

## 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:  
⊕ II 2 GD IIA T4(X) / II 3 GD IIB T4(X)  
With increased spark protection:  
⊕ II 2 GD IIB T4(X).
- ➔ Various options.

### TECHNICAL DATA

Type		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 3000
Max. number of rope layers		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 m/min	98.8 30.1	63.7 19.4	98.8 30.1	63.7 19.4
Lifting/pulling speed at 80% of the nominal load <sup>1</sup>	ft/min m/min	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 m/min	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 m <sup>3</sup> /min	– –	– –	229.6 6.5	229.6 6.5
Air consumption at nominal load - lifting	cfm m <sup>3</sup> /min	240.1 6.8	240.1 6.8	– –	– –
Air consumption without load - pulling	cfm m <sup>3</sup> /min	– –	– –	317.8 9.0	300.2 8.5
Air consumption without load - lifting	cfm m <sup>3</sup> /min	317.8 9.0	300.2 8.5	– –	– –
Air consumption without load - lowering	cfm m <sup>3</sup> /min	254.3 7.2	254.3 7.2	– –	– –
Air consumption at nominal load - lowering	cfm m <sup>3</sup> /min	296.6 8.4	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 kN	13219 58.8	22054 98.1	11915 53.0	19851 88.3
Weight (without rope and additional devices) <sup>2</sup>	lbs kg	516 234	851 386	516 234	851 386
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>1</sup> Measured in the first layer with max. rope diameter

<sup>2</sup> Standard version with long drum

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





PROFI PULLER 3000-6 with wire rope\*



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

**PERFORMANCE DATA**

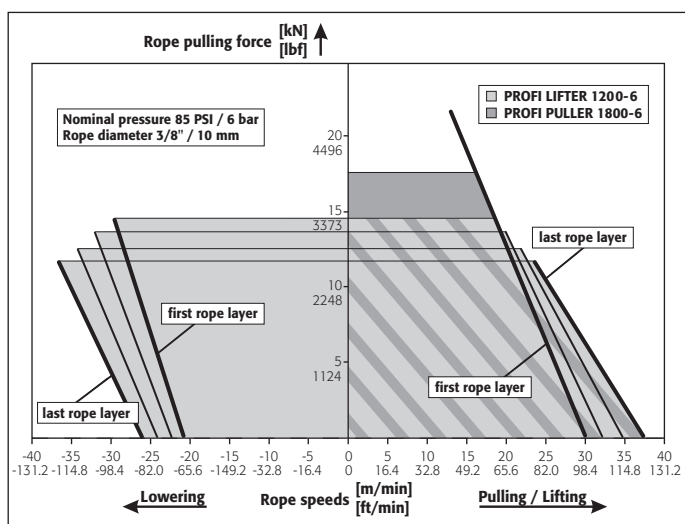
PROFI LIFTER 1200-6					
Rope diameter 3/8" / 10 mm		Speeds [ft/min]/[m/min]			
		Lifting		Lowering	
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer
Load condition [lbs]/[kg]	0	98.8 / 30.1	122.5 / 37.3	68.0 / 20.7	84.3 / 25.7
	1300/600	84.0 / 25.5	99.7 / 30.3	79.6 / 24.3	102.1 / 31.2
	2600/1200	69.1 / 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 PULLER 1800-6					
Rope diameter 3/8" / 10 mm		Speeds [ft/min]/[m/min]			
		Pulling		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 LIFTER 2000-6					
Rope diameter 1/2" / 12 mm		Speeds [ft/min]/[m/min]			
		Lifting		Lowering	
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer
Load 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	-

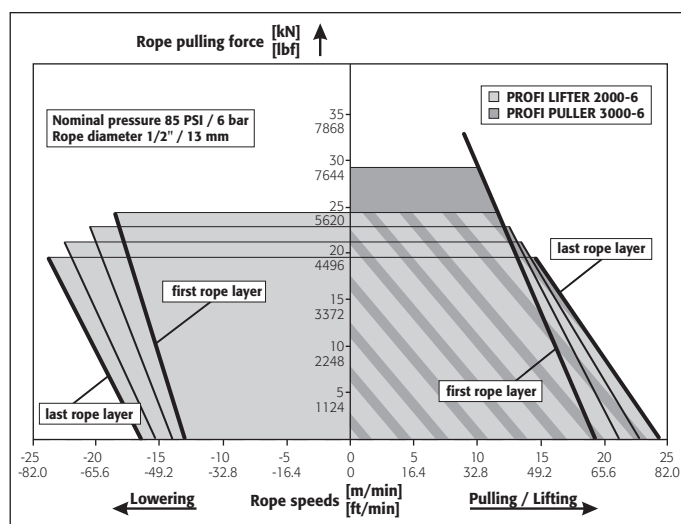
PROFI PULLER 3000-6					
Rope diameter 1/2" / 12 mm		Speeds [ft/min]/[m/min]			
		Pulling		Unwinding	
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer
Load condition [lbs]/[kg]	0	63.6 / 19.4	80.3 / 25.4	42.5 / 12.9	53.6 / 16.3
	2200/1000	53.7 / 16.4	64.5 / 19.6	-	-
	4400/2000	43.8 / 13.3	48.7 / 14.8	-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

**CHARACTERISTIC LOAD CURVES**  
PROFI LIFTER 1200-6 / PROFI PULLER 1800-6



\*Option \*\*Standard in CE version

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



## PROFI LIFTER 1200-6 / 2000-6

## PROFI PULLER 1800-6 / 3000-6

### ROPE CAPACITIES

PROFI LIFTER 1200-6 and PROFIL PULLER 1800-6

Max rope capacity per layer	Rope diameter			
	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 PROFIL PULLER 3000-6

Max rope capacity per layer	Rope diameter			
	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]

Type	PROFI LIFTER 1200-6 PROFI PULLER 1800-6	PROFI LIFTER 2000-6 PROFI PULLER 3000-6
B <sub>1</sub>	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
D <sub>1</sub>	9.5 / 240	11.2 / 285
D <sub>2</sub>	13.8 / 350	16.9 / 430
A <sub>1</sub>	11.6 / 295	13.4 / 340
A <sub>2</sub>	20.2 / 512	33.4 / 849

