

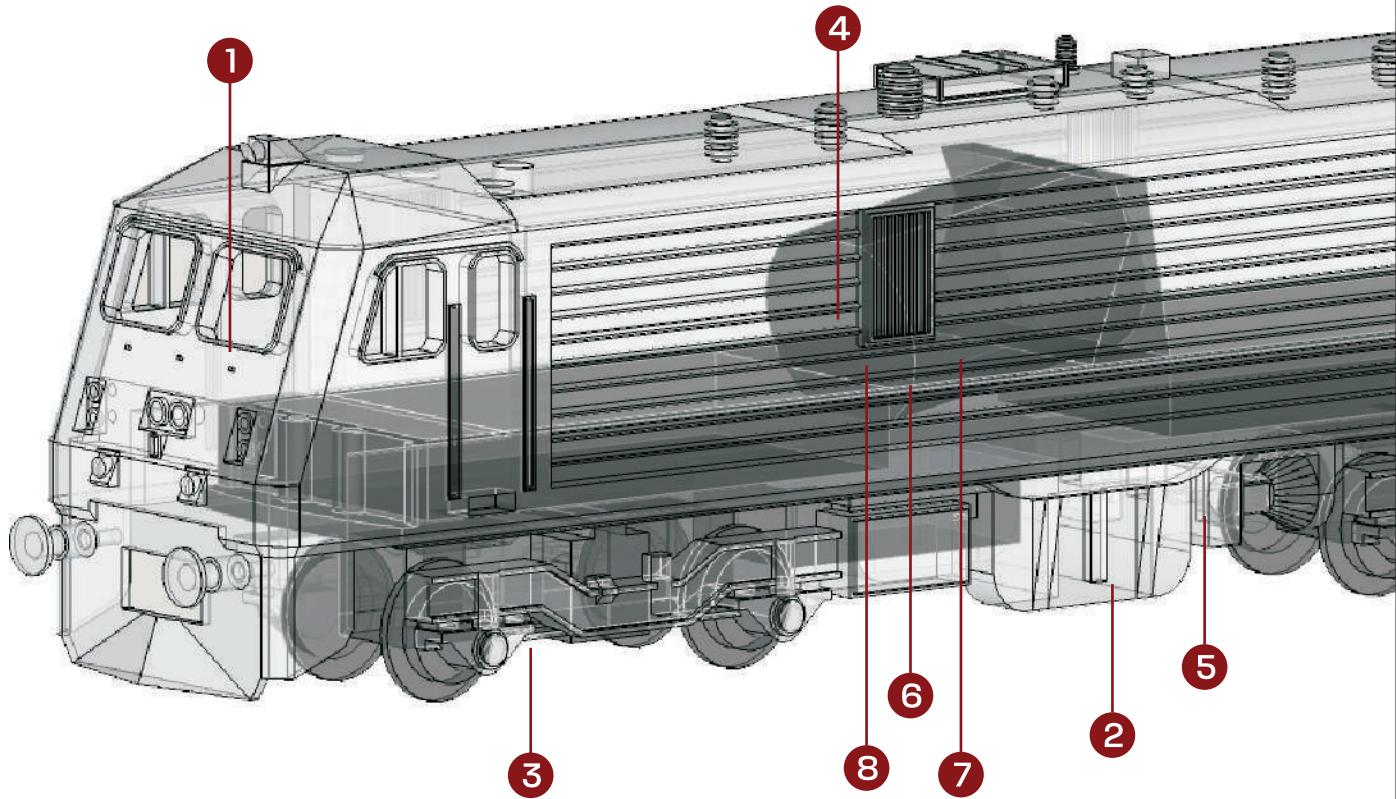


Stesalit Limited



Partner Company of



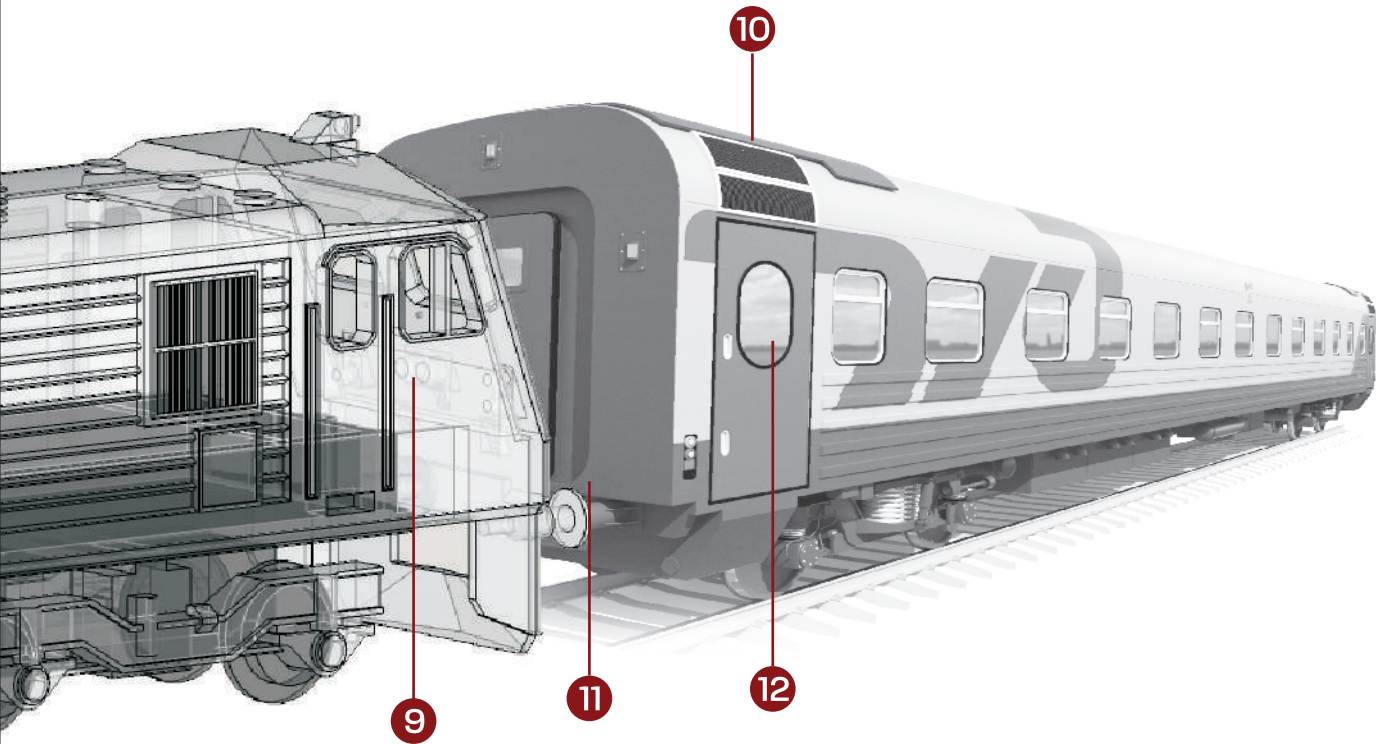


Stesalit an ISO 9001 : 2000 company, has a focus on developing and manufacturing global quality high-end engineering products for Locomotives, Coaches, EMU's, Metro Cars and Industry.

The company has manufacturing facilities in excess of 60,000 square feet in Himachal Pradesh (INDIA) with sales and support network spread in all parts of the country.

With the latest R&D facilities and an ideology in innovation, Stesalit has innovated and developed many products to match world class quality standards and is striving to touch new heights in coming years.

The ideology of the company is focused on a constant effort to innovate new products with better efficiency, and to improve the existing ones for better performance.



KEY PRODUCTS FOR COACHES/ METRO CARS

10. AC Control panel and Roof Mounted AC Package Unit
11. ZS Coupler (400A/ 750V)
12. Switch Board Cabinet for SC AC Coaches, AC Hot Buffet Coaches

KEY PRODUCTS FOR LOCOMOTIVES

1. Master Controller
2. Transformer 5400 KVA, 6531 KVA, 7775 KVA
3. Traction Motor
4. Rectifier
5. Smoothing Reactor
6. Contactor
 - Line Contactor - 1000 & 1500 Amps.
 - Electro Magnetic Contactor
 - Shunting Contactor
7. Reverser Switch / CTF
8. Cam Shaft Controller
9. Complete Driver Desk



MASTER CONTROLLERS

Contact force for Cam : 120 gm
 Surge Voltage : 5.1 KV
 Rated Voltage : 72v
 Contact Pressure at Cam : 1.5 - 2.6 N
 Resistance : 5 MΩ

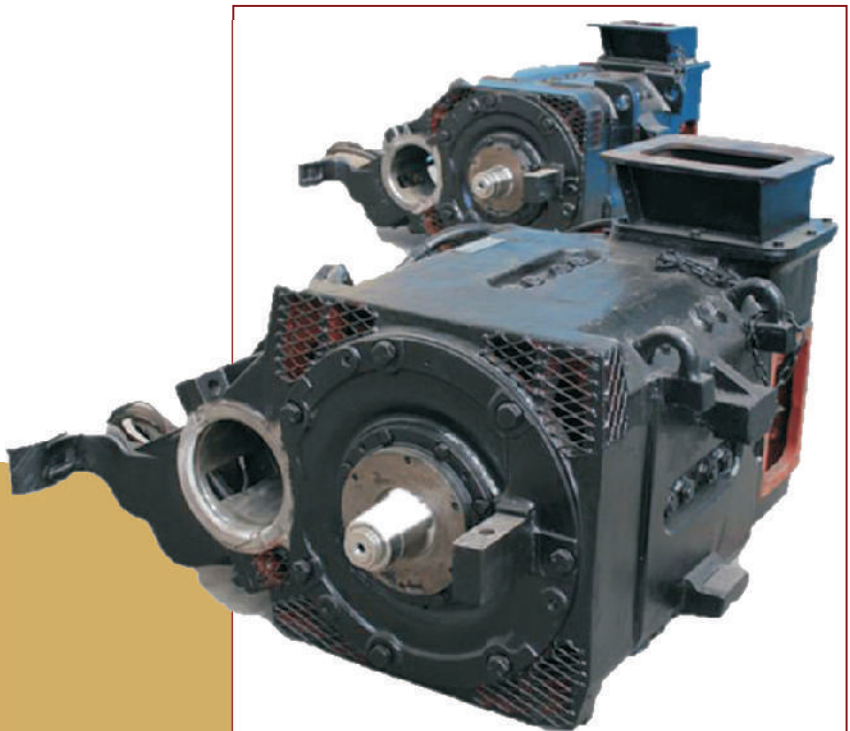
Acts as the main (master) controller of the various electric Pneumatic contactors and dielectric magnetic insulation contactors through an Indicator lamp.

COMPLETE DRIVER DESK

Complete Driver Desk as per Client's requirement fitted with our Master Controller

TRACTION MOTOR

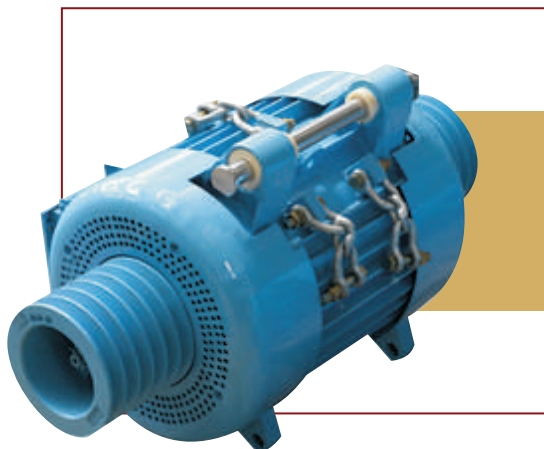
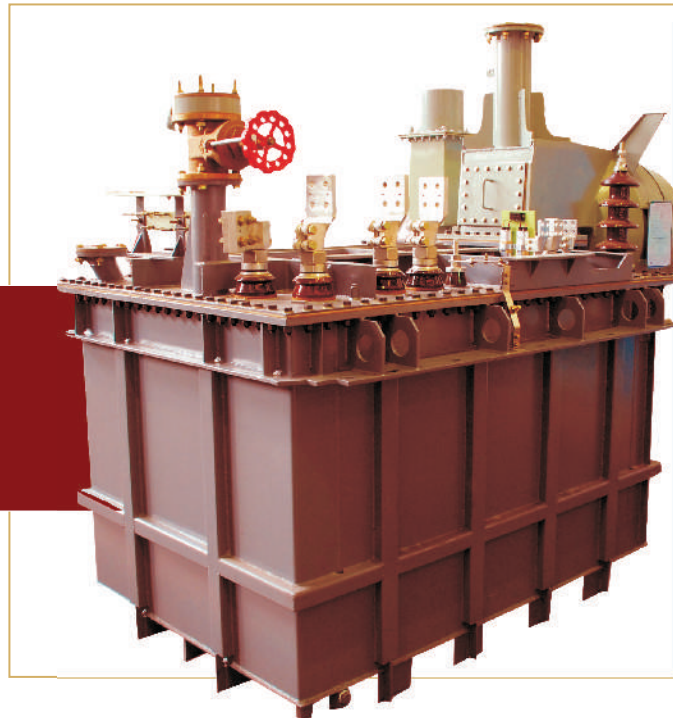
Locomotive Engines
 Rating : 850 kW
 Voltage : 750V DC
 Speed : 1100 RPM
 Insulation : Class 200
 Forced Air Ventilation
 Motor Efficiency : 0.95



LOCO TRANSFORMERS

Loco 3900/5400 KVA, 6531 KVA, 7775 KVA Transformer

- Rating : upto 15.0 MVA
- Input Voltage : 25 KV
- Cooling : Forced Air- oil cooled.
- Insulation : Class H



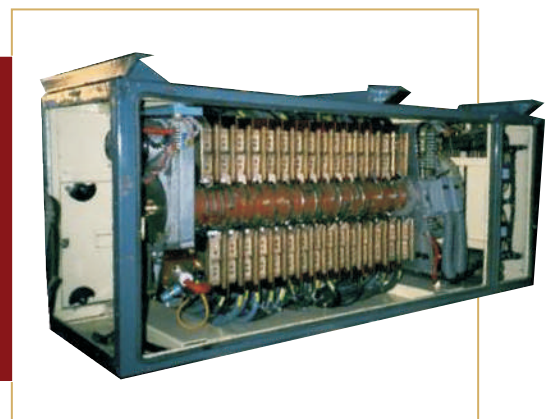
BRUSHLESS ALTERNATORS

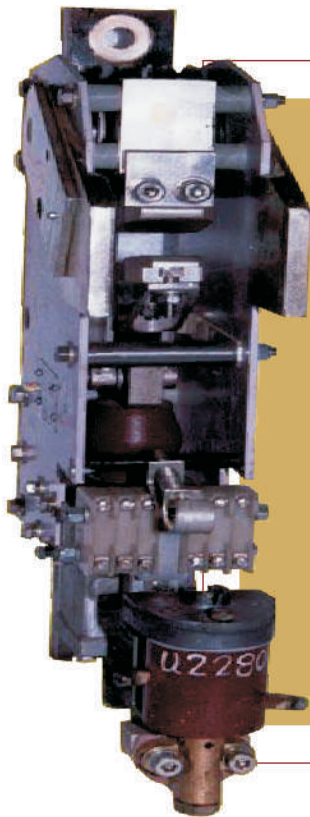
- Rating : 4.5 kw, 25 kW
- Voltage : 110V D.C.
- Speed : 700 RPM - 3000 RPM

Unidirectional Constant torque Brushless Alternators/ regulators.
Train Lighting and auxiliary equipment

CAM SHAFT CONTROLLERS

Cam Shaft Controller is a unique development in traction motor drive technique. This switching apparatus is controlled and regulated from electronic control centre which performs the central switching function for driving and breaking circuit. It consists of the resistor stepping switches and group switches for drive and brake mode of operation. It also consist of 30 nos. 460 Amps cam operated switches rated Voltage – 1500 V DC. The total unit is underslung.





LINE CONTACTOR 1500 Amps. & 1000 Amps.

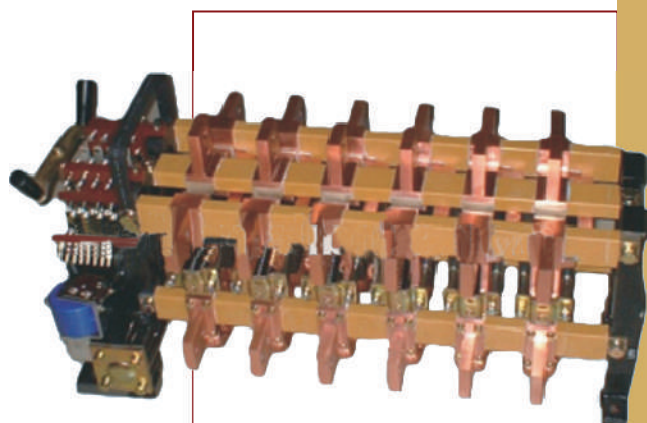
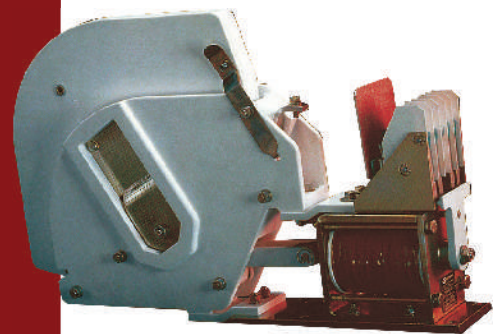
Current Rating	: 1500 A/ 1000 A
Circuit Voltage	: 750 V
Contact Force	: 16 to 18 Kg
Minimum Operating Air	
Air Pressure	: 5 Kg/Cm ²
Solenoid Valve Operating	
Voltage	: 45v to 136v
Dielectric Strength	: 5.1 KV in min
Coil Resistance	: 1350 Ω 1450 Ω

Acts as an electro Pneumatic main switch of the traction motor sub circuit for activating the circuit.

ELECTROMAGNETIC CONTACTOR (EMC)

Coil Resistance	: 30°C is 540 Ω
D.C. Supply Voltage at the coil	: 45v to 136v
Pickup Voltage	: 45v
Dropout Voltage	: 10v
Contact Force	: 100m Ω ± 5%
Aux. Switch	: 2 No. / 2 NC
Aux. Contact Pressure	: 80 Gm + 10%
Dielectric Strength	: 2.25 KV in 1 Min.

Acts as an three phase switch for various motors



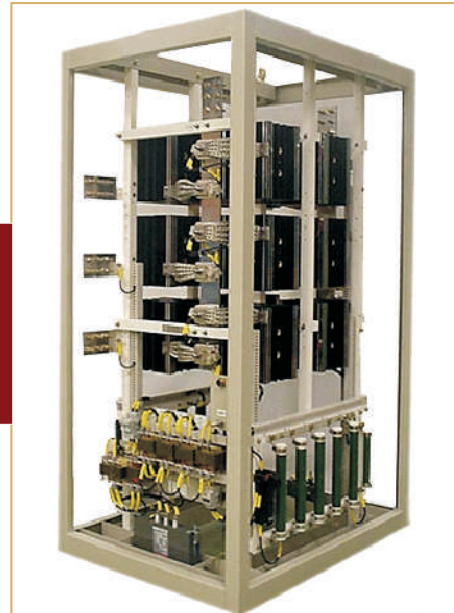
6-POLE REVERSER SWITCH/ CTF

Current Rating	: 1500 A DC
Operating Pneumatic Pressure	: 4 Kg/ m ²
Solenoid Valve Operating Voltage	: 45v to 110v DC
Dropout Voltage	: 10v
Contact Pressure	: 10 ± 1 kg
Temperature Rise	: 800C
Dielectric Strength	: 5 KV in 1 min
Coil Resistance	: 1350 to 1450

Electric Pneumatic Contactor consists of fixed and mobile Agbrazed copper, acts as a prime equipment to change the direction of the traction motor.

RECTIFIERS

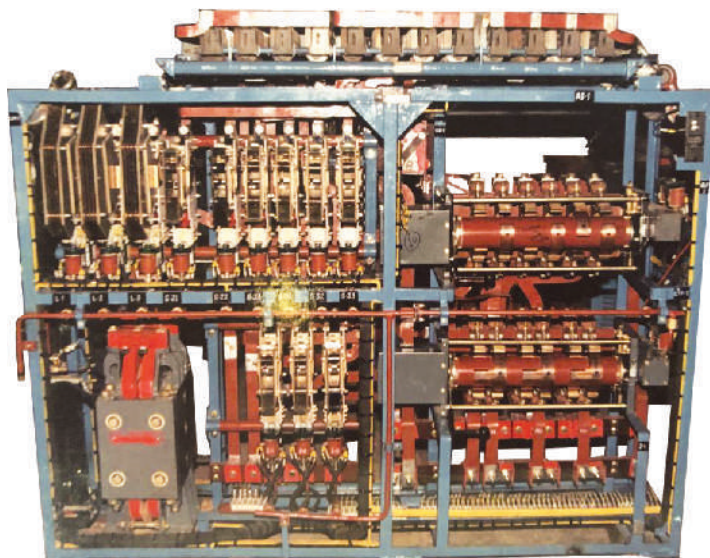
Rating : 25 KV AC, 50 c/s
 Input to Blower Motor : 415 V
 Rectifier Input Voltage : 1000 VMS
 Output : 470 Volts
 System of Connections of Diodes : Bridge



ROOF MOUNTED A/C PACKAGE UNIT

Suitable to work from : 415V \pm 5% AC 3 Φ , 50 Hz \pm 3%
 Sinusoidal / PWM Power Supply
 Ambient temperature : -40 $^{\circ}$ to 57 $^{\circ}$ C
 Microprocessor Controller : 110 \pm 30% V DC/AC
 Refrigerant Used : R-407C
 Power Consumption : 16.5 KVA

CONTROL PANELS FOR LOCOMOTIVES & COACHES





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