



# 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<br>bar                 | 85<br>6                      | 85<br>6                      | 85<br>6      | 85<br>6      | 85<br>6      | 85<br>6      | 85<br>6      | 85<br>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<br>m/min            | 16.4<br>5                    | 8.2<br>2.5                   | 9.8<br>3     | 6.6<br>2     | 4.6<br>1.4   | 3<br>0.9     | 2.1<br>0.65  | 4.3<br>1.3   |
| Lifting speed without load                       | ft/min<br>m/min            | 32.8<br>10                   | 16.4<br>5                    | 19.7<br>6    | 14.8<br>4.5  | 9.5<br>2.9   | 7.2<br>2.2   | 3.9<br>1.2   | 8.2<br>2.5   |
| Lowering speed at full load                      | ft/min<br>m/min            | 32.8<br>10                   | 16.4<br>5                    | 24.6<br>7.5  | 17.1<br>5.2  | 11.8<br>3.6  | 8.2<br>2.5   | 4.9<br>1.5   | 8.2<br>2.5   |
| Air consumption at full load – lifting           | cfm<br>m <sup>3</sup> /min | 42.3<br>1.2                  | 42.3<br>1.2                  | 141.3<br>4   | 141.3<br>4   | 141.3<br>4   | 141.3<br>4   | 141.3<br>4   | 229.7<br>6.5 |
| Air consumption at full load – lowering          | cfm<br>m <sup>3</sup> /min | 53<br>1.5                    | 53<br>1.5                    | 194.3<br>5.5 | 194.3<br>5.5 | 194.3<br>5.5 | 194.3<br>5.5 | 194.3<br>5.5 | 102.5<br>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<br>mm                 | ½<br>13                      | ½<br>13                      | ¾<br>19      | ¾<br>19      | ¾<br>19      | ¾<br>19      | ¾<br>19      | 1 ½<br>35    |
| Weight with standard lift                        | lbs<br>kg                  | min.<br>364*<br>max.<br>165* | max.<br>452*<br>max.<br>205* | 1014<br>460  | 1036<br>470  | 1190<br>540  | 1213<br>550  | 1235<br>560  | 3307<br>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<br>kg/m             | 0.67<br>1.0                  | 0.67<br>1.0                  | 2.6<br>3.8   | 2.6<br>3.8   | 2.6<br>3.8   | 2.6<br>3.8   | 2.6<br>3.8   | 3.9<br>5.8   |
| Standard lift                                    | ft<br>m                    | 10<br>3                      | 10<br>3                      | 10<br>3      | 10<br>3      | 10<br>3      | 10<br>3      | 10<br>3      | 10<br>3      |
| Length of control at standard lift               | ft<br>m                    | 6.5<br>2                     | 6.5<br>2                     | 6.5<br>2     | 6.5<br>2     | 6.5<br>2     | 6.5<br>2     | 6.5<br>2     | 6.5<br>2     |
| Noise level at full load <sup>1</sup> – lifting  | dB(A)                      | 76                           | 76                           | 78           | 78           | 78           | 78           | 78           | 80           |
| Noise level at full load <sup>1</sup> – lowering | dB(A)                      | 78                           | 78                           | 80           | 80           | 80           | 80           | 80           | 84           |

<sup>1</sup>Measured 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 | 1.1       | 1.1       | 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.

