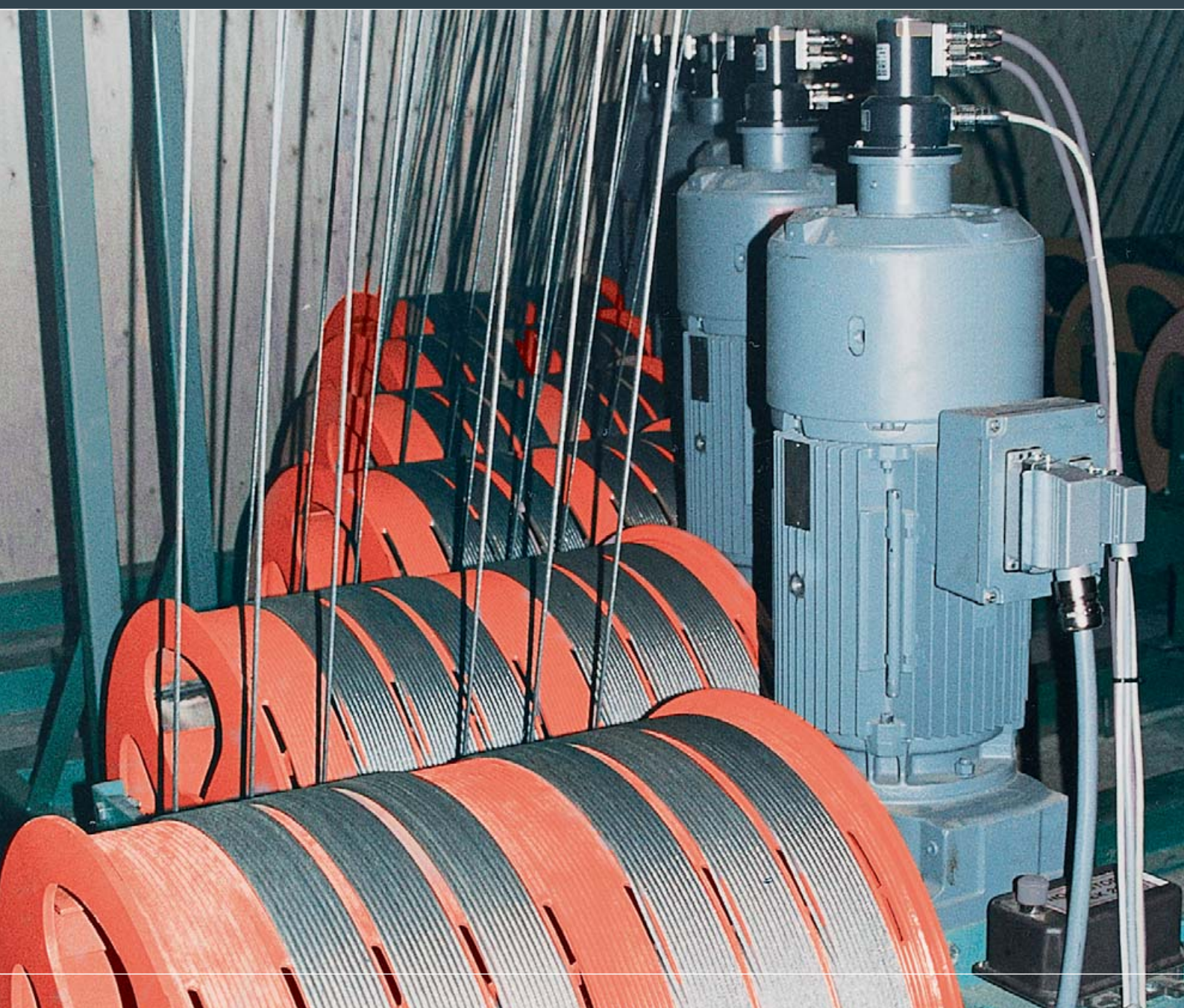


Quiet, reliable and safe –
Safety-oriented stage brake

BMG.T double disc brake



Safety in the theater – from the beginning

Imagine yourself in a theater with the lights dimmed: You are sitting in your seat waiting for the show to begin. The curtain opens without making any noise, as though it is moving on its own; the actors appear on stage; parts of the stage and the decoration are moving about noiselessly and all of a sudden you are a part of the action on stage!

The drive components acting in the background are performing in their quiet, reliable and safe manner. Man and machine are working side-by-side in a theater without there being a chance for keeping a safe distance from each other. The actors are moving or floating on parts of the stage and the entire scenery is changing from one act to the next. This means safety aspects are particularly important and necessary in theaters.

Expertise and support from the very beginning

SEW-EURODRIVE is not only the best supplier of TÜV tested and certified drive components, such as the BMG.T double disc brake, we are also your competent partner when it comes to project planning and startup.

Besides taking into consideration

- mounting positions
- environmental conditions, such as temperature, dust or vapors,
- assembly instructions, including those listed in the DIN, EN and BG guidelines,
- as well as information on surface and anti-corrosion protection required by system operators or designers,

complete and tested project planning is absolutely necessary to implement the high safety requirements for theater operations. You will find more information on product and safety-oriented project planning of stage drives including the stage brake at www.sew-eurodrive.de (Topic: Documentation / Motors / Latest News) to ensure that all project-related issues concerning your application will be taken into consideration.



Curtain up – quietly please



In addition to reliability and safety, minimum noise is a basic requirement for all drive components used in mobile flying equipment or rigging systems operated in theaters. This is the reason SEW-EURODRIVE has continued developing the brake for use in theaters based on the brakes of the proven BM and BMG series. The result: the quiet and absolutely reliable BMG.T double disc brake, tested and certified by the TÜV (German Technical Control Board).

The BMG.T brake series incorporates a double disc brake with the patented two-coil system. This combination ensures the transmission of the correct amount of braking torque to the rotating motor shaft by two brake discs. The selection, sizing and project planning ensures that there is always sufficient braking torque to safely stop the driving gear.



The BMG.T double disc brake is only one of many components incorporating the aspects of safety technology.

Only in combination with the remaining drive components can it meet the requirements of safe driving gear according to DIN 56921 or DIN 56925. No problem for products of the SEW-EURODRIVE modular system: Here you will definitely find the right components for your application – perfectly in tune with each other and definitely safe:

- BMG.T double disc brake available in four sizes
- Motors from SEW-EURODRIVE are available at reduced power ratings without fans for operation with even less noise
- Speed feedback use of an AV6H multiturn encoder with Hiperface® is possible
- MOVIDRIVE® MDX60 drive inverters with safe stop for installation in control cabinets – disconnection for safety category 3 to EN 954-1
- Drive components of the decentralized drive system according to safety category 3 meeting EN 954-1, such as MOVIMOT®, the gearmotor with integrated frequency inverter



Driving the world – with innovative and safe drive solutions for theater applications. Products and systems from SEW-EURODRIVE for any application – worldwide. The decision to use drive technology „made by SEW-EURODRIVE“ stands for safety regarding functionality and investment.



Permitted braking and load torques as well as brake rectifiers

Brake size	For motor size	Maximum braking torque	Permitted maximum load torque to maximum braking torque	Alternative braking torque	Permitted maximum load torque to alternative braking torque	Brake rectifier in	
		[Nm]	[Nm]	[Nm]	[Nm]	Terminal box	Control cabinet
BMG4T	DT90	20	6.5	–	–	I: BG or BGE	III: BMS or BME or BMP
	DV100	40	13	20	6.5	II: BS or BSG	IV: BS or BSG
BMG8T	DV112M	37	12	–	–	I: BGE II: BSG	III: BME or BMP IV: BSG
	DV132S	75	25	37	12		
BMG15T	DV132M	100	35	–	–		
	DV132ML	150	50	100	35		
	DV160M	150	50	100	35		

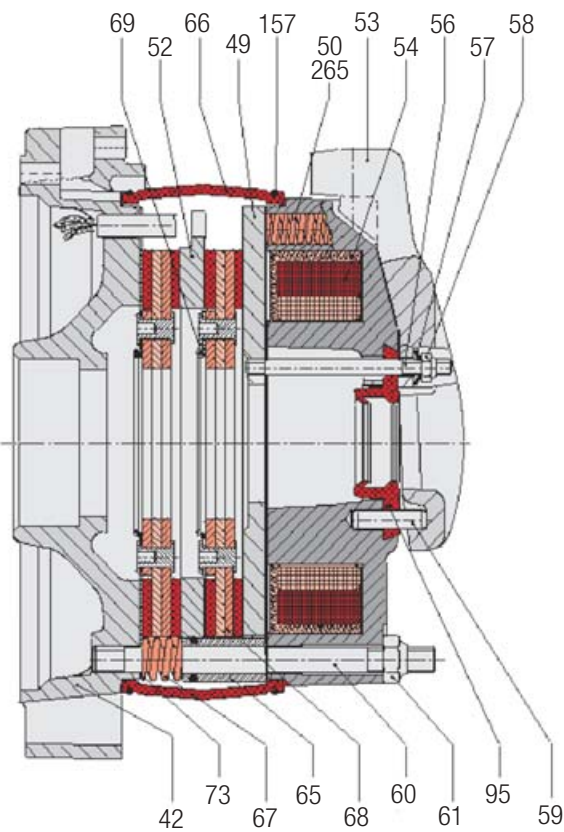


Special safety requirements for all components must be met in applications with a potential risk of injuries, such as:

- DIN 56921-11 (rigging systems)
- DIN 56925 (mobile flying equipment)
- EN 954-1: 1997 – 03, category 3
- BGV C1: 1998 – 04

The BMG.T brake for applications in theaters was certified by the Rheinisch-Westfälischen Technischen Überwachungs-Verein e.V. (RW-TÜV).

Sectional view of the BMG.T brake



Number	Description
42	Brake end shield
49	Pressure plate
50	Brake spring
52	Brake stationary disc
53	Manual brake release lever
54	Brake coil body, complete
56	Stud
57	Conical coil spring
58	Hex nut
59	Dowel pin
60	Stud
61	Hex nut
65	Pressure ring
66	Rubber sealing collar
67	Counter spring
68	Complete brake disc
69	Annular spring
73	Stainless steel shim plate
95	Sealing washer
157	Clamping strap
265	Brake spring



How we're driving the world

With people who think fast and develop the future with you.

With a worldwide service network that is always close at hand.

With drives and controls that automatically improve your productivity.

With comprehensive knowledge in virtually every branch of industry today.

With uncompromising quality that reduces the cost and complexity of daily operations.



SEW-EURODRIVE
Driving the world

With a global presence that offers responsive and reliable solutions. Anywhere.

With innovative technology that solves tomorrow's problems today.

With online information and software updates, via the Internet, available around the clock.

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