

# C RAIL SYSTEMS AND LIGHT CRANE SYSTEMS WITH JDN AIR HOISTS MINI LIFTING CAPACITIES UP TO 980 KG

C rail systems/suspension tracks from JDN are the ideal solution for flexible material transport.

## C rail systems/suspension tracks with JDN air hoists mini

### Features

- suitable for use in explosion and dust-proof areas up to zone 2/22
- smooth movement of loads
- modular design consisting of high-quality standard elements
- precisely fitting connections
- simple assembly
- additionally extendable
- high durability
- adapted to your individual requirements

## Light crane systems with JDN air hoists mini

### Features

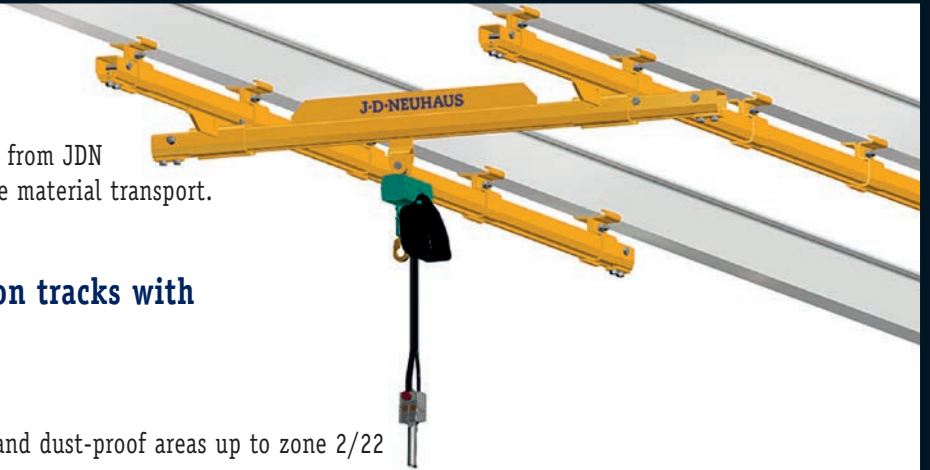
- suitable for use in explosion and dust-proof areas up to zone 2/22
- smooth movement of the crane bridge
- four standard profile sizes for optimal adaption to the load and operating conditions
- individual complete solution in modular design
- optimal space utilisation at low headrooms
- light and easy to assemble
- comprehensive expansion and application options

### General Information

Air feeding via hose trolleys in the crane rail.

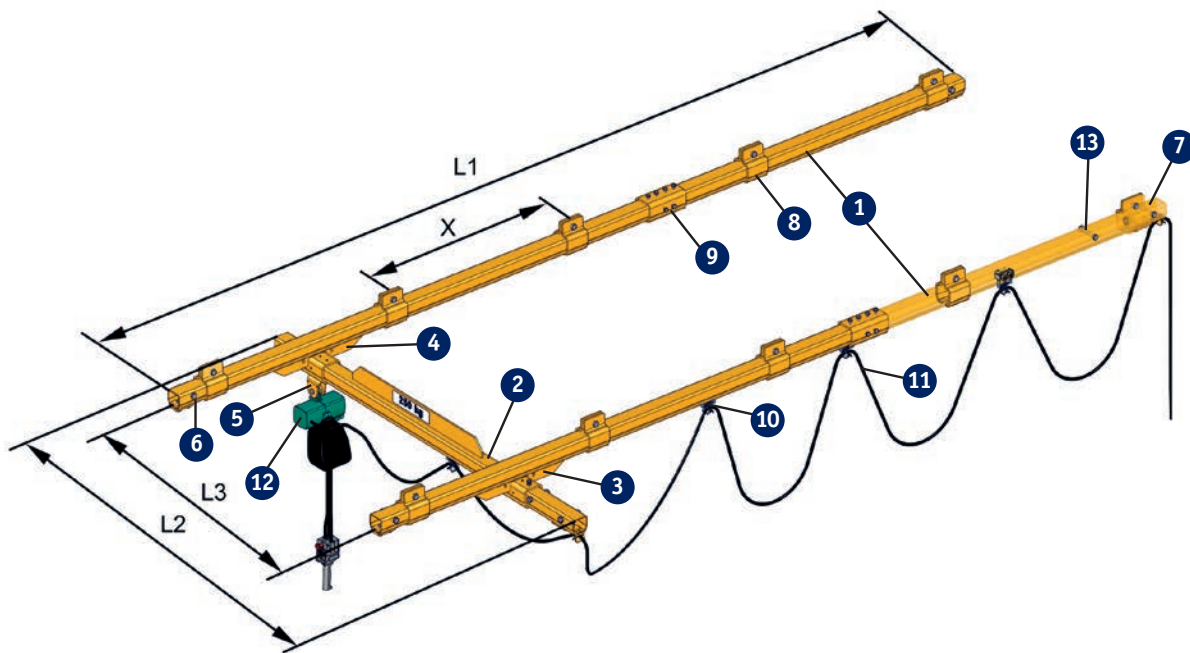
Concerning the surface protection of the crane rails and trolleys you can choose between

- coated
- zinc-plated
- chromated or
- stainless steel for capacities of 100 kg and 200 kg



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## Overview



- |     |   |    |                |
|-----|---|----|----------------|
| 1   | crane rail                              | 8  | fixation       |
| 2   | reinforced crane bridge                 | 9  | splice joint   |
| 3   | end carriage - fixed bearing            | 10 | hose trolley   |
| 4   | end carriage - floating bearing         | 11 | air supply     |
| 5   | trolley                                 | 12 | air hoist mini |
| 6 7 | end stop and safety device for end stop | 13 | track limiter  |

Crane track length	L1	selectable
Bridge length	L2	standard length max. 6000 mm (Larger lengths upon request)
Track width	L3	dimension depending on the bridge length
Suspension distance	X	1000 mm at max. load capacity

Carrying capacity	kg	125 <sup>1</sup>	250 <sup>1</sup>	500	980
Max. track width L3	mm	4500	5000	5000	5000
Air hoist		mini 125	mini 250	mini 500	mini 1000

<sup>1</sup>When using stainless steel profiles the carrying capacity reduces to 100 kg (mini 125) and to 200 kg (mini 250).

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## JDN Air Hoists mini

### The advantages at a glance

- Price competitive alternative when compared to other types of powered hoists
- Suitable for lube-free operation
- Suitable for application in hazardous areas
- Minimum components for ease of maintenance
- Wear resistant motor braking system
- Lightweight for easy handling
- Also suitable for horizontal pulling
- Extremely sensitive lever control with emergency shut-off valve, max. control length 6 m.
- Available lifting heights: up to 8 m
- With chain box as standard
- With manual trolley as option



### Technical Data

Type		mini 125	mini 250	mini 500	mini 1000
Capacity	lbs kg	275 125	550 250	1100 500	2160 980
Air pressure	PSI bar	85 6	85 6	85 6	85 6
Number of chain strands		1	1	1	1
Motor output	kW	0.4	0.4	1	1
Lifting speed at full load <sup>1</sup>	ft/min m/min	49.5 15	26 8	33 10	16 5
Lifting speed without load <sup>1</sup>	ft/min m/min	130 40	65 20	65 20	33 10
Lowering speed at full load	ft/min m/min	99 30	52 16	59 18	33 10
Lowering speed without load	ft/min m/min	78.7 24	39.4 12	39.4 12	19.7 6
Air consumption at full load - lifting	cfm m <sup>3</sup> /min	17.5 0.5	17.5 0.5	42.5 1.2	42.5 1.2
Air consumption at full load - lowering	cfm m <sup>3</sup> /min	24.7 0.7	24.7 0.7	56.5 1.6	56.5 1.6
Air connection		G 3/8	G 3/8	G 1/2	G 1/2
Hose dimension (Ø inside)	inch mm	3/8 9	3/8 9	1/2 13	1/2 13
Weight with 10 ft/3 m lift	lbs kg	21 9.5	23.1 10.5	46.2 21	50.6 23
Chain dimension	mm	4 x 12	4 x 12	7 x 21	7 x 21
Weight of chain	lbs/ft kg/m	0.23 0.35	0.23 0.35	0.67 1.0	0.67 1.0
Height of lift	ft m			10/16/26 3/5/8	
Length of control at standard lift	ft m			6.5/13/20 2/4/6	
Noise level at full load <sup>2</sup> - lifting	dB(A)	79	79	77	77
Noise level at full load <sup>2</sup> - lowering	dB(A)	80	80	83	83

Group mechanism: M3 (1 Bm)

<sup>1</sup>Lifting speed at 2 m length of control. Longer control hoses decrease the lifting speeds. <sup>2</sup>Measured at 1 m distance acc. to DIN 45635 part 20



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