

JDN AIR WINCHES PROFI

PROFI LIFTER 2600-6 / 4400-6

PROFI PULLER 4000-6 / 6600-6

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

PROFI LIFTER 2600-6 / 4400-6:

JDN Lifting Winches in a compact very durable steel structure with capacities of **2600 lbs** and **4400 lbs**.

Explosion classification for the standard models:

⊕ II 2 GD IIA T4(X) / II 3 GD II B T4(X),

with increased spark protection:

⊕ II 2 GD IIB T4(X).

Winches with hydraulic drive on request.

PROFI PULLER 4000-6 / 6600-6:

JDN Pulling Winches in a compact very durable steel structure with capacities of **4000 lbs** and **6600 lbs**.

Explosion classification for the standard models:

⊕ II 2 GD IIA T4(X) / II 3 GD II B T4(X),

with increased spark protection:

⊕ II 2 GD IIB T4(X).

Winches with hydraulic drive on request.

THE ADVANTAGES AT A GLANCE

- ⇒ Drum integrated exhaust air cooled planetary gear for minimum maintenance and maximum reliability at a duty cycle of 100 %
- ⇒ High rope capacity at a 4-layer spooling
- ⇒ Ideal ratio of drum/rope diameter (D/d=21) ensures a long duty cycle of the rope
- ⇒ High, variable speeds, easy to install, low noise level
- ⇒ Integrated overload protection
- ⇒ Ideal for applications in hazardous areas
- ⇒ Various options

Authorized Sales & Service

J. HERBERT CORPORATION

Call 1-800-255-0588

407-846-0588 Fax: 846-1066

info@jherbertcorp.com

Visit us online:

www.jherbertcorp.com

TECHNICAL DATA

Type		PROFI LIFTER 2600-6	PROFI LIFTER 4400-6	PROFI PULLER 4000-6	PROFI PULLER 6600-6
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	2600	4400	–	–
Pulling capacity (nominal load for pulling winches) in the first layer	lbs	–	–	4000	6600
Max. numbers of rope layers		4	4	4	4
Max. motor power	kW	5.5	5.5	6	6
Lifting respectively pulling speed without load ²	ft/min	98.8	63.7	98.8	63.7
Lifting respectively pulling speed at 80% of the nominal load ²	ft/min	74.8	47.6	62.7	39.7
Lifting respectively pulling speed at nominal load ²	ft/min	68.6	43.6	53.5	33.8
Lowering respectively unwinding speed without load ²	ft/min	67.9	42.3	67.9	42.3
Lowering speed at nominal load ²	ft/min	91.5	58.1	–	–
Air connection		G1	G1	G1	G1
Air consumption at nominal load - pulling	cfm	–	–	229.6	229.6
Air consumption at nominal load - lifting	cfm	240.1	240.1	–	–
Air consumption without load - pulling	cfm	–	–	317.8	300.2
Air consumption without load - lifting	cfm	317.8	300.2	–	–
Air consumption without load - lowering	cfm	254.3	254.3	–	–
Air consumption at nominal load - lowering	cfm	296.6	257.8	–	–
Hose size (ø inside / ø outside)	inch.	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5
Rope drum diameter	inch.	9.5	11.2	9.5	11.2
Max. possible rope diameter	inch.	7 / 16	1 / 2	7 / 16	1 / 2
Minimum breaking force of rope	lbf	13219	22054	11915	19851
Weight (without rope and additional devices ³)	lbs	516	851	516	851
Control length for pendant control	ft	6.6	6.6	6.6	6.6
Noise pressure level without load - lifting or pulling ¹	dB(A)	85	86	85	85
Noise pressure level without load - lowering or unwinding ¹	dB(A)	82	84	82	84
Noise pressure level at nominal load - lifting or pulling ¹	dB(A)	83	83	81	81
Noise pressure level at nominal load - lowering ¹	dB(A)	86	95	–	–

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

² Measured in the first layer with max. rope diameter (further data see section curves)

³ Standard version with long drum





PROFI PULLER 6600-6
with wire rope*



PROFI PULLER 6600-6
with wire rope* and drum guard**

PERFORMANCE DATA

PROFI LIFTER 2600-6 (M2)

Rope diameter 3/8"		Speeds [ft/min]			
		Lifting		Lowering	
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer
Load condition [lbs]	0	98.8	122.5	68	84.3
	1300	84	99.7	79.6	102.1
	2600	69.1	76.9	91.2	120
	3300	61.1	-	97.4	-

PROFI PULLER 4400-6 (M2)

Rope diameter 1/2"		Speeds [ft/min]			
		Lifting		Lowering	
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer
Load condition [lbs]	0	63.6	80.3	42.5	53.6
	2200	53.7	64.5	50.2	65.9
	4400	43.8	48.7	57.9	78.1
	5500	38.8	-	61.8	-

PROFI LIFTER 4000-6 (M2)

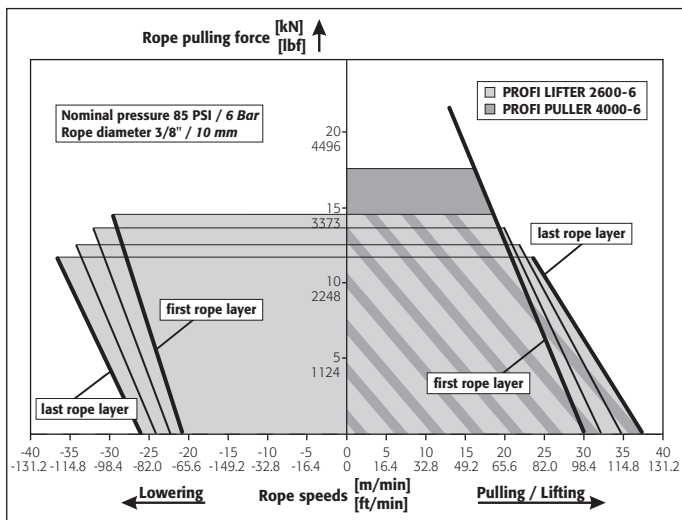
Rope diameter 3/8"		Speeds [ft/min]			
		Pulling		Unwinding	
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer
Load condition [lbs]	0	98.8	122.53	68	84.3
	1300	84	99.7	-	-
	2600	69.1	76.9	-	-
	4000	53.2	-	-	-

PROFI PULLER 6600-6 (M2)

Rope diameter 1/2"		Speeds [ft/min]			
		Pulling		Unwinding	
Rope Layer		1. Layer	4. Layer	1. Layer	4. Layer
Load condition [lbs]	0	63.6	80.3	42.5	53.6
	2200	53.7	64.5	-	-
	4400	43.8	48.7	-	-
	6600	33.9	-	-	-

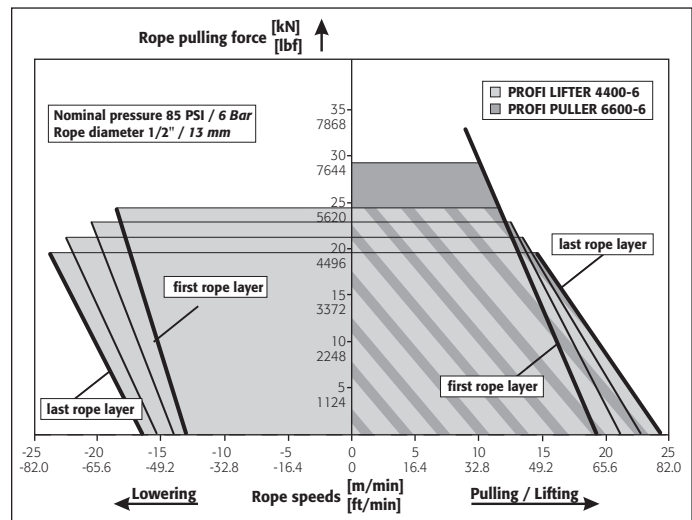
CHARACTERISTIC LOAD CURVES

PROFI LIFTER 2600-6 and PROFIL PULLER 4000-6



*Option **Standard in CE version

PROFI LIFTER 4400-6 and PROFIL PULLER 6600-6



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ROPE CAPACITIES

PROFI LIFTER 2600-6 and PROFIL PULLER 4000-6							
Full used rope layer	Rope diameter						
	inch.	5/16		3/8		7/16	
1st	ft	37.1	121.7	30.7	100.8	26.7	87.5
1st and 2nd	ft	80.2	263.2	67.3	220.9	59.1	193.9
1st, 2nd and 3rd	ft	126	413.3	106.5	349.5	94.2	308.9
1st, 2nd, 3rd and 4th	ft	174.3	571.9	148.3	486.7	131.8	432.5

Recommended rope diameter: 13/8"

PROFI LIFTER 4400-6 and PROFIL PULLER 6600-6				
Full used rope layer	Rope diameter			
	inch.	3/8	7/16	1/2
1st	ft	209.8	179.5	156.7
1st and 2nd	ft	447	385.9	340.1
1st, 2nd and 3rd	ft	698.7	606.8	537.9
1st, 2nd, 3rd and 4th	ft	964.9	842.2	750.3

Recommended rope diameter: 1/2"

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

DIMENSIONS

inch.	PROFI LIFTER 2600-6 PROFI PULLER 4000-6	PROFI LIFTER 4400-6 PROFI PULLER 6600-6
B ₁	15.5	18.7
H ₁ max.	29.2	31.2
L ₁ max.	39.4	51.8
L ₂	16.4	27.8
D ₁	9.5	11.2
D ₂	13.8	16.9
A ₁	11.6	13.4
A ₂	20.2	33.4

