480	1535
G	inch.	5.4	8.4	7.9	6.7	7.5	16.5	11.3	22.6
	mm	138	213	200	1 <i>70</i>	190	420	286	575
Н	inch.	1.7	2	3	3	3.9	3.9	4.7	4.7
	mm	44	53	75	75	100	100	120	120
J	inch.	7.6	7.3	10.5	13.8	17.9	13.4	29.1	18.5
	mm	192	185	266	<i>350</i>	<i>455</i>	<i>340</i>	740	<i>470</i>
K	inch.	22.8	23.6	23.6	46.7	68.1	66.1	126.1	123.2
	mm	580	600	600	1185	1 <i>730</i>	1680	<i>3210</i>	<i>3130</i>
L	inch.	12.1	14.5	14.5	14.8	14.8	18.2	25.2	30
	mm	<i>30</i> 8	<i>367</i>	<i>367</i>	<i>377</i>	<i>377</i>	462	640	762
M	inch.	10.5	12.8	12.8	17.1	17.1	22.1	25.8	29.5
	mm	266	325	<i>3</i> 25	<i>435</i>	<i>435</i>	560	655	<i>750</i>

<sup>\*</sup>Chain containers increase the hoist headroom









#### **■ TECHNICAL DATA**

Туре		EH 10	EH 16	EH 20	EH 25	EH 37	EH 50	EH 75	EH 100
Carrying capacity	mt	10	16	20	25	37.5	50	75	100
Number of chain strands		2	3	4	2	3	4	3	4
Motor output Trolley	kW	0.7	0.7	0.7	1.4	1.4	1.4	2.8	2.8
Motor output Hoist	kW	3.5	3.5	3.5	6	6	6	10	10
Air pressure	PSI	85	85	85	85	85	85	85	85
	bar	6	6	6	6	6	6	6	6
Lifting speed at full load	ft/m	5.3	3.3	2.3	3.6	2.1	1.6	1.5	1.2
	m/min	1.6	1	0.7	1.1	0.6	<i>0.5</i>	0.5	0.4
Lifting speed without load	ft/m	10.5	6.6	4.6	7.6	5.3	3.6	2.8	2.1
	<i>m/min</i>	<i>3.2</i>	2	1.4	2.3	1.6	1.1	0.6	<i>0.7</i>
Lowering speed at full load	ft/m	11.2	6.9	5.3	6.2	4.9	3	3.3	2.5
	m/min	<i>3.4</i>	2.1	1.6	1.9	1.5	0.9	1.0	0.8
Travelling speed at full load	ft/m	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
Travelling speed without load	ft/m	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
Air consumption – Trolley	cfm	46	46	46	92	92	92	184	184
	m³/min	1.3	1.3	1.3	2.6	2.6	2.6	5.2	5.2
Air consumption – Hoist	cfm	113.2	113.2	141.5	194.6	194.6	194.6	389.1	389.1
	m³/min	<i>3.</i> 2	3.2	<i>4</i>	5.5	<i>5.5</i>	<i>5.5</i>	<i>11</i>	11
Air connection		G <sup>3</sup> /4	G <sup>3</sup> /4	G <sup>3</sup> /4	G1 <sup>1</sup> /2	G1 <sup>1</sup> /2	G1 <sup>1</sup> / <sub>2</sub>	G1 <sup>1</sup> / <sub>2</sub>	G1 <sup>1</sup> / <sub>2</sub>
Hose dimension	inch.	0.8	0.8	0.8	1.4	1.4	1.4	1.4	1.4
(Ø inside)	mm	19	19	19	35	35	35	35	<i>35</i>
Weight with standard lift height and control length	lbs	992.1	1267.7	1366.3	2093.5	3195.3	3922.5	8814.7	12560.9
	kg	<i>450</i>	575	620	950	<i>1450</i>	1780	<i>4000</i>	<i>5700</i>
Chain dimension	inch.	0.6 x 1.8	0.6 x 1.8	0.6 x 1.8	0.9 x 2.6	0.9 x 2.6	0.9 x 2.6	1.2 x 3.5	1.2 x 3.5
	mm	16 x 45	16 x 45	16 x 45	23.5 x 66	23.5 x 66	23.5 x 66	32 x 90	32 x 90
Weight of 1 m chain	lbs	12.8	12.8	12.8	26.9	6.9	6.9	46.9	46.9
	kg	5.8	5.8	5.8	12.2	12.2	12.2	21.3	21.3
Standard lift	ft	10	10	10	10	10	10	10	10
	m	3	3	3	3	3	3	3	3
ength 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
Noise level at full load <sup>1</sup> with standard silencer – lifting	dB(A)	78	78	80	83	83	83	88	88
Noise level at full load <sup>1</sup> with standard silencer – lowering	dB(A)	80	80	84	83	83	83	89	89

Group mechanism: EH 10 - EH 50 M3 (1 Bm), EH 75 and EH 100 M2 (1 Cm)

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



#### **JDN HYDRAULIC HOISTS AND MONORAIL HOISTS**

## HYDRAULIC HOISTS PROFI HYDRAULIC MONORAIL HOISTS

Carrying capacities: up to 100 t



The alternative to air hoists: **JDN Hydraulic Hoists and Hydraulic Monorail Hoists** with carrying capacities up to 100t.

Depending on motor size these hoists work with an intake pressure of 100 bar up to 180 bar. Pressure fluids: Oil or flame resistant fluids HFC.

Our Hydraulic hoists can be deployed as an alternative to air driven units in all places where hydraulic lines, central hydraulic systems or hydraulic power supplies exist.

#### ADVANTAGES

- Ideal for applications in explosion risk areas
- Sensitive, infinitely variable speed control of lifting/lowering and travelling motions
- 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
- Controlled load-lowering up to 20 t carrying capacities in the event of oil supply failure

#### **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
No. of chain strands		1	2	2	3	4
Motor type		KM 1/16				
Motor output	kW	3.5	3.5	3.5	3.5	3.5
Intake pressure	PSI	1885	1885	1885	1885	1885
	bar	<i>130</i>	<i>130</i>	<i>130</i>	<i>130</i>	<i>130</i>
Intake volume	cfm	1.7	1.7	1.7	1.7	1.7
	I/min	48	48	48	48	48
Lifting speed - full load	ft/min	13.1	6.6	5.6	3.6	2.6
	m/min	<i>4.0</i>	2.0	1.7	1.1	0.8
Lifting speed without load	ft/min	14.8	7.5	6.6	4.3	3
	<i>m/min</i>	<i>4.5</i>	2.3	2.0	1.3	0.9
Lowering speed - full load	ft/min	14.8	7.5	6.9	4.9	3.3
	<i>m/min</i>	<i>4.5</i>	2.3	2.1	1.5	1.0
Lowering speed without load	ft/min	14.8	7.5	6.7	4.3	3
	<i>m/min</i>	<i>4.5</i>	2.3	2.0	1.3	0.9
Connection		G 1/2				
Hose dimension		DN 12				
Weight with standard lift height and control length	lbs	1285	2127	2072	2072	5423
	kg	<i>583</i>	965	940	940	2460
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

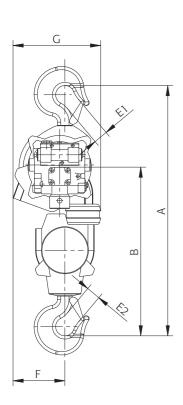
Group mechanism: M3 (1 Bm)

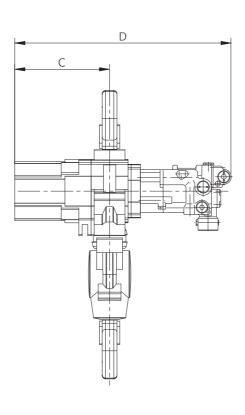


#### JDN HYDRAULIC HOISTS PROFI 3 TI-H - 20 TI-H

Туре		3 TI-H	6 TI-H	10 TI-H	16 TI-H	20 TI-H
A smallest	inch.	23.4	26.5	32	35.4	40.6
headroom <sup>1</sup>	mm	593	<i>674</i>	813	898	1 <i>030</i>
В	inch.	14.7	17.9	21.6	23.5	26.4
	mm	373	<i>454</i>	548	598	670
С	inch.	9.2	9.2	12.2	15	15
	<i>mm</i>	233	233	<i>308</i>	382	382
D	inch.	21	21	24.6	29.2	29.2
	<i>mm</i>	533	533	625	742	742
E1	inch.	1.6	1.6	1.8	2.1	3
	<i>mm</i>	40	40	44	53	75
E2	inch.	1.2	1.6	1.8	2.1	3
	<i>mm</i>	30	40	44	53	75
F	inch.	7.4	6.1	7.8	7.8	7.1
	mm	187	154	197	199	180

<sup>&</sup>lt;sup>1</sup>Chain containers increase the hoist headroom





### JDN HYDRAULIC HOISTS AND MONORAIL HOISTS

#### **HYDRAULIC HOISTS PROFI 25 TI-H - 100 TI-H**

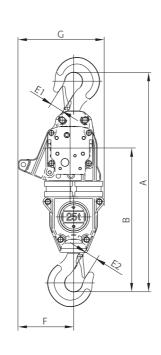
#### **■ TECHNICAL DATA**

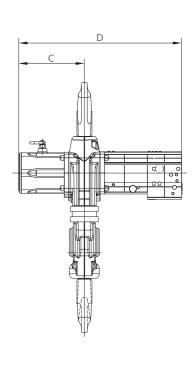
Туре		25 TI-H	37 TI-H	50 TI-H	100 TI-H
Capacity	mt	25	37.5	50	100
Number of chain strands		2	3	4	4
Motor output	kW	6	6	6	10
Motor type		KM 2/32	KM 2/32	KM 2/32	KM 2/40
Intake pressure	PSI	2176	2176	2176	2611
	bar	150	<i>150</i>	<i>150</i>	180
Intake volume	cfm	2.8	2.8	2.8	4.2
	I/min	80	80	80	120
Lifting speed at rated load	ft/min	3.6	2.3	1.6	1.4
	<i>m/min</i>	1.1	0.7	0.5	<i>0.4</i>
Lifting speed without load	ft/min	3.9	2.6	1.6	1.5
	<i>m/min</i>	1.2	0.8	0.5	<i>0.5</i>
Lowering speed at rated load	ft/min	3.9	2.6	1.6	1.5
	<i>m/min</i>	1.2	0.8	0.5	<i>0.5</i>
Lowering speed without load	ft/min	3.9	2.6	1.6	1.6
	<i>m/min</i>	1.2	0.8	0.5	<i>0.5</i>
Connection		G 3/4	G 3/4	G 3/4	G 3/4
Hose dimension		DN 16	DN 16	DN 16	DN 16
Weight with standard lift height and control length	lbs	1282	2123	2068	5412
	kg	583	965	940	2460
Chain dimension	mm	23.5 x 66	23.5 x 66	23.5 x 66	32 x 90
Weight of chain	lbs/ft	8.2	8.2	8.2	14.3
	kg/m	12.2	12.2	12.2	21.3
Standard lift	ft	10	10	10	10
	m	3	3	3	3
Length of control with standard lift	ft	6.5	6.5	6.5	6.5
	m	2	2	2	2

Group mechanism: PROFI 25TI-H - PROFI 50TI-H M3 (1Bm), PROFI 100TI-H M2 (1Cm)

Туре		25 TI-H	37 TI-H	50 TI-H	100 TI-H
A smallest headroom <sup>1</sup>	inch.	50.5 1282	57.7 1466	66.9 1 <i>700</i>	86.6 2200
В	inch.	37.3	36.8	45	58.1
	mm	948	935	1144	1475
С	inch.	15.5	14.8	17.4	27.8
	mm	393	377	442	705
D	inch.	42.1	40.8	48.6	55.8
	mm	1069	1037	1235	1417
E1	inch.	3	3.9	3.9	4.2
	mm	75	100	100	120
E2	inch.	3	3.9	3.9	4.2
	mm	75	100	100	120
F	inch.	18.4	20.4	12.2	17.3
	mm	466	518	310	30.2
G	inch.	24	29.3	21.2	440
	<i>mm</i>	610	745	539	767

<sup>&</sup>lt;sup>1</sup>Chain containers increase the hoist headroom







#### **HYDRAULIC MONORAIL HOISTS EH 20-H - 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	10	10
Motor type – Trolley		KM1/16	KM1/16	KM1/16	KM1/16	KM1/16	KM1/16
Motor type – Hoist		KM1/8-KM1/16	KM 2/32	KM 2/32	KM 2/32	KM 2/32	KM 2/32
Intake pressure	PSI	2320.6/1450	2176	2176	2176	2610	2610
	bar	160/100	<i>150</i>	<i>150</i>	<i>150</i>	<i>180</i>	<i>180</i>
Intake volume	cfm	0.7/1.4	2.8	2.8	2.8	3	3
	I/min	20/40	80	80	80	80	80
Lifting speed at rated load	ft/min	2.6	3.6	2.3	1.6	2.3	1.8
	m/min	0.8	1.1	0.7	0.5	0.7	0.55
Lifting speed without load	ft/min	3	3.9	2.6	2	2.5	1.8
	<i>m/min</i>	0.9	1.2	0.8	0.6	0.75	0.55
Lowering speed at rated load	ft/min	3	3.9	2.6	2	2.6	2
	m/min	0.9	1.2	0.8	0.6	0.8	0.6
Lowering speed without load	ft/min	3	3.9	2.6	2	2.5	1.8
	m/min	0.9	1.2	0.8	0.6	0.75	0.55
Travelling speed at rated load	ft/min	39.4	39.4	39.4	39.4	39.4	39.4
	<i>m/min</i>	12	12	<i>12</i>	12	12	12
Connection		G <sup>1</sup> / <sub>2</sub>	G <sup>3</sup> / <sub>4</sub>	G <sup>3</sup> /4	G <sup>3</sup> /4	G <sup>3</sup> / <sub>4</sub>	G <sup>3</sup> /4
Hose dimension		DN 12	DN 16	DN 16	DN 16	DN 16	DN 16
Weight with standard lift height and control length	lbs	1584	2310	1550	4136	9020	12760
	<i>kg</i>	<i>720</i>	1050	<i>3410</i>	1880	<i>4100</i>	5800
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

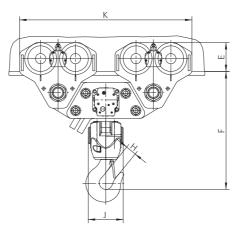
Group mechanism: EH 20-H - EH 50-H M3 (1 Bm), EH 75-H and EH 100-H M2 (1 Cm)

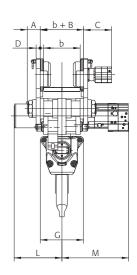
Туре		EH 20-H	EH 25-H	EH 37-H	EH 50-H	EH 75-H	EH 100-H
A	inch.	5.1	5.8	5.8	4.9	3.9	4.9
	mm	130	146	146	125	100	125
В	inch.	2.7	2.8	2.8	2.7	2.7	2.7
	mm	68	70	70	68	68	68
С	inch.	10.5	10.1	10.5	10.7	10.5	10.7
	mm	267	257	267	272	267	272
D	inch.	1.4	1	1	1.6	1.4	1.6
	mm	35	25	25	40	35	40
Е	inch.	8.7	7.8	8.7	11.1	8.7	11.1
	<i>mm</i>	220	198	220	283	220	283
F <sup>1</sup>	inch.	32.3	39.3	42.1	45.3	58.3	60.4
	<i>mm</i>	820	998	1070	1150	1480	1535
G	inch.	7.9	6.7	7.5	16.5	11.3	22.6
	mm	200	1 <i>7</i> 0	190	420	286	575
Н	inch.	3	3	3.9	3.9	4.7	4.7
	mm	75	75	100	100	120	120
J	inch.	10.5	13.8	17.9	13.4	29.1	18.5
	mm	266	<i>350</i>	<i>455</i>	<i>340</i>	<i>740</i>	<i>470</i>
K	inch.	23.6	46.7	68.1	66.1	126.4	123.2
	mm	600	1185	1730	1 <i>680</i>	<i>3210</i>	3130
L	inch.	14.5	14.8	14.8	18.2	25.2	30
	mm	367	377	377	462	640	762
M	inch.	16.5	22.1	22.1	27.0	26.4	30.1
	<i>mm</i>	419	562	562	687	<i>670</i>	765

 $<sup>^{\</sup>rm 1}\,\mbox{Chain}$  containers increase the hoist headroom



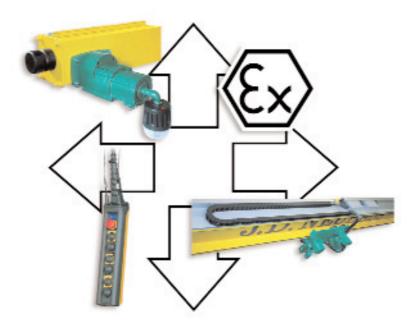








#### JDN AIR CRANES / CRANE KITS



**JDN Air Cranes** in standard version are suitable for working in hazardous areas.

#### The delivery programme comprises explosionproof

- Top running overhead travelling cranes
- Under hung overhead travelling cranes
- lib 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 50t
- Crane spans up to 18 m

#### **■ JDN CRANE KITS FOR EXPLOSION-PROOF AIR CRANES**

#### Carrying 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 10t 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**

1 t 7/20 x 9/14 x 5/12 x	able
[m/min] 2-steps [m/min] 2-steps variable lifting/lowering 1-step variable 1 t 7/20 x 9/14 x 5/12 x	able
2+ 7/20 % 0/14 % 25/6 %	+
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 7/20 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 + 0.7/1.2 x	
50 t 5/25 x 5/12 x + 0.5/1.1 x	

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



#### **JDN RATCHET HOISTS WITT**

Carrying capacities: 1.5 t, 2.5 t

The **WITT** is designed for for lifting, pulling, tensioning or anchoring operations under all working positions. It has a robust cast iron housing and is extremely resistant to adverse working conditions. Technically the **WITT** distinguishes itself by a totally enclosed planetary gear. All rotating parts have ball, needle or slide bearings.

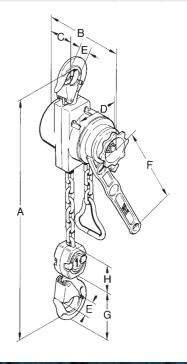
The **WITT** is a proven device for moving and positioning heavy machinery, for tensioning heavy loads during transport, for positioning various heavy profiles and for many other operations.



#### **■ TECHNICAL DATA**

Туре		WITT 1,5t	WITT 2,5t
Carrying capacity	mt	1.5	2.5
Number of falls			l
Lift per ratchet rotation	inch.	1.3	1.5
	<i>mm</i>	33	<i>37</i>
Lever force at full load	lbs	61.7	88.2
	<i>kg</i>	28	40
Weight without chain	lbs	16.5	39.7
	<i>kg</i>	7.5	18
Total weight	lbs	20.3	48.5
	kg	9.2	22
Weight of 1 m chain	lbs	2.2	6.0
	kg	1	2.7
Chain dimension	mm	7.1 x 21	11 x 31
Standard lift	ft m	59.1 <i>1.5</i>	

Туре		WITT 1,5t	WITT 2,5t
A smallest headroom	inch.	13.6	17.3
	mm	<i>345</i>	440
В	inch.	6.3	7.3
	mm	160	185
С	inch.	2.6	2.8
	mm	65	72
D	inch.	3.7	5.5
	mm	93	140
Е	inch.	1.1	1.2
	mm	27	<i>31.5</i>
F	inch.	14.4	15.6
	mm	365	<i>3</i> 95
G	inch.	3.7	5.2
	mm	95	133
Н	inch.	2.4	3.5
	mm	62	88



#### **JDN CONTROLS**

## The following symbols indicate the various control options available for JDN equipment



for JDN Air Hoists



for JDN Air Winches



#### 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.



#### **LEVER CONTROL**



#### For JDN Air Winches:

With the hand lever control, loads can be moved safely in a precise manner and at variable speeds. The direction of movement of the lever corresponds to the direction of rotation of the rope drum. When released, the lever returns automatically to the centre position.



#### **■ 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 WINCHES**

Our winches are easy to operate, with an infinitely variable speed lever type control at the winch or via a two button version E-control or the twin lever FI-type pendant controls. As an added safety feature the controls are available with a main air emergency shut-off valve.

#### **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 ACCESSORIES / EXPLOSION-PROOFNESS

#### ACCESSORIES

Spiral hose up to 10 m / 30 ft trolley drive Not for use in category II (Zone 1) or explosion group IIC applications

■ Energy supply by Square bar (suitable for curved beams) consisting of: square track with towing arm, anti-static air supply hose, hose trolley, horizontal support bracket and clamp. The horizontal support bracket is designed to be clamped to the top flange of the runway beam. Alternative fixing methods are available on request.

#### ■ Energy supply by C-rail consisting of: C-rail with horizontal support bracket, clamp, antistatic air supply hose and hose trolley. The horizontal support bracket is designed to be clamped to the top flange of the runway beam. Alternative fixing methods are available on request.

- Lubricator
- **⇒** Filter silencer
- **⇒** Filter regulator
- Grease cartridge for oil-free motor operation, 250 ml, Art. No. 11901
- Booster Valve (for use above 10 m pendant control length)
- Pneumatic limit switch for lifting and travelling motions
- Extended Pendant control arm
- Copper plated load hook for increased non sparking protection (included as standard in Zone 1 and IIC specification)
- $\bigcirc$  Stainless steel load hook (up to  $\frac{3}{4}$  tonne carrying capacity)
- Stainless steel load chain up to 6TI (load carrying capacity is reduced, details on request)
- Remote control (for cranes, hoists and trolleys)
- Electropneumatic interface
- Manual emergency lowering device for PROFI hoists 3-20 TI and LIFTER 1200 winch and above
- Hydraulic drives
- Product training
- Further accessories, available on request

#### Note:

In the service section on our homepage under www.jdn.de you will find scaled drawings in 2D/3D format for download and linking in you CAD drawing.

## ■ JDN AIR HOISTS EXPLOSION-PROOFNESS CLASSIFICATION AND MARKING



JDN Air Hoists, Winches and Cranes are - as opposed to standard electrically operated products - suitable for application in hazardous areas as the driving medium air (unlike electricity) does not produce any ignition risk.

#### **⇒** JDN Air Hoists and Cranes

- Standard Versions:
- With increased non sparking protection (bottom block and load hook with safety catch feature galvanised copper plated finish):
  - ⟨€x⟩ II 2 GD IIB T4(X)
- With increased non sparking protection for explosion group IIC (additionally the running wheels and hand gear mechanism of trolleys and travelling gears are made of bronze):
  - ⟨E⟩ II 2 GD IIC T4(X)
- JDN General duty mini series Air Hoists:
  - ⟨Ex> II 3 GD IIA T4(X)

#### JDN Air Winches PROFI LIFTER 1200 / 2000 and PROFI PULLER 1800 / 3000

- Standard Versions:
- With increased non sparking protection (For these versions harnesses with special corrosion protection are available. The rope-end fastenings for the load hook and the load hook itself are copper-plated, the rope is galvanized and compressed.):
  - ⟨Ex⟩ | I 2 GD | IB T4(X)

#### ⇒ JDN Air Winches PROFI LIFTER 500 / 800 and PROFI PULLER 800

• (Ex) | | 3 GD | ||A T4(X)



#### **JDN QUALITY**

#### **OUR ADVANTAGE IS OUR QUALITY**

In 1991 our quality management system was originally certified to ISO 9001 by Det Norske Veritas. It is a focus of our commitment towards continuous improvement, and involves all of our processes. In our quality manual all our procedures and their systematic integration throughout the entire company are defined. In addition we have internal quality teams engaged in continuous improvement processes based on the Kaizen philosophy.

Our CAD based design system follows detailed catalogues with defined quality standards. Based on the most up to date knowledge and technology, coupled with intensive R&D, we have completely re-designed the entire Profi series of hoists and accessories over the past 10 years.

In our goods received department corresponding controls and inspection procedures have been implemented to ensure our suppliers meet agreed quality standards. Regular controls of stock levels and production planning logistics guarantee the optimum supply of materials and parts for production and consequently the achievement of agreed delivery times.

Our production processes follow defined quality plans. This ensures the smooth flow of parts through all centres of production and assembly. Where required the quality plan includes parts identification/marking to allow 100% traceability through our production system.

Our quality control procedures include all machining processes as well as regular random sample checks on the production line. Computer controlled precision measuring machines guarantee correct tolerances and continuous high quality. All measuring instruments are checked and re-calibrated periodically.

After final assembly we carryout a 100% function check and load test of each unit before delivery.

With our trained service team we offer thorough product knowledge and support to our customers. All repair and service work is carried out according to defined check lists.

Our quality ensures your safety - there is no compromise.









#### **JDN COMPANY PORTRAIT**





#### MAIN OFFICE

J.D. NEUHAUS GmbH & Co. KG Germany

#### DAUGHTER COMPANIES

- J.D. NEUHAUS Sarl. France
- J.D. NEUHAUS Pte. Ltd. Singapore
- ⇒ J.D. NEUHAUS Ltd. UK
- J.D. NEUHAUS L.P. USA

#### **■ OLD ENOUGH TO STAY YOUNG**

What sounds like a contradiction bears a lot of truth. The best thing about memories is that you can create new ones every day.

In business since 1745 to the present day, with over 260 years of experience, and being family owned and managed for 7 generations we are stronger then ever before. Our philosophy has endured all economic and technological changes, all political and social upheavals. We have always emerged stronger and sure of our success.

Perhaps due to a few simple principles:

We always aim to offer what our customers require to move goods and materials easily and safely. This principle was established when our company was founded in 1745, to supply jacks of the utmost quality and reliability. Today this is still valid from our air hoists to complete explosion-proof crane systems.

Based on compressed air power we develop and offer solutions for almost any material handling challenge.

Planning, design, manufacturing, customer service - an all encompassing quality management system that is not just certified by DNV. Of equal importance is that each employee takes his responsibility with utmost seriousness and lives our quality ideal. 135 people in our main offices in Witten live and work according to this motto. The same applies to the many employees of our subsidiaries in France, Great Britain, Singapore and the USA. Our global operation with exclusive worldwide partners provides representation in over 90 countries. Our export ratio is over 60 %, reaching customers in more then 70 different industries.

JDN hoists can be found on offshore drilling rigs, in a multitude of industries on dry land and deep underground in mining operations.

In short - wherever they are needed.

Furthermore we are always mindful of the origins of our business. The history of lifting equipment from the Stone Age through to the 21<sup>st</sup> century is well documented in our on site museums.

Using air power is safe, and unlike electricity it does not create any sparks. With the exception of the spark that ignites the magic of fascinating technology and our total devotion to quality for the benefit of our customers.







### J.D. NEUHAUS powered by air!



Rätt till konstruktionsändringar förebehålles.