

DYWIDAG-SYSTEMS INTERNATIONAL



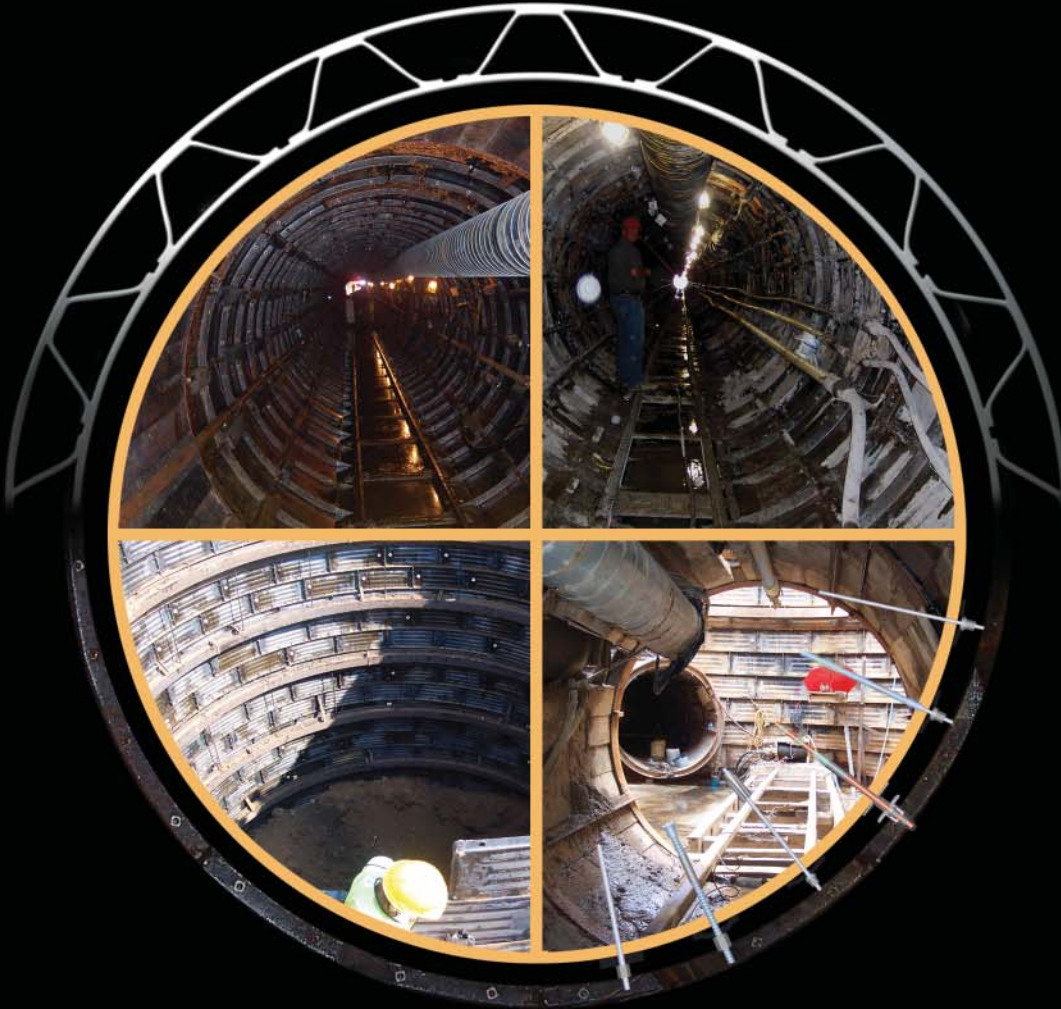
Local Presence – Global Competence

UNDERGROUND SYSTEMS

www.dsiunderground.com



Local Presence Global Competence



SUPPORT PRODUCTS

DSI Underground Systems, Inc offers the most complete selection of underground support products in the world. In fact, we have been a global leader in underground construction since 1920. Each support system is custom tailored and professionally engineered to the customer's specific application.

Steel Ribs – DSI's cold form beam bending capability ranges from W4" to W27" sections.

Liner Plates – DSI's stamped four-flange liner plates offer economy of construction in time, excavation, materials, and manpower. Continuous support for the critical mining phase is provided for both tunnel and shaft construction. Provided in both 16" and 24" widths.

Lattice Girders – Provide immediate support for both tunnel and shaft construction with NATM or sequential Excavation Method (SEM).

PRECAST CONCRETE SEGMENTS



Design and manufacture of custom concrete tunnel segment moulds, segment handling equipment, and turnkey segment manufacturing plants.



Formerly Ashley Forge, C & T has a long history of specializing in manufacturing of bolts to the tunneling industry, primarily for connecting precast segments.

bosworthplasticslimited



Designer and manufacturer of the Dowelock system, for alignment and locking together precast segment rings.



Designer and manufacturer, under the trade name Heinke, of tunnel segment gaskets (TSG's).

OTHER SUPPORT RELATED PRODUCTS

a **DSI** company



DSI Threadbar rock dowels and bolts, cable bolts, rebar rockbolts, strand anchors, mechanical anchors, Fasloc polyester resin, wire mesh.



IBO self-drilling anchors, soil nails, AT casing system – canopy tubes, AT Power set Friction bolts, AT Power set self-drilling tube spiles, Ruukki Swellex bolts.

VIKORSTA



CT-Bolt, permanent mechanical double corrosion protection rock anchors.



Fiberglass standard and self-drilling Rock Dowels for face support and rock support.



Calcium Silicate Fire-Proofing boards for passive fire-proofing concrete lined tunnels and underground structures.



Manufacture and supply of measurement equipment for recording and monitoring geological conditions in tunnels.

EQUIPMENT AND RELATED PRODUCTS



Pile Top and Blind Shaft Boring Machines, Tunnel Boring Machines, Raise Boring Machines and Road Headers.



Probe and Anchor Drills for Tunnel Boring Machines.



Grout Plants and systems for Foundation work, Tunneling, Pipe Jacking, Soil Mixing, etc.



Shotcrete equipment, wet and dry, from small units up to completely computer controlled robotic units.



TBM rolling stock, Muck Boxes with many different dumping styles, Segment cars, Flat cars, Man Cars, etc.



LUBRIFIANTS

Bio-Degradable and Fire-Resistant Hydraulic Fluids and Greases, Ground Conditioners/Additives and 2 component back fill grouts.



TBM Cutting Tools for existing retro fits, new equipment design tooling, and entire cutter heads are available, all to provide less tool changes underground.



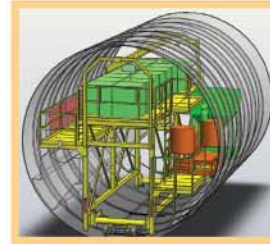
"We get around UNDERGROUND!!"

Custom manufacturer of purpose built, diesel and battery powered, rubber tired, personnel and supply vehicles for underground use.



TUNNELING, CONSTRUCTION AND MINING FABRICATION & SERVICE

DSI's Abingdon, VA operation provides a full service, ISO9001 approved facility for all of your fabrication needs - with over 50 experienced and flexible employees, and a full compliment of equipment for the preparation, machining and welding of structures up to 120,000 lbs finished weight. With in house Engineering support, using AutoCAD, SolidWorks 3D CAD and COSMOSworks Finite Element Analysis, we can support the manufacture of your designs, provide support of any repair, overhaul or remanufacturing of existing equipment, or provide turn-key design-build solutions if required.



REPAIR & OVERHAUL - PRODUCT ENHANCEMENT



Unhappy with your capital investment? Allow our engineering team to assist you in upgrading and modifying your equipment during the repair, overhaul and remanufacturing process. Onsite availability of all R&O resources assures the minimum possible turnaround time, with highly competitive shop rates for high quality, low cost repairs.

SYSTEM BUILD

Whether it be complex Grout Gantries, Drill Decks, Ventilation Platforms, TBM Seals, equipment transportation solutions or belt transfer stations – we can assist through design concept, build, test, assembly and field commissioning. Broken down for a simple spare? Call us for rapid quote and turnaround.



TBM Seal



California Switch Repair



Muck Boxes

PROVEN PERFORMANCE

Kelley
Engineered Equipment, LLC

ISO 9001
BUREAU VERITAS
Certification
N° 00000



Safety, Rescue and Communication Products

BioPak 240R – the new standard in Extended Duration, Closed Circuit Tunnel Rescue Apparatus. Purchase and Receive Factory Authorized Benchman & User Training.



**Telephones, Fire Suppression,
Monitoring, Leaky Feeder Systems**



WWW.PYOTTBOONE.COM

BIOMARINE
REBREATHERS



mine.com
the leader in mine communications.

MSA
The Safety Company

**General Safety, Gas
Detection, Fall Protection**

MINING PRODUCTS

Slope, Shaft, Canopies & Roof Fall Arches



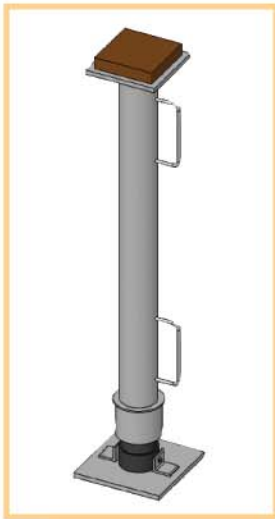
- Custom designed for any entry
- All-steel construction
- Impact resistant
- Reusable

Overcasts



- Rapid assembly and reusable
- As few as 6 major pieces
- Light and heavy-duty galvanized designs
- Arched and square designs
- Any size
- Flat panels to transport

Appalachian Posts N.I.O.S.H. Tested



- 6 or 9 inch adjustable
- 90 ton yield element
- 10 ton preload
- 140 ton maximum

Steel Lagging



Adjustable Support Jacks



- 12 inch adjustment
- Up to 100 ton capacities
- Schedule 80 pipe
- Beam clamps or cone heads
- All-steel construction

Raise Borer



Blind Boring Rig



Road Header



BRISTOL, VA

- Corporate offices
- Specifically concentrates on Mining Products, fast turn around, short run items.
- 4" beam work, overcasts, threaded bar.



LOUISVILLE, KY

- Main manufacturing facility for all support steel.
- Liner Plates, Lattice Girders & Steel Ribs for tunnels and shafts.
- Wide flange beams, up to 27" can be rolled in both directions.



ABINGDON, VA

- Manufacture and Repair of JOY Mining Equipment under Vendor Alliance Agreement.
- Tunneling and Mining fabrication.
- Hany, Wirth, Aliva and safety equipment warehouse.



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DSI Underground Systems, Inc.

276.466.2743

www.dsiunderground.com

Corporate Office and Bristol Plant • 200 Bob Morrison Boulevard • Bristol, VA 24201-3810, USA
Phone +1-276-466-2743 • Fax +1-276-669-0940

Louisville Office • 1774 Mellwood Avenue • Louisville, KY 40206-1756, USA
Phone +1-502-473-1010 • Fax +1-502-473-0707

Abingdon Manufacturing Plant • 26161 Old Trail Road • Abingdon, VA 24210-7631, USA
Phone +1-276-623-2784 • Fax +1-276-623-8273