



The company

SITEMA
Expertise in Safety

We are the specialists

SITEMA is the only company in the world specializing in the development and production of clamping devices and linear brakes on round rods. The consequence of that specialization: SITEMA is an internationally respected partner to machinery manufacturers. We are experts in securing, clamping, holding and emergency braking loads in axial motion. It is a field in which we have been a leading brand name for many years, particularly with our SITEMA Clamping Heads. Alongside our broad product portfolio, we offer unique consulting and solution-delivering expertise to meet any challenge.

Our values reinforce trust

“Fulfilling the quality expectations of our customers is the top priority in all corporate processes.” That core tenet of our philosophy demonstrates: Quality is a fundamental principle to which we are committed.



THINK ELECTRIC!

The electrical
Safety Brake KSE



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SITEMA
Expertise in Safety

KSE Safety Brake



- Securing suspended loads of up to one metric ton – purely electrically
- Securing or emergency braking is possible for any linear movement
- Also functional in purely electrical machine installations without pneumatics or hydraulics, for example AGVs, stand-alone solutions
- For applications in mechanical engineering, e. g. mounting systems, palletizers, handling, storage systems, portals
- Secures the load if the electrical supply is switched off or if a power failure occurs (“normally closed”)
- Electric power to keep the brake open ~ 15 W
- Operating state monitoring with proximity switches
- Safety concept certified by TÜV SÜD for up to PL_e in accordance with ISO 13849



- Clamping on a smooth, cylindrical rod
- Proven SiForce technology (long service life, safety factor 2 built in, protection against unintentional release)



Learn more!


- TÜV certificate for CE and UL conformity
- Proven clamping system, identical to the pneumatic series KSP. Therefore, very high B_{10D}-value according to ISO 13849
- Patented stop damper



The all-in-one SiBox solution:
Supply, control, monitoring,
protection



- Preconfigured pairing with SITEMA clamping head
- Can be used worldwide (input voltage 100-260 VAC)
- Patented internal safety concept with controlled shutdown in case of disruptions
- Patented internal energy management
- Very quick switching times due to active demagnetization
- Redundant release signals for a secure shutdown in the power path, spark suppression, switching frequency monitoring, EMC signal monitoring
- Installation on top hat rail (e.g. in control cabinet) or with adapter plate

	Type	Admissible load in kN	Holding force in kN	Ø rod in mm	External diameter in mm	Length in mm
	KSE 16	2.5	5	16	108	146.5
	KSE 22	10	20	22	132	180