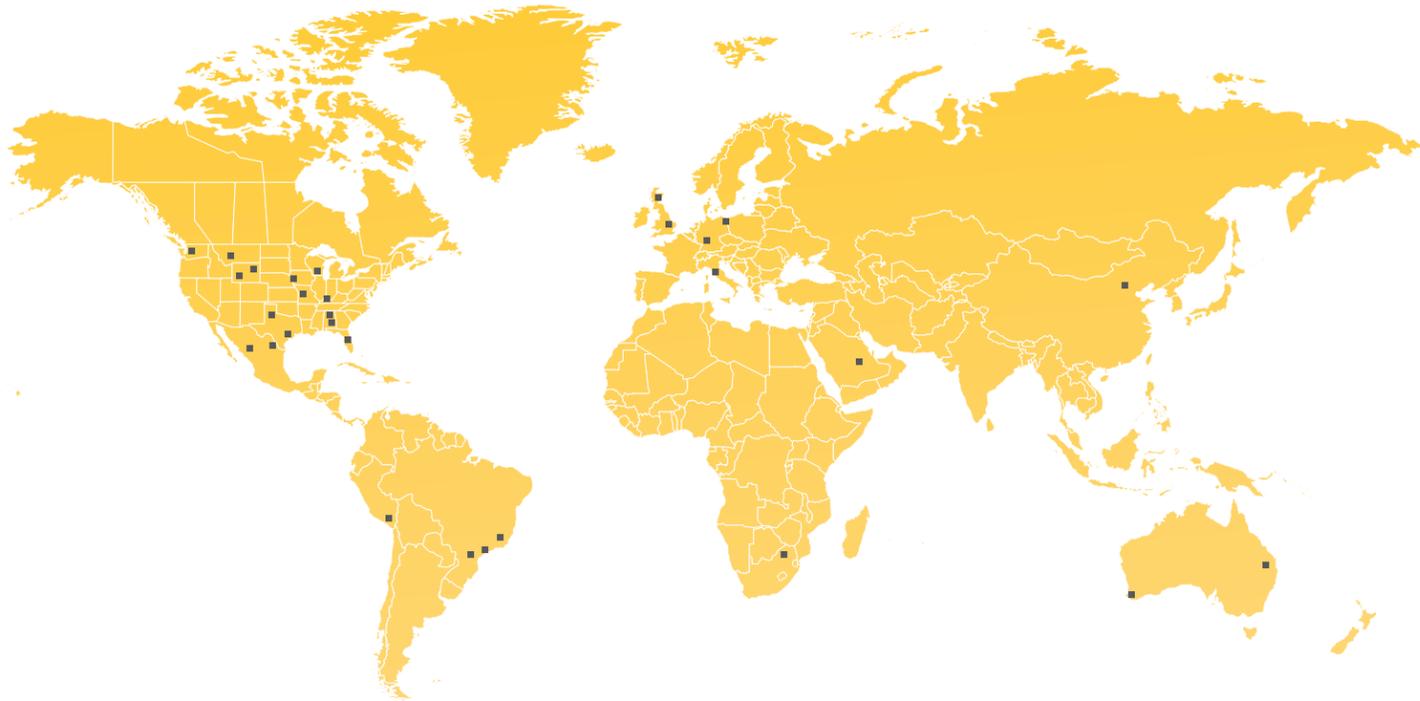


CONTACT US



NORTH AMERICAN SALES

Susan Hastings
National Sales Director
shastings@progressrail.com
Office: 816-503-3784
Toll Free: 888-701-3479
Mobile: 256-558-0326

INTERNATIONAL SALES

(including Europe, Africa, the Middle East and broad Asia Pacific)

Adam Todd
International Business Development
atodd@progressrail.com
Phone: +44 (0) 115 9218 248
Mobile: +44 (0) 7964 057591

SOUTH AMERICAN SALES

Luiz Melo
South American Business Development
lmelo@progressrail.com
Office: 55 11 4070 5288
Mobile: 55 11 97019 0338

SOUTHEASTERN ASIA

Rob MacGregor
Southeastern Asia Business Development
rmacgregor@progressrail.com
Office: +61 8 9456 5666
Mobile: +61 400241443

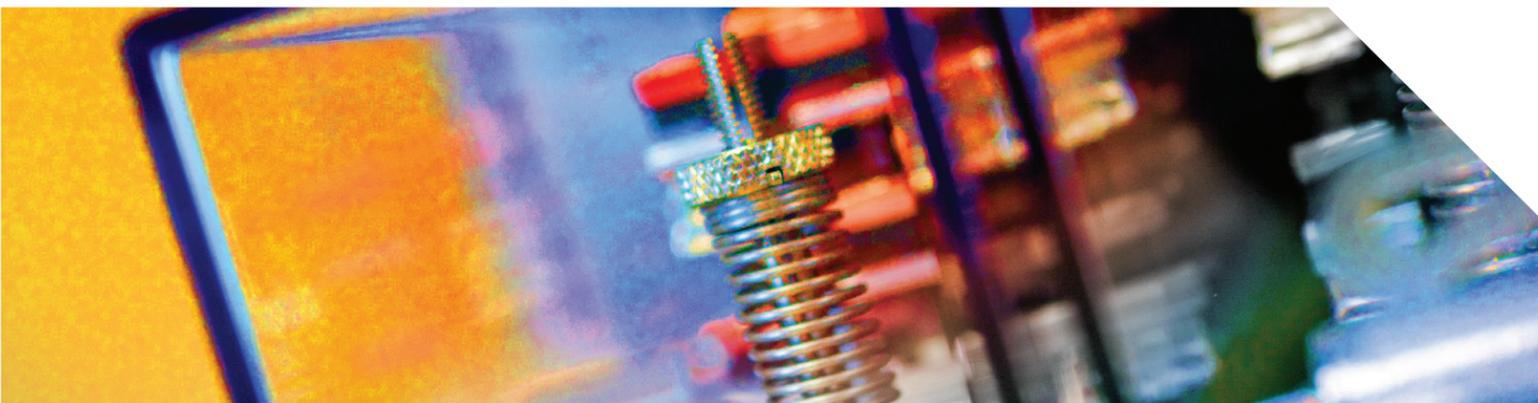
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SIGNAL SOLUTIONS



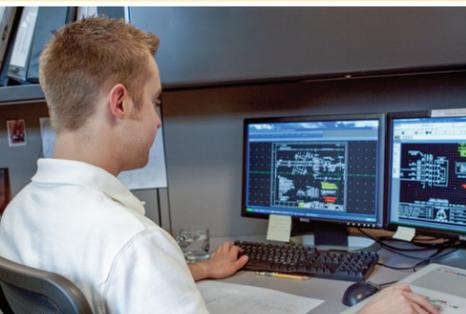
Our signal engineers design CTC systems, interlockings and grade crossing warning systems, program vital processor applications, upgrade rail yards, perform preliminary engineering for numerous freight and transit customers, and provide field service and training. We are also a resource for turnkey project management, taking a project from material procurement through engineering design and field installation.



Progress Rail
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Progress Rail

has been designing wayside and highway crossing systems for railroads since 1992. With 100-plus engineers and designers, we create MicroStation and AutoCAD circuit plans, cutover aspect charts and scaled track profiles, perform braking analysis, and create vital and non-vital application software. Our expertise includes Microlok, VHLC and ElectroLogIXS, CAB signaling, HXP, XP4 and GCP4000. We also provide bungalow testing services and field technical and commissioning support. All of our signal facilities are ISO 9001 certified.



ENGINEERING & PROJECT MANAGEMENT

We are a resource for turnkey project management and work with various railroads on Positive Train Control (PTC) upgrades to signal systems and PTC data mapping. Our experienced signal engineering team designs CTC systems, interlockings and grade crossing warning systems, programs vital processor applications, upgrades rail yards, performs preliminary engineering for commuter rail systems, and provides field service and training. Whatever your PTC need, we are ready to assist.

CAD

- > Standards development
- > QA/QC compliance checks
- > Field surveys
- > As-built drawings
- > Off-site file security and backups

SYSTEMS DESIGN

- > Transit
- > Class I
- > Regional
- > Short Line
- > Switching and terminal railroads
- > Positive Train Control

SIGNAL ENGINEERING

- > CTC Systems design
- > Crossing warning systems
- > Interlocking systems
- > Program and vital test applications
- > Upgrade rail yard systems
- > PTC upgrades/mapping

SOFTWARE ENGINEERING

Let us put our extensive experience in programming and designing software to work for you. We provide software testing for any size location, and also have broad software engineering experience in programming various signal manufacturers' products. Our facilities can design software utilizing all versions of VALC, ACE, ALP, GEN, MLK, or DT compilers. Our testing facilities are equipped with a variety of solid-state microprocessor devices, which include EC4 and EC5, VHLC, ElectroLogIXS, XP4, GCP4000 and Microlok II. We provide software testing for any size location, including end-to-end testing of multiple plants. This is accomplished by rack testing or utilizing simulators such as Vital-Sim or SATS.

APPLICATIONS/PROGRAMMING

- > Vital signal programming
- > Non-Vital signal programming
- > Software configuration management
- > Rack and bungalow pre-testing
- > Software simulation
- > In-service and commissioning tests

ASSET PROTECTION

Keep trains moving safely by monitoring wheel and bearing temperatures and inspecting dragging equipment and high, wide or shifted loads. Our inspection systems offer a wide range of track-mounted equipment to aid in defect detection, diagnostics and monitoring. From protecting the ties and track to other high value assets. Progress Rail is able to take the guesswork out of designing asset protection solutions to meet customer needs. These systems are delivered as stand-alone systems or integrated into existing CTC systems. We also offer the latest in crossing recorders and monitoring, as well as Onsite – central management software to remotely monitor crossings.

- > Hot Bearing Detector Systems
- > Tag Readers
- > Dragging Equipment Detectors
- > High/Wide Load Detector
- > Onboard Detection Systems
- > Data Acquisition and Analytics
- > Crossing Protection



MANUFACTURING, INSTALLATION & MAINTENANCE

Not only do we have the engineering and software expertise to help you meet your signal and communication requirements, we also have the ability to deliver complete manufactured structures, and take care of installation and maintenance, too. We manufacture cantilevers and gate assemblies for grade crossings, signal bridges and mast ladder platforms for wayside signaling systems, in addition to other unique structures, such as flood platforms. Our wire shop excels in the manufacture of top quality custom Local Control Panels and Cutover Test Panels designed to site specific locations. Whatever the size or the need, our signal team can build it.

As a leader in the rail crossing, signal installation and maintenance business, Progress Rail provides field management and construction services for large, ongoing projects. We provide a turnkey approach, from survey through design and installation – so you can contact one company to handle your signal needs. We design, build and install on average 100 turnkey signal packages per year. We also offer contract services to maintain, test and supply material for highway railroad intersections. Progress Rail has continuing contracts with more than 80 railroads and industries.



GATE/FLASHER PLATFORMS

- > Excellent for steep grade slopes
- > Aluminum construction
- > Sturdy handrails
- > Available for new or existing installations

FLOOD PLATFORM ASSEMBLIES

- > Heavy-duty steel construction
- > Raise house and signals
- > Gradual sloping stairs
- > Standard part numbers for 4'x4' to 8'x8' houses between 12' - 16' height

SIGNAL INTEGRATION

Through the acquisition of Inspired Systems, Progress Rail now offers even more specialized signal integration solutions for our global customers, including but not limited to:

- > Predictive Condition-Based Monitoring for Wayside
- > Rail Asset Protection and Management
- > Project Management
- > Software, mechanical and electrical design and implementation
- > On-site installation, commissioning services and quality control

