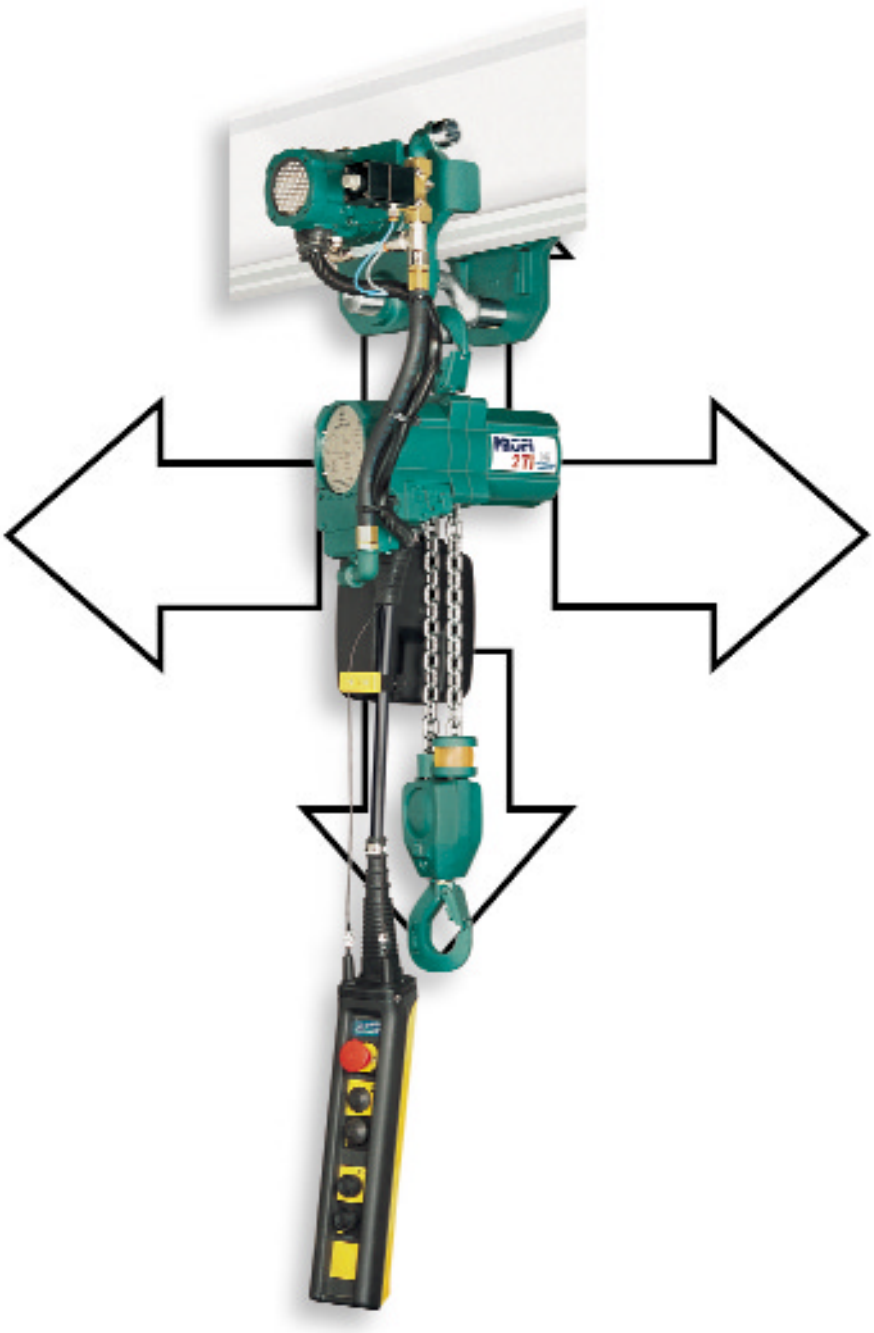
JDN TROLLEYS

FOR APPLICATION IN HAZARDOUS AREAS AS THE DRIVING MEDIUM AIR DOES NOT PRODUCE ANY SPARKS.



J. D. NEUHAUS
powered by air!

JDN AIR HOIST
IN MOTOR TROLLEY

JDN AIR HOIST
IN REEL CHAIN TROLLEY

JDN AIR HOIST
IN MANUAL TROLLEY

JDN TROLLEYS ARE AVAILABLE IN DIFFERENT VERSIONS:

- Motor Trolley (LM) with air powered motor
- Reel Chain Trolley (LH)
  for traversing the trolley by unwinding the endless reel chain
- Manual Trolley (LN)
  for pushing or pulling the trolley by hand

According to capacity or application JDN Air Hoists can be mounted into trolleys or be suspended by their hooks into the trolley load eye. “Mounted” means that the hoist is rigidly connected with its load eye to the suspension bolt of the trolley. In case the hoist is suspended by its upper hook to the suspension bolt of the trolley it can be easily detached from the trolley and used for operating in other places. This is the standard version up to 2 t with twist-secured hoist. JDN Trolleys are suitable for I-beams according to DIN 1025 and beams of similar type. They are designed in accordance with DIN 15018 and correspond to stress group B4, lifting class H2.

EXPLOSION-PROOFNESS CLASSIFICATION AND MARKING

- **Standard versions**
  Ⓔx II 2 GD IIA T4(X)/II 3 GD IIB T4(X)
- **With increased spark protection**
  (bottom block and load hook are copper plated by galvanisation; brass safety catch):
  Ⓔx II 2 GD IIB T4(X)
- **With increased spark protection for explosion group IIC**
  (additionally the running wheels of trolleys and travelling gears are made of bronze):
  Ⓔx II 2 GD IIC T4(X)

ADVANTAGES

JDN trolleys are:

- fitted with anti-climb and anti-drop-devices
- able to negotiate curves, minimum radius (see Technical Data)
- easy to install
- robust
- of low maintenance (all bearings are sealed)

ENERGY FEEDING SYSTEMS

Different systems are available for supplying the energy:

- energy chain
- C-rail
- square rail
- spiral hose
- hose trolleys

SPECIAL DESIGNS

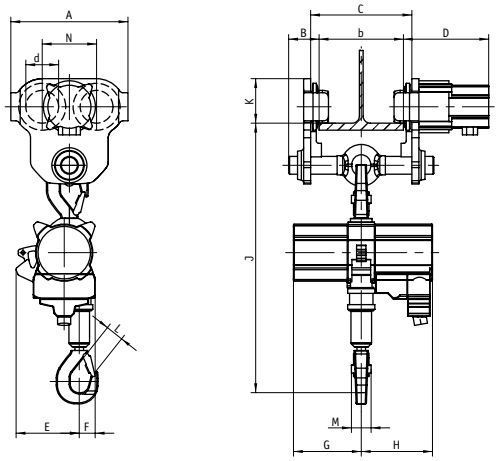
- Low Headroom Trolleys

  Where only extremely low headroom is available we recommend the JDN Low Headroom Trolleys up to 2 t, for heavier loads the JDN Ultra-Low Monorail Hoists.
- rack and pinion drive for form fitting power transmission
- locking device for securing the trolley in a certain position
- increased spark proofness in case of especially stringent explosion protection requirements
- two travelling speeds
- pneumatic stop switches for limiting the travelling movement

DIMENSIONS

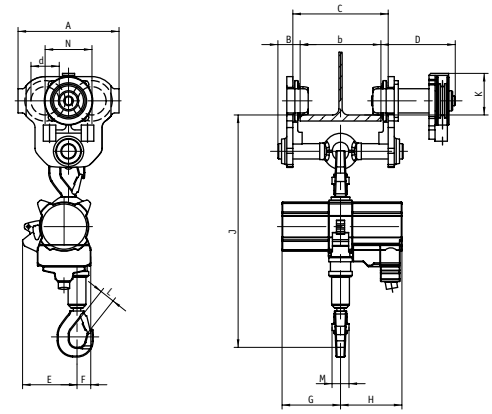
MOTOR TROLLEYS (LM)

JDN Air Hoist PROFI	Type	025 TI	05 TI	1 TI	2 TI	3 TI	6 TI	10 TI	16 TI
in Trolley		LM 2 t				LM 3.2t	LM 6.3 t	LM 10-16 t	
A	mm	250				292	500	490	
B max.		130				113	141	146	
C		b + 36				b + 60	b + 70		
d		70				84	165		
D max.		185				191	205	312	
E		137				187	154	197	199
F		39			46		79	109	
G		145				233		308	382
H		152				250		267	310
J* mounted		-	-	-	-	635	763	944	997
J* suspended		563			611	798	919	1131	1216
K		95				107	215		
L		28				30	40	42	55
M		42					51	66	82
N		116				136	236		



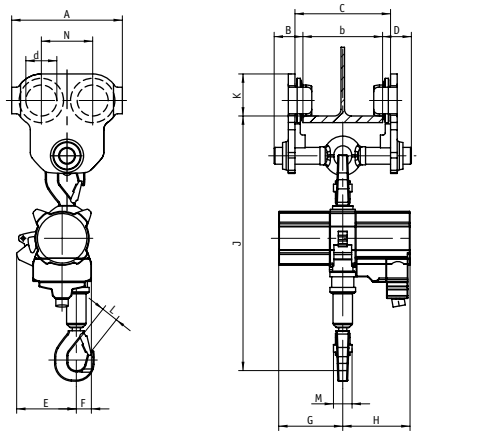
REEL CHAIN TROLLEYS (LH)

JDN Air Hoist PROFI	Type	025 TI	05 TI	1 TI	2 TI	3 TI	6 TI	10 TI	16 TI
in Trolley		LH 2 t				LH 3.2t	LH 6.3 t	LH 10-16 t	
A	mm	250				292	500	490	
B max.		130				113	141	146	
C		b+ 36				b + 60	b + 70		
d		70				84	165		
D max.		183				297	307	312	
E		137				187	154	197	199
F		39			46		79	109	
G		145				233		308	382
H		152				250		267	310
J* mounted		-	-	-	-	635	763	944	997
J* suspended		563			611	798	919	1131	1216
K		103				110	198		
L		28				30	40	44	53
M		42					51	66	82
N		116				136	236		



MANUAL TROLLEYS (LN)

JDN Air Hoist PROFI	Type	025 TI	05 TI	1 TI	2 TI	3 TI	6 TI	10 TI	16 TI
in Trolley		LN 0.5t		LN 1t	LN 2t	LN 3.2t	LN 6.3 t	LN 10-16 t	
A	mm	260			310	292	500	490	
B max.		119		122	162	113	141	146	
C		b + 28			b+ 26	b + 60	b + 70		
d		55		68	80	84	165		
D max.		126			166	113	141	146	
E		137				187	154	197	199
F		39			46		79	109	
G		145				233		308	382
H		152				250		267	310
J* mounted		-	-	-	-	635	763	944	997
J* suspended		530			597	798	919	1131	1215
K		67,5		81,5	94	107	198		
L		28				30	40	44	53
M		42					51	66	82
N		130			150	136	236		



* without chain box

TECHNICAL DATA FOR JDN TROLLEYS

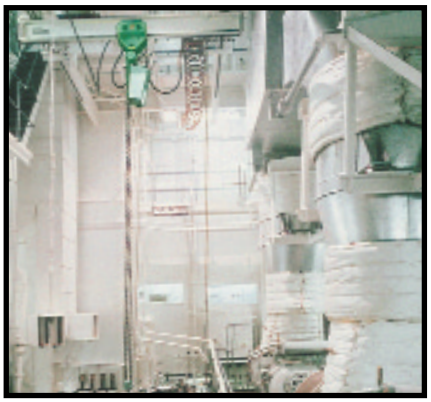
THE DENOMINATION OF THE TROLLEY IS COMPOSED OF THE SHORT DENOMINATION (LN, LH, LM) AND THE LOAD CAPACITY ACC. TO TABLE, AS FOR EXAMPLE LN 1 T.

JDN Air Hoist PROFI	Type	025 TI	05 TI	1 TI	2 TI	3 TI	6 TI	10 TI	16 TI
Carrying capacity of trolley LN	t	0.5		1	2	3.2	6.3	10-16	
Carrying capacity of trolley LH and LM	t	2				3.2	6.3	10-16	
Carrying capacity of hoist with trolley	t	0.25	0.5	1	2	3.2	6.3	10	16
Weight of Manual Trolley	kg	7.7		10.5	18	26	117	120	
Weight of Reel Chain Trolley	kg	32				37	127	130	
Weight of Motor Trolley	kg	26				33	124	130	
Weight of hoist with standard lift	kg	27	27	28	34	86	110	156	240
Total weight with standard lift of Manual Trolley	kg	34.7	34.7	38.5	52	112	227	276	360
Total weight with standard lift of Reel Chain Trolley	kg	59	59	60	66	123	237	286	370
Total weight with standard lift of Motor Trolley	kg	53	53	54	60	119	234	286	370
Weight of 1 m chain	kg	1				3.8		5.8	
Chain acc. DIN 5684-8	mm	7 x 21				13 x 36		16 x 45	
Number of falls		1			2	1	2	2	3
Air pressure Motor Trolley	bar	6							
Air consumption Motor Trolley at nominal load	m^3/min	0.4						1.3	
Air consumption of hoist at nominal load	m^3/min	1.5				5.5			
Motor raiting Motor Trolley	kW	0.2						0.7	
Motor raiting hoist	kW	1				3.5			
Distance travelled with 10 m of hand chain reeled off	m	0.75						1.5	
Travelling speed of LM at nominal load	m/min	9*/14						5*/12	
Hose connection Motor Trolley		G 1/2				G 3/4			
Minimum radius Manual Trolley	m	0.9[1]		1.0[1]	1.2[1]	0.5[2]	1.0[2]		
Minimum radius Reel Chain Trolley and Motor Trolley	m	0.5[2]					1.0[2]		
Max. bottom flange thickness t LN	mm	34		30		40	65		
Max. bottom flange thickness t LH and LM	mm	40					65		
Max. bottom flange width b LN	mm	220			305	310			
Max. bottom flange width b LH and LM	mm	300				310			
Min. bottom flange width b LN	mm	50		58	66	54	125		
Min. bottom flange width b LH and LM	mm	50				54	125		
Sound level 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

JDN APPLICATIONS

PAPER INDUSTRY



ENGINE ROOM OF A SHIP

ONSHORE

TANK CLEANING PLANT

AND HERE ARE SOME OF THE MANY AREAS OF APPLICATION:

Automotive industry, chemical industry, electro plating, food industry, foundries, lacquer and varnish factories, material handling plants, mechanical engineering, oil storage stations, on- and offshore, paint shops, paper industry, power plants, printing industry, refineries, ships, shipyards.

Do you have a material handling problem?
Then challenge us! We will be pleased to help you.

T 232 GB · Issue: April 2005 · Alterations reserved · With the issue of this edition all previous versions are null and void · 420051

J.D. Neuhaus GmbH & Co. KG_D-58449 Witten-Heven
Phone: +49 (0) 23 02-2 08-0_Fax: +49 (0) 23 02-2 08-286
web site: www.jdn.de_e-mail: info@jdn.de

J.D. NEUHAUS
powered by air!