AIR HOISTS

THE JDN PROFI SERIES

Robust – Reliable – Low maintenance
The hoist series for demanding industrial applications

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J·D·NEUHAUS
1745
permanent excellence

CUSTOM MADE FOR TOUGH APPLICATIONS AND CONTINUOUS OPERATION

All JDN air hoists in the PROFI series are designed and manufactured to be extremely robust. From our ongoing dialogue with our customers, we know that safety and reliability are top priorities wherever work is carried out on a sustained basis and under demanding conditions. This is precisely why the JDN air hoists in the PROFI series are highly valued and successfully used in these cases.

The hoists in the PROFI series offer 100% delay-free switch-on and unlimited switch-on frequency. This is ensured by the non-slip, low-maintenance multi-blade motor. Thanks to the pneumatic drive, they offer explosion protection (ATEX) as standard and are also resistant to dust and moisture. This makes them ideal not only for use in potentially explosive atmospheres, but also for demanding industrial applications and continuous operation – at temperatures ranging from -20°C to +70°C.

JDN PROFI hoists are easy to operate for all applications and have a sensitive, continuously variable control system for positioning loads safely and precisely. Various control systems are available for this purpose, depending on requirements.

From a load-carrying capacity of 1 t, the devices in the PROFI series are also equipped with overload protection as standard. Thanks to dust-protected ball bearings, a permanently lubricated planetary gear with high-performance lubricant and gears made of hardened or tempered stainless steel, all JDN air hoists in the PROFI series require only minimal maintenance.

We remain in close contact with our users at all times through our 360° service partnerships – and we use this dialogue to continuously develop our products.

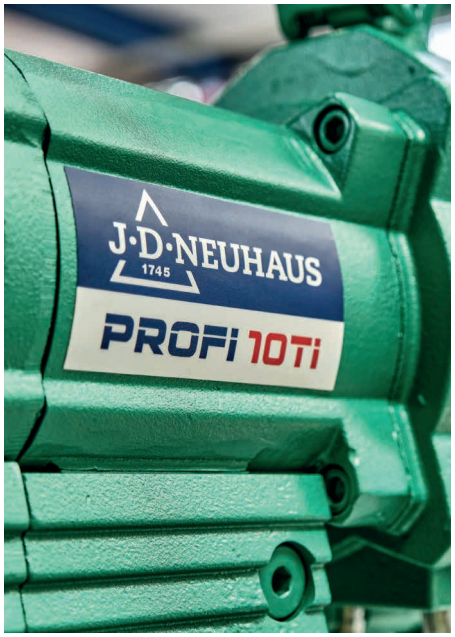
In short: we keep our promise "Permanent Excellence" for you.

J.D. NEUHAUS – MORE THAN PRODUCTS

As a family-run company in its seventh generation, our commitment to clear values helps us achieve the standard of "Permanent Excellence" that we have held ourselves to for over 275 years.

The three value pairs of tradition and innovation, performance and longevity as well as partnership and passion create the foundation for our daily activities. They shape our partnership with the people who work for us, as well as with our partners and customers. They are found in the quality and German engineering of our products, and in the way we work with you and find new solutions thanks to our innovative spirit.

Our thinking is guided by sustainability, which we believe our future urgently needs and, of course, deserves.



PRODUCT BENEFITS AND ADVANTAGES IN PRACTICE

With hoists from the PROFI series, you as a safety-oriented, high-performance company can expand your equipment portfolio with a reliable tool with power features and benchmark qualities.

JDN PROFI hoists are mechanical and are pneumatically operated. Thanks to compact and robust design with few components, the PROFI series is perfectly matched to your application environment. As a result, the devices are not susceptible to external influences and are extremely low maintenance.

Our patented pneumatic drive system, designed for 100% power-up time, offers fast lifting and lowering speeds. In this way, we ensure that customers do not experience downtimes and that permanent availability is ensured.

PROFI series JDN air hoists ensure maximum performance and safety in any industry or process where they are used. The processed materials and their coating make the hoists insensitive to factors such as paint particles, spray mist, moisture, aggressive vapours, dirt and dust. They are also resistant to very low or very high temperatures.

Because the engines of all hoists in the PROFI series are specially lubricated with high-performance lubricant, no further lubrication is required. The devices are suitable for long-term, oil-free operation. Likewise, the devices of the JDN PROFI series are soundproofed and thus contribute to lower noise emissions.

With PROFI hoists, we have realised the sustainability concept by making the majority of its installed components completely recyclable.

PNEUMATIC
mechanical drive

ROBUST
to external ambient influences

NO DOWNTIME
100% on-time

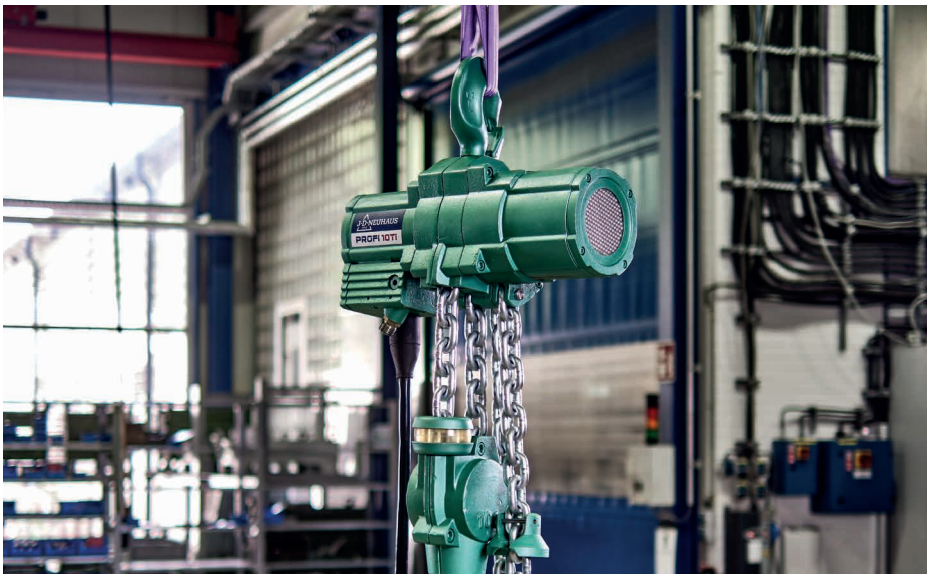
EXPLOSION SAFE
for use in hazardous areas

COST-EFFECTIVE
thanks to low maintenance

TECHNICAL DATA

PROFI 025 TI TO 2 TI

TYPE	UNIT	025 TI		05 TI		1 TI		2 TI	
Load-carrying capacity	t	0.16	0.25	0.32	0.5	0.63	1	1.25	2
Air pressure	bar	4	6	4	6	4	6	4	6
Number of chain strands		1		1		1		2	
Engine power	kW	0.6	1.0	0.6	1.0	0.6	1.0	0.6	1.0
Lifting speed at rated load	m/min	20	20	10	11	5	5.5	2.5	2.7
Lifting speed without rated load	m/min	37.5	42	16	19	10	11	5	5.5
Lowering speed at rated load	m/min	38	38	17	17	10	11	5	5.5
Air consumption at rated load – lifting	m^3/min	0.7	1.2	0.7	1.2	0.7	1.2	0.7	1.2
Air consumption at rated load – lowering	m^3/min	0.8	1.5	0.8	1.5	0.8	1.5	0.8	1.5
Air connection		G ½		G ½		G ½		G ½	

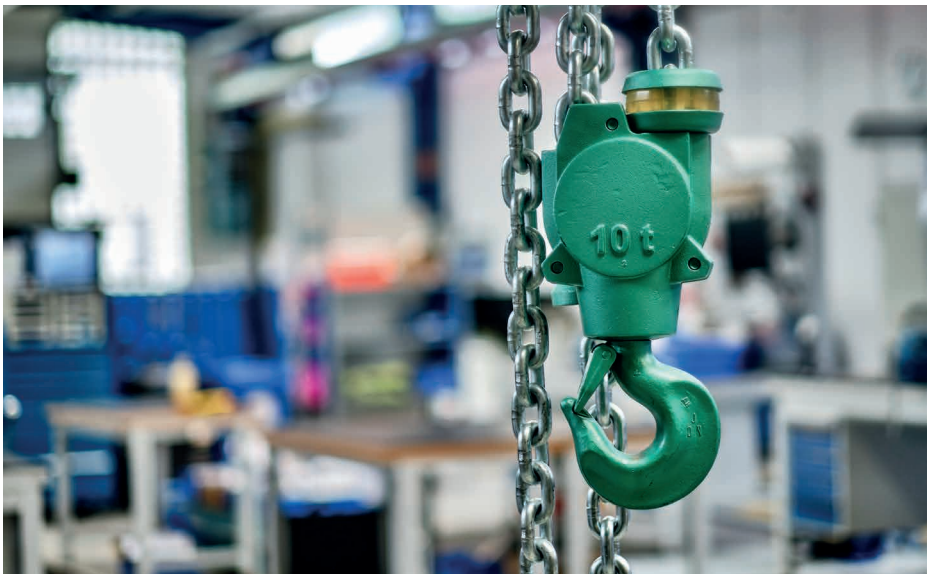


PROFI 1,5 TI AND 3 TI/2

TYPE	UNIT	1,5 TI	3 TI/2
Load-carrying capacity	t	1.6	3.2
Air pressure	bar	4–6	4–6
Number of chain strands		1	2
Engine power	kW	1.3–2	1.3–2
Lifting speed at rated load	m/min	4–6	2–3
Lifting speed without rated load	m/min	8.4–10	4.2–5
Lowering speed at rated load	m/min	11–12	5.5–6
Air consumption at rated load – lifting	m^3/min	1.5–2.6	1.5–2.6
Air consumption at rated load – lowering	m^3/min	2.2–3.6	2.2–3.6
Air connection		G ¾	G ¾

PROFI 3 TI TO 20 TI

TYPE	UNIT	3 TI		6 TI		10 TI		16 TI		20 TI	
Load-carrying capacity	t	3.2		6.3		10		16		20	
Air pressure	bar	4	6	4	6	4	6	4	6	4	6
Number of chain strands		1		2		2		3		4	
Engine power	kW	1.8	3.5	1.8	3.5	1.8	3.5	1.8	3.5	1.8	3.5
Lifting speed at rated load	m/min	2.5	5	1.2	2.5	0.8	1.6	0.5	1	0.4	0.7
Lifting speed without rated load	m/min	6	10	3	5	2	3.2	1.3	2	1.0	1.4
Lowering speed at rated load	m/min	7.5	10.8	3.6	5.4	2.5	3.4	1.6	2.1	1.2	1.6
Air consumption at rated load – lifting	m^3/min	2	4	2	4	2	4	2	4	2	4
Air consumption at rated load – lowering	m^3/min	3.5	5.5	3.5	5.5	3.5	5.5	3,.5	5.5	3.5	5.5
Air connection		G ¾		G ¾		G ¾		G ¾		G ¾	



PROFI 25 TI TO 100 TI

TYPE	UNIT	25 TI	30 TI	37 TI	40 TI	50 TI	60 TI	75 TI	100 TI
Load-carrying capacity	t	25	30	37.5	40	50	60	75	100
Air pressure	bar	6							
Number of chain strands		2	2	3	3	4	4	3	4
Engine power	kW	6.3						9	9
Lifting speed at rated load	m/min	1.25	1.0	0.75	0.7	0.55	0.45	0.53	0.4
Lifting speed without rated load	m/min	2.4	2.4	1.7	1.7	1.3	1.3	1.33	1
Lowering speed at rated load	m/min	2.8	2.8	2.0	2.0	1.6	1.6	1.25	0.95
Air consumption at rated load – lifting	m^3/min	6.5						7.6	7.6
Air consumption at rated load – lowering	m^3/min	2.9						6	6
Air connection		G 1 ½							

The stated values refer to standard configurations (without accessories) and room conditions with a flow pressure of 5.8 bar before the hoist.
Subject to change without notice.

SERVICE PARTNERSHIP AND DIALOGUE

For all of our customers in a variety of demanding industries and processes, JDN PROFI hoists are synonymous with high performance, absolute reliability, maximum availability and minimum maintenance times – all with maximum safety.

Feedback from the market shows us how much our customers value the PROFI series as a reliable tool. However, to continue to develop our products for industries, sectors or special application areas, we remain in close dialogue with our customers. We would like to invite you to join this group. Perhaps you would also like advice on the application or customisation options for our PROFI hoists, such as our largest equipment with a load-carrying capacity of 25 to 100 t?

Our experienced Global Project Team would be happy to discuss individual enquiries with you.

Please do not hesitate to contact us for more information.

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