



JDN ULTRA-LOW MONORAIL HOISTS

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CAPACITIES:
1 T UP TO 100 T
AIR PRESSURE: 6 BAR

Where loads have to be lifted and transported in extremely reduced spaces the **JDN Ultra-Low Monorail Hoists** provide the ideal solution. For example the Ultra-Low Monorail Hoist with a load capacity of 6 t has a headroom of only 230 mm.

STANDARD FEATURES

- Ideally suited for working in hazardous areas (explosion risk)
- Insensitive to humidity, dust and temperatures from -20°C up to +70°C
- Extremely low headroom
- Low air consumption
- Available with increased spark protection

TECHNICAL DATA

| Type | | UH 1 | UH 2 | UH 4 | UH 6 | UH 8 | UH 12 | UH 16 | UH 25 |
|--|----------------------------|------------------------------|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Capacity | mt | 1 | 2 | 4 | 6 | 8 | 12 | 16 | 25 |
| Air pressure | psi bar | 85 6 | 85 6 | 85 6 | 85 6 | 85 6 | 85 6 | 85 6 | 85 6 |
| Number of chain strands | | 2 x 1 | 2 x 2 | 2 | 2 | 4 | 4 | 4 | - |
| Motor output | kW | 1 | 1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 6.3 |
| Lifting speed at full load | ft/min m/min | 16.4 5 | 8.2 2.5 | 9.8 3 | 6.6 2 | 4.6 1.4 | 3 0.9 | 2.1 0.65 | 4.3 1.3 |
| Lifting speed without load | ft/min m/min | 32.8 10 | 16.4 5 | 19.7 6 | 14.8 4.5 | 9.5 2.9 | 7.2 2.2 | 3.9 1.2 | 8.2 2.5 |
| Lowering speed at full load | ft/min m/min | 32.8 10 | 16.4 5 | 24.6 7.5 | 17.1 5.2 | 11.8 3.6 | 8.2 2.5 | 4.9 1.5 | 8.2 2.5 |
| Air consumption at full load – lifting | cfm m ³ /min | 42.3 1.2 | 42.3 1.2 | 141.3 4 | 141.3 4 | 141.3 4 | 141.3 4 | 141.3 4 | 229.7 6.5 |
| Air consumption at full load – lowering | cfm m ³ /min | 53 1.5 | 53 1.5 | 194.3 5.5 | 194.3 5.5 | 194.3 5.5 | 194.3 5.5 | 194.3 5.5 | 102.5 2.9 |
| Air connection | | G ½ | G ½ | G ¾ | G ¾ | G ¾ | G ¾ | G ¾ | G 1 ½ |
| Hose dimension (Ø inside) | inch mm | ½ 13 | ½ 13 | ¾ 19 | ¾ 19 | ¾ 19 | ¾ 19 | ¾ 19 | 1 ½ 35 |
| Weight with standard lift | lbs kg | min. 364* max. 165* | max. 452* max. 205* | 1014 460 | 1036 470 | 1190 540 | 1213 550 | 1235 560 | 3307 1500 |
| Chain dimension | mm | 7 x 21 | 7 x 21 | 13 x 36 | 13 x 36 | 13 x 36 | 13 x 36 | 13 x 36 | 16 x 45 |
| Weight of chain | lbs/ft kg/m | 0.67 1.0 | 0.67 1.0 | 2.6 3.8 | 2.6 3.8 | 2.6 3.8 | 2.6 3.8 | 2.6 3.8 | 3.9 5.8 |
| 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 – lifting | dB(A) | 76 | 76 | 78 | 78 | 78 | 78 | 78 | 80 |
| Noise level at full load ¹ – lowering | dB(A) | 78 | 78 | 80 | 80 | 80 | 80 | 80 | 84 |

¹Measured at 1 m distance acc. to DIN 45635 part 20
Group mechanism: M3 (1 Bm)
Technical data for higher capacities on request.

*Depending on beam width



UH 100

DIMENSIONS

| Type | | UH 1 | UH 2 | UH 4 | UH 6 | UH 8 | UH 12 | UH 16 | UH 25 |
|----------------------|------|-----------|-----------|-------|-------|-------|-------|-------|----------|
| A | inch | 5.7 | 5.7 | 7.68 | 12.01 | 7.68 | 12.01 | 12.01 | 15.04 |
| | mm | 145 | 145 | 195 | 305 | 195 | 305 | 305 | 382 |
| B | inch | 11.3-18.3 | 11.3-18.3 | 7.87 | 7.87 | 7.87 | 7.87 | 7.87 | 9.06 |
| | mm | 286-466 | 286-466 | 200 | 200 | 200 | 200 | 200 | 230 |
| b | inch | 3-12.2 | 3-12.2 | - | - | - | - | - | 10.83-14 |
| | mm | 76-310 | 76-310 | - | - | - | - | - | 275-355 |
| C | inch | 5.98 | 5.98 | 11.16 | 11.16 | 11.16 | 11.16 | 11.16 | 11.81 |
| | mm | 152 | 152 | 284 | 284 | 284 | 284 | 284 | 300 |
| D | inch | 2.76 | 2.76 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 9.84 |
| | mm | 70 | 70 | 165 | 165 | 165 | 165 | 165 | 250 |
| E | inch | 4.57 | 4.57 | 9.29 | 9.29 | 9.29 | 9.29 | 9.29 | 13.39 |
| | mm | 116 | 116 | 236 | 236 | 236 | 236 | 236 | 340 |
| F | inch | 12.48 | 13.58 | 12.99 | 12.99 | 11.14 | 11.14 | 11.14 | 14.96 |
| | mm | 317 | 345 | 330 | 330 | 283 | 283 | 283 | 380 |
| G | inch | 4.29 | 4.29 | 7.78 | 7.78 | 7.78 | 7.78 | 7.78 | 11.1 |
| | mm | 109 | 109 | 197.5 | 197.5 | 197.5 | 197.5 | 197.5 | 282 |
| H | inch | 6.85-7.2 | 7.1-7.56 | - | - | - | - | - | 18.5 |
| | mm | 174-183 | 180-192 | - | - | - | - | - | 470 |
| H min. 150 ≤ b ≤ 310 | inch | - | - | 9.06 | 9.06 | - | - | - | - |
| | mm | - | - | 230 | 230 | - | - | - | - |
| H min. 150 ≤ b ≤ 230 | inch | - | - | - | - | 11.61 | 11.61 | 13.15 | - |
| | mm | - | - | - | - | 295 | 295 | 334 | - |
| H min. 230 ≤ b ≤ 310 | inch | - | - | - | - | 10.87 | 10.87 | 12.40 | - |
| | mm | - | - | - | - | 276 | 276 | 315 | - |
| J | inch | 11.57 | 11.57 | 15.75 | 15.75 | 15.75 | 15.75 | 15.75 | 25.08 |
| | mm | 294 | 294 | 400 | 400 | 400 | 400 | 400 | 637 |
| K | inch | 11.57 | 11.57 | 21.06 | 21.06 | 21.06 | 21.06 | 21.06 | 33.86 |
| | mm | 294 | 294 | 535 | 535 | 535 | 535 | 535 | 860 |
| L | inch | 33.94 | 33.94 | 39.37 | 39.37 | 39.37 | 39.37 | 39.37 | 53.15 |
| | mm | 862 | 862 | 1000 | 1000 | 1000 | 1000 | 1000 | 1350 |
| M | inch | 11 | 11 | 1.57 | 1.57 | 1.73 | 1.73 | 2.09 | 2.76 |
| | mm | 28 | 28 | 40 | 40 | 44 | 44 | 53 | 70 |
| N | inch | 1.61 | 1.61 | 2.01 | 2.01 | 2.60 | 2.60 | 3.23 | 3.15 |
| | mm | 41 | 41 | 51 | 51 | 66 | 66 | 82 | 80 |
| t max. | inch | 0.98 | 0.98 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 3.54 |
| | mm | 25 | 25 | 40 | 40 | 40 | 40 | 40 | 90 |

Dimensions for higher capacities on request.

