



Technical Data Sheet

Compact Stations of Stainless Steel

- **MCS 2129-24**
- **MCS 2129-26**

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1 | Produkt overview

	MCS 2129-24	MCS 2129-26
Application	Local network substation	Local network substation or customer substation
Metering	LV measurement optional	LV or MV measurement opt
Operating side	front side	
Internal arc fault qualification	IAC-AB 20kA 1s	
Temperature class acc. to IEC 62271-202	15	
IP Code	IP 34 D Optional: IP 44 D	
IK Code	10	
Wind load	Wind load zone IV [34 m/s]	
Snow load S_k [kN/m ²]	2,0	
Roof load q_k [kN/m ²]	2,5	

Transformer / Nominal Data

	Oil distribution transformer	
Rated Power	max. 1.000 kVA	max. 1.250 kVA
Load factor Transformer at 30°C ambient temperature	0,7	0,7
Max. dimensions D x L [mm] at optimum distance to the wall 50mm (min. distance to the wall 20 mm)	1.813 x 1.237	1.813 x 1.149
Nominal voltage	12/24 kV	12/24 kV

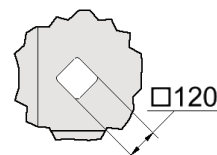
MV-Compartment

Configuration MV-switchgear	RRT / RRRT RRL / RRRL	RRT / RRRT / RRT+M(KK) RRL / RRRL / RRL+M(KK)
Max. Height H [mm]	1.519	1.719
Meterin on MV side	✗	✓
Max. number cable entries	HSI 150 DFK	4

LV-compartment

Max. Dimension B x H x T [mm]	1.894 x 1.523 x 403	1.894 x 1.723 x 403
max. number LV HRC strip fuseways	18 (size 1/2/3)	18 (size 1/2/3)
Max. Anzahl Kabeldurchführung	HSI 150 DFK	7
	HSI 90 DFK	9

Above ground cable entry for temporary use

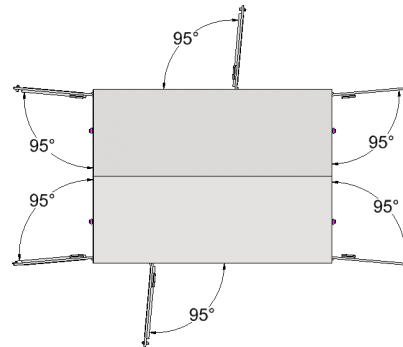




	MCS 2129-24	MCS 2129-26
Options		
Lifting equipment (body)	Swivel ring bolts GK10 M24 x 37	
Lifting equipment (roof)	Swivel ring bolt GK10 M12 x 23	
Potentialausgleichsschiene	CU/SN 383 x 40 x 5 mounted on isolation supports	
Mounting plate for accessories	1000 x 500 for MV-door (e.g. for operating levers)	
Above ground cable entry for temporary use	Cable clamp D _ø 33-46	

Dimensions		
Footprint [m ²]	5,81	
Area with doors open [m ²]	20,18	
W x L x H [mm]	2.101 x 2.953 x 2.306	2.101 x 2.953 x 2.506
W x L [mm] Footprint	2.022 x 2.871	2.022 x 2.871
W x L Dimensions with doors open [mm]	approx. 4.117 x 4.902	

Floor plans with doors open



Weights			
Empty weight [kgs]	S / F	approx. 1.030	approx. 1.105
	H	approx. 3.940	approx. 4.005
Max. permissible total weight [kgs]	S / F	6.000	6.000
	H	8.900	8.900

Product specification	
Enclosure	Stainless steel [1.4301], powder coated
Partition walls	Steel sheet [1.0038], galvanised
Doors	MV: 1 double door LV: 1 double door with ventilation grille Transf.: 2 single doors with ventilation grille
Basement / cable cellar	Stainless steel [1.4301], powder coated, Cable entries Hauff-Technik System HSI, integrated oil drip pan acc. to §19 WHG (German Water Resources Act): Volume without transformer: 1700 dm ³
Colour	Standard colour:
	RAL 7035 light grey
	RAL 6002 leaf green
	RAL 7016 anthracite grey

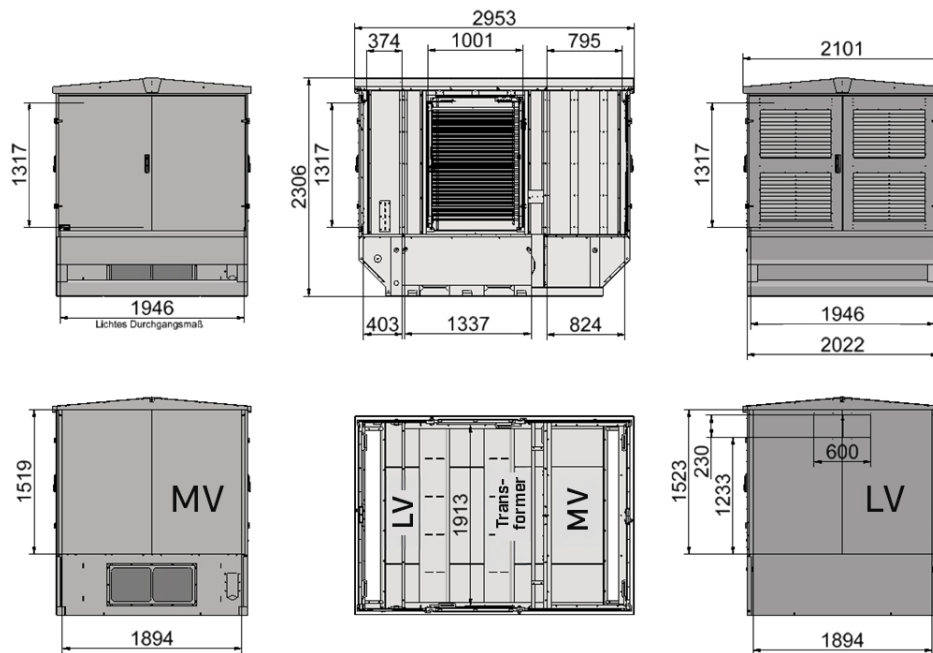




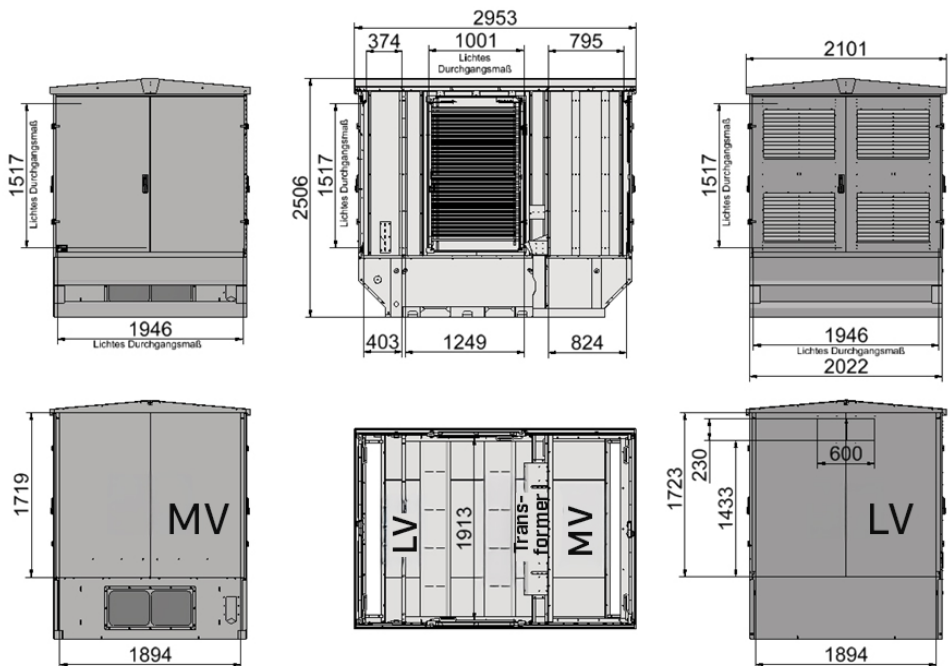
		MCS 2129-24	MCS 2129-26
Basic types			
MCS 2129-24/26	S	Steel-type: Basement made of stainless steel (Standard)	
	F	optional: For installation above ground with removable protection cover for incoming and outgoing cables	
	H	Hybrid-type: Basement made of concrete	

2 | Technical details

MCS 2129-24 Drawing



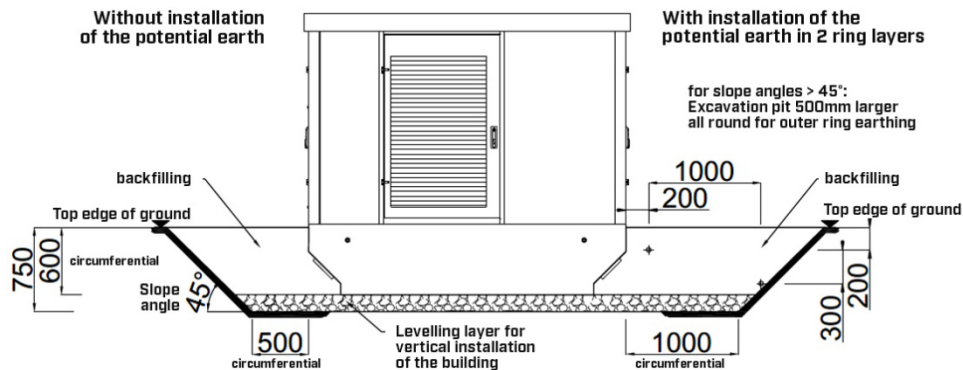
MCS 2129-26 Drawing



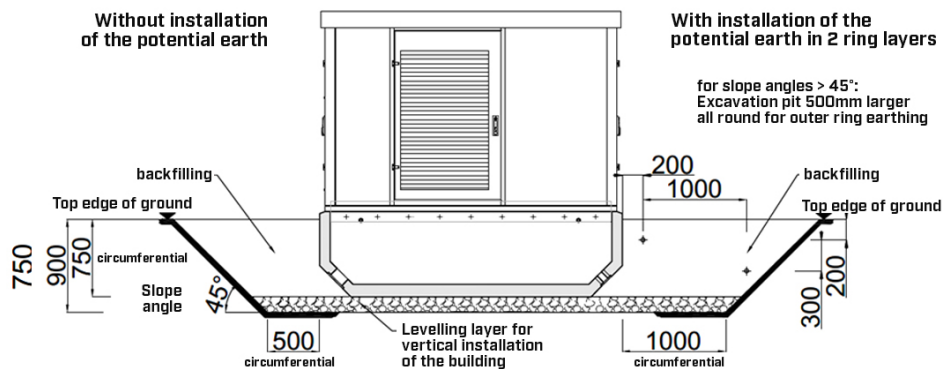


3 | Foundation

MCS 2129-24/26 S Installation of S-type (basement stainless steel)



MCS 2129-24/26 H Installation of H-type (basement concrete)



The following must be observed when constructing the excavation pit:

- design the slope angle 45-80° according to DIN 4124 and local soil conditions, plan pit shoring if necessary
- frost-free foundation
- Observe information on the building ground: Bedding modulus min. 20MN/m³
Soil compression ≥ 60 kN/m²
or: according to individual statics for the location
- Observe information on backfill material: Internal angle of friction $\geq 32,5^\circ$, Weights up to 20 kN/m³, Wall friction = 0°;
or: according to individual statics for the location
- Soil drainage required in accordance with DIN 4095:
Drainage of the subsoil must always be carried out in cohesive soils and on slopes, regardless of the type of soil; pressing water / seepage water must be prevented to protect the building structure

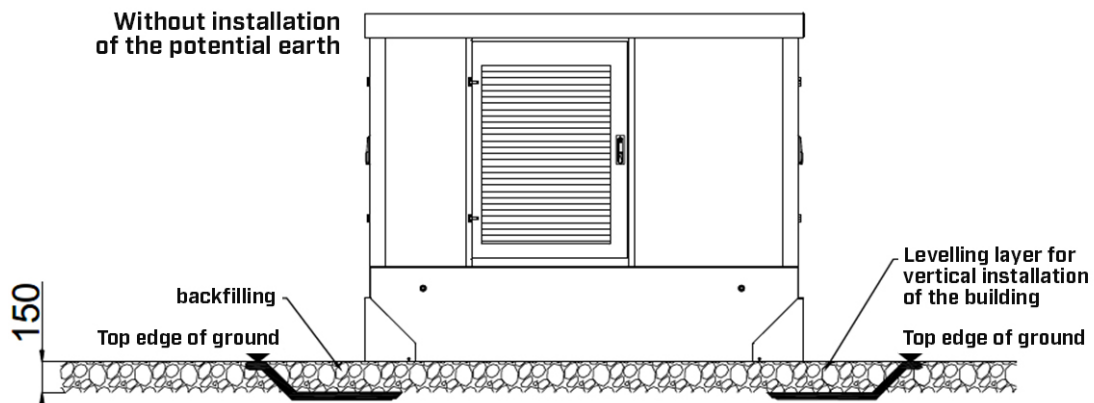
Execution of the levelling layer (Levelling layer level smoothly (!!!)):

- Layer thickness 15 cm:
 1. Gravel at bottom 0-16mm: Thickness 12cm
 2. on top grit 4-6 mm: Thickness 3 cm





MCS 2129-24/26 F Installation of F-Type (Above-ground installation)



The following must be observed when constructing the excavation pit:

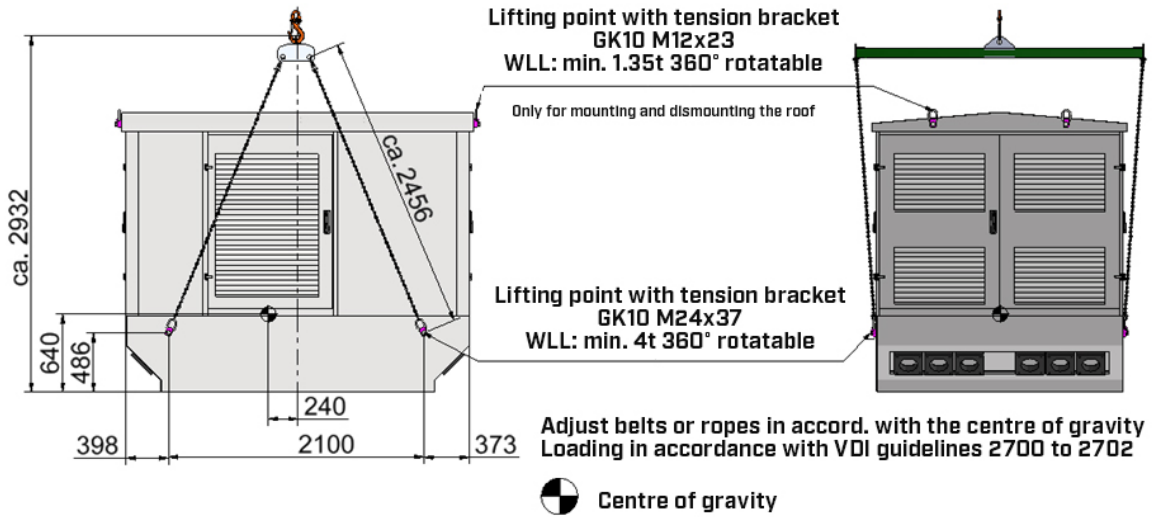
- frost-free foundation
- Observe information on the building ground: Bedding modulus min. 20MN/m^3
Soil compression $\geq 60\text{ kN/m}^2$
- or: according to individual statics for the location
- Observe information on backfill material: Internal angle of friction $\geq 32,5^\circ$, Weights up to 20 kN/m^3 , Wall friction = 0° ;
or: according to individual statics for the location
- Soil drainage required in accordance with DIN 4095:
Drainage of the subsoil must always be carried out in cohesive soils and on slopes, regardless of the type of soil; pressing water / seepage water must be prevented to protect the structure building

Execution of the levelling layer (Levelling layer level smoothly (!!!)):

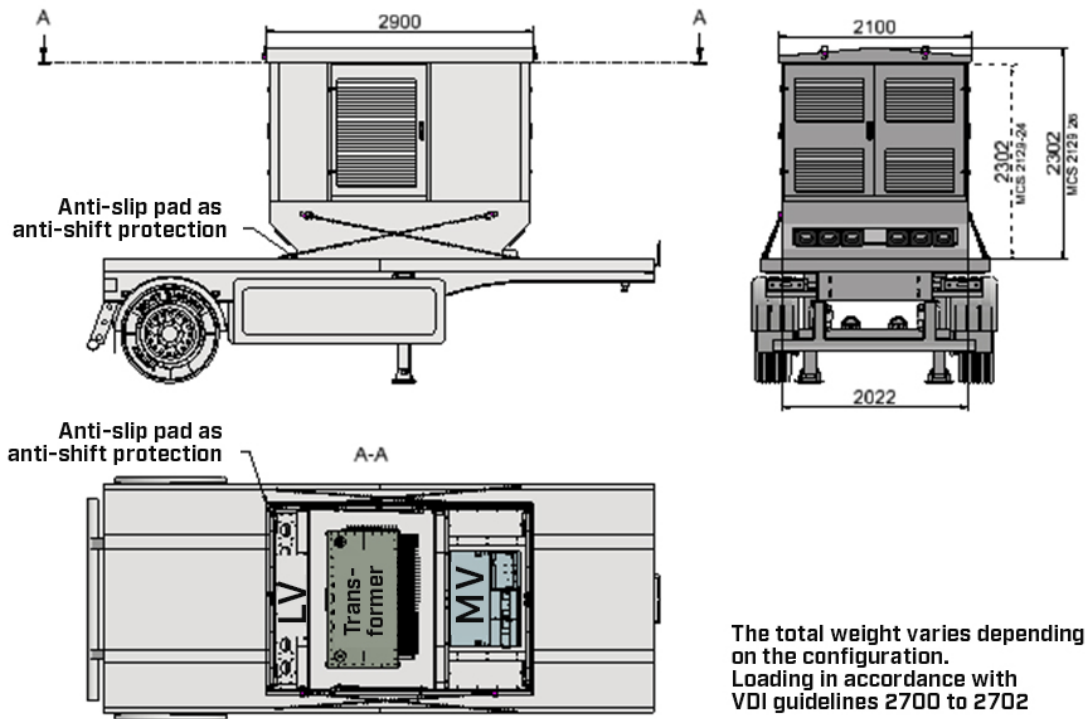
- Layer thickness 15 cm:
 1. Gravel at bottom 0-16mm: Thickness 12cm
 2. on top grit 4-6 mm: Thickness 3 cm



MCS 2129-24/26 Lifting plan



MCS 2129-24/26 Transport and Loading plan



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