

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 1t.

JDN Air Hoist PROFI	Type	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			3.2	6.3	10-16		20
Carrying capacity of hoist with trolley	mt	0.25	0.5	1	2	3.2	6.3	10	16	20
Weight of Manual Trolley (LN)	lbs	17		23.1	39.6	57.2	257.4	264		–
	kg	7.7		10.5	18	26	117	120		–
Weight of Reel Chain Trolley (LH)	lbs		57.2			81.4	279.4	418.9		573.2
	kg		26			37	127	190		260
Weight of Motor Trolley (LM)	lbs		70.4			72.6	272.8	418.9		573.2
	kg		32			33	124	190		260
Hoist weight, standard lift	lbs	59.5	59.5	61.7	75	189.2	242	343.2	528	628.3
	kg	27	27	28	34	86	110	156	240	285
Total weight with standard lift	lbs	76.5	76.5	84.9	114.6	246.4	499.2	607.2	792	–
Manual Trolley	kg	34.7	34.7	38.5	52	112	227	276	360	–
Total weight with standard lift	lbs	130.1	130.1	132.3	145.5	270.6	521.4	762.8	948	1201.5
Reel Chain Trolley	kg	59	59	60	66	123	237	346	430	545
Total weight with standard lift	lbs	116.8	116.8	119.1	132.3	261.8	514.8	762.8	948	1201.5
Motor Trolley	kg	53	53	54	60	119	234	346	430	545
Weight of 1 m (3.28 ft) chain	lbs			0.7		2.6			3.9	
	kg			1		3.8			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)	cfm m ³ /min			21.3 0.6				46.1 1.3		
Air consumption hoist (at full load)	cfm m ³ /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			4.6 1.4				3.6 1.1	3.3 1.0	
Travelling speed Motor Trolley (at full load)	ft/min m/min			29.5* / 14 9* / 14				16.4* / 12 5* / 12		
Hose connection Motor Trolley			G 1/2					G 3/4		
Minimum radius Manual Trolley	ft m	3 ¹ 0.9 ¹	3.3 ¹ 1.0 ¹	3.9 ¹ 1.2 ¹	1.6 ² 0.5 ²			3.3 ² 1 ²		–
Minimum radius Reel Chain Trolley and Motor Trolley	ft m		1.6 ² 0.5 ²					3.3 ² 1 ²	4.9 ² 1.5 ²	
Max. bottom flange thickness t Manual Trolley	inch. mm	1.2 30	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					2.6 65		–
Max. bottom flange width b Manual Trolley	inch. mm	8.7 220		12 305				12.2 310		–
Max. bottom flange width b Reel Chain and Motor Trolley	inch. mm		11 280					12.2 310		–
Min. bottom flange width b Manual Trolley	inch. mm	2 50	2.3 58	2.6 66	2.1 54			4.9 125		–
Min. bottom flange width b Reel Chain and Motor Trolley	inch. mm		2 50		2.1 54			4.9 125		5.8 148
Noise level at Motor Trolley ³	dB(A)					80				

* 1st speed of F control with two speeds

¹ Measured at the middle of the beam

² Measured at the inner edge of the beam

³ 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

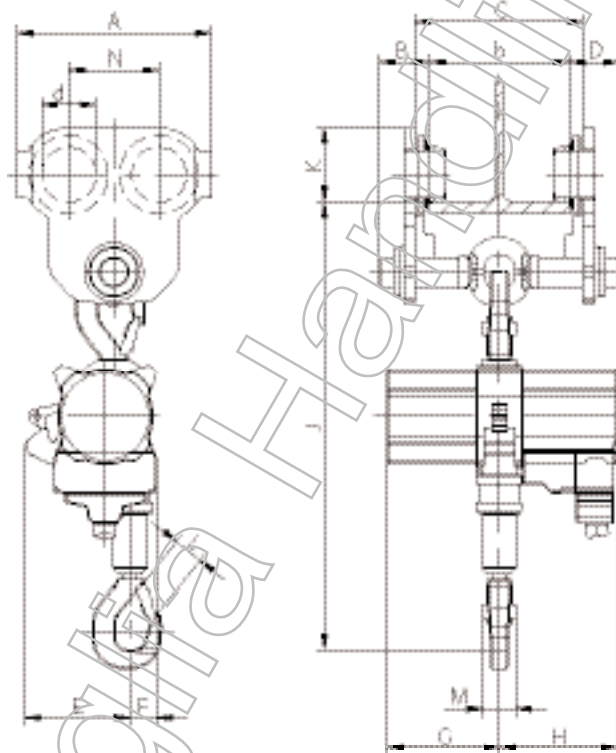


PROFI in Manual Trolley (LN)

DIMENSIONS

JDN Air Hoist PROFI		025 TI	05 TI	1 TI	2 TI	3 TI	6 TI	10 TI	16 TI
With Trolley		LN 0.5 t		LN 1 t	LN 2 t	LN 3.2 t	LN 6.3 t	LN 10-16 t	
A	inch. mm	10.2 260			12.2 310	11.5 292	19.7 500	19.3 490	
B max.	inch. mm	4.7 119		4.8 122	6.4 162	4.5 113	5.6 141	5.8 146	
C	inch. mm	b + 1.1 b + 28			b + 1 b + 26	b + 2.4 b + 60		b + 2.8 b + 70	
d	inch. mm	2.2 55		2.7 68	3.2 80	3.3 84		6.5 165	
D max.	inch. mm	4.7 119			4.8 122	4.5 113	5.6 141	5.8 146	
E	inch. mm			5.4 137		7.4 187	6.1 154	7.8 197	7.8 199
F	inch. mm	1.5 39			1.8 46		3.1 79	4.3 109	
G	inch. mm			5.7 145		9.2 233		12.1 308	15 382
H	inch. mm			6 152		9.8 250		10.5 267	12.2 310
J* (mounted)	inch. mm	—	—	—	—	25 635	30 763	37.2 944	39.3 997
J* (suspended)	inch. mm	20.9 530			23.5 597	31.4 798	36.2 919	44.5 1131	47.8 1215
K	inch. mm	2.7 67.5		3.2 81.5	3.7 94	4.2 107		7.8 198	
L	inch. mm			1.1 28		1.2 30	1.6 40	1.7 44	2.1 53
M	inch. mm			1.7 42			2 51	2.6 66	3.2 82
N	inch. mm	5.1 130			5.9 150	5.4 136		9.3 236	

* Chain containers increase the hoist headroom



PROFI 1 TI in Manual Trolley



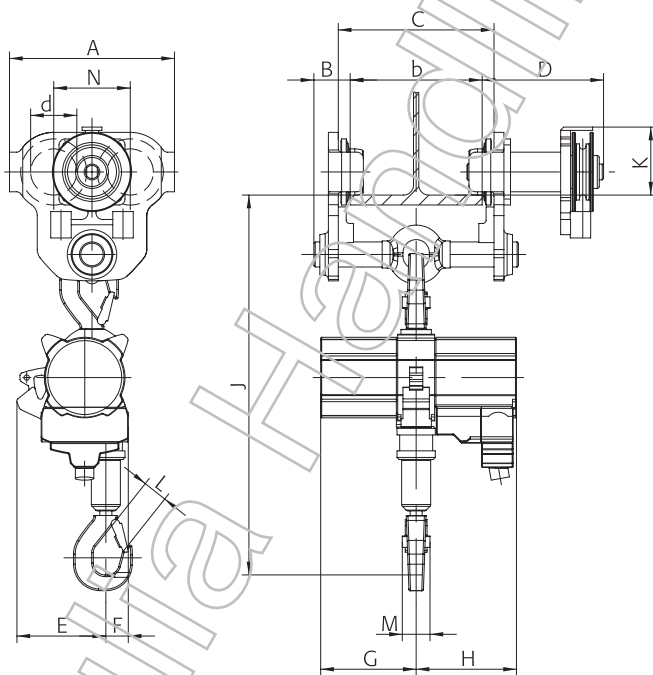
J.D. NEUHAUS
powered by air!

PROFI in Reel Chain Trolley (LH)

DIMENSIONS

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 10-16 t		LH 20 t
A	inch. mm	9.8 250				11.5 292	19.7 500	19.3 490		23.6 600
B max.	inch. mm	5.1 130				4.5 113	5.6 141	5.8 146		6.1 155
C	inch. mm	b + 1.4 b + 36				b + 2.4 b + 60	b + 2.8 b + 70		b + 2.7 b + 68	
d	inch. mm	2.8 70				3.3 84	6.5 165		7.3 185	
D	inch. mm	11.2 284				11.6 294	12.1 307	12.3 312		12.6 320
E	inch. mm	5.4 137				7.4 187	6.1 154	7.8 197	7.8 199	7.1 180
F	inch. mm	1.5 39				1.8 46	3.1 79	4.3 109		5.3 135
G	inch. mm	5.7 145				9.2 233		12.1 308	15 382	15 382
H	inch. mm	6 152				9.8 250		10.5 267	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				24.1 611	31.4 798	36.2 919	44.5 1131	47.9 1216
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 75
M	inch. mm	1.7 42				2 51		2.5 66	3.2 82	3.4 86
N	inch. mm	4.6 116				5.4 136	9.3 236		10.8 274	

* Chain containers increase the hoist headroom



PROFI 1 TI in Reel Chain Trolley

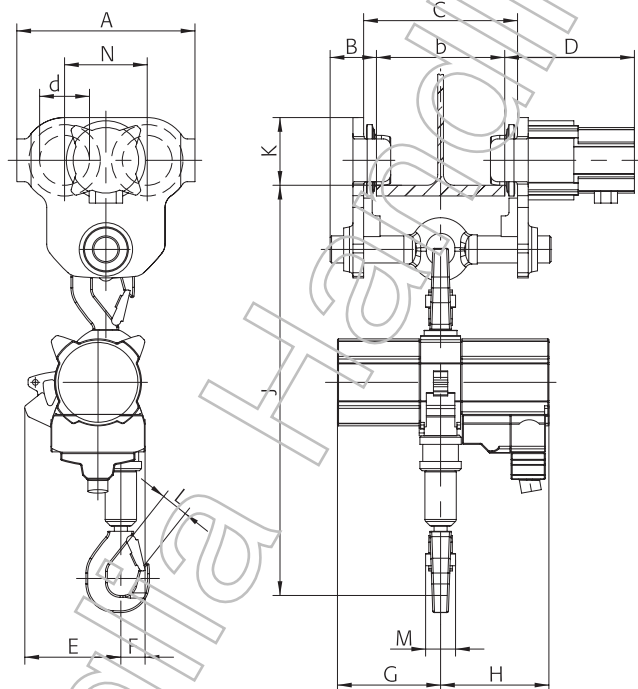


PROFI in Motor Trolley (LM)

DIMENSIONS

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 10-16 t		LM 20 t
A	inch. mm		9.8 250			11.5 292	19.7 500	19.3 490		23.6 600
B max.	inch. mm		5.1 130			4.5 113	5.6 141	5.8 146		6.1 155
C	inch. mm		b + 1.4 b + 36			b + 2.4 b + 60		b + 2.8 b + 70		b + 2.7 b + 68
d	inch. mm		2.8 70			3.3 84		6.5 165		7.3 185
D	inch. mm		7.2 183			11.7 297	8.1 205	12.5 318		12.9 328
E	inch. mm		5.4 137			7.4 187	6.1 154	7.8 197	7.8 199	7.1 180
F	inch. mm		1.5 39		1.8 46		3.1 79	4.3 109		5.3 135
G	inch. mm		5.7 145			9.2 233		12.1 308	15 382	15 382
H	inch. mm		6 152			9.8 250		10.5 267	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		24.1 611	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 30	1.6 40	1.7 42	2.1 55	2.9 75
M	inch. mm			1.7 42			2 51	2.6 66	3.2 82	3.4 86
N	inch. mm		4.6 116			5.4 136		9.3 236		10.8 274

* Chain containers increase the hoist headroom



PROFI 2TI in Motor Trolley

