

JDN MONORAIL AIR HOISTS



Carrying capacities: 10 t up to 115 t per unit

JDN Monorail Hoists are available with air or hydraulic drive for the offshore industry, or wherever heavy loads have to be moved in reduced spaces. Depending on the application JDN Monorail Hoists can be used in tandem. For example: Working in parallel for handling BOP handling systems. Working in tandem and connected by a tie bar for handling grinding rollers in the cement industry.

Standard Features

- Ideally suited for working in hazardous areas (explosion risk)
- Insensitive to humidity, dust and temperatures from -20°C up to +70°C.
- Low headroom, compact design
- Low air consumption
- World wide service

Technical Details

- Instant starting vane motor requiring low maintenance
- Fail safe disc brake immediately holds load safely in the event of interruption of air supply
- All gearbox components made of tempered or hardened high-grade steel
- Anti-climb and anti-drop devices
- Lateral guiding plates

- Pendant control unit with emergency shut-off valve

Accessories

- Increased spark protection
- Rack and pinion drive
- Overload protection
- Two speed trolley travel control
- Filter silencer

Third party acceptance by DNV, ABS or Lloyds Register of shipping etc, available on request.

Special executions

If you cannot find the correct hoisting system to suit your application in our standard programme then Non standard designs to suit your particular application are our speciality.

Technical Data

Type		EH 10	EH 16	EH 20	EH 25	EH 37	EH 50	EH 75	EH 100
Carrying capacity	mt	10	16	20	25	37.5	50	75	100
Number of chain strands		2	3	4	2	3	4	3	4
Motor output Trolley	kW	0.7	0.7	0.7	1.4	1.4	1.4	2.8	2.8
Motor output Hoist	kW	3.5	3.5	3.5	6.3	6.3	6.3	10	10
Air pressure	PSI bar	85 6	85 6	85 6	85 6	85 6	85 6	85 6	85 6
Lifting speed at full load	ft/m m/min	5.3 1.6	3.3 1	2.3 0.7	4.1 1.25	2.5 0.75	1.8 0.55	1.5 0.45	1.1 0.35
Lifting speed without load	ft/m m/min	10.5 3.2	6.6 2	4.6 1.4	7.9 2.4	5.6 1.7	4.3 1.3	2.8 0.85	2.1 0.65
Lowering speed at full load	ft/m m/min	11.2 3.4	6.9 2.1	5.3 1.6	9.2 2.8	6.6 2.0	5.3 1.6	3.3 1.0	2.5 0.75
Travelling speed at full load	ft/m m/min	39.4 12	39.4 12	39.4 12	39.4 12	39.4 12	39.4 12	23 7	23 7
Travelling speed without load	ft/m m/min	44.3 13.5	44.3 13.5	44.3 13.5	44.3 13.5	44.3 13.5	44.3 13.5	26.3 8	26.3 8
Air consumption – Trolley	cfm m ³ /min	46 1.3	46 1.3	46 1.3	92 2.6	92 2.6	92 2.6	184 5.2	184 5.2
Air consumption – Hoist	cfm m ³ /min	113.2 3.2	113.2 3.2	141.5 4	229.6 6.5	229.6 6.5	229.6 6.5	389.1 11	389.1 11
Air connection		G ³ / ₄	G ³ / ₄	G ³ / ₄	G1 ¹ / ₂	G1 ¹ / ₂	G1 ¹ / ₂	G1 ¹ / ₂	G1 ¹ / ₂
Hose dimension(Ø inside)	inch mm	0.8 19	0.8 19	0.8 19	1.4 35	1.4 35	1.4 35	1.4 35	1.4 35
Weight with standard lift	lbs kg	992.1 450	1267.7 575	1366.3 620	2205 1000	3307 1500	3638 1650	8814.7 4000	12560.9 5700
Chain dimension	mm	16 x 45	16 x 45	16 x 45	23.5x66			32 x 90	32 x 90
Weight of 1 m chain	lbs kg	12.8 5.8	12.8 5.8	12.8 5.8	26.9 12.2	26.9 12.2	26.9 12.2	46.9 21.3	46.9 21.3
Standard lift	ft m	10 3	10 3	10 3	10 3	10 3	10 3	10 3	10 3
Length of control at standard lift	ft m	6.5 2	6.5 2	6.5 2	6.5 2	6.5 2	6.5 2	6.5 2	6.5 2
Noise level at full load ¹ with standard silencer – lifting	dB(A)	78	78	80	78	78	78	88	88
Noise level at full load ¹ with standard silencer – lowering	dB(A)	80	80	84	82	82	82	89	89

¹Measured at 1m distance acc. to DIN 45635 part 20, Group mechanism: EH10 – EH50 M3 (1 Bm), EH75 and EH100 M2 (1 Cm)



J.D. NEUHAUS
powered by air!



EH 20



EH 25



EH 100

Dimensions

Type		EH 10	EH 16	EH 20	EH 25	EH 37	EH 50	EH 75	EH 100
A	inch	4.1	5.1	5.1	3.5-6.8 ¹		4.9	3.9	4.9
	mm	105	130	130	90-172 ¹		125	100	125
B	inch	2.8	2.7	2.7	2.8	2.7	2.7	2.7	2.7
	mm	70	68	68	70	68	68	68	68
C	inch	11.2	11.6	11.6	11.6	11.6	11.8	11.6	11.8
	mm	285	295	295	295	295	300	295	300
D	inch	0.9	1.4	1.4	0.9	1.4	1.6	1.4	1.6
	mm	25	35	35	25	35	40	35	40
E	inch	7.8	8.7	8.7	7.4	8.6	11.1	8.7	11.1
	mm	198	220	220	188	218	283	220	283
F*	inch	27.8	29.5	32.3	39.3	43.0	44.9	58.3	60.4
	mm	705	750	820	998	1090	1140	1480	1535
G	inch	5.4	8.4	7.9	6.7	12.6	16.5	11.3	22.6
	mm	138	213	200	170	320	420	286	575
H	inch	1.7	2	3	3	3.9	3.9	4.7	4.7
	mm	44	53	75	75	100	100	120	120
J	inch	7.6	7.3	10.5	13.8	13.0	13.4	29.1	18.5
	mm	192	185	266	350	330	340	740	470
K	inch	22.8	23.6	23.6	43.3	55.1	61.0	126.1	123.2
	mm	580	600	600	1100	1400	1550	3210	3130
L	inch	12.1	14.5	14.5	17.7	21.3	21.3	25.2	30
	mm	308	367	367	450	540	540	640	762
M	inch	10.5	12.8	12.8	17.7	21.3	21.3	25.8	29.5
	mm	266	325	325	450	540	540	655	750

¹Depending on beam width

*Chain containers increase the hoist headroom

