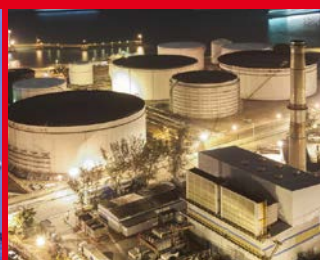
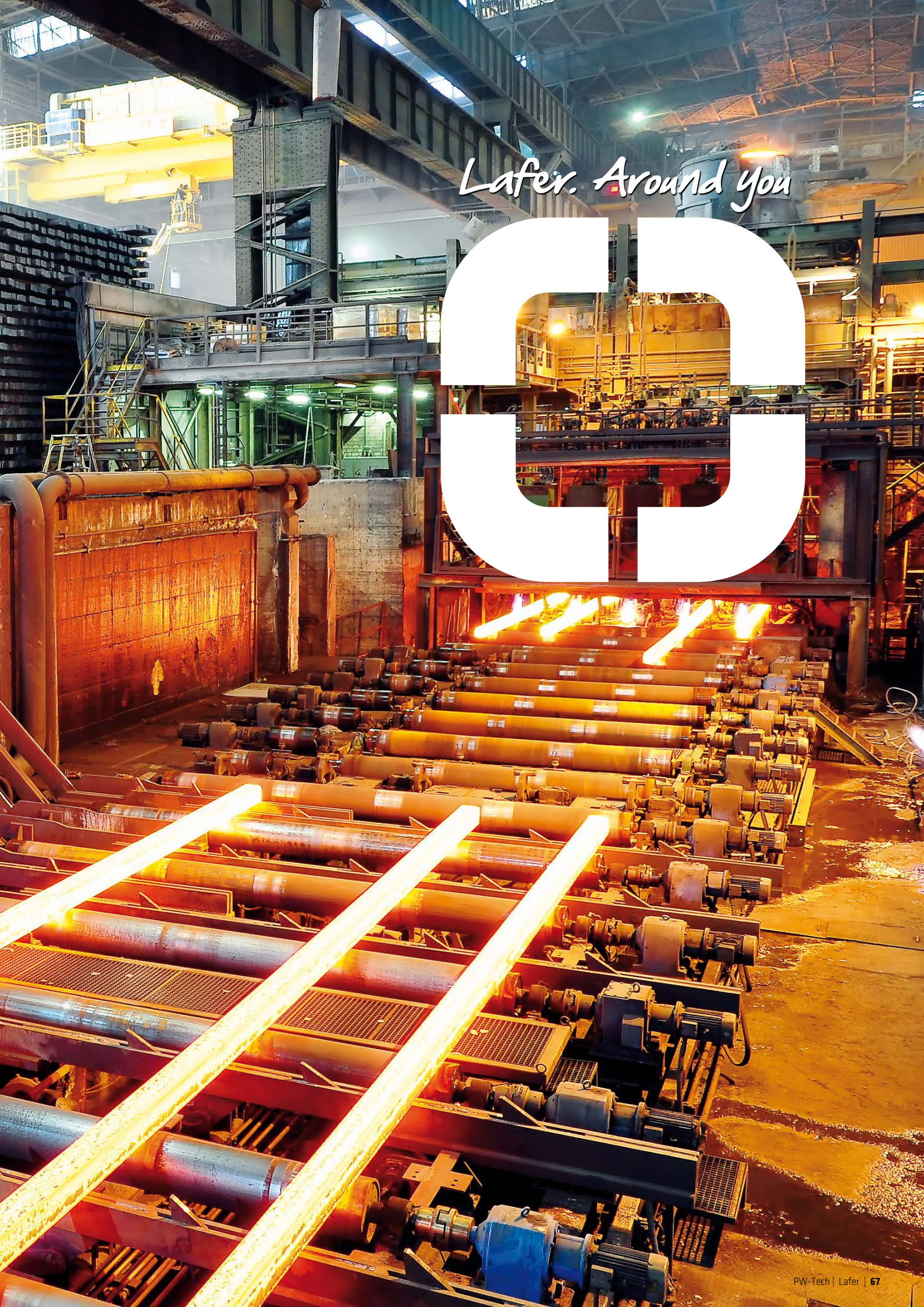


PW-Tech

Power Center cabinets for low voltage power distribution up to 6300 A



Lafer. Around you





Devoted to energy distribution.

They offer many solutions to any wiring typology, accessibility and segregation form.

Main characteristics

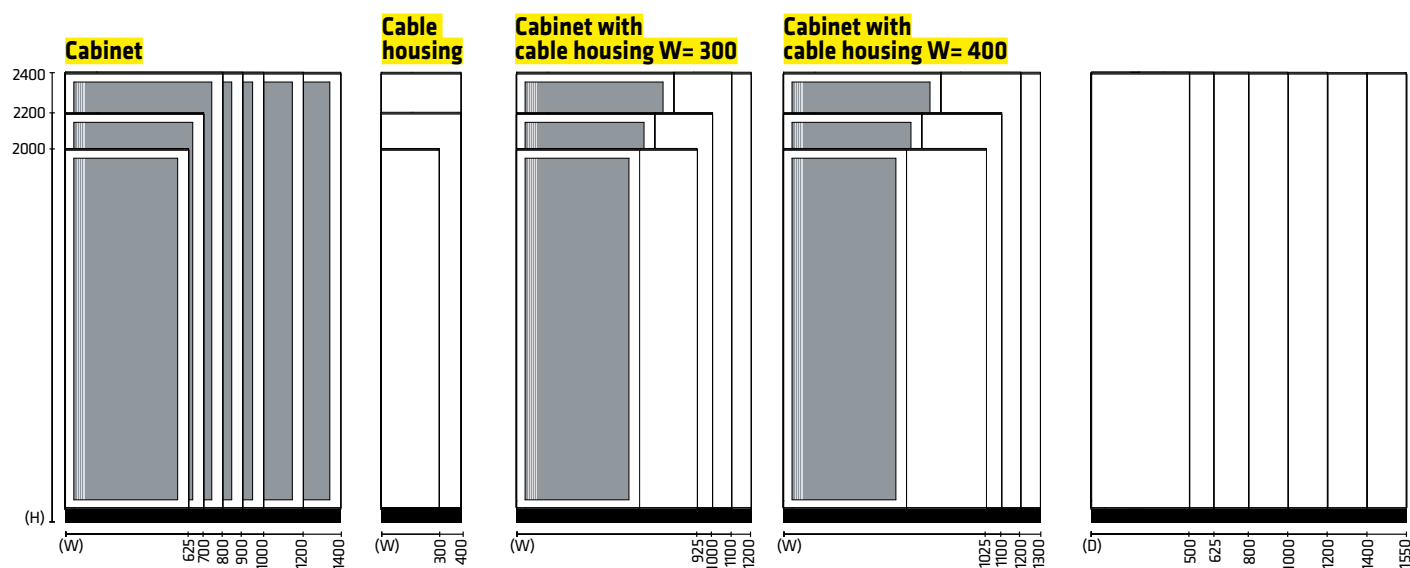
- Assembled structure made of sheet with a thickness of 20/10 mm.
- Plinth with reinforced flanges with a thickness 20/10 mm for handling on rollers.
- Degree of protection from IP30 (open version) to IP55 with blind door or transparent door with toughened glass.
- Possibility of side connection with other Lafer cabinets too (MC-Cub, ME-Cub and Automation).
- Installation of devices of all manufacturers (ABB, Schneider, Siemens, etc.).
- Epoxy powder coating after phosphating in RAL 7035 B (other colours on request).
- Stainless steel cabinet on request.
- Patented and certified earth connection system.
- Internal finishing accessories for all kinds of exigences.

Certifications



IEC 61439-1	test n° B0008006 test n° B5002265	Short circuit $I_n=6300\text{ A}$ e $I_{cc}=150\text{ kA}$ per 1 sec. • Short circuit verification • Verification between the equipment masses and the protection circuit.
IEC/TR 61641 CEI 17-86	test n° B0009515 test n° B5014994	Internal arc fault verification 105 Ka for 300 msec.
IEC 61439-1 IEC/TR 61641	test n° B0007840 test n° 02472-15-0378	Overtemperature limits verification. • Dielectric properties verification: impulse and industrial frequency test. • Clearance and creepage distance verification.
CEI EN 60529	test n° B0011835	Degree of IP55 protection category 2 verification.
IEEE Std 693-2005 IEC 60068-2-57 IEC 62271-300 Transelec	test n° B3020295	Seismic test with acceleration 1,0g

Technical specifications



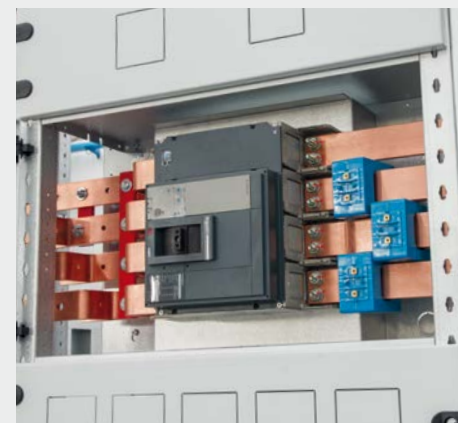
	Width (W) mm	Height (H) mm		Depth (D) mm
Cabinet	625 (24 modules)	2000 / 2200 / 2400 (usable space = H - 200)		500 / 625 / 800 / 1000 / 1200 / 1400 / 1550
	700 (24 modules)			
	800 (34 modules)			
	1000 (46 modules)			
	1200 (54 modules)			
	1400 (62 modules)			
Cable housing	300	2000 / 2200 / 2400 (usable space = H - 200)		500 / 625 / 800 / 1000 / 1200 / 1400 / 1550
	400			
Cabinet with cable housing	625 + 300 (24 modules)	2000 / 2200 / 2400 (usable space = H - 200)		500 / 625 / 800 / 1000 / 1200 / 1400 / 1550
	700 + 300 (24 modules)			
	800 + 300 (34 modules)			
	625 + 400 (24 modules)			
	700 + 400 (24 modules)			
	800 + 400 (34 modules)			
Back to back cabinet	On request			
Electrical data	Voltage ratings	Rated insulation voltage (U_i)		1000 V
		Rated operational voltage (U_e)		690 V
		Rated impulse withstand voltage (U_{imp})		8 / 12 kV
		Rated frequency (f_n)		50 / 60 Hz
	Current ratings	Rated current (I_n)		Up to 6300 A
		Rated short-time withstand current for 1 sec. (I_{cw})		150 kA
Mechanical characteristics	IP degree of protection	Internal	Up to IP2X	
		External enclosure	From IP30 to IP55	
	Covers height (h)	150 / 200 / 250 / 300 / 350 / 400 / 450 / 500 / 600 / 700 / 800 / 900 / 1000		
	IK test (shock resistance)	IK09 glazed door		
		IK10 blind door		
	Access	From the front / Side / Rear		
	Execution	Form 1 / Form 2a / Form 2b / Form 3a / Form 3b / Form 4a / Form 4b		
	Material	Structure	Pickled plate, 15/10 - 20/10 mm thick	
		Accessories	Aluzinc® sheet steel, 15/10 - 20/10 - 25/10 mm thick	
	Powder coating	Standard	RAL 7035 B light grey (orange peel)	
		On request	Powder RAL colours and stainless steel	
	Plastic components	Halogen-free, flame retardants, self-extinguishing, CFC-free		
	Bars treatment	Alubar	standard: tin	
			on request: Nickel/ Silver	
		Copper	standard: none	
			on request: Tin/ Nickel/ Silver	

All Lafer cabinets have been designed to be used in indoor environments. In case of outdoor applications, customers should require the supply of the specific rain canopy. Lafer shall not be held liable for any damage resulting from the non-observance of these guidelines.

Typology

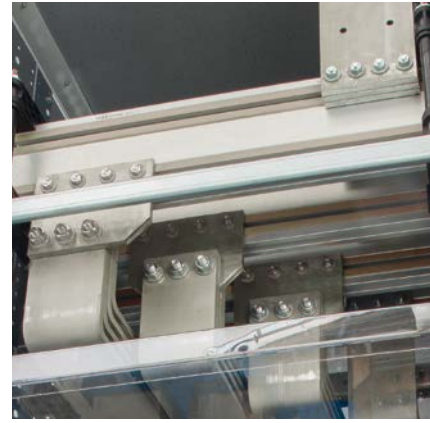


Cabinet with back access:
cabinet with sections up to form 4b.
Vertical and horizontal busbar system placed at the back.



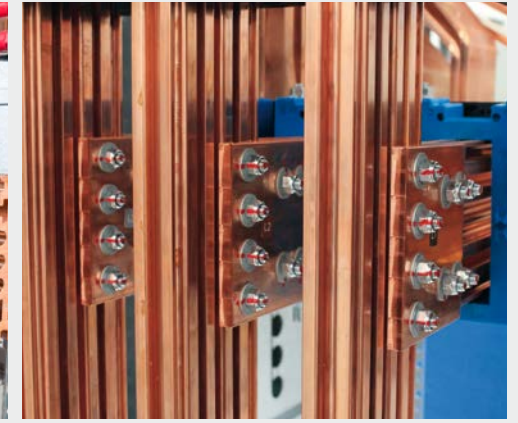
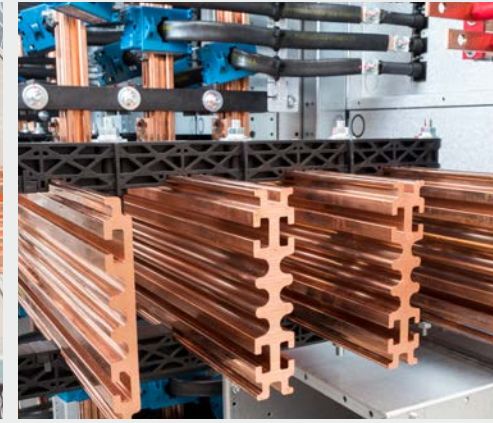
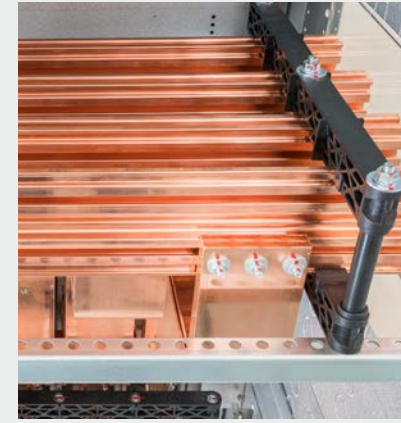
Cabinet with frontal access:
cabinet with sections up to 4a form.
Vertical busbar system placed on the side and horizontal busbar system placed on the top.

Smart Energy Plus

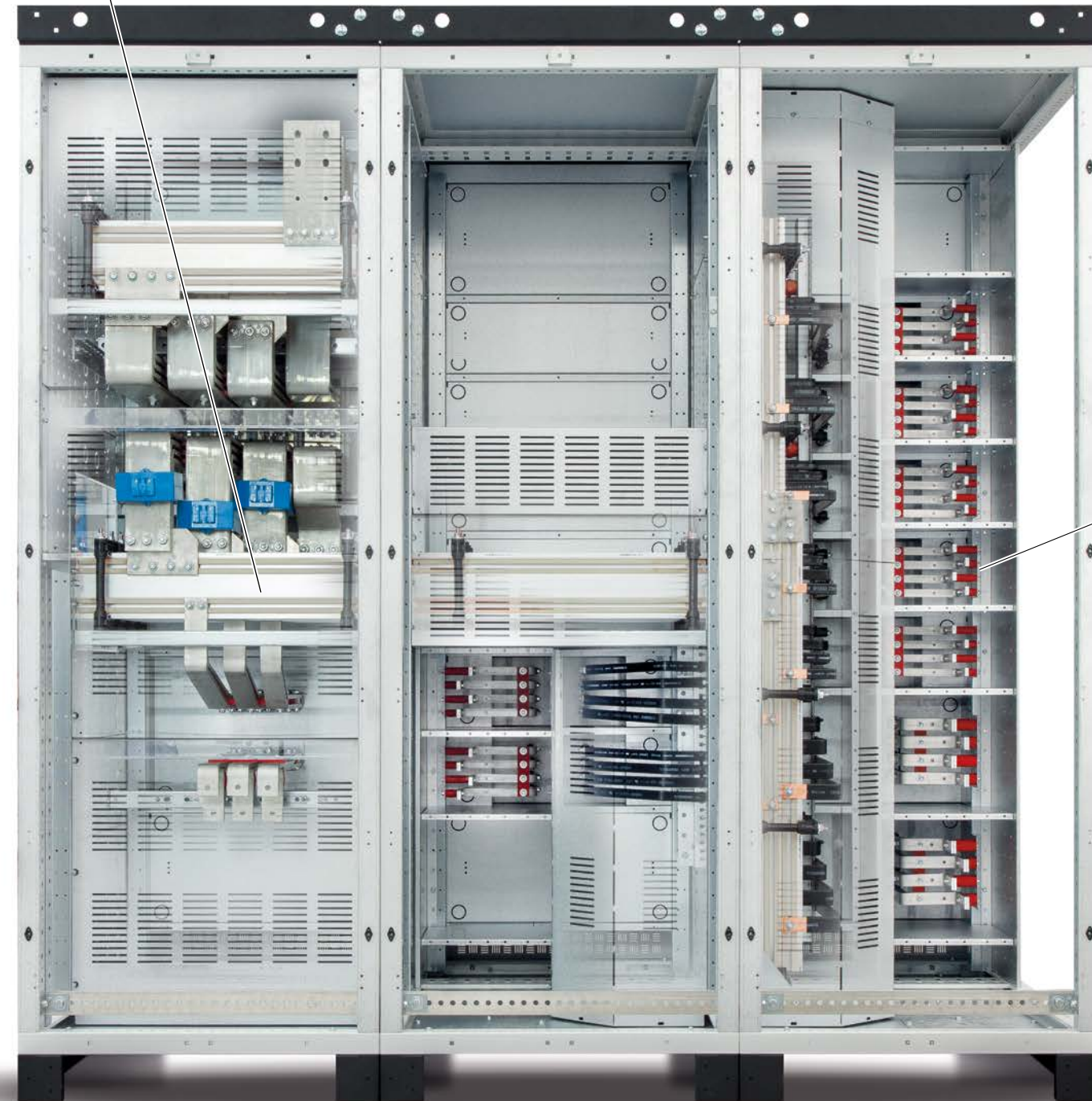


Smart-Energy plus busbar system:
anodized aluminium with nickel contact surface applied with cold spray technology up to 6300 A.

Smart Energy Copper



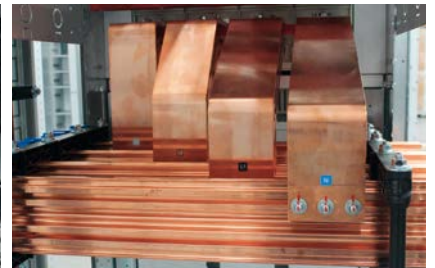
Smart-Energy copper busbar system:
extruded copper busbar up to 6300 A.



Connections

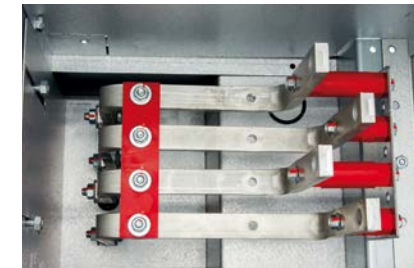


Alubar circuit breakers connection:
Tin-plated aluminium connections between circuit breakers and main busbar from 250 A up to 4000 A (nickel-plated or silver-plated aluminium on request).



Copper circuit breakers connections:
connections up to 6300 A.

Terminals extension



Copper or Aluminium **extension of horizontal or vertical circuit breakers terminals.**



Internal details



Compartment: with hinged cover, wiring plate, horizontal partition and Aluzinc sheet steel side segregation.



ModularDINTM system: rapidity of assembly and disassembly of LDIN modular rails, with the new joint system without screws. It is compatible with the majority of splitter blocks available on the market.