

Solid Insulated Bus Bar System **SIS**



up to 40.5 kV / 8000 A for indoor and outdoor service

RITZ SIS Bus bars provide touch safe, reliable connections between medium voltage equipment.

Clients use **RITZ SIS** between capital-intensive equipment where high current transmission and/or limited space are critical factors, such as

- Generators
- IPBs
- Transformers
- Generator circuit breakers
- Reactors
- Switchgear Panels

WORLDWIDE REFERENCES

We have supplied SIS for thousands of successful projects since the 1980s.

Clients choose RITZ SIS Bus bars as a safe & cost effective alternative to parallel-connected cable systems, metal enclosed bus ducts and cable bus systems.

We supply customized solid insulated bus bar systems, where all components are bolted together. Therefore, no on-site welding required.

APPLICATION SECTORS (examples)

Power plants	Industrial manufacturing
Renewables	Mining
Power to X	Chemical/petrochemical
Transmission grids	Oil, gas and LNG
Data centers	Railways



1: Indoor Connection 8000 A per single phase

2/3/4: Type tested SIS connections to air and gas insulated switchgears

MADE IN GERMANY RITZ SERVICE

- Design of bus bar systems to customer requirements
- Turn key support available at early project stages
- 3D site measurement
- Manufacture and test of solid insulated bus bars
- SIS bus bar system installation or supervision (SCC certified)
- Testing of installed systems (for example VLF HV test)



PRODUCT DESCRIPTION

We manufacture SIS up to 40.5 kV / 8000 A and SISD bushings up to 72.5 kV, routine tested according to IEC 60137.

RITZ SIS has composite insulation comprising ERIP (epoxy resin impregnated paper) with capacitive grading and embedded earth layer. The dielectric is cast under vacuum. Almost any geometric shape is possible.

Systems are available for ambient temperature ranges from -60°C to +55°C. Depending on the requirement, we can deliver systems for indoor, outdoor or combined applications.

CERTIFICATIONS

RITZ Instrument Transformers GmbH is certified according to **ISO 9001:2015**, **ISO 14001:2015** and **ISO 50001:2018**.

We are Achilles UVDB & Achilles Supply-Line registered.

RITZ SIS BUS BARS: VERY LOW LIFE CYCLE COSTS

- Safe and reliable connections (systems with ≥ 30 years of service life in place)
- Touch safe
- Maintenance free
- Partial discharge free (acc. to IEC 60137)
- Phase to phase short circuit improbable
- Low I²R losses
- Space saving due to very small bending radii and compact design
- Fast installation

Subject to technical modifications. Images for reference only.



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