



# Explosion protected boxes

in stainless steel 316 L



Series KE  
Zone 1 and 2, Zone 21 and 22

STAHL

ELECTROMACH



# Explosion protected boxes EExe

## Application

Explosionproof stainless steel enclosures series KE have been designed to be used under severe industrial applications in hazardous areas. They are highly corrosion resistant and meet the highest demands for water- and dustproof requirements. The enclosures are suitable for zone 1, zone 2, zone 21 and zone 22.

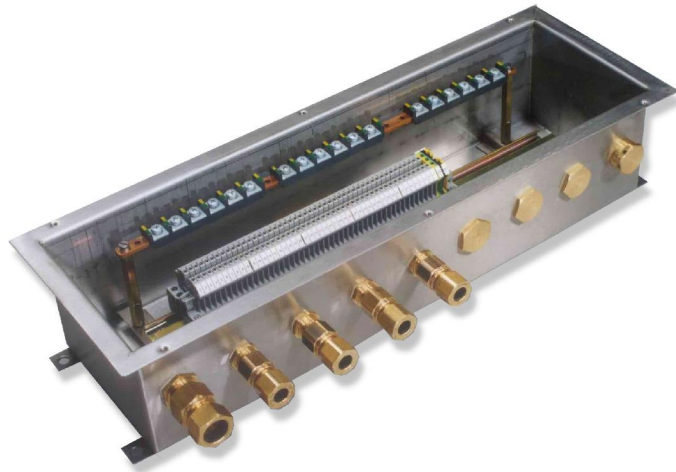
## Standard execution

The KE series enclosures is available in 3 versions, the KKE, BKE and LKE series.

**KKE:** Terminal boxes fitted with approved EExe terminals or blue EExi terminals for intrinsic safe circuits according to customer requirements.

**BKE:** Control- or distribution box foreseen with explosion protected components.

**LKE:** Enclosures for customer-built applications. They may be used as an instrument or apparatus box. Additional certification is required.



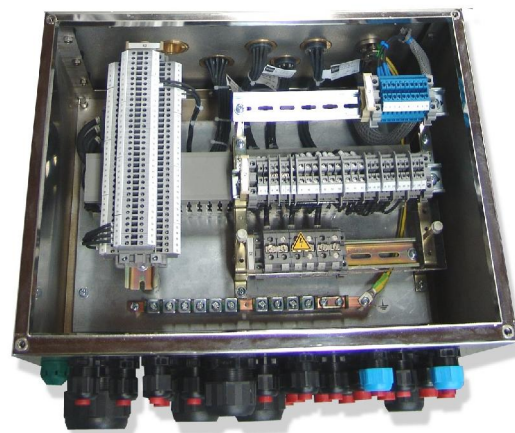
The boxes are available in several sizes, see the selection table.

## Features

- ATEX certified for gas- en dust explosion protection
- Enclosures are made of stainless steel 316L
- All enclosures are built according to customer specifications
- EEx ATEX certified components may be installed in BKE enclosures
- Enclosures are fully tested in our own ATEX certified facilities.





## General

Electromach has over 40 years of experience in supplying explosionproof equipment for the petrochemical and offshore industry and has an ATEX production quality assurance notification (KEMA 01 ATEX Q3201).





# Technical data

Type	KKE/BKE/LKE
Make	Electromach
Explosion protection (ATEX)	KKE:  II 2 GD EEx e II T6/T4 T 80°C...T 130°C  II 2 GD EEx ia/ib II T6 T80°C
	BKE:  II 2 GD EEx e II T6/T4 T 80°C...T 130°C
	LKE:  II 2 GD EEx e II
Test certificate	KKE: KEMA 03 ATEX 2139 BKE: KEMA 03 ATEX 2140 LKE: KEMA 03 ATEX 2138U
Ambient temperature	KKE/BKE Standard: - 20°C...+ 40°C (T6...T4) Special: - 33°C...+ 55°C (T5...T4)  LKE: Standard: - 33°C...+ 55°C
Degree of protection	For gas: IP 66 For dust: IP 6X According to EN-IEC-60529
Material	Stainless steel 316 L, thickness 1,5 mm Option: Stainless steel 304 or sheet steel epoxy powder coated
Gaskets	Neoprene
Cover	Bolted-on
Rated voltage	Max. 11 kV
External ground bolt	M6 (max. 35mm <sup>2</sup> ) / AWG 2 Option: 70 mm <sup>2</sup> / AWG 00
Terminals	KKE: max. 35 mm <sup>2</sup> / AWG 2 BKE: max 240 mm <sup>2</sup> / 500 mcm
Earth bar	Raised (mounted on studs)
Mounting lugs	External mounting lugs
Cable entries	Punched holes
Cable glands	EExe certified cable glands can be supplied
Breather/drain	When used outdoors, a breather/drain is strongly recommended to avoid condense water.

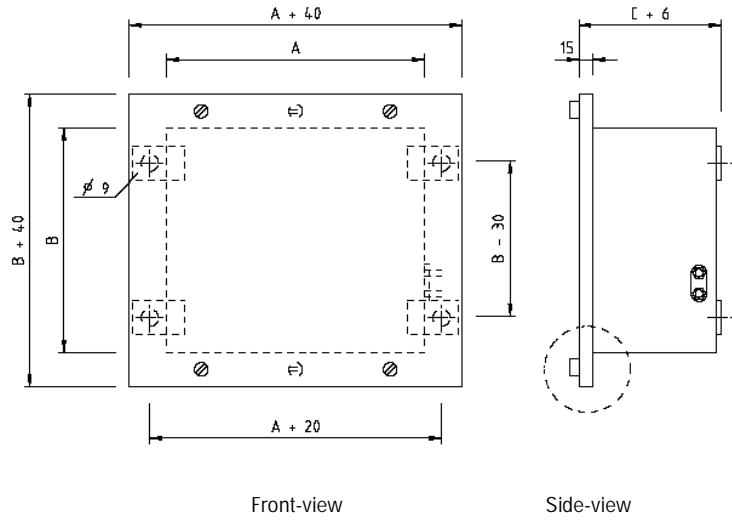


# Dimensional drawing

Selection table enclosures KE series

TYPE	DIMENSION [mm]			WEIGHT [kg]
	A	B	C	
. KE 101009	100	100	90	1,7
101509	150	100	90	1,81
151509	150	150	90	2,24
161612	160	160	120	3,75
361612	360	160	120	5,5
541612	540	160	120	7,5
171713	170	170	130	4,5
341713	340	170	130	6,25
343413	340	340	130	9,38
683413	680	340	130	14

LKE  
BKE  
KKE



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Subject to alterations without notice