

The Aluminium Edge

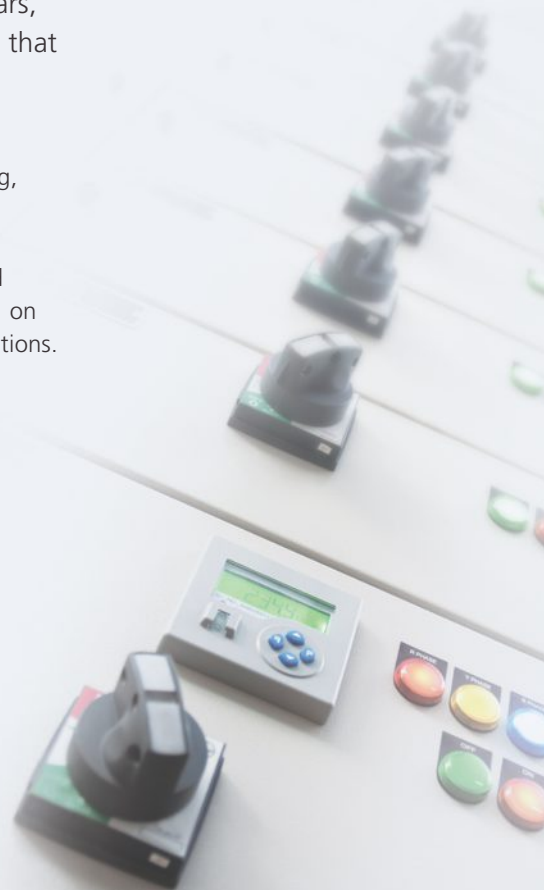
The new, design-verified aluminium busbar-based distribution solution that never stops saving





In the infrastructure business, every element of construction, installation and maintenance contributes to a project's long-term profitability. As India's leading switchgear company, we are constantly innovating to help infrastructure developers make the most of their distribution systems. The new Ti range is a product of this quest. It is design verified with aluminium and copper busbars, providing the perfect balance of cost-effectiveness, compactness and safety that infrastructure developers have always looked for.

L&T Electrical and Automation is a part of the multi-billion dollar technology, engineering, construction, manufacturing and services Larsen & Toubro conglomerate. The Company designs, manufactures and markets a wide range of low voltage and medium voltage electrical systems, control and automation systems, electrical products and metering and protection systems. The Ti range with its aluminium and copper busbar options is based on the award winning T-era, and sets yet another benchmark in building electrification solutions.



VERIFIED SAFE

When dealing with electrical systems, there are no second chances. Ti is equipped with a range of safety features to safeguard your system as well as the people who operate it.

Design verified for Safety: Ti is a design verified assembly, in accordance with IEC 61439, assuring you of the highest levels of quality and safety, from design to assembly.

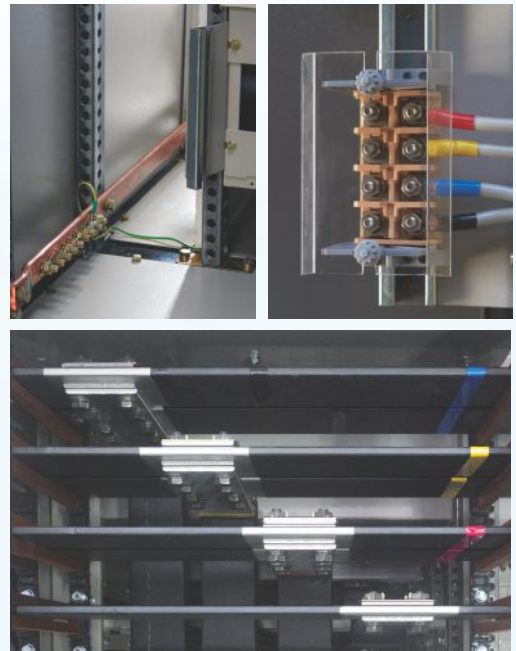
Safer busbars: Busbars in the Ti range have higher clearances than those prescribed by global switchboard standards (25 mm – Ph to Ph and 19 mm - Ph to N/Ph to E), offering a superior level of safety.

Zero 'stray-voltage' doors and panels: The Ti's panel doors are designed to prevent accidental opening. We have also placed earthing contacts on every door and an Earthbar running the length of the switchboard, connected to structural members. These ensure that the outer surfaces do not have stray voltages, as this could harm an operator.

Best-in class insulation: The Busbars in the Ti range are equipped with polyester glass supports for insulation. You also have the choice to install heat-shrunk PVC sleeves for extra protection.

Enhanced ingress protection: A minimum ingress protection of IP2X is provided even with the doors open to ensure that an operator does not come in contact with live terminals or parts during maintenance.

No accidental contact: Rotary knobs ensures that an operator does not come in contact with live terminals or parts during maintenance.



COMPACTNESS SPELLS COST-EFFECTIVENESS

In any urban scenario, space means money. Hence space saving is money saving. Ti offers flexibility and customization to suit your space requirements, ensuring that you maximize value on the space available to you.

Flexible busbar/cable entry position: Ti is available with top or bottom busbar/cable entry options.

Space saving, slim panels: Ti units start at a depth of 484 mm (with doors) and a width of 440 mm, allowing you to use the space saved for more profitable purposes.

Compact Feeder modules: You can choose from a range of full or half-width modules with sizes optimised to achieve compactness without compromising safety and reliability.

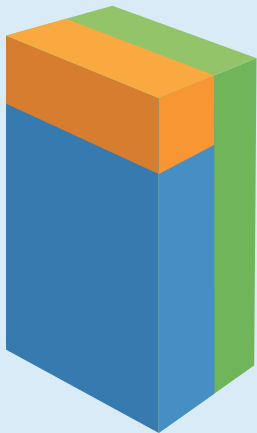
Shared droppers: An innovative design that allows high current ratings to be delivered to two panels by one set of droppers, drastically reduces panel footprints.

Flexible panel configurations: Feeder heights (200 mm onwards), panel heights (1800-2400 mm), width, depth and busbar configuration can be optimised for space.

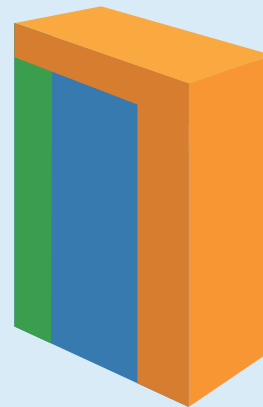
Double-front arrangement: Connect even more electrical loads with a minimal change in dimensions.



TYPICAL ARRANGEMENTS



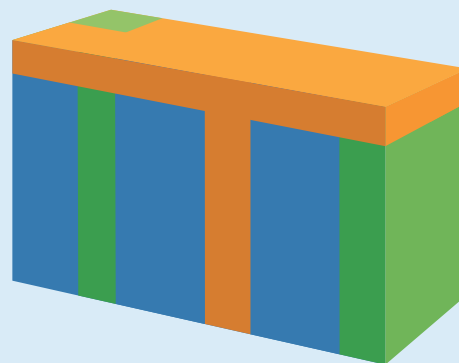
ACB panel



Outgoing section
with front cable entry

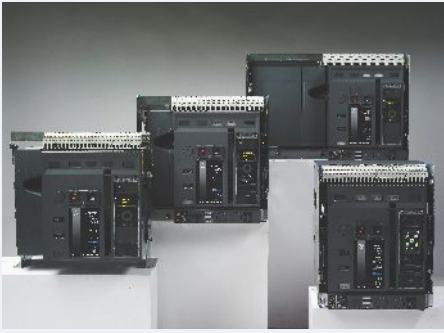


Outgoing section
(double front arrangement)



ACB section
coupled with
outgoing section

- Feeders
- Cable alley
- Busbar



ACBs



MCCBs



SDFUs

THE PERFECT MATCH FOR YOUR Ti SYSTEM

L&T is India's leading switchgear company and offers the widest range of electrical standard products, compliant with Indian and global standards. Our in-house design and testing facilities enable us to create customised solutions which combine type-tested Ti switchboards with a wide range of perfectly-matched L&T switchgear configurations. All, so that you can achieve the highest levels of cost and design optimisation possible with your Ti system.

Type-tested L&T switchgear to match your Ti system.

Air Circuit Breakers	Moulded Case Circuit Breakers	Switch Disconnecter Fuse Units
<p>400A to 6300A in three optimized frame sizes</p> <p>Short circuit breaking capacities up to 100 kA</p> <p>50/100/200% Neutrals available</p> <p>Common height and depth across the range</p> <p>Arc chute interlocking</p> <p>No derating at higher ambients</p> <p>Energy saving pole design</p> <p>Independent locking of ON/OFF buttons</p> <p>Tool-less fixing of Voltmetric releases</p> <p>Display of complete accessory information on front facia</p>	<p>20A to 1250A in 3/4 pole variants</p> <p>Positive isolation</p> <p>Short circuit breaking capacities up to 70 kA</p> <p>Microprocessor, Thermal Magnetic and Magnetic based releases</p> <p>Wide range of snap accessories</p> <p>Ergonomic design</p> <p>User friendly features</p>	<p>32A to 800A</p> <p>DP/TP/TPN versions available</p> <p>Suitable for DIN, BS and Cylindrical type fuses</p> <p>High Short circuit rating of fuses(100kA)</p> <p>Full AC23A utilization category</p> <p>Positive isolation of fuses</p> <p>Separate arcing and current carrying zones</p> <p>Quad break contact system</p> <p>High clearance and creepage distances</p> <p>Built in isolable or add-on switched neutral</p>