



JDN MONORAIL AIR HOISTS



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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 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.



EH 100



EH 20



EH 25

TECHNICAL DATA

Type		EH 10	EH 16	EH 20	EH 25	EH 30	EH 37	EH 40	EH 50	EH 60
Capacity	mt	10	16	20	25	30	37.5	40	50	60
Air pressure	psi bar	87 6	87 6	87 6	87 6	87 6	87 6	87 6	87 6	87 6
Number of chain strands		2	3	4	2	2	3	3	4	4
Motor output trolley	kW	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
Motor output hoist	kW	3.5	3.5	3.5	6.3	6.3	6.3	6.3	6.3	6.3
Lifting speed at full load	ft/m m/min	5.3 1.6	3.3 1.0	2.3 0.7	4.1 1.25	3.3 1.0	2.5 0.75	2.3 0.7	1.8 0.55	1.5 0.45
Lifting speed without load	ft/m m/min	10.5 3.2	6.6 2.0	4.6 1.4	7.9 2.4	7.9 2.4	5.6 1.7	5.6 1.7	4.3 1.3	4.3 1.3
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	9.2 2.8	6.6 2.0	6.6 2.0	5.3 1.6	5.3 1.6
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	39.4 12	39.4 12	39.4 12
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	44.3 13.5	44.3 13.5	44.3 13.5
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	92 2.6	92 2.6	92 2.6
Air consumption – hoist lifting	cfm m ³ /min	141.5 4	141.5 4	141.5 4	229.6 6.5	229.6 6.5	229.6 6.5	229.6 6.5	229.6 6.5	229.6 6.5
Air connection		G ¾	G ¾	G ¾	G 1½	G 1½	G 1½	G 1½	G 1½	G 1½
Hose dimension(Ø inside)	inch mm	¾ 19	¾ 19	¾ 19	1½ 35	1½ 35	1½ 35	1½ 35	1½ 35	1½ 35
Weight with standard lift	lbs kg	992.1 450	1267.7 575	1366.3 620	2205 1000	2205 1000	3307 1500	3307 1500	3638 1650	3638 1650
Chain dimension	mm	16 x 45	16 x 45	16 x 45	23.5 x 66	23.5 x 66	23.5 x 66	23.5 x 66	23.5 x 66	23.5 x 66
Weight of chain	lbs/ft kg/m	3.9 5.8	3.9 5.8	3.9 5.8	3.9 12.2	8.2 12.2	8.2 12.2	8.2 12.2	8.2 12.2	8.2 12.2
Standard lift	ft m	10 3	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	6.5 2
Noise level at full load ¹ with standard silencer – lifting	dB(A)	78	78	80	78	78	78	78	78	78
Noise level at full load ¹ with standard silencer – lowering	dB(A)	80	80	84	82	82	82	82	82	82

¹Measured at 1 m distance acc. to DIN 45635 part 20, Group mechanism:
EH 10, EH 16, EH 20, EH 25, EH 37, EH 50: M3 (1 Bm), EH 30, EH 40, EH 60: M2 (1 Cm)
4 bar versions on request

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Two versions, for each of the 75 and 100 tonne lifting capacity products in the EH range are now available in both double trolley as well as the previously available 4 trolley traverse drive versions. The new

twin trolley drive versions, which offer more compact units for operation where limited space is available, are designated as EH 75C and EH 100C.

TECHNICAL DATA

Type		EH 75	EH 100	EH 75 C	EH 100 C
Capacity	mt	75	100	75	100
Air pressure	psi bar	87 6		87 6	
Number of trolleys		4		2	
Number of chain strands		3	4	3	4
Motor output trolley	kW	2.8		1.4	2.8
Motor output hoist	kW	9		9	
Lifting speed at full load	ft/min m/min	1.7 0.53	1.3 0.4	1.7 0.53	1.3 0.4
Lifting speed without load	ft/min m/min	4.4 1.33	3.3 1	4.4 1.33	3.3 1
Lowering speed at full load	ft/min m/min	4.1 1.25	3.1 0.95	4.1 1.25	3.1 0.95
Travelling speed at full load	ft/min m/min	23 7		23 7	
Travelling speed without load	ft/min m/min	26.3 8		26.3 8	
Air consumption trolley	cfm m ³ /min	184 5.2		92 2.6	184 5.2
Air consumption hoist – lifting	cfm m ³ /min	283 8		283 8	
Air consumption hoist – lowering	cfm m ³ /min	212 6		212 6	
Air connection		G 1½		G 1½	
Hose dimension (Ø inside)	inch mm	1 ½ 35		1 ½ 35	
Weight with standard lift	lbs kg	8267 3750	11244 5100	7496 3400	10472 4750
Chain dimension	mm	32 x 90		32 x 90	
Weight of chain	lbs/ft kg/m	14.3 21.3		14.3 21.3	
Standard lift	ft m	10 3		10 3	
Length of control at standard lift	ft m	6.5 2		6.5 2	
Noise level at full load ¹ – lifting	dB(A)	77		77	
Noise level at full load ¹ – lowering	dB(A)	83		83	

¹Measured at 1 m distance acc. to DIN 45635 part 20
Group mechanism: EH 75, EH 100: M3 (1 Bm)

DIMENSIONS

Type		EH 10	EH 16	EH 20	EH 25	EH 30	EH 37	EH 40	EH 50	EH 60	EH 75	EH 100	EH 75 C	EH 100 C
A	inch mm	4.1 105	5.1 130	5.1 130	3.5-6.8 ¹ 90-172 ¹				4.9 125	4.9 125	3.9 100	4.9 125	4.9 125	6.9 176
B	inch mm	2.8 70	2.7 68	2.7 68	2.8 70	2.8 70	2.7 68	2.7 68	2.7 68	2.7 68	2.7 68	2.7 68	2.7 68	2.7 68
C	inch mm	11.2 285	11.6 295	11.6 295	11.6 295	11.6 295	11.6 295	11.6 295	11.8 300	11.8 300	11.6 295	11.8 300	11.8 300	12.6 320
D	inch mm	0.9 25	1.4 35	1.4 35	0.9 25	1.4 35	1.4 35	1.4 35	1.6 40	1.6 40	1.4 35	1.6 40	1.6 40	2.4 60
E	inch mm	7.8 198	8.7 220	8.7 220	7.4 188	7.4 188	8.6 218	8.6 218	11.1 283	11.1 283	8.6 218	11.1 282	11.1 282	15 382
F*	inch mm	27.8 705	29.5 750	32.3 820	39.3 998	39.3 998	43.0 1090	43.0 1090	44.9 1140	44.9 1140	59.2 1500	59.2 1500	59.2 1500	59.2 1500
G	inch mm	5.4 138	8.4 213	7.9 200	6.7 170	6.7 170	12.6 320	12.6 320	16.5 420	16.5 420	18.9 480	22.6 575	18.9 480	22.6 575
H	inch mm	1.7 44	2 53	2.8 70	2.8 70	2.8 70	3.9 100	3.9 100	3.9 100	3.9 100	4.7 120	4.7 120	4.7 120	4.7 120
J	inch mm	7.6 192	7.3 185	10.5 266	13.8 350	13.8 350	13.0 330	13.0 330	13.4 340	13.4 340	17.9 455	18.5 470	17.9 455	18.5 470
K	inch mm	22.8 580	23.6 600	23.6 600	43.3 1100	43.3 1100	55.1 1400	55.1 1400	61.0 1550	61.0 1550	118.9 3020	124.8 3170	68.90 1750	75.98 1930
L	inch mm	12.1 308	14.5 367	14.5 367	17.7 450	17.7 450	21.3 540	21.3 540	21.3 540	21.3 540	32.5 825	32.5 825	32.5 825	32.5 825
M	inch mm	10.5 266	12.8 325	12.8 325	17.7 450	17.7 450	21.3 540	21.3 540	21.3 540	21.3 540	27.8 706	27.8 706	23.4 670	27.8 706

¹Depending on beam width

*Chain containers increase the hoist headroom

