

HEAVY EQUIPMENT, MOBILE MACHINERY AND OUTDOOR SYSTEMS

Power it. Control it. Prove it.

The electrical line for the machine that works outside and the site it works on: **the switching and conversion on the electric platform, the controls that take the vibration, and the data that comes back from the field.** The manufacturers Dynamic Measurement and Control Solutions represents, organized the way you design, with an application engineer on the phone before the spec locks.

Power it

Energy in, converted, moved. And the switching and protection that keeps it safe.



SCHALTBAU

Off-road electrification, switched and connected

Electric construction and mining machines run on DC that never crosses zero. Schaltbau DC contactors clear the arc with permanent-magnet blowout in an open chamber, **bidirectional, to 3,000 V**, with shock and vibration ratings for the machine; HV connectors at 1 kV and 470 A, and LV connectors to 500 A for the forklift and the yard tractor.



PREMIUM PSU

AC on the machine, from the pack

An electric mining utility truck runs welders and compressors on **three-phase AC from its own battery**: ODX-6000 6 kVA inverters, parallelable, built for dust, vibration and temperature extremes. OPS-260 inverters sealed to IP66 for the open deck, CMS-2000 DC/DC to IP69K from a 180 to 950 V pack, and -40 to +70 C ranges available across the line.



CELDUC

Heat and motion switched with nothing to wear

Solid state relays for cab heat, hydraulic-oil heaters, and the motor reversing and soft-start duty on a crane or hoist, 4 to 125 A, **no contact to bounce on a bump**. Magnetic and reed sensors for door, boom and position detection, sealed, stainless versions for the wet end.



WALTHER

Portable power to the work

Power distribution on a hand truck: 30 A in, a step-down transformer and surge protection on board, outlets where the crew is working. Portable PDUs from 40 to 400 A with **GFCI-protected outlets**, genset and emergency-power inlets ready before the outage, drive-over cable bridges for the yard. UL Listed and CSA Certified pin and sleeve.

Control it

Commanded, coordinated. The drive that takes the shaking and the panel you run with gloves on.



IMO

Drives built for vibration

Jaguar drives including **harsh-environment models built for vibration**, for the irrigation pump, the conveyor and the crusher feed; contactors and motor circuit breakers from compact to heavy frames; iSmart smart relays and XGB PLCs with license-free programming for the pump house and the wash bay. Same-day dispatch from US stock.



GETT

Input that works with gloves on

Capacitive keyboards and switches that read a **gloved hand through a sealed front**, stainless steel keypads that shrug off weather and abuse, optical switches with no moving part, and InduSmart panel PCs with an IP65 front for the cab and the service bay.

Prove it

Proven, not assumed. Machine state from the field, and the depot bill.



BRAINBOXES

-40 to +80 C, in the cabinet on the machine

Compact unmanaged switches on the DIN rail that hold **-40 to +80 C** in a roadside cabinet, and board-level Ethernet 55 by 55 by 10 millimeters designed into the machine's own controller. Sealed-enclosure networks that have gone subsea on inspection vehicles.



BRAINBOXES

Field to the office over fiber

Managed switches with **SFP fiber ports** carry the sensor network across a farm or a pit, past the distance and the EMI copper cannot, and put the legacy PLC and the new sensors on one network. Sixteen ports on one DIN-rail footprint when the cabinet is full.



BRAINBOXES

Machine state without touching the controller

Remote I/O reads run states, counts and temperatures at the sensor and presents them as **Modbus TCP devices the fleet or plant system polls**, on a machine whose controller is off-limits. The manual station counts too: a pushbutton or a foot switch is a digital input.



SATEC

Every charger feed, one device

BFM-II meters up to **54 single-phase or 18 three-phase circuits** from one DIN-rail unit, against two voltage sources. Each depot charger, the pump station and the shop carry their own kWh, so **the demand charge has a face**. HACR split-core sensors clip on around the conductor, so it goes into a yard that is already running.

Foundation

Looks simple. Fails first. Where the schematic meets the panel.



CONTA-CLIP

Terminals and entries that take the vibration

Spring-clamp terminal blocks that hold under vibration, KDS-FB flat-cable entries built for industrial trucks, cranes and elevators, and KDS split entries that pass a pre-terminated harness through a sealed wall, IP66 from -40 to +120 C.



WISKA

Junction boxes built for outside

COMBI junction boxes to IP66, UV and ozone resistant, quarter-turn lids, membrane entries that need no locknut, for the pump house, the pole and the pit. Glands, venting and the Brace conduit system around them, from a company that started on ships in 1919.

Ratings are thermal-bound

A DC contactor's voltage rating is quoted at its maximum thermal current; at a lower current it switches a higher voltage. Spec the breaking capacity you need, not a cycle count, and split make life from break life when you write it.

A pressure rating is a survival test, not a depth

A gland rated to a bar figure for a set time survived that test; it is not a depth rating and not an immersion rating. Tell us what the enclosure actually sees and we will match the entry to it.

Where we will say no

Anything deterministic, safety rated or inside the control loop stays with the controller vendor. Cable protection is for static and lightly moving runs, not a robot dress pack. We do not represent enclosures, cooling or motors. Listings are confirmed on your exact configuration when we quote it.

Talk it through at the design stage

If any part of this card raises a question mid-design, whether that is the contactor on the platform, the drive in the cab or the network in the cabinet, that question is exactly what we are for. A short technical conversation before the spec locks usually surfaces the options a datasheet does not.

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THE MANUFACTURERS ON THIS CARD

