

AIR HOISTS

JDN EXPLOSION PROTECTION

CLASSIFICATION AND MARKING

J·D·NEUHAUS
1745
permanent excellence

JDN EXPLOSION PROTECTION CLASSIFICATION AND MARKING



Hoists and cranes from J.D. Neuhaus have an unbeatable advantage over electricallydriven lifting equipment: Even the standard versions are suitable for use in explosionhazardous
areas.

If you have any questions about the topic of explosion protection, please contact our sales team. We will be happy to advise you.

WHAT EXACTLY DO THE MARKINGS MEAN?

II 3G Ex h IIB T4 Gc X
II 3D Ex h IIIB T130°C Dc X

MARKING FROM ATEX

Zone	Mining	0		1		2	
		Gas	Dust	Gas	Dust	Gas	Dust
Equipment group	I	II					
Equipment category	M1 or M2	1G	1D	2G	2D	3G	3D

IGNITION PROTECTION TYPE

Non-electrical explosion protection is always assigned the marking code "h" irrespective of the version. JDN uses constructive explosion protection.

EXPLOSION GROUP

Mining	Gas		Dust	
-	IIA	E.g. propane	IIIA	Flammable lint
	IIB	E.g. ethylene	IIIB	Non-conductive dust
	IIC	E.g. hydrogen	IIIC	Conductive dust

MAXIMUM SURFACE TEMPERATURE

Mining	Gases		Dusts
-	T1	450°C	T...°C
	T2	300°C	
	T3	200°C	
	T4	135°C	
	T5	100°C	
	T6	85°C	

For areas with a risk of dust explosion, the maximum permissible surface temperature of the device is specified explicitly; for areas with a risk of gas explosion, the maximum surface temperature is divided into a temperature class.

EQUIPMENT PROTECTION LEVEL „EPL“

Zone	Mining	0		1		2	
		Gas	Dust	Gas	Dust	Gas	Dust
EPL	Ma or MB	Ga	Da	Gb	Db	Gc	Dc

ADDITIONAL MARKING

The additional marking "X" refers to particular operating conditions that are

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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