

Miniature Tunnel Substation (MTS)



Provision of low voltage power in the tunnel construction environment

The MTS series unit has been designed to operate at voltages below 1100V. Commonly used in mining and tunnelling applications the MTS is capable of distribution over long distances.

Utilising standard voltages of 1000V and 415V the design enables the user to power remote machinery whilst remaining in the low voltage range.

The MTS is ideal for tunnels with a need for low voltages such as 1000V and 415V. With Step-Up and Step-Down capability the MTS is versatile and a must have on sites where 415V needs to be distributed over long distances. ♦

PBE Group acquired Rutherford Power Group in 2018, and now provide a global integrated solution for Power, Safety, Communications and Data for the mining and tunnelling industries.

Specifications

- Rated Voltage 380V - 1000V
- Rated Power 150kVA - 315kVA
- Weight 1400kg - 1650kg
- Length 3023mm
Height 1495mm - 1547mm
Width 800mm

Manufacture

- 8mm mild steel plate welded skid design
- 2-5mm mild steel
- Continuous welded electrical enclosure
- Powder coated option available



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Manufacture

The MTS Substation is manufactured using 8mm mild steel plate welded skid design and 2-5mm mild steel, continuous welded electrical enclosure.

Stainless steel units can be powder coated as an option.

Electrical Design

415V-1000V rated MCCBs are used for power distribution and protection with access to switching on each side.

Indications included as standard:

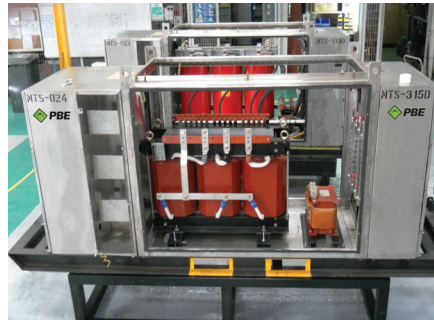
- Ammeter
- Alarm and trip indication
- Tx monitoring

Ratings and options include:

- Customer spec socket outlets
- Remote fault indication
- Digital metering
- External and internal LED lighting
- Back-up earth leakage
- Pilot/Earth continuity protection
- Up to 6 outgoing outlets
- Tunnel lighting supplies
- Blast shield LED flood lights

Specifications

	MTS 150 U	MTS 150 D	MTS 250 U	MTS 250 D	MTS 315 U	MTS 315 D
Voltage input	380-440V	1000V	380-440V	1000V	380-440V	1000V
Voltage output	1000V	380-415V	1000V	380-415V	1000V	380-415V
Transformer rating	150kVA	150kVA	250kVA	250kVA	315kVA	315kVA
Inlet socket	425A	425A	425A	425A	425A	425A
Outlet socket	425A	-	425A	-	425A	-
Inlet protection	MCCB	Pilot Wire	MCCB	Pilot Wire	MCCB	Pilot Wire



About Us

PBE Group ("PBE") provide an adaptive and flexible integrated solution where a reliance on safety and productivity is essential. PBE is a true global systems provider for the mining, tunnelling, construction and associated markets. Our specialised engineering team integrates our industry specific manufactured products and best in class 3rd party products to ensure a sophisticated, robust and commercially viable solution. Our growth in international markets is based on the key verticals of Technology, Power and Service Delivery – fundamental in any industrial project. Our experience in confined space and underground construction has enabled PBE to complete over 850 projects in more than 60 countries with 320 staff and 18 regional offices. ♦

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