

AIR HOISTS

JDN PROFI SERIES

Robust – Reliable – Versatile

J·D·NEUHAUS
1745
permanent excellence

CUSTOM MADE FOR YOUR APPLICATIONS

Introducing the JDN PROFI series air hoist — where unparalleled performance and unbeatable reliability meet maximum safety. Engineered to thrive in the toughest industrial environments, our PROFI series is your ultimate solution for various applications.

Imagine a hoist configuration specially crafted for your application, based on feedback from operators around the world. This lifting solution offers a 100% duty cycle thanks to its non-slip, low-maintenance pneumatic motor. Designed for ATEX environments, the PROFI series excels in potentially explosive atmospheres and dust-filled areas. Depending on your needs, you can customize your hoist with a variety of options, including chains, hooks, chain boxes, and trolleys. And, with it's robust, proven design it can withstand toughest conditions making it the top hoist solution for safe lifting.

Our patented pneumatic drive system guarantees fast lifting and lowering speeds, reducing downtime and keeping your operations running smoothly. Specially lubricated motor technology ensures long-term, oil-free operation, contributing to the JDN sustainability promise. Dust-protected ball bearings and a permanently lubricated planetary gear system mean minimal maintenance and maximum uptime. Additionally, our soundproof motor design ensures a quieter and safer work environment for your staff.

If required the PROFI series features a sensitive, continuously variable control system for precise load positioning. With standard overload protection on models with a load-carrying capacity of 1 ton or more, you can trust in the safety and reliability of every lift.

With the PROFI series, you get a hoist that combines safety, power and precision to elevate your operations. Whether dealing with high demands for cleanliness, explosive atmospheres, or toughest weather conditions the PROFI series remains steadfast, delivering top-tier performance with every lift.

Of course, we ensure you have access to our JDN global service network for your assistance. From technical on-site consultation, to full lifecycle support including JDN original spare parts availability, J.D. Neuhaus guarantees maximum performance, safety and reliability.

Upgrade your equipment portfolio with the JDN PROFI series air hoist. Experience the perfect blend of safety, precision and durability. Elevate your operations and trust in a brand committed to your success.

Choose JDN PROFI. Choose permanent excellence.

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 since 1745.

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 and actions are guided by our vision: We are helping people to move loads in a digitized and sustainable world.







APPLICATIONS – LIFTING IN VARIOUS INDUSTRIES

Renowned for its exceptional performance and reliability, the PROFI series excels across a wide range of industries. In shipyards, it plays a crucial role in precisely installing massive and heavy propellers on the world's largest ships, ensuring these giants of the sea are ready for their voyages. In the chemical and pharmaceutical industries, our customers rely on the PROFI series to safely and efficiently lift loads in explosive and humid environments where high cleanliness is required.

On offshore platforms, the PROFI series is indispensable for lifting loads in topside environments, withstanding direct environmental challenges such as harsh weather conditions, saltwater, and explosive atmospheres. In the construction sector, it is highly valued not only for its impressive lifting capacity of up to 100 tons but also for its robustness and mobility, making it an essential tool in tunnelling and bridge building.

In heavy industries such as foundries, the PROFI series is a global favourite, effortlessly handling extreme temperatures and dusty environments with ease. Additionally, in diverse industries like the battery industry, our customers have customized their lifting solutions with unique innovations based on the PROFI series, showcasing the engineering and innovation skills of the JDN team.

No matter the challenge, the PROFI series rises to the occasion, delivering outstanding performance in the most demanding applications. In all the industries it serves, the serviceability and low complexity of its design are among the strongest arguments for the JDN PROFI series.

Experience the PROFI series – engineered for permanent excellence in every industry.

COST EFFICIENT
thanks to easy maintenance

NO DOWNTIME
100% availability

EXPLOSION SAFE
for use in harzadous areas

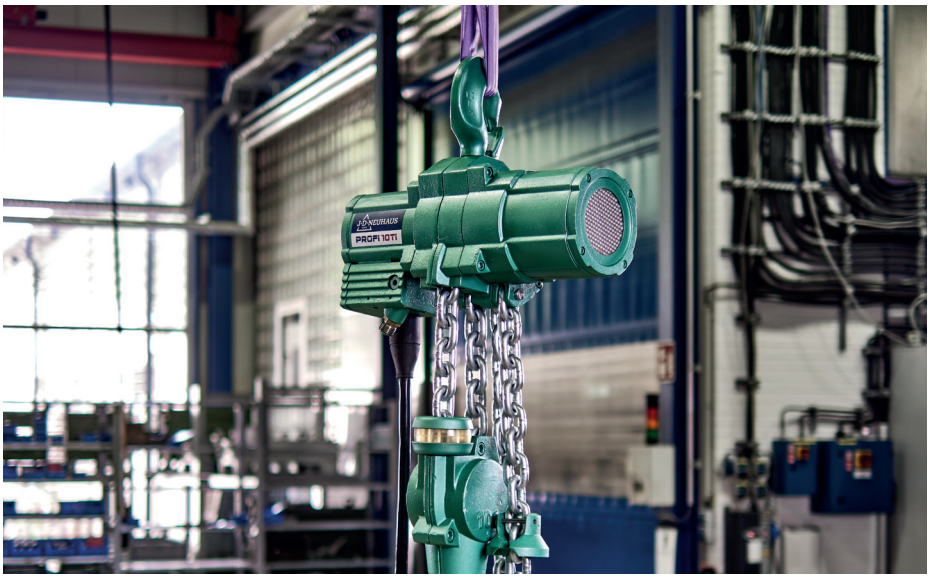
MAXIMUM SAFETY
in all areas of application

PRECISE
handling of loads

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	30	36	15	17.5	8.5	10	4.5	5
Lowering speed at rated load	m/min	30	38	14	16.5	8	9.7	4	4.8
Air consumption at rated load – lifting	m^3/min	1.1	1.7	1.1	1.7	1.1	1.7	1.1	1.7
Air consumption at rated load – lowering	m^3/min	1.3	1.9	1.3	1.9	1.3	1.9	1.3	1.9
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	4.4 - 6.8	2.2 - 3.4
Lifting speed without rated load	m/min	9.1 - 11.0	4.6 - 5.5
Lowering speed at rated load	m/min	12.2 - 13.5	6.0 - 6.7
Air consumption at rated load – lifting	m^3/min	1.8 - 3.2	1.8 - 3.2
Air consumption at rated load – lowering	m^3/min	2.5 - 4.1	2.5 - 4.1
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	5.0	1.2	2.5	0.8	1.6	0.5	1.0	0.4	0.7
Lifting speed without rated load	m/min	5.6	9.0	2.8	4.5	1.7	3.0	1.1	2.0	0.7	1.4
Lowering speed at rated load	m/min	5.2	8.4	2.6	4.2	1.5	2.8	1.0	1.9	0.7	1.4
Air consumption at rated load – lifting	m^3/min	2.2	4.0	2.2	4.0	2.2	4.0	2.2	4.0	2.2	4.0
Air consumption at rated load – lowering	m^3/min	3.0	4.5	3.0	4.5	3.0	4.5	3.0	4.5	3.0	4.5
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	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	1.20	1.00	0.75	0.70	0.55	0.45	0.53	0.40
Lifting speed without rated load	m/min	2.40	2.40	1.70	1.70	1.30	1.30	1.25	0.90
Lowering speed at rated load	m/min	2.80	2.80	1.90	1.90	1.50	1.50	1.25	0.90
Air consumption at rated load – lifting	m^3/min	6.5						7.6	
Air consumption at rated load – lowering	m^3/min	8.0							
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. Our sales, project management and service staff would be happy to help.

J.D. Neuhaus Group

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