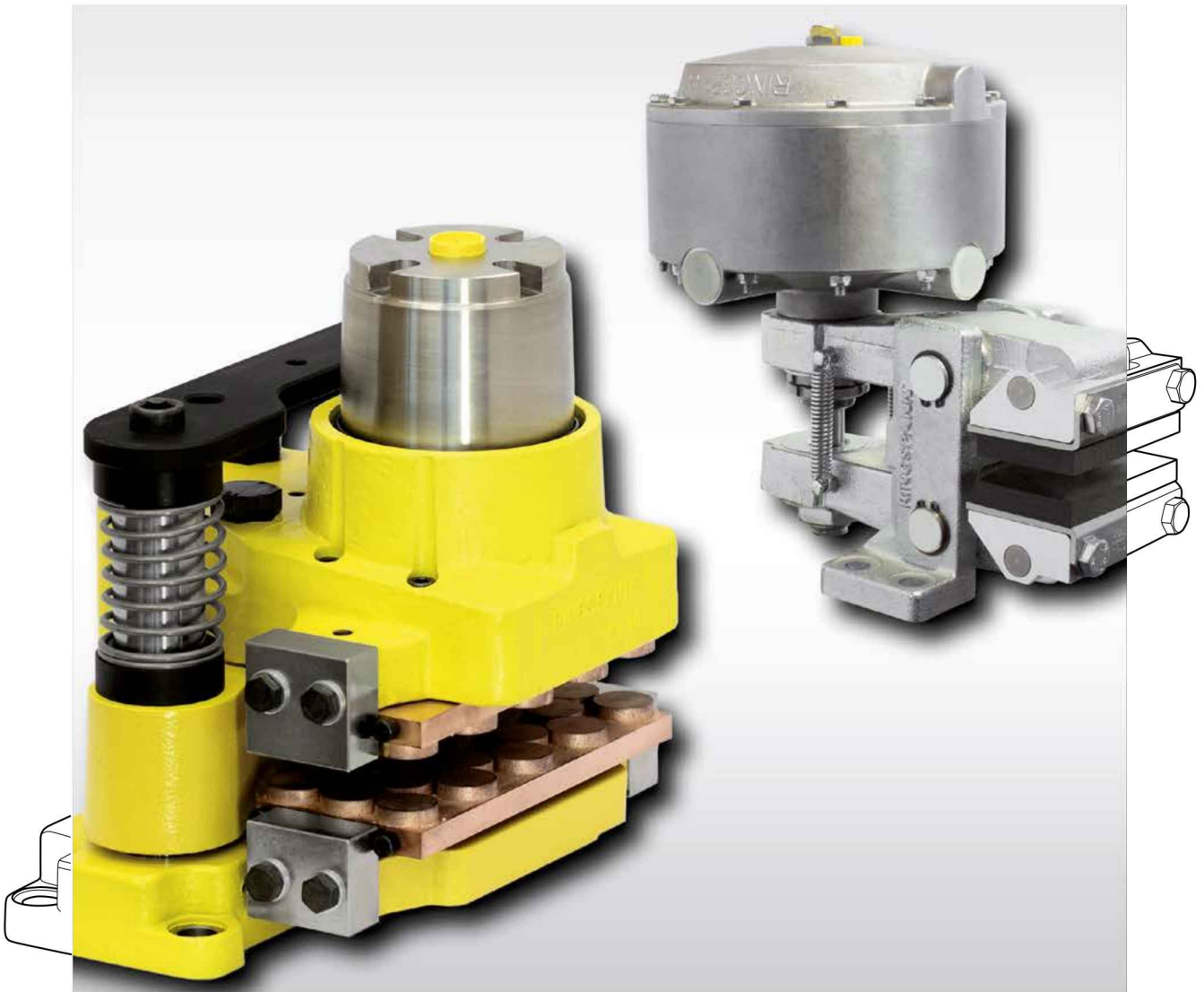


Industrial Brakes

Brake Calipers • Clamping Units



Edition 2025/2026

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Type	Design: S = Disc Brake		Braking torque* [Nm]					Type of mounting brake at machine		Adjustment in case of friction block wear		Page
			10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	Parallel to brake disc	At right angles to brake disc	Manual	Auto- matic	
Brake Calipers											spring activated – pneumatically released	
DH 010 FPM	S		10 - 50									9
DV 020 FPM / DH 020 FPM	S		97 - 650									10
DH 025 FPM	S		240 - 1900									12
DH 025 FPA	S		150 - 1700									14
DV 030 FPM / DH 030 FPM	S		270 - 2500									16
DV 030 FPA / DH 030 FPA	S		150 - 2500									20
DV 035 FPM / DH 035 FPM	S		430 - 5750									24
DV 035 FPA / DH 035 FPA	S		230 - 5450									28
DU 060 FPM	S		2700 - 38500									32
Brake Calipers											spring activated – hydraulically released	
DV 020 FHM / DH 020 FHM	S		200 - 650									34
DV 030 FHM / DH 030 FHM	S		620 - 2000									36
DV 030 FHA / DH 030 FHA	S		620 - 2000									38
DV 035 FHM / DH 035 FHM	S		1500 - 4700									40
DV 035 FHA / DH 035 FHA	S		1500 - 4700									42
DU 060 FHM	S		2700 - 38500									44
Brake Calipers											spring activated – manually released	
DV 020 FKM / DH 020 FKM	S		160 - 510									46
Brake Calipers											pneumatically activated – spring released	
DH 005 PFK	S		0,5 - 15									49
DH 010 PFK	S		3 - 80									50
DH 015 PFK	S		17 - 430									51
DV 020 PFK / DH 020 PFK	S		25 - 650									52
DH 025 PFM	S		55 - 2600									54
DV 030 PFM / DH 030 PFM	S		55 - 2600									56
DV 035 PFM / DH 035 PFM	S		89 - 5100									60
DU 060 PFM	S		371 - 26900									64
Brake Calipers											manually activated – manually released	
DH 010 MSM	S		20 - 75									67
DV 020 MSM / DH 020 MSM	S		160 - 520									68
DV 020 MKM / DH 020 MKM	S		20 - 600									70
Brake Calipers											spring activated – electromagnetically released	
DH 012 FEM	S		110 - 340									72
DV 020 FEM	S		190 - 630									73
EV 018 FEM / EH 018 FEM	S		100 - 400									74
EV 024 FEM / EH 024 FEM	S		400 - 1160									76
EV 028 FEM / EH 028 FEM	S		940 - 2580									78
EV 038 FEM / EH 038 FEM	S		2830 - 6590									80
Brake Calipers											electromagnetically activated – spring released	
EV 018 EFM / EH 018 EFM	S		100 - 400									82
EV 024 EFM / EH 024 EFM	S		440 - 1270									84
EV 028 EFM / EH 028 EFM	S		1170 - 3220									86
EV 038 EFM / EH 038 EFM	S		3400 - 7910									88

* The braking torques relate to the standard brake discs shown in this catalogue. Higher braking torques are possible by the use of several brake calipers or larger brake disc diameters.

Type	Design: S, X = Disc Brake T = Drum Brake R = Rail Brake	Braking torque* [Nm]					Type of mounting brake at machine		Adjustment in case of friction block wear		Page
		10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	Parallel to brake disc**	At right angles to brake disc**	Manual	Auto- matic	
Brake Calipers spring activated – hydraulically released											
HS 075 FHM	S	1 500 - 40 500									90
HW 075 FHM	S	1 500 - 40 500									92
HS 120 FHM	S	8 400 - 182 400									94
HW 120 FHM	S	8 400 - 182 400									96
HS 145 FHM-270 ... - ...	S	54 900 - 403 200									98
HW 145 FHM	S	54 900 - 403 200									102
HS 165 FHM-420 ... - ...	S	97 700 - 631 000									104
HW 165 FHM	S	97 700 - 631 000									108
HS 215 FHM-560 ... - ...	S	164 400 - 831 100									110
HW 215 FHM	S	164 400 - 831 100									114
Brake Calipers hydraulically activated – non-releasing											
HI 180 HUK	S	15 230 - 325 000									116
HW 180 HUK	S	15 230 - 325 000									118
Brake Calipers hydraulically activated – spring released											
HW 040 HFA	S	84 - 1 200									120
HW 063 HFA	S	320 - 4 700									121
HS 075 HFK	S	740 - 40 500									122
HW 075 HFK	S	740 - 40 500									124
HW 100 HFA	S	1 300 - 18 400									126
HS 120 HFK	S	4 400 - 197 600									128
HW 120 HFK	S	4 400 - 197 600									130
HW 180 HFA	S	10 000 - 153 500									132
Brake Calipers spring activated – electrohydraulically released											
DS 160 FEA	S	200 - 600									134
DS 230 FEM / DS 230 FEA	S	250 - 1 600									136
DX 230 FEA	S	400 - 6 200									140
DS 280 FEM / DS 280 FEA	S	1 200 - 8 100									142
DX 280 FEA	S	1 400 - 28 100									146
DS 370 FEM / DS 370 FEA	S	2 950 - 22 400									148
Brake Calipers spring activated – electrohydraulically released											
DT 200 FE NC	T	230 - 310									152
DT 200 FEA ... ST	T	250 - 330									156
DT 250 FE NC	T	260 - 700									158
DT 250 FEA ... ST	T	300 - 750									162
DT 315 FE NC	T	285 - 1 700									164
DT 315 FEA ... ST	T	350 - 1 800									168
DT 400 FE NC	T	525 - 2 075									170
DT 400 FEA ... ST	T	680 - 2 500									174
DT 500 FE NC	T	2 500 - 4 170									176
DT 500 FEA ... ST	T	1 600 - 5 120									180
DT 630 FEA ... ST	T	3 100 - 7 200									182
Rail Brake spring activated – hydraulically released											
HR 130 FHK	R	110 000									184
HR 185 FHK	R	300 000									186
Rail Clamp spring activated – hydraulically released											
DR 085 FHK	R	400 000									188
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Clamping Units spring activated – hydraulically or pneumatically released											
KE ... FHK											204
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* The braking torques relate to the standard brake discs shown in this catalogue. Higher braking torques are possible by the use of several brake calipers or larger brake disc diameters.

** Parallel or at right angles to the rail - *** Specified in braking force [N]

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DH 010 FPM	DV 020 FPM / DH 020 FPM	DH 025 FPM	DH 025 FPA	DV 030 FPM / DH 030 FPM	DV 030 FPA / DH 030 FPA	DV 035 FPM / DH 035 FPM	DV 035 FPA / DH 035 FPA
							
DU 060 FPM	DV 020 FHM / DH 020 FHM	DV 030 FHM / DH 030 FHM	DV 030 FHA / DH 030 FHA	DV 035 FHM / DH 035 FHM	DV 035 FHA / DH 035 FHA	DU 060 FHM	DV 020 FKM / DH 020 FKM
							
DH 005 PFK	DH 010 PFK	DH 015 PFK	DV 020 PFK / DH 020 PFK	DH 025 PFM	DV 030 PFM / DH 030 PFM	DV 035 PFM / DH 035 PFM	DU 060 PFM
							
DH 010 MSM	DV 020 MSM / DH 020 MSM	DV 020 MKM / DH 020 MKM	DH 012 FEM	DV 020 FEM	EV 018 FEM / EH 018 FEM	EV 024 FEM / EH 024 FEM	EV 028 FEM / EH 028 FEM
							
EV 038 FEM / EH 038 FEM	EV 018 EFM / EH 018 EFM	EV 024 EFM / EH 024 EFM	EV 028 EFM / EH 028 EFM	EV 038 EFM / EH 038 EFM			
							
HS 075 FHM	HW 075 FHM	HS 120 FHM	HW 120 FHM	HS 145 FHM-270 R-V	HS 145 FHM-270 ... -H	HW 145 FHM	HS 165 FHM-420 R-V
							
HS 165 FHM-420 ... -H	HW 165 FHM	HS 215 FHM-560 R-V	HS 215 FHM-560 ... -H	HW 215 FHM	HI 180 HUK	HW 180 HUK	
							
HW 040 HFA	HW 063 HFA	HS 075 HFK	HW 075 HFK	HW 100 HFA	HS 120 HFK	HW 120 HFK	HW 180 HFA
							
DS ... FEM / DS ... FEA	DX ... FEA	DT ... FEM ... NC / DT ... FEA ... NC	DT ... FEA ... ST	HR 130 FHK	HR 185 FHK	DR 085 FHK	DR 088 FHK

Brake Calipers Accessories

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Online Calculation Tool Brakes at www.ringspann.com

The RINGSPANN Calculation Tool has been developed to work out the right and time-efficient dimensioning of an optimal brake.

- Calculation Tool for the calculation of braking torque or braking force during deceleration, control and holding
- Mass calculation of simple bodies
- Moment of Inertia
- Downloading of relevant product information
- Downloading of CAD models



No Drives without Disc Brakes

For a long time now Disc Brakes have been tried and tested in the aviation and automotive industry, and increasing awareness of opera-

tional safety and ever stricter rules on accident prevention have made them indispensable. After all, wherever there is acceleration, there

must also be braking. A reliable and economic solution to these problems are RINGSPANN Disc Brakes.

Advantages of RINGSPANN Disc Brakes

The following features make the RINGSPANN Disc Brakes unique:

- The well thought-out design of RINGSPANN Disc Brakes permits a **simple and space-saving arrangement**, even in existing installations.
- The open design of the RINGSPANN Disc Brakes with their excellent ventilation characteristics provides **ideal heat dissipation**; this is a precondition for high braking power with a compact design.

- Highly wear-resistant friction material and large braking surfaces ensure long intervals between maintenance. The practical and robust design of RINGSPANN Disc Brakes makes that **maintenance easy and uncomplicated**. The friction pads are easily replaced without the need to remove the brake.

- RINGSPANN Disc Brakes are fitted with **swivel mounted friction blocks**; this ensures that the friction blocks are always in full face contact with the brake disc. When the brake is released, the friction blocks are lifted safely off the disc by a spring, irrespective of the installation arrangement.

For each Application the right Solution

RINGSPANN Disc Brakes require minimal installation space. Brake Calipers or Brake Saddles may be arranged in any position on brake discs of varying diameters. By using several Brake Calipers on the same disc it is possible to increase the braking torque without the need to enlarge the installation space.

The universal concept of the RINGSPANN Disc Brake fulfils various functions:

- **Stopping brake**
- **Control brake**
- **Holding brake**

As a **stopping brake**, it brings a rotating shaft to a standstill in a short time, for example during a power failure or an emergency stop.

As a **control brake**, it effectively maintains material tension.

As a **holding brake**, it prevents the unintended start of a stationary shaft.

The Product Range

RINGSPANN offers a comprehensive range of Disc Brakes:

- **Spring activated Brake Calipers**; release is either pneumatic, hydraulic, electromagnetic or manual by means of a pull cable

- **Pneumatically activated Brake Calipers**; spring released
- **Manually activated Brake Calipers**; manually released with a hand wheel or a pull cable

- **Hydraulically activated Brake Calipers**; spring released
- **Spring activated Clamping Unit**; hydraulically or pneumatically released

Accessories

Accessories are available for special applications:

- Two standard types of **brake discs** are available with diameters ranging from 125 mm up to 1 000 mm
- All brakes can be supplied with an **electric indicator for friction block wear**
- Inductive proximity switches for **monitoring the operating condition** "brake released" are available

- To prolong the operating life, **friction blocks with double the friction surface** are available for Brake Calipers sizes 12, 15, 20 and 30
- **Special friction linings** are available for special requirements

Amusement rides

Assembly stations

Belt conveyors

Construction machines

Cranes

Drive units

Elevators and escalators

Extruder, machines for rubber and plastics

Fans and ventilators

Foundry machines

Machines for food industry

Packaging machines

Paper machines

Printing machines

Ship drives

Shredders

Steel mills

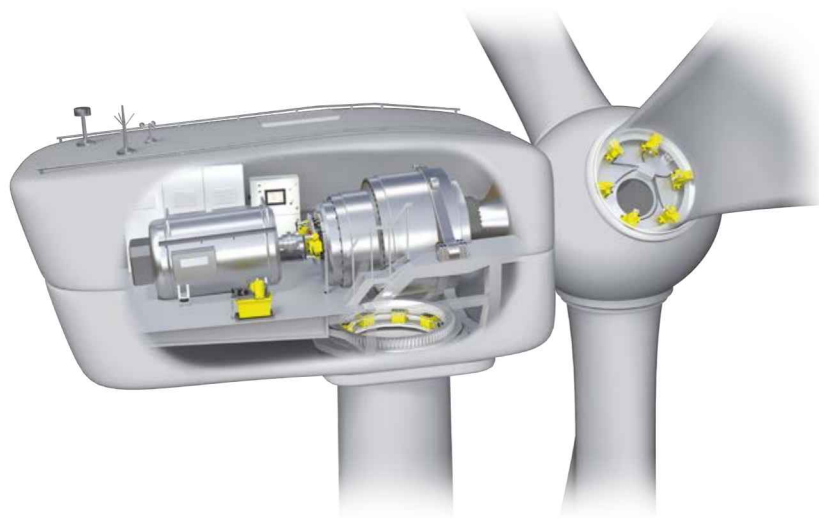
Stranding lines

Test benches

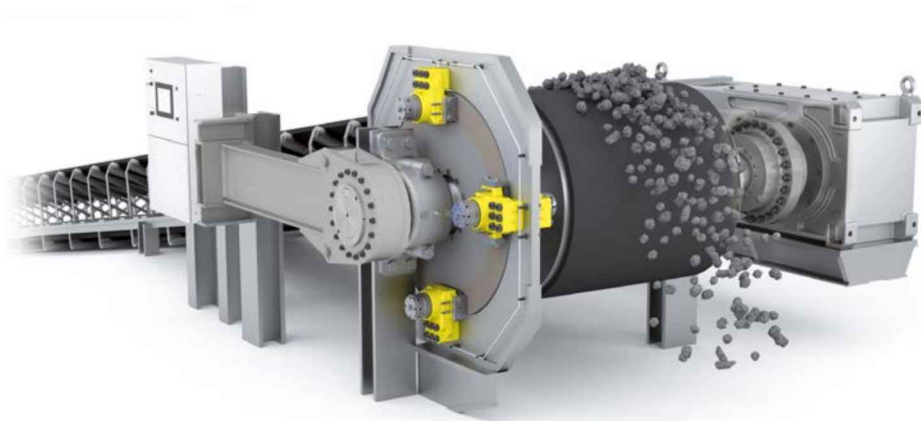
Textile machines

Wind turbines

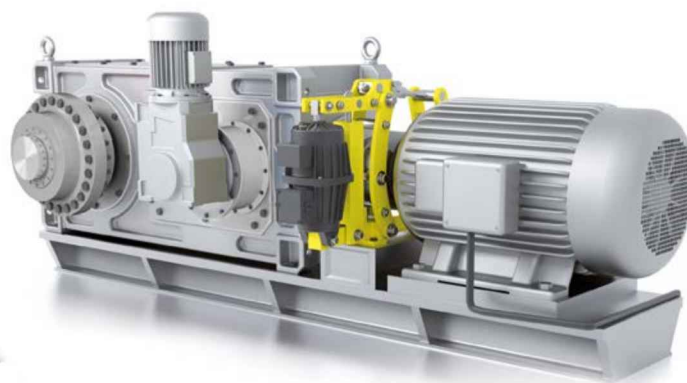
Wire and tube machines



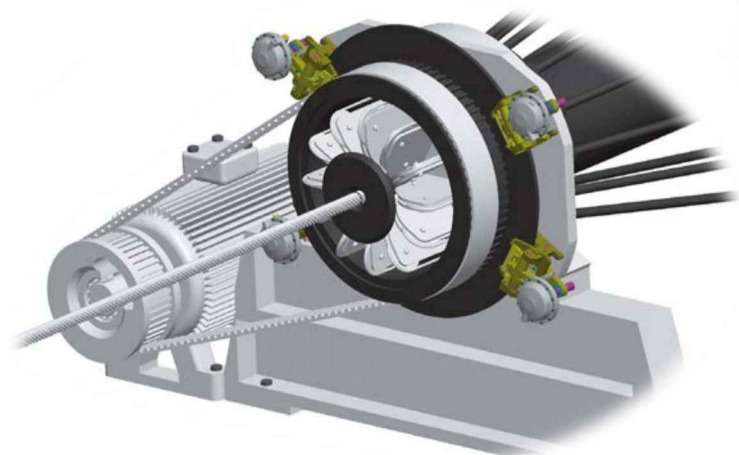
Wind turbines



Belt conveyors



Drive units



Stranding lines