



*your reliable partner*

## ROBA-stop®

**Electromagnetic  
Safety Brakes**



## Your Advantages When Using ROBA-stop®

ROBA-stop® brakes attract customers because of their decided advantages in relation to operational safety and ease of maintenance.

For most applications, the enclosed structural shape can provide high functional brake safety without requiring additional protective measures.

The product's high reliability further improves the functional safety and increases the efficiency of the entire machine or system in which it is used.

The sensitive braking torque adjustment shows its value when exact positioning is required or when drives are to be adapted to changing production procedures. It simplifies production procedure optimization immensely, increases production, maximises flexibility and improves product quality.

A further, outstanding characteristic of the ROBA-stop® brake is the central wear re-adjustment. This minimises the danger of adjustment errors, simplifies maintenance, saves time and maintenance costs and therefore also reduces machine downtimes.

## Your Customized Solution - Our Universal Brake



### Regular braking times

Friction linings with a large surface area for high wear reserves and a long service lifetime

### Fast wear re-adjustment

Fast, easily readable central wear re-adjustment

Small structural dimensions with high braking torques

### Completely enclosed design

Protection (electrical) IP54

Magnetic coil with class of insulation F

Different armature disks to meet different friction work demands and switching time requirements

Simple and problem-free brake installation

Mounting possible without time-consuming adjustments

Minimum torsional backlash between hub and rotor due to accurate toothing

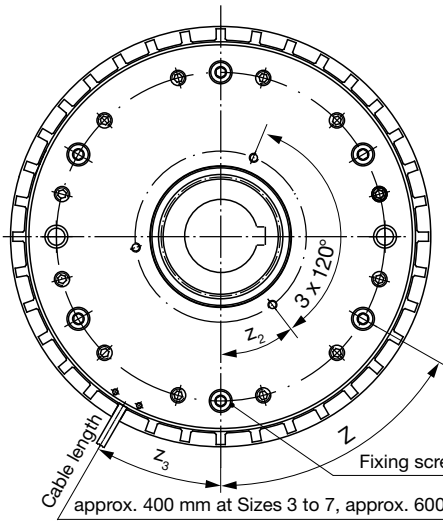
### Sensitive adjustment of the holding point

via set screws make customized adaptations for different applications possible

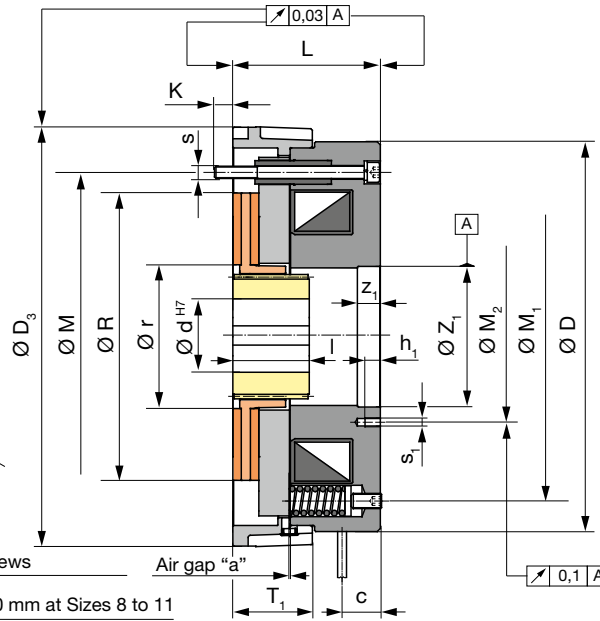
Safe braking torque transmission via a metal rotor with a very low mass moment of inertia

No self-turning and therefore no inadvertent alteration of the air gap, meaning constant positioning accuracy

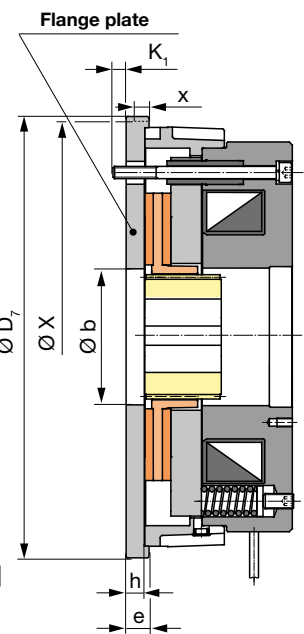
**ROBA-stop® - tacho brake**  
**Type 83\_41\_**  
**Sizes 3 – 11**



**Type 83\_410.3**  
without additional parts



**Type 83\_411.3**  
with flange plate



Technical Data			Size								
			3	4	5	6	7	8	9	10	11
Braking torque <sup>1)</sup>	M <sub>N</sub>	[Nm]	3	6	12	26	50	100	200	400	800
Electrical power	P <sub>20</sub>	[W]	17	24	33	50	70	87	102	134	196
Max. speed <sup>2)</sup>	n <sub>max</sub>	[rpm]	6000	5000	4800	4000	3800	3400	3000	3000	3000
Weight		[kg]	0,6	0,95	1,8	3,1	5,4	9,4	15,5	30	55



The tacho brake has a fixed distance ring as well as a centering recess and three tapped holes on the rear side of the coil carrier. The centering recess is centered with the outer diameter of the distance ring.

The tacho-generator, the encoder or other components can be mounted via an intermediate flange. This flange must be manufactured according to the connection dimensions of the brake and the components, which are to be mounted.

When selecting a component to be mounted, the technical parameters and influences of the brake, such as the speed, the steady-state temperature, stray magnetic fields around the brake etc., must be taken into consideration by the customer.

The brake can easily be connected to a DC voltage supply via our comprehensive range of electrical accessories (see pages 33 – 38).

**Order Number**

Size	Standard armature disk	Fast acting armature disk	Without additional parts	Flange plate	Hand release <sup>3)</sup>	Flange plate/hand release <sup>3)</sup>	Terminal box with terminal Cable	Terminal box with half-wave rectifier	Terminal box with bridge rectifier	Terminal box with spark quenching unit	Voltage <sup>4)</sup> [VDC]	Bore $\varnothing d^{H7}$	Keyway acc.
3	0	2	0	1	3	5	1	3	4	5	± 10 %	(Dimensions page 13)	DIN 6885/1
4											24		DIN 6885/2
5											104		DIN 6885/3
6											180		
7											207		
8													
9													
10													
11													

Example: 6 / 830.410.3 / 104 / 20 / 6885/1