



MINING

lectrus



Lectrus is a leading electrical systems integrator and custom metal enclosure designer and manufacturer. With more than forty years of history and experience, we offer a unique combination of services: innovative design solutions, project management, electrical equipment integration, site assistance and customer support.

We serve our clients with two of the highest capacity manufacturing facilities in the industry, located in the strategic locations of Chattanooga and Houston.

And with a comprehensive product line of equipment centers, operator centers, custom enclosures and skids, we provide protective and flexible solutions for use throughout the mining industry.

MINING



Sand, Aggregates and Precious Metals

Mining facilities face more than tough competition—they face some pretty tough conditions. While striving to maintain high safety standards and efficient operating costs, companies demand rugged protection for the critical equipment that controls power generation and distribution.

Solutions must withstand:

- // Weather
- // Environmental and equipment temperatures
- // Shock
- // Dust and particulates
- // Mining process vibration

And with mining, whether coal, mineral, aggregate or quarry, dust is always a special hazard, both to people and sensitive equipment.

Additional unique challenges exist – large electrical equipment may be frequently moved to follow operations, either from site to site or with reconfiguration of centenary power lines. This requires protection options that are mobile as well as durable.

Your Lectrus team possesses the unique experience and skills required to give you the full range of custom solutions you need to protect and move critical electrical controls in a demanding environment.

PRODUCTS



Our products are rugged, reliable and flexible, giving you options for materials, space requirements and future expansions. They're convenient: we can install and test most of your power, control and wiring applications for you, providing a complete and economical turnkey solution that lets you skip the hassle of working with multiple vendors. And they can also save you money. Not only can you decrease onsite construction costs, you may be able to depreciate our mobile centers as equipment for sizable tax savings.

Equipment Centers

It doesn't matter if you want to move it, stack it, expand it or drag it – we can give you an equipment center that will do exactly what you need. Our prefabricated modular metal centers typically safeguard low, medium and high voltage electrical equipment that either you or one of our electrical equipment partners provides. This includes motor controls, switchgear, drives, generators, rectification, DCS, PLC and more.

Whether specs call for NEMA 3R, 12, 4 or 4X protection or NFPA 496 pressurization standards for explosive environments, we can build a custom solution that meets your specific needs and is much easier, more economical and versatile than site-built buildings. In addition to pressurization, filtration, coating and acoustic insulation options, we also offer various tiers of structural protection:

Structural Protection Levels

1. G90 galvanized steel for walls and roof, protected with epoxy paint with polyurethane topcoat or an optional severe duty coating system
2. Aluminum construction
3. Stainless steel construction

You can protect your important equipment, knowing that if it's important to you, it's important to us.

Operator Centers

When you need to protect personnel as well as equipment, consider a Lectrus operator center, constructed specifically to protect your people and controls from noise, dust and inclement conditions. Also known as pulpits, our operator centers are ideal for crusher operator buildings and other uses. Traditional shelters may not be able to accommodate the variety of conditions and requirements that a Lectrus center can, such as:

- // the inclusion of a classified security sector
- // high noise pollution
- // extreme weather
- // dust
- // atmospheric contaminants
- // sensitive equipment

Since dust and particulates are pervasive in mining operations, we can customize our operator centers with HVAC and pressurization choices, including FDA class one and class two division, or C1/D2 explosive environments. So both your people and your equipment can breathe easy.

Our operator centers feature most of the options available in our equipment centers, including insulation and noise abatement, fire protection, coating alternatives and various structural protection levels.

Lectrus can also combine operator and equipment center functions into one unit, either on a single level, or in a multi-level center that combines an operator pulpit with a lower level equipment center.



ELECTRICAL EQUIPMENT CENTER AT AGGREGATE MINING FACILITY

Custom Enclosures

Lectrus custom electrical enclosures are individually designed to house an extensive array of electrical controls and devices, and protect them from harsh industrial conditions. Our enclosures can be designed and constructed to meet NEMA 4, 4X, 3R or 12 requirements, and are available in stainless steel or aluminum alloy. We also offer additional structural and design options, such as wall or floor mounting to wrap-around or stand-alone units.

Skids

Thanks to Lectrus' innovative skid base, when your mining project moves, your equipment moves with you – safe and sound and ready to go. When you need a sturdy and portable alternative to a large equipment center, we can integrate your components and mount them onto our welded steel base, testing control wiring before transporting to your worksite in a single, convenient shipment. You'll be able to literally drag your equipment center from location to location within your mining operation or load and transport it for portability between mines.

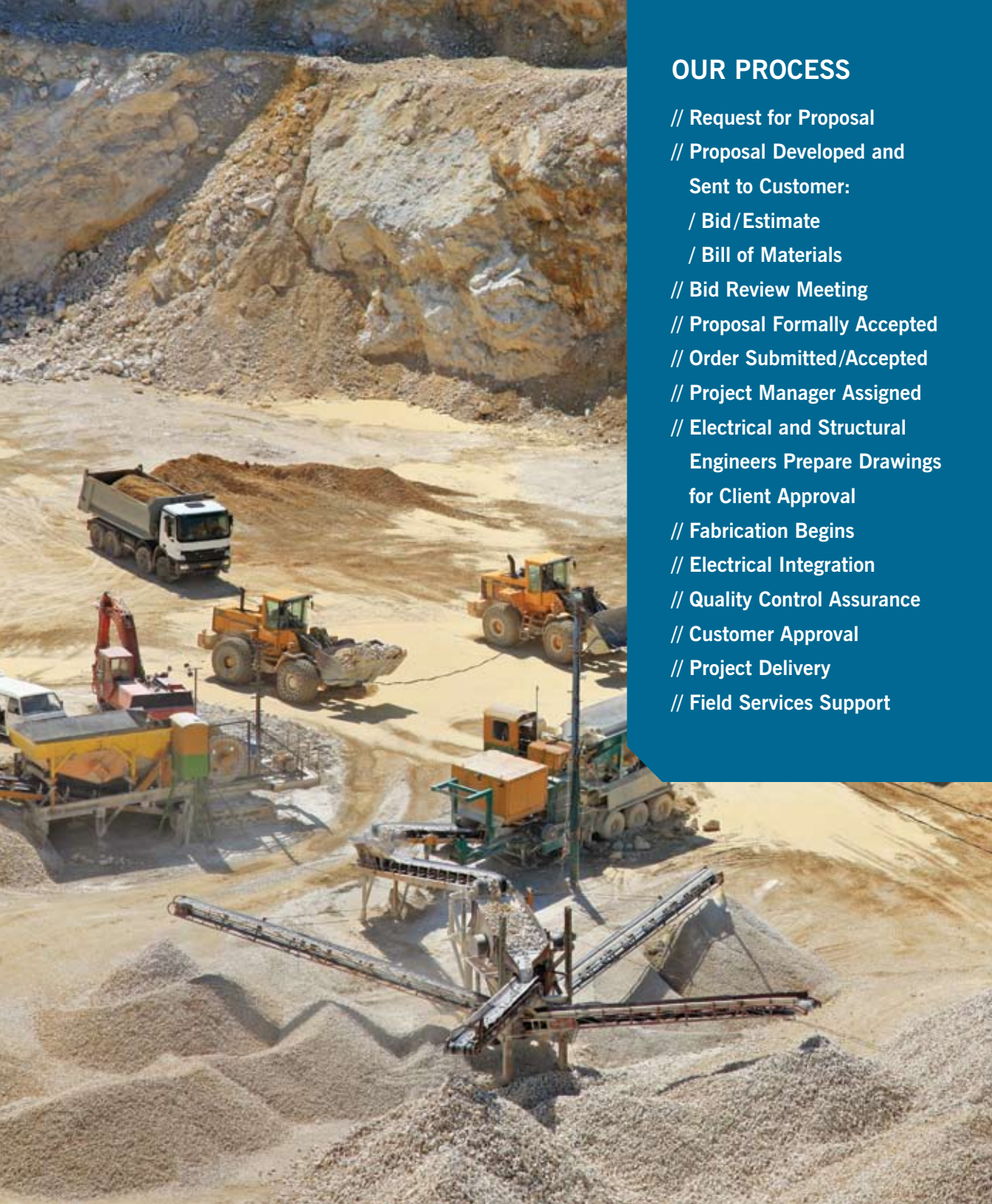
Also called a power sled, our steel skids also provide a low-cost option for placing equipment like pumps and compressors outdoors. They're even a convenient solution when retrofitting existing buildings or facilities with new electrical control and power equipment.

CHOOSE LECTRUS



Our customers depend on the consistent high quality that Lectrus has come to represent. Our products are custom-designed to meet your exacting specifications, and are built from tough materials to stand up to harsh conditions. Through our experience working with a variety of mining operations, we've developed a range of offerings that give you the protection you need and the mobility you want.

We have your customized project solution – Engineered to spec. Built to last.



OUR PROCESS

- // Request for Proposal
- // Proposal Developed and Sent to Customer:
 - / Bid/Estimate
 - / Bill of Materials
- // Bid Review Meeting
- // Proposal Formally Accepted
- // Order Submitted/Accepted
- // Project Manager Assigned
- // Electrical and Structural Engineers Prepare Drawings for Client Approval
- // Fabrication Begins
- // Electrical Integration
- // Quality Control Assurance
- // Customer Approval
- // Project Delivery
- // Field Services Support

For additional information or to submit a request for a project bid, please contact:

800 445 8791

423 894 9268

lectrus.com

email: sales@lectrus.com



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ENGINEERED TO SPEC. BUILT TO LAST.

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