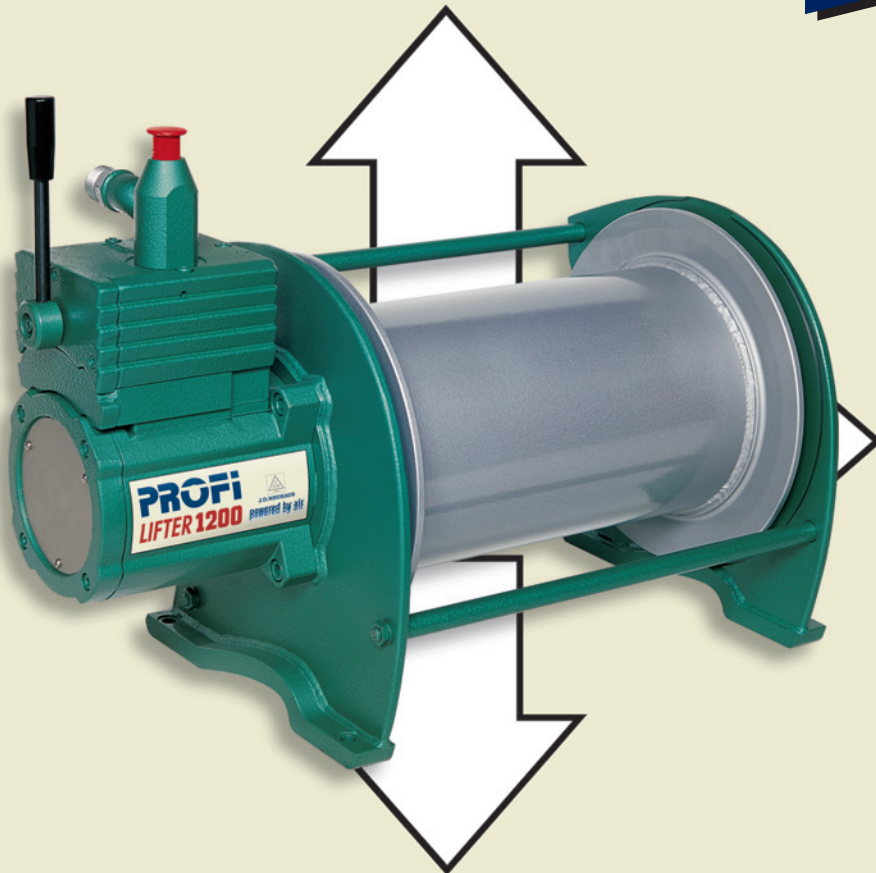


JDN AIR WINCHES PROFI

JDN-FOR ALL YOUR PNEUMATIC HOIST AND WINCH REQUIREMENTS.

NEW



Capacities: 500 kg/1100 lbs up to 3000 kg/6600 lbs
Air pressure: 4 bar (65 PSI) or 6 bar (85 PSI)



Classification according to EC Directive
on Hazardous Locations 94/9/EEC



J.D. NEUHAUS

powered by air
powered by air

JDN AIR WINCHES

ADVANTAGE BY DESIGN

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 800

The new JDN Air Winches utilize a self lubricating vane motor with integrated brake function for fewer components. This technology has been proven in our chain hoist series, and results in reduced maintenance costs, with no additional air lubricant required. The winches with high rope capacities are easy to operate, with a fully variable speed lever control at the winch or via E-Type or FI-Type pendant controls. As an added safety feature the controls are available with a main air emergency shut off valve. Additional options include a fully adjustable drum guard for multiple rope working angles.



PROFI LIFTER 1200

PROFI LIFTER 500/800

JDN Air Winches with capacities of 500 kg and 800 kg. Lightweight aluminium castings make this series mobile, ideal for multiple applications. These winches can also be supplied with an optional travel limit switch.

The Ex-classification is: Ex II 3 GD IIA T4(X).

PROFI LIFTER 1200/2000 AND PROFIL PULLER 1800/3000

JDN Lifting and Pulling Winches in a compact very durable steel structure with capacities of 1200 kg and 2000 kg respectively 1800 kg and 3000 kg. Explosion classification for the standard models: Ex II 2 GD IIA T4(X)/ II 3 GD IIB T4(X), with increased spark protection: Ex II 2 GD IIB T4(X).

Standard features

- Drum integrated exhaust air cooled planetary gear for minimum maintenance and maximum reliability.
- High rope capacity at a 4-layer spooling
- Ideal ratio of rope/drum diameter (factor 21) ensures a long duty cycle of the rope
- Variable speeds, easy to install, low noise level
- Integrated overload protection
- Suited for applications in hazardous areas

In addition to the JDN control options, further options are available for Profi Lifter 1200/2000 and Profi Puller 1800/3000:

- Adjustable drum guard for multiple rope working angles
- Longer drums to accommodate max. rope capacities
- Pressure roller for perfect rope spooling
- Offshore paint kits
- Emergency valve to shut off main air supply
- Limit switch system
- The Puller series features a free-spooling clutch for manual rope spooling while unloaded



**PROFI LIFTER 2000
WITH E-TYPE CONTROL**

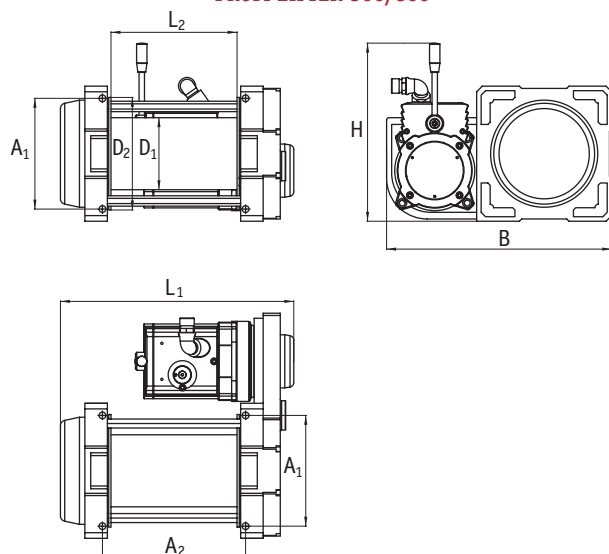


**PROFI PULLER 3000
WITH LONG DRUM AND
FREE-SPOOLING CLUTCH**

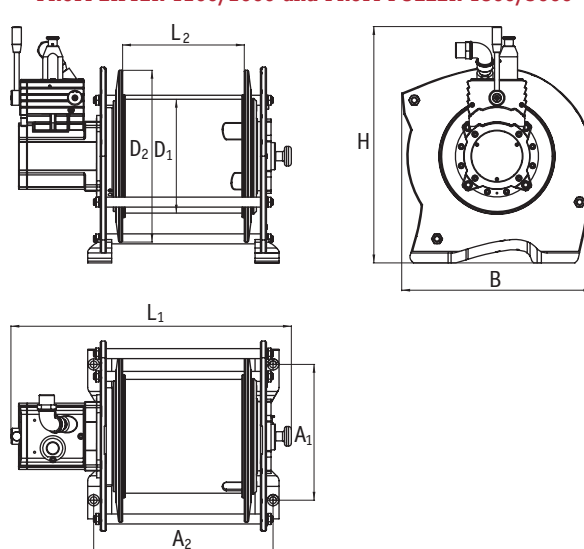
TECHNICAL DATA

JDN AIR WINCH	PROFI LIFTER		PROFI LIFTER		PROFI PULLER		
	500	800	1200	2000	1800	3000	
Air pressure	bar	6*	6*	6*	6*	6*	6*
Max. number of rope layers		4	3	4	4	4	4
Max. motor power	kW	2.2	2.2	2.2	2.6	2.2	2.6
Air connection		G 3/4	G 3/4	G 3/4	G 1	G 3/4	G 1
Hose size (Ø inside/Ø outside)	mm	19/31	19/31	19/31	25/39	19/31	25/39
Air consumption at nominal load, pulling	m ³ /min	-	-	-	-	3.4	4.0
Air consumption at nominal load, lifting	m ³ /min	3.4	3.5	3.7	4.3	-	-
Air consumption without load	m ³ /min	4.3	4.3	4.4	4.8	4.4	4.8
Air consumption at nominal load, lowering	m ³ /min	2.6	3.5	4.8	5.2	-	-
Max. possible rope diameter	mm	7	10	10	13	10	13
Minimum breaking force of rope	kN	24.52	39.24	58.8	98.1	53.0	88.3
Weight (without rope and additional devices) ¹	kg	80	85	138	235	138	235
Control length for pendant control	m	2	2	2	2	2	2
Noise pressure level without load - lifting or pulling ²	dB(A)	85	87	88	87	88	87
Noise pressure level without load - lowering or unwinding ²	dB(A)	80	86	90	88	90	88
Noise pressure level at nominal load - lifting or pulling ²	dB(A)	83	89	86	85	82	80
Noise pressure level at nominal load - lowering ²	dB(A)	89	92	92	88	-	-

PROFI LIFTER 500/800



PROFI LIFTER 1200/2000 and PROFIPULLER 1800/3000



Dimensions in mm	PROFI LIFTER 500/800	PROFI LIFTER/PULLER 1200/1800		PROFI LIFTER/PULLER 2000/3000	
		short drum	long drum	short drum	long drum
B	540	393	393	475	475
H max.	430	540	540	590	590
L1	510	585	785	700	1100
L2	290	216	416	305	705
D1	140/160	240	240	285	285
D2	240	350	350	430	430
A1	246	295	295	340	340
A2	318	312	512	449	849

¹ standard version

² measured at 1 m distance according to DIN 45635 part 20

* data for 4 bar on request

PERFORMANCE DATA

PROFI LIFTER 500 Rope diameter 7 mm		Speeds [m/min]			
		Lifting		Lowering	
		1 st layer	4 th layer	1 st layer	4 th layer
Rope layer					
Load condition [kg]	0	35.0	44.4	13.5	17.1
	250	28.2	33.4	18.3	24.7
	500	21.4	22.4	23.0	32.3
	640	17.5	-	25.6	-

PROFI LIFTER 800 Rope diameter 9 mm		Speeds [m/min]			
		Lifting		Lowering	
		1 st layer	4 th layer	1 st layer	4 th layer
Rope layer					
Load condition [kg]	0	31.7	39.2	12.1	15.0
	400	23.2	26.1	18.0	23.9
	800	14.6	13.1	23.8	32.8
	1050	9.3	-	27.5	-

PROFI LIFTER 1200 Rope diameter 10 mm		Speeds [m/min]			
		Lifting		Lowering	
		1 st layer	4 th layer	1 st layer	4 th layer
Rope layer					
Load condition [kg]	0	18.9	23.5	16.3	20.2
	600	14.5	17.8	20.0	25.0
	1200	10.1	12.1	23.8	29.8
	1500	7.9	-	25.6	-

PROFI LIFTER 2000 Rope diameter 12 mm		Speeds [m/min]			
		Lifting		Lowering	
		1 st layer	4 th layer	1 st layer	4 th layer
Rope layer					
Load condition [kg]	0	12.9	16.3	12.6	15.9
	1000	10.1	11.8	14.9	19.6
	2000	7.2	7.2	17.3	23.4
	2500	5.8	-	17.9	-

PROFI PULLER 1800 Rope diameter 10 mm		Speeds [m/min]			
		Pulling		Unwinding	
		1 st layer	4 th layer	1 st layer	4 th layer
Rope layer					
Load condition [kg]	0	18.9	23.5	16.3	20.2
	600	14.5	16.7	-	-
	1200	10.1	9.9	-	-
	1800	5.6	-	-	-

PROFI PULLER 3000 Rope diameter 12 mm		Speeds [m/min]			
		Pulling		Unwinding	
		1 st layer	4 th layer	1 st layer	4 th layer
Rope layer					
Load condition [kg]	0	12.9	16.3	12.6	15.9
	1000	10.1	11.8	-	-
	2000	7.2	7.2	-	-
	3000	4.4	-	-	-

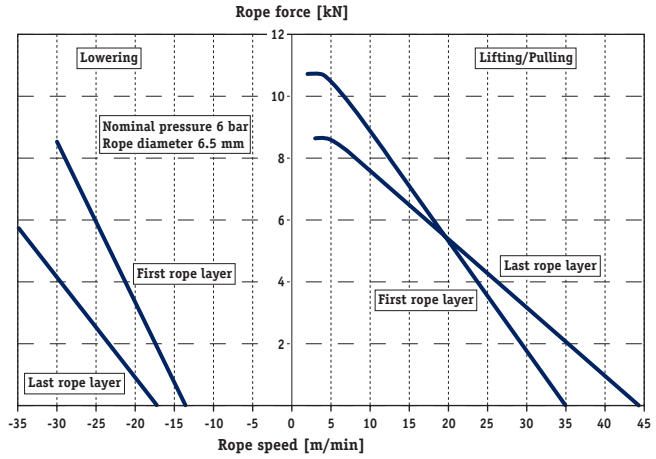


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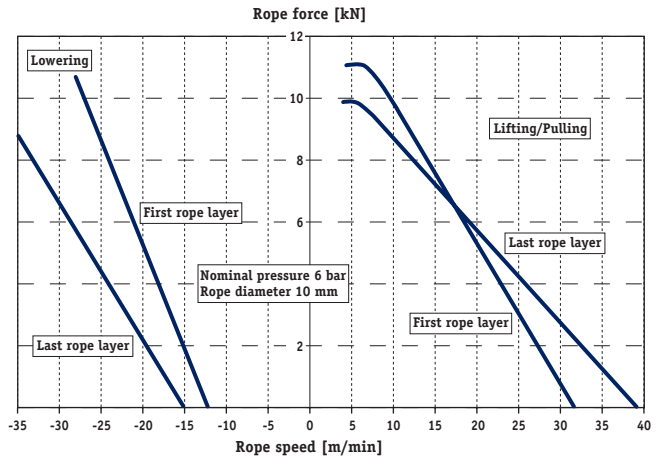
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CHARACTERISTIC LOAD CURVES

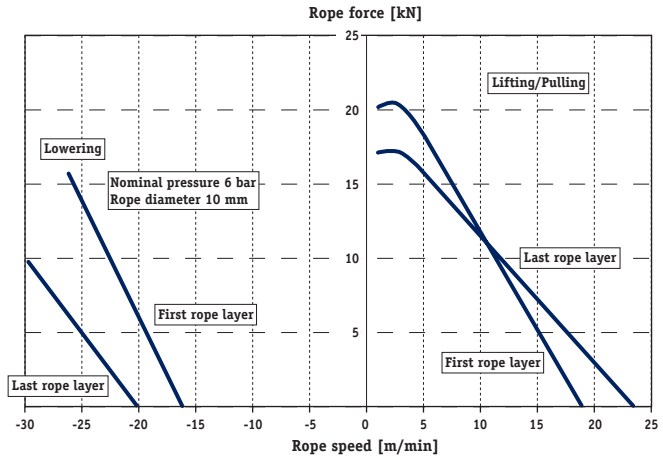
PROFI LIFTER 500



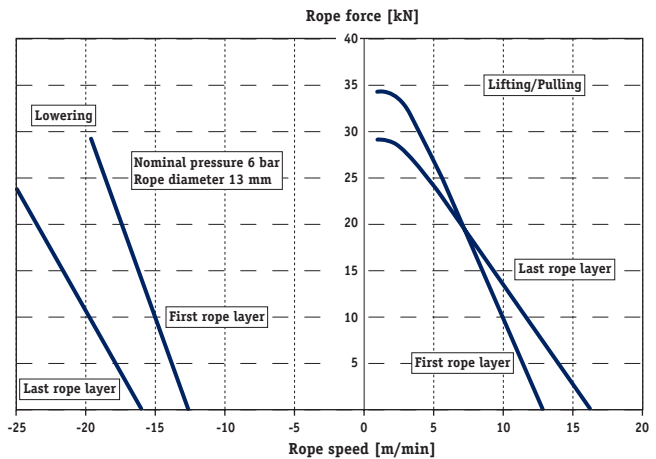
PROFI LIFTER 800



PROFI LIFTER 1200 and PROFI PULLER 1800



PROFI LIFTER 2000 and PROFI PULLER 3000



ROPE CAPACITIES

PROFI LIFTER 500						PROFI LIFTER 800					
Drum length 290 mm/Drum diameter 140 mm						Drum length 290 mm/Drum diameter 160 mm					
Rope layer used	Rope diameter					Rope layer used	Rope diameter				
	mm	5.5	6	6.5	7		mm	7	8	9	10
1st	m	22.7	20.8	19.2	17.7	1st	m	20.2	17.5	15.5	13.9
1st and 2nd	m	48.7	44.8	41.5	38.7	1st and 2nd	m	43.7	38.5	34.4	31.2
1st,2nd and 3rd	m	76.4	70.6	65.7	61.5	1st,2nd and 3rd	m	69.1	61.3	55.2	50.3
1st,2nd,3rd and 4th	m	106.0	98.2	91.7	86.1	-	-	-	-	-	-
PROFI LIFTER 1200 AND PROFIL PULLER 1800											
Short version						Long version					
Rope layer used	Rope diameter					Rope layer used	Rope diameter				
	mm	8	9	10	11		mm	8	9	10	11
1st	m	17.6	15.5	13.7	12.3	1st	m	37.1	32.9	29.5	26.7
1st and 2nd	m	40.0	35.6	32.1	29.2	1st and 2nd	m	80.2	71.6	64.7	59.1
1st,2nd and 3rd	m	63.8	57.1	51.7	47.4	1st,2nd and 3rd	m	126.0	113.0	102.6	94.2
1st,2nd,3rd and 4th	m	88.9	79.9	72.8	66.9	1st,2nd,3rd and 4th	m	174.3	157.0	143.2	131.8
PROFI LIFTER 2000 AND PROFIL PULLER 3000											
Short version						Long version					
Rope layer used	Rope diameter					Rope layer used	Rope diameter				
	mm	10	11	12	13		mm	10	11	12	13
1st	m	24.3	21.9	19.9	18.2	1st	m	61.4	55.7	51.0	47.0
1st and 2nd	m	54.4	49.5	45.5	42.0	1st and 2nd	m	131.0	119.6	110.2	102.1
1st,2nd and 3rd	m	86.4	79.0	72.9	67.7	1st,2nd and 3rd	m	205.1	188.0	173.8	161.7
1st,2nd,3rd and 4th	m	120.3	110.5	102.3	95.4	1st,2nd,3rd and 4th	m	283.6	260.8	241.8	225.7

Note: The calculated possible rope capacities depend upon the rope diameter and rope layers used as listed in the tables. The retention of the required three safety windings was also taken into account.

JDN Air Winches complete the JDN product line. Herewith J.D. Neuhaus offers all the options for innovative material handling solutions.

JDN Air Hoists, Cranes, Trolleys, Monorail Hoists and JDN Air Winches are in use in at least 70 different industries in over 90 countries worldwide. Typical areas of application are the chemical industry, on- and offshore industry, ship building and repair industry, machine and plant construction, and assembly lines.

JDN Air Hoists and Winches are especially suitable for application in areas at risk of explosion as the compressed air power source does not produce any sparks.

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