

Disc Brake DX 280 FEA

spring activated – electrohydraulically released



Features	Code
Brake Caliper	D
Disc Brake	X
Frame size 280	280
Spring activated	F
Electrohydraulically released	E
Automatic adjustment to accommodate friction block wear	A
Thrusters 459, 463, 464 or 475 are available	459 to 475
Thruster 475 is optionally available with a push force of 4 500 N (H) or 5 500 N (J)	H J

Example for ordering

Disc Brake DX 280 FEA, thruster 459:

DX 280 FEA - 459

Technical Data

Brake disc diameter mm	Disc Brake DX 280 FEA									
	with thruster 459		with thruster 464		with thruster 463		with thruster 475 H		with thruster 475 J	
	Braking torque		Braking torque		Braking torque		Braking torque		Braking torque	
	min. Nm	max. Nm	min. Nm	max. Nm	min. Nm	max. Nm	min. Nm	max. Nm	min. Nm	max. Nm
500	1700	3400	3000	6000	-	-	-	-	-	-
560	1900	3900	3500	7000	-	-	-	-	-	-
630	2200	4500	4000	8100	-	-	-	-	-	-
710	2600	5300	4700	9400	7600	15300	1400	15300	9400	18800
800	3000	6100	5400	10800	8800	17600	1600	17600	10800	21700
900	3500	7000	6200	12400	10100	20200	1800	20200	12400	24900
1000	3900	7900	7000	14000	11400	22800	2100	22800	14000	28100
Clamping force	22500 N		40000 N		65000 N		65000 N		80000 N	
Push force thruster	2000 N		3000 N		4500 N		4500 N*		5500 N*	
Weight of thruster	52 kg		52 kg		52 kg		31 kg		31 kg	
Weight of brake without thruster	220 kg		220 kg		220 kg		220 kg		235 kg	

The braking torques shown in the table are based on a theoretical friction coefficient of 0,4. Braking torques are based on optimum conditioned friction partners.

* adjusted to nominal value

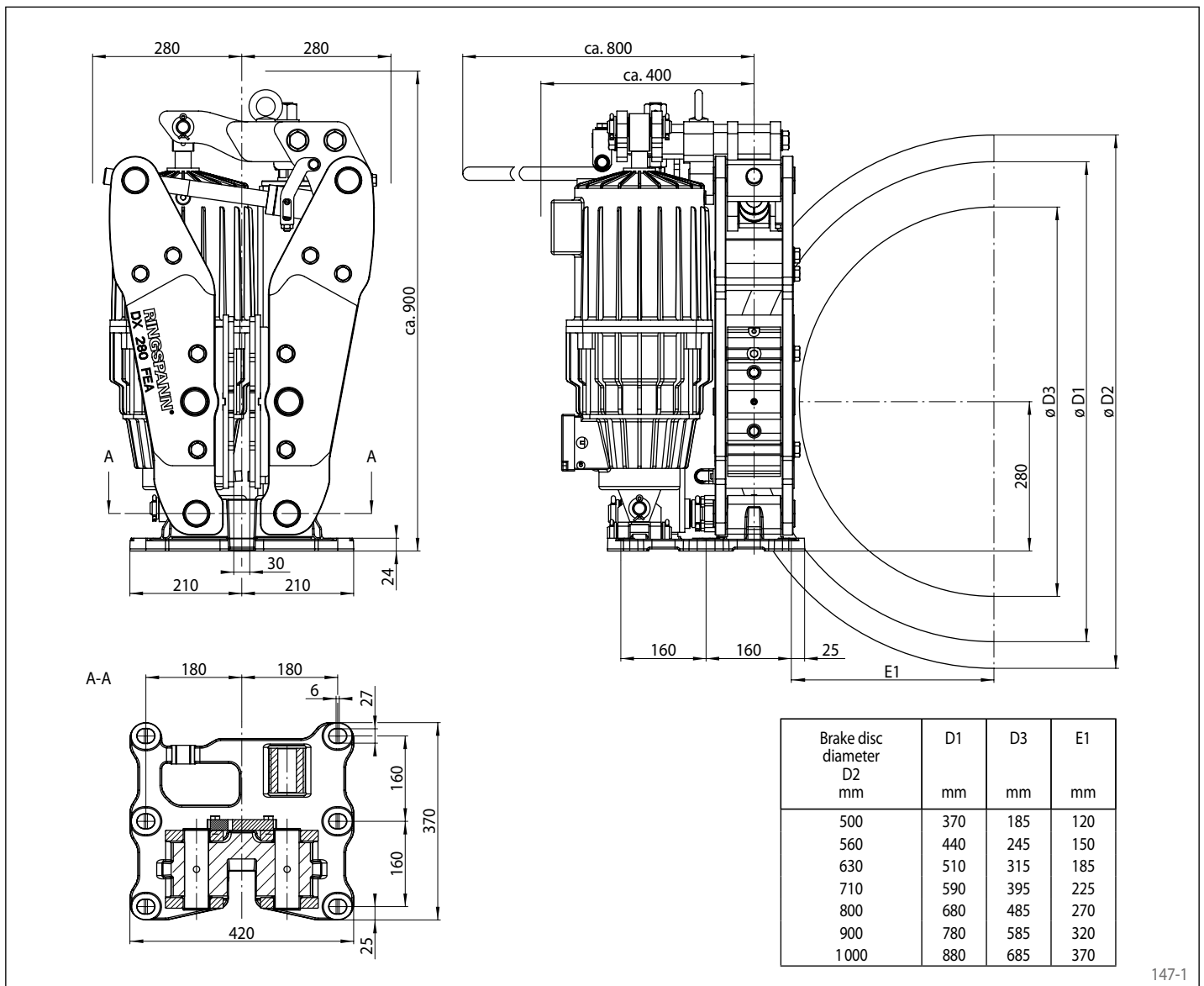
Technical description

The RINGSPANN DX brakes are mainly used as holding or emergency stop brakes at high circumferential speeds and a high number of switching cycles.

When the power supply is switched off or in the event of a power failure, the brakes close automatically by spring force. The brakes are opened with the help of an electrohydraulic thruster.

Typical applications are hoists and travel drives for cranes, conveyor belt and bucket wheel drives.

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147-1

Other features

- Maintenance-friendly steel lever design
- Easy and robust brake alignment and adjustment
- Automatic wear compensation unit
- Self-centering device for equal air gap on both sides between brake lining and brake disc
- Parallel air gap with brake open
- Bolts and tension rods made of stainless steel
- Maintenance free self-lubricating bushings
- Continuous adjustable spring tube unit
- Asbestos free sinter brake linings
- Ambient temperature: -20° to +70° C
- Standard power connection: 3-phase 400VAC/50Hz

Options

- Switching sensors for status signals: "brake open", "brake closed", "brake lining wear limit" and "manual release activated"
- Linear position sensor for monitoring the opening and reserve stroke
- PT100 temperature sensors for monitoring the brake lining temperature
- DMS load measuring cell for monitoring the clamping force
- Terminal box for sensor connection
- Eccentric manual release
- Maritime version (C5-M/CX)
- Special versions for low or high ambient temperatures
- Thrusters with internal lifting and lowering valves
- Thrusters in explosion-proof design
- Power connections 3-phase 200-800VAC 50/60Hz
- Other brake disc thicknesses on request