JDN AIR HOISTS MINI

J·D·NEUHAUS
1745
275 years of excellence

THE HIGHEST BENCHMARK IN HOISTING TECHNOLOGY

THE JDN MINI

The JDN Mini is the most compact hoist, with a carrying capacity of up to 980 kg and an integrated NFC Tag with service app that makes it truly unique in the industry. Various innovations came together for the concept.

Developed in collaboration with customers

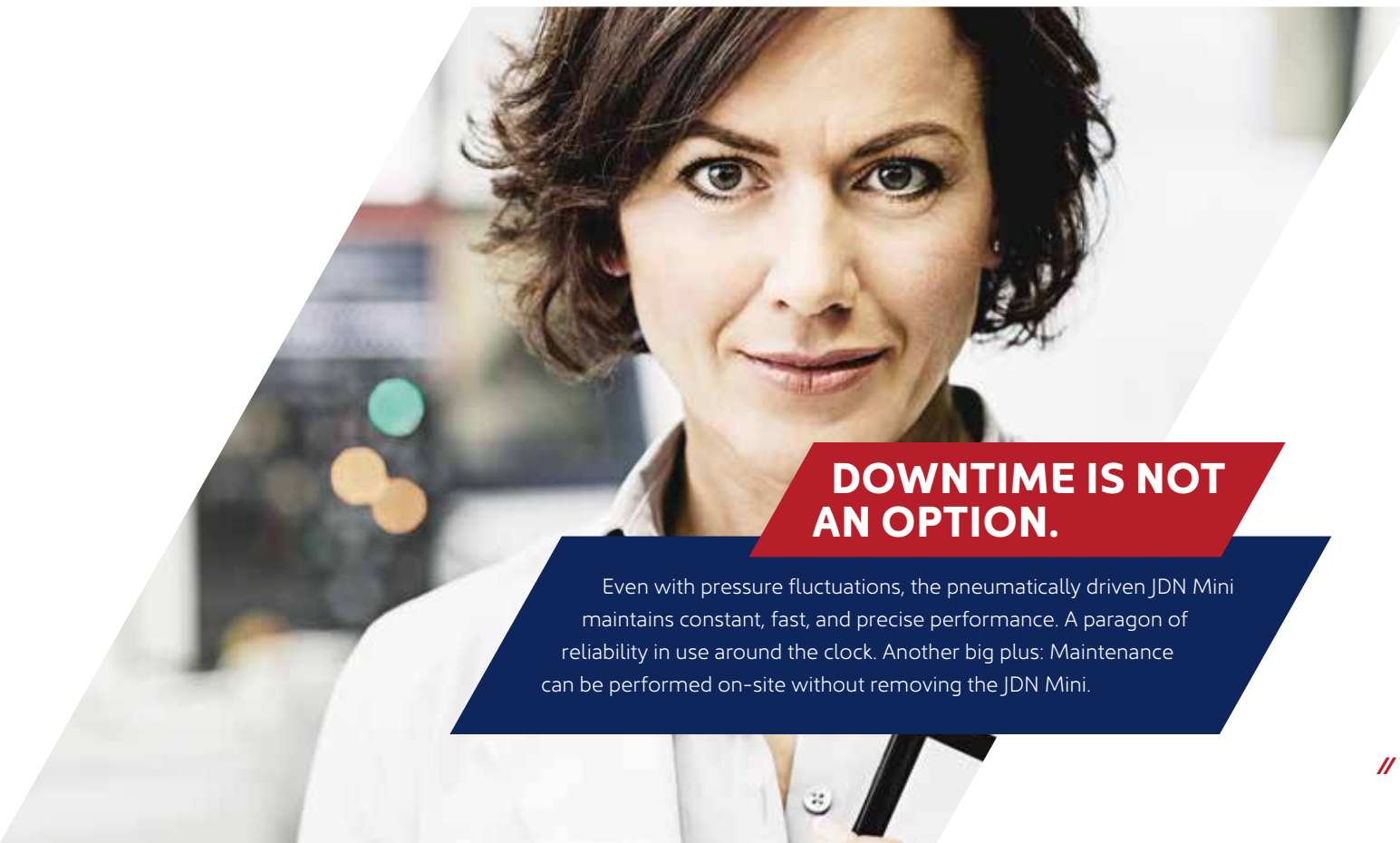
To make the JDN Mini the best hoist on the market, we have blazed new trails in development, and it took us straight to the customer. Or rather: to many customers. We asked how the perfect hoist has to work. We studied a wide variety of different conditions of use on-site and had discussions with end-users. Our engineers took this knowledge and used it to get the ball rolling. This unique process allowed us to achieve truly exceptional results! Maximum productivity, occupational safety, and efficiency. A hoist that the customer can flexibly configure as desired to meet the demands of the specific application. A hoist that is unrivalled in its comfort and ease of use. A hoist that offers extensive time savings in maintenance. A hoist that we can truly say: The highest benchmark in hoisting technology.

MAXIMUM EFFICIENCY PLEASE.

With a higher working speed, considerably longer lifetime, and drastically reduced downtimes for maintenance, the JDN Mini offers the lowest TCO values out there (Total Cost of Ownership).

SAFETY? THAT'S OUR TOP PRIORITY!

Best example: the optional redundant support of the JDN Mini. A brand new innovation on the world market developed to meet demand from specific customer segments. It will react if the structure on which the Mini is mounted fails.



DOWNTIME IS NOT AN OPTION.

Even with pressure fluctuations, the pneumatically driven JDN Mini maintains constant, fast, and precise performance. A paragon of reliability in use around the clock. Another big plus: Maintenance can be performed on-site without removing the JDN Mini.

THIS IS WHAT MAKES THE MINI THE HIGHEST BENCHMARK IN HO

MORE SAFETY

When it comes to safety, the JDN Mini offers a new global innovation that meets the needs of a specific customer segment: A redundant optional fall support capable of holding the maximum capacity of a hoist coming free of the supporting structure. The limit switches offer another safety bonus. They will switch off the lifting and lowering movement as soon as the bumper touches the stop valve. This slows the movement and keeps the chain from being overloaded. All of these features enhance occupational safety significantly and minimise safety hazards and wear risks.

Its intellignet construction increases the number of operating hours of the JDN Mini through targeted optimisation to 800 hours, thus doubling the amount of time. This considerably enhances its efficiency in comparison to the previous model. Doubling the lifetime makes a significant contribution to the reduction of the total cost of ownership (TCO), since the extended service life means that new devices are purchased much less frequently to replace units that have reached the end of their service life.

LONGER LIFETIME

SENSITIVE CONTROL

J.D. Neuhaus has succeeded in bringing together the advantages of direct and indirect control. So the control is now connected with the casing via a single hose with pull relief, bundling three control lines inside. This enhances operating comfort and flexibility. Added to this are the completely new precision valves, enabling even more precise dosing of the air supply and thus making it possible to lift and lower loads smoothly.

The smartest new development in the area of maintenance is the NFC Tag integrated into the service flap. The user can access the operating instructions and certificates for the hoist by getting on a smartphone and using the JDN service app. Much of the maintenance work such as lubricating the motor chamber, exchanging the chain guide, and even exchanging the motor unit can now be carried out on the JDN Mini "on the hook" – without dismounting the Mini. This also saves an incredible amount of time and increases occupational safety.

EASY MAINTENANCE

ISTING TECHNOLOGY.

HIGHER SPEED

The JDN Mini 500 will reach a maximum lifting speed of 12 m/min at full load (500 kg). This makes it up to 20 % faster than its predecessor – even when it is in constant use and with double lifetime! It doesn't get more productive than that. The maximum speed can also be continuously preset, so reduced, without losing power at a given carrying capacity. This can protect loads even more when necessary and, at the same time, the speed can also be more finely managed.

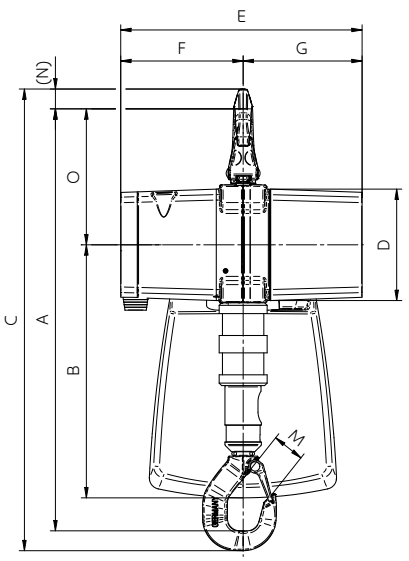
CUSTOM-FIT CONFIGURATION

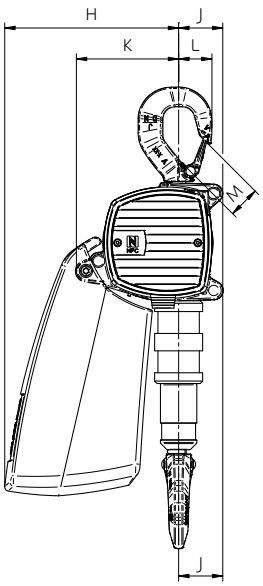
The JDN developers have also come up with some innovative ideas when it comes to flexibility: A standardised "interface" for using various types of hooks. Hooks are also available in steel and stainless steel. Together with a load sleeve and chain made of stainless steel as well as a motor housing of uncoated cast aluminium the JDN Mini is perfect for use in fields such as the food industry.

TECHNICAL DATA

Type		mini 125	mini 250	mini 500	mini 1000
Air pressure	psi bar	87 6	87 6	87 6	87 6
Carrying capacity	lbs kg	275 125	550 250	1100 500	2160 980
Number of chain strands		1	1	1	1
Engine output at full load	kW	0.45	0.45	1	1
Lifting speed at full load	ft/min m/min	65.5 20	32.8 10	41 12.5	20.7 6.3
Lifting speed without load	ft/min m/min	131 40	65.5 20	65.5 20	37.7 11.5
Lowering speed at full load	ft/min m/min	131 40	65.5 20	65.5 20	39.4 12
Lowering speed without load	ft/min m/min	82 25	41 12.5	42.7 13	24.6 7.5
Air consumption at full load – lifting	cfm m³/min	33.5 0.95	33.5 0.95	60 1.7	60 1.7
Air consumption at full load – lowering	cfm m³/min	33.5 0.95	33.5 0.95	60 1.7	60 1.7
Air connection		G ½	G ½	G ½	G ½
Hose dimension (ø inside)	inch mm	½ 13	½ 13	½ 13	½ 13
Weight at 3 m lift/2 m control length	lbs kg	22 10	22 10	45.2 20.5	46.3 21
Chain dimension	mm	4.7 x 14.1	4.7 x 14.1	7.4 x 22	7.4 x 22
Weight of chain	lbs kg/m	1.1 0.48	1.1 0.48	2.6 1.19	2.6 1.19
Height of lift	ft m	10/16/26 3/5/8	10/16/26 3/5/8	10/16/26 3/5/8	10/16/26 3/5/8
Length of control	ft m	6.5/13/23* 2/4/7*	6.5/13/23* 2/4/7*	6.5/13/23* 2/4/7*	6.5/13/23* 2/4/7*
Sound level at full load – lifting[1]	dB(A)	78	78	78	78
Sound level at full load – lowering[1]	dB(A)	80	80	80	80
ATEX Zone		2/22	2/22	2/22	2/22
Mechanism group/life cycle [h]		1 Am/800	1 Am/800	1 Am/800	1 Am/800

*Special lengths up to max. 10 m/33 ft on request.
[1]Measured in 1 m distance acc. to DIN 45635 part 20. Performance data at room temperature. Alterations reserved.





DIMENSIONS

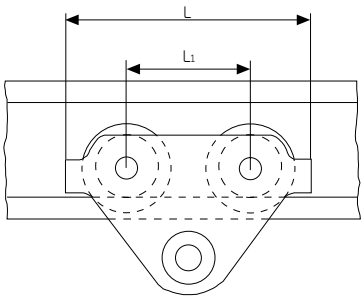
Type	mini 125	mini 250	mini 500	mini 1000
A	14.6 370	14.6 370	x.x 509	x.x 509
B	x.x 236	x.x 236	x.x 306	x.x 306
C	x.x 400	x.x 400	21.9 557	21.9 557
D	3.9 100	3.9 100	5.3 135	5.3 135
E	8.7 220	8.7 220	11.5 292	11.5 292
F	4.4 112	4.4 112	5.8 148	5.8 148
G	4.3 108	4.3 108	5.7 144	5.7 144
H	x.x 159	x.x 159	x.x 210	x.x 210
J	x.x 43	x.x 43	x.x 53	x.x 53
K	x.x 93	x.x 93	x.x 125	x.x 125
L	1.1 28	1.1 28	x.x 40	x.x 40
M	0.7 19	0.7 19	1.1 28	1.1 28
(N)	x.x 15	x.x 15	x.x 24	x.x 24
O	x.x 118	x.x 118	x.x 164	x.x 164

Alterations reserved.

MANUAL TROLLEYS FOR JDN AIR HOISTS MINI

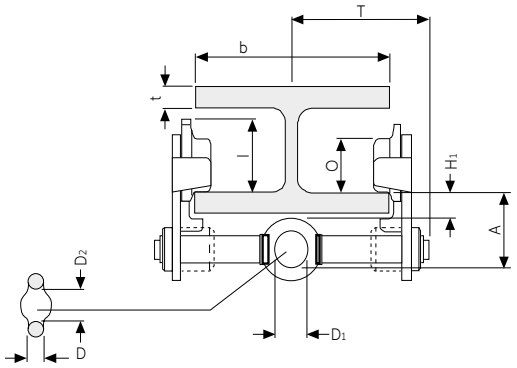
TECHNICAL DATA

Type		LN 250	LN 1000
Capacity	lbs kg	550 250	2200 1000
Beam flange width b	inch mm	2-8 50-220	2-8 58-220
max. flange thickness t	inch mm	1.2 30	1.0 25
min. curve radius	inch m	35.4 0.9	39.4 1.0
Weight	lbs kg	17 7.7	21 10.5



DIMENSIONS

Type		LN 250	LN 1000
A	inch mm	3.1 79	3.1 79
D	inch mm	0.7 17	0.7 17
D1	inch mm	1 25	1.2 30
D2	inch mm	1.2 30	1.4 35
H1	inch mm	1.2 30	1 25
I	inch mm	2.7 67.5	3.2 81.5
L	inch mm	10.2 260	10.2 260
L1	inch mm	5.1 130	5.1 130
O	inch mm	2.2 55	2.7 68
T	inch mm	5.7 144	5.9 151



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