

# Tunnels

AND TUNNELLING



*The A to Z guide of consultants, contractors,  
manufacturers and suppliers*

# Greatness

The Herrenknecht EPB shield S-900 (Ø 15.87 m) is currently the largest tunnel boring machine in Europe. It will soon be ready to bore the 7,528 meter long **Santa Lucia Tunnel** in the Apennines.

# Together

More than **225 kilometers** of high-class road tunnels have been built globally, using cutting-edge Herrenknecht tunnelling technologies.

**Contractor:**  
Pavimental S.p.A. (Gruppo Atlantia)

**Client:**  
Autostrade per l'Italia S.p.A.

## Pioneering Underground Technologies



www.herrenknecht.com

## GOOD COMPANY

One of the signs that the tunnelling industry is improving its image, that the work it carries out is getting recognition, is the increasing number of political appearances and photo opportunities. In one recent dalliance, the German minister for economic affairs and energy, Sigmar Gabriel, visited Hong Kong's Shatin to Central Link contract 1128 during an excursion from a nearby infrastructure conference.

In this case Gabriel is visiting Herrenknecht, really. The German company is having great success in Hong Kong and the underground is politically fashionable back in Europe.

In the UK, politicians scramble to attach themselves to infrastructure. A recent headline splashed across numerous publications tells of Boris Johnson, the former Mayor of London upstaging the Queen at the Crossrail naming ceremony. His successor too, Sadiq Khan, was quick to get photographed riding the new line and to add his voice to calls for Crossrail 2.

In Australia, a number of major projects are underway across the usual cities. But even Perth, Western Australia, a spacious at-grade city is looking to the underground for its new airport

### Alex Conacher

The *Tunnels and Tunnelling* editor has been with the magazine since 2010



link. West Australian Premier Colin Barnett recently denied that the Airport Link was a bid to win votes in marginal seats.

In the Czech Republic, the Deputy Mayor of Prague is calling for a second Blanka Tunnel within 10 years (see Editor's Comment, *Tunnels and Tunnelling International* December 2016, page 3).

Being in the good graces of politicians is a good sign for an industry improving its safety record, getting better at budget and timetable discipline and taking on more technically impressive structures.

Their help is vital for getting project approval, and their understanding allows for increasingly ambitious projects.

But to carry the schemes through and ensure the good will continues, companies worldwide need to work with the best in the industry. Read on

### Listings

- 7 Materials**  
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The *Tunnels and Tunnelling* A to Z of consultants

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### Listings Guide

#### RELIABILITY

All the information supplied in this book was submitted by individual companies listed. The accuracy of the listings is wholly dependent on the accuracy of the information supplied.

#### CURRENCY

All currency values are expressed as USD millions unless stated otherwise.

#### LEGEND

- ADECO-RS: The analysis of controlled deformation in rocks and soils
- C&C: Cut and cover
- D&B: Drill and blast
- EPBM: Earth pressure balance machine
- HRTBM: Hard rock tunnel boring machine
- IMT: Immersed tube
- ME INSTALL: Mechanical and electrical installation
- NATM: New Austrian Tunnelling Model
- RB: Raised boring
- REFURB: Refurbishment
- RH: Roadheader
- SAFETY INSTALL: Installation of safety equipment
- SCL: Sprayed concrete lining
- STBM: Slurry tunnel boring machine
- TBM: Tunnel boring machine

# 45 Years of development in Tunnelling Equipment

## ITC 120N F4



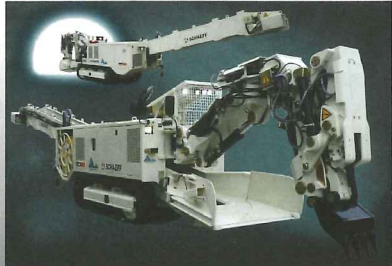
Loading capacity up to 2.5 m<sup>3</sup>/min  
Operating weight : 21 t  
Electric (55 kW) and Diesel (75 kW)

## ITC 120N F3



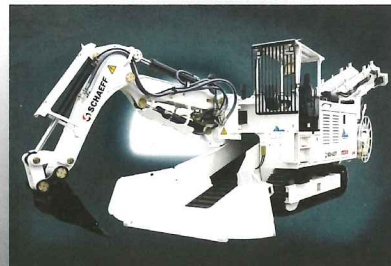
Loading capacity up to 2.5 m<sup>3</sup>/min  
Operating weight : 21 t  
Electric (55 kW) and Diesel (75 kW)

## ITC 120N F2



Hammer / Bucket combination  
Operating weight : 24 t  
Electric (55 kW) and Diesel (75 kW)

## ITC 312N H3



Loading capacity up to 5.0 m<sup>3</sup>/min  
Operating weight : 35 t  
Electric (90 kW) and Diesel (165 kW)

## ITC 312N H1



Loading capacity up to 3.5 m<sup>3</sup>/min  
Operating weight : 36 t  
Electric (90 kW) and Diesel (165 kW)

## ITC 312N H6



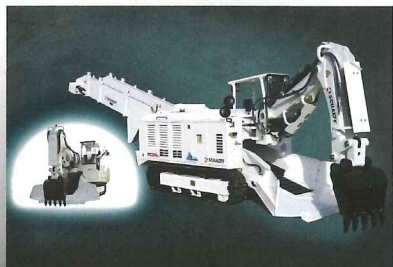
Hammer V32 / Bucket combination  
Operating weight : 38 t  
Electric (90 kW) and Diesel (165 kW)

## ITC BL4



Loading capacity up to 4.0 m<sup>3</sup>/min  
Railroad machine with rail gear  
Operating weight : 36 t

## ITC 312 SL



Loading capacity up to 12.0 m<sup>3</sup>/min  
The Superloader  
Operating weight : 42 t

## ITC 320 V45



Hammer V45 / Bucket combination  
Operating weight : 50 t  
Electric (132 kW) and Diesel (160 kW)

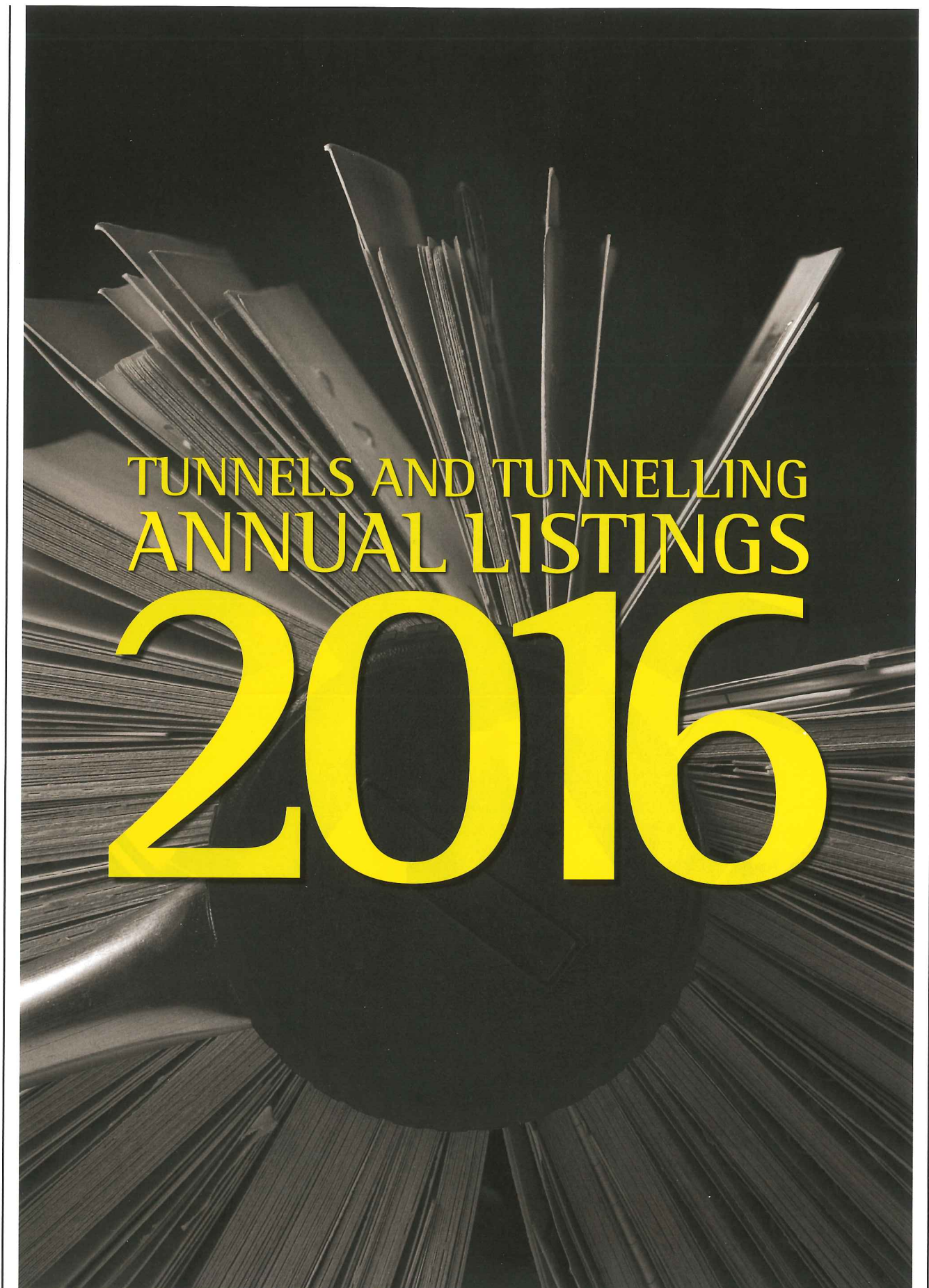


[WWW.ITCSA.COM](http://WWW.ITCSA.COM)

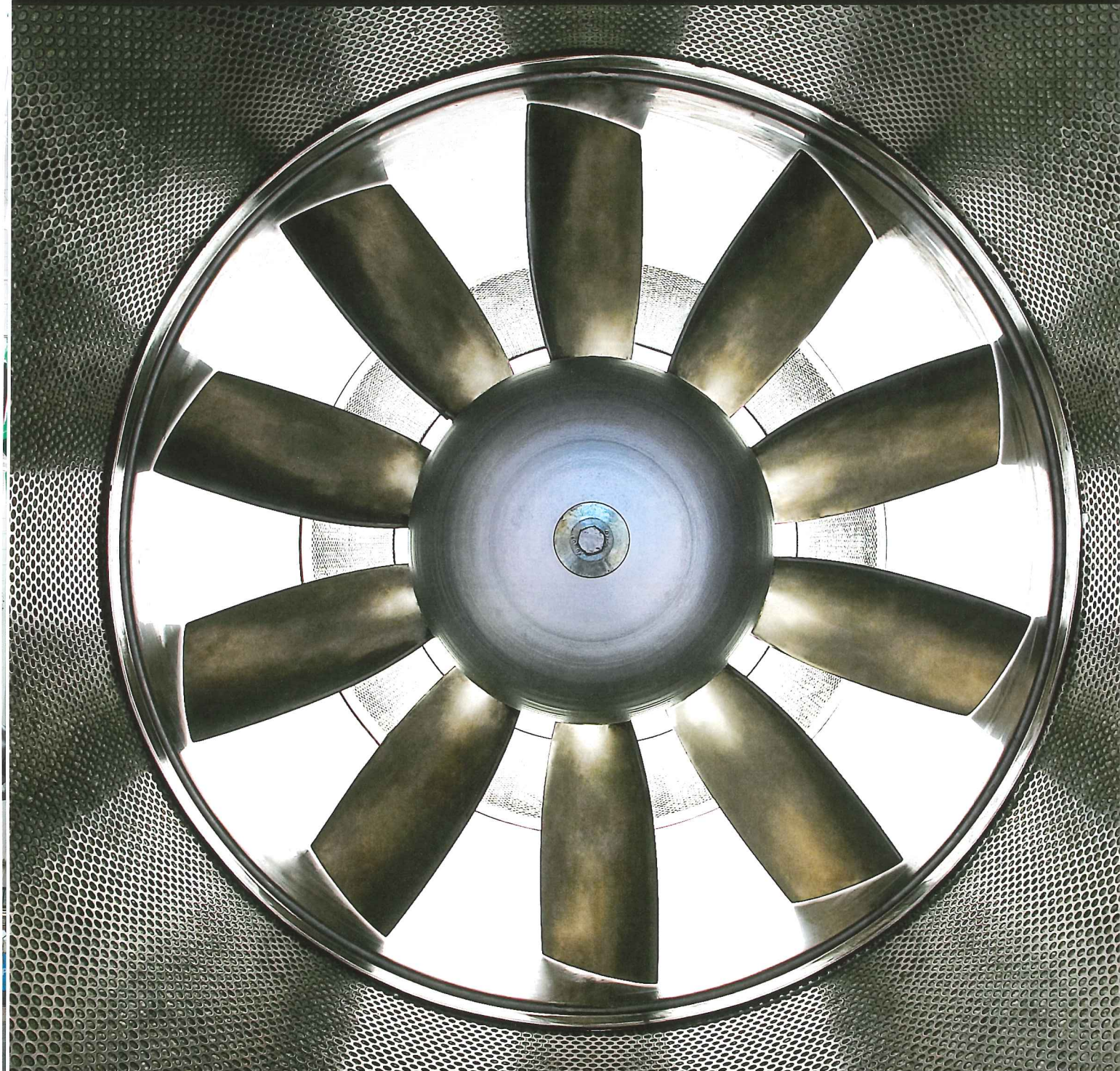
Fusion 122  
CH-1920 Martigny  
Switzerland  
+41 277 222 191



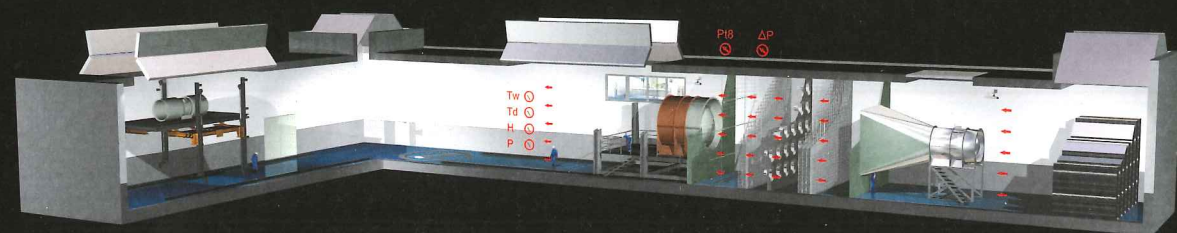
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by ITC GmbH



# TUNNELS AND TUNNELLING ANNUAL LISTINGS 2016



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# MATERIALS

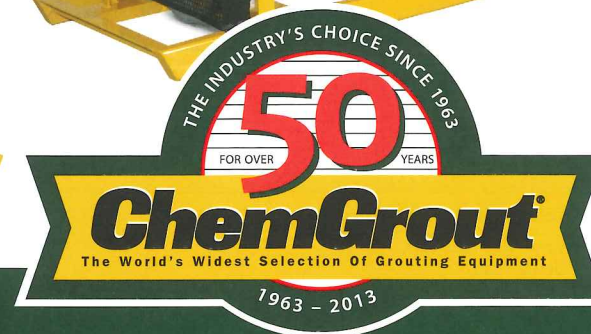
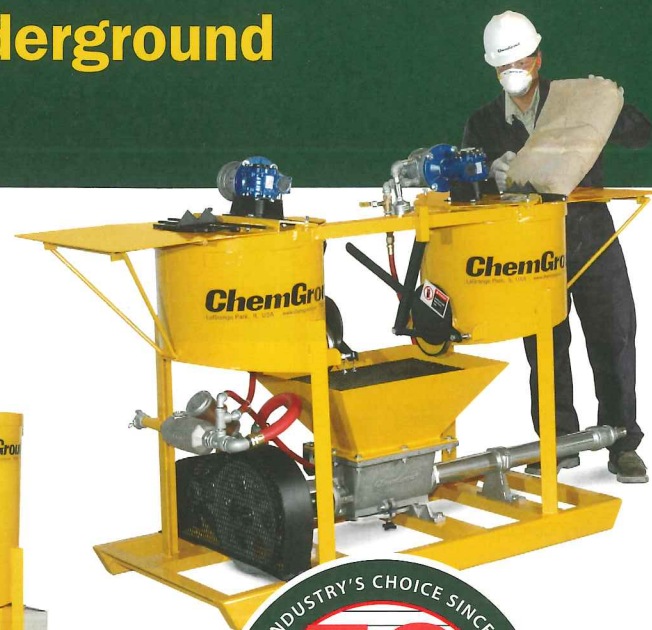
The alphabetical list of materials in the tunnelling industry, as collected by the *Tunnels and Tunnelling* survey

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
<b>American Chemical Technologies, Inc.</b> 485 E Van Riper Rd sales@americanchemtech.com +1 800-938-0101 <b>Primary Contact:</b> Kevin Kovanda	30	10									Lubricants.  Company profile	
<b>Anchorage Pipe Supports</b> 88 Oakes Road sales@anchoragegroup.com.au +61 2 6969 2333 <b>Primary Contact:</b> Greg Haak											Pipe Supports for all industries, Standard & custom designs, Height Adjustable Supports, Pipe Cradles, Pipe Hangers.  Anchorage Pipe Supports Specializes in Custom & standard design pipe supports for all industries including Oil & Gas, Water infrastructure, Waste Water & Marine. We have state of the art manufacturing facilities in Australia, and offer fast delivery to site anywhere in Australia. www.anchoragegroup.com.au	
<b>Bathan AG</b> Alte Steinhäuserstr. 19, 6330 Cham, Switzerland info@bathan.ch <b>Primary Contact:</b> Holger Streetz											Lubrication.  We are a Swiss supplier for high-performance ceramic lubricants that outperform conventional lubricants in many industries. Greases have prolonged lubrication intervals, and oil additives help decrease emissions.	
 <b>Bekaert Maccaferri Underground</b> SkylinE40 - Korte Keppestraat 23/02 9320 Erembodegem - Aalst contact@bm-underground.com +32 53 43 10 10 <b>Primary Contact:</b> Sofie Wijmeersch											Smart fibre reinforcement solutions.  Bekaert Maccaferri Underground Solutions, your global partner for smart fibre reinforcement of your tunnelling and mining project. We offer Dramix® Steel Fibres for the following applications: Shotcrete initial linings, final linings, shafts, precast segments and cast in-situ linings. We also have macro and micro-synthetic fibres: Synmix® - for temporary support in mining - and Duomix® M6 Fire - to increase the fire resistance of concrete. www.bm-underground.com	

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
<b>CMP INTERNATIONAL INC.</b> 200 Vanda Drive cmp@cmpcanada.com +1 416-623 6671 <b>Primary Contact:</b> Jian Yu											Self Drilling Bolt Systems and Fiber Glass Bolt Systems.  CMP International Inc. is registered in Ontario, Canada, serves the world in the area of rock & soil support & reinforcement technology; Supply quality hollow bar systems and GRP products that are made by its manufacture base in China, who are certified factory according to ISO9001:2008 to our global client with a competitive price; Research and develop new ground support & reinforcement technology our client need; Produces technical support & assistance and advice.	
<b>Colcrete Eurodrill</b> Tower Business Park, Derby Road, Clay Cross, Derbyshire, S45 9DX, UK. info@colcrete-eurodrill.co.uk +44 (0)1246 868700 <b>Primary Contact:</b> Peter Weinrich	40	0									Drilling equipment, grout mixing & pumping.	
<b>Cooper &amp; Turner Ltd</b> Templeborough Works, Sheffield Road, Sheffield, S9 1RS sales@cooperandturner.co.uk +44 (0)114 256 0057 <b>Primary Contact:</b> Michael Gill	250	5	£75m	£5m							Designers, manufacturers and suppliers of embedded and connection accessories for concrete segmentally lined tunnels. Our product range includes: Spear Bolts, Plastic Sockets, Curved Tunnel Bolts, T Head Bolts, Threaded Lifting Sockets, Grouting Sockets, Alignment Dowels, Guide Rods, Segment Spacers M&E Hole formers, Holding Down Studs and 'Spider' Alignment Spacers.	
<b>DAERYONG IND CO PTE LTD</b> 52A, Jalan Anggerik Vanilla Z 31 / Z, Kota Kemuning, Shah Alam, Selangor, 40460, Malaysia Office@daeryong.asia +60 3512 16110 <b>Primary Contact:</b> John Martin	100	75	25	20							Tunnel Segment Gaskets, Hydrophilic Waterstops.  Manufacturers of EPDM Tunnel Segment Gaskets, Hydrophilic Waterstops, and CONstruction Chemicals.	

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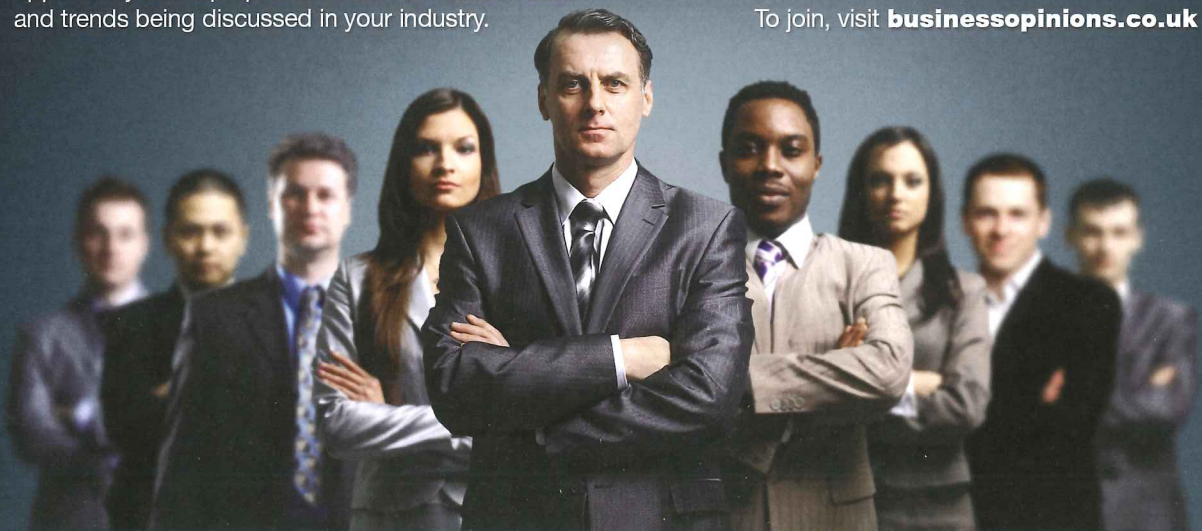
## BUSINESS OPINIONS


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Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in						Specialist areas	
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America		South America
<b>Excalibur Screwbolts Ltd</b> Gate 3, Newhall Nursery, Lower Road, Hockley, Essex SS5 5JU John.stevens@excaliburscrewbolts.com +44 (0)1720 206962 01702 206962/207909 Primary Contact: John Stevens	6	6	1.4	500k		✓	✓	✓	✓	✓	✓	Excalibur Screwbolts - Tunnel Systems Fixings.  Named after the legendary sword of King Arthur, Excalibur Screwbolts is based in Essex, England, serving the global engineering and construction industries in projects across tunnelling, railways, scaffolding, formwork etc.  Our multi-application range of bolts can be secured to the hardest materials including concrete, brick, timber and plate steel replacing all traditional fasteners available.  If you're looking for high performance, reliability and versatility - choose Excalibur.
<b>Excalibur Screwbolts Ltd</b> Gate 3, Newhall Nursery, Lower Road, Hockley, Essex SS5 5JU John.stevens@excaliburscrewbolts.com +44 (0)1720 206962 01702 206962/207909 Primary Contact: John Stevens	6	6	1	£100k		✓	✓	✓	✓	✓	✓	The Excalibur Screwbolt threaded anchors for all substrates.  Excalibur Screwbolts are the original inventors of the twin helix threaded anchor for all substrates which have been used extensively for fixing all types of services on major tunnelling projects worldwide including the CTRL & St Gotthard Tunnel.
 <b>FP McCann</b> Brascote Lane, Cadeby, Nuneaton, Warwickshire, CV13 0BB scarson@fpmccann.co.uk Primary Contact: Stuart Carson National Sales Manager Tunnelling, Rail and Power												Smoothbore Shaft, Tunnel Linings, Cover and Landing Slabs, Caisson Shaft Units, Jacking Pipes.  The FP McCann range of shaft and tunnel products has been developed to meet the requirements of the latest industry standards which include the British Tunnelling Society Specification and the Civil Engineering Specification for the Water Industry. Designed with consideration to the ease of construction and speed of installation, the FP McCann shaft and tunnelling systems offer strength, stability and overall performance in all types of ground conditions.  Tunnel and shaft products are manufactured in accordance with FP McCann's quality management system, BSI accredited to BS EN 9001.
<b>Lovsuns Tunneling Canada Ltd</b> 441 Carlingview Drive info@lovsuns.com +1 (647) 255 - 0018 Primary Contact: Hongyu Xue General Manager	100	100				✓	✓	✓	✓	✓	✓	Tunnel Boring Machines (Microtunnelling to Large Diameter) Spare Parts and Service.  Whether it's soft ground or hard rock, large or small diameter TBMs, Lovsuns will support you to succeed in the most challenging projects worldwide with our custom-made, reliable, durable and competitive product solutions from our facilities in Canada and China. We cover all major infrastructure segments.  +1 (647) 255 - 0018   <a href="http://www.lovsuns.com">www.lovsuns.com</a>


Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in						Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	
<b>Macrete Ireland Ltd</b> 50 Creagh Road, Toomebridge, County Antrim, BT41 3SE iain.hogg@macrete.com +44 28 796 50471 <b>Primary Contact:</b> Iain Hogg	165										Macrete are a family owned precast concrete engineering company supplying bespoke components to the civil, rail, water, stadium, marine and agricultural markets from their base in Northern Ireland. Macrete hold recently awarded patents and have a strong focus on innovation with a view to providing long lasting customer solutions.
<b>Mapei UK Ltd</b> Mapei House, Steel Park Road, Halesowen, West Midlands, B62 8HD utt@mapei.co.uk +44 (0)121 508 6970 <b>Primary Contact:</b> Steve Price					✓	✓	✓	✓	✓	✓	Underground Tunnelling and Mining Technology.
 <b>Mapei UTT</b> Mapei House, Steel Parl Rd, Halesowen, West Midlands, B62 8HD utt@mapei.co.uk +44 (0)121 508 6970 <b>Primary Contact:</b> Steve Price	200	3	£50m	£50m	✓	✓	✓	✓	✓	✓	TBM Lubricants, Grouting, Injection, Anchoring, Waterproofing, Admixtures.  MAPEI Underground Technology Team: The Answer. The Underground Technology Team is MAPEI's answer to the growing demand from the construction market for a range of products dedicated to underground construction work. Thanks to their capacity and investments in their R&D laboratories, and the technical know-how developed in all countries, MAPEI created the dedicated product range "Underground Technology Construction Products." "Underground Technology Construction Products."
<b>MC-Bauchemie Müller GmbH &amp; Co.KG</b> Am Kruppwald 1-8, 46238 Bottrop, Germany IN@mc-bauchemie.de +49 (0)2041 101-0					✓	✓	✓	✓	✓		


Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in						Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	
<b>Minova CarboTech GmbH</b> Minova CarboTech GmbH Am Technologiepark 1 45307 Germany bianca.milbach@minovaglobal.com +49 201 80983 500 <b>Primary Contact:</b> Bianca Milbach					✓	✓	✓	✓	✓	✓	Water Sealing, Injection Waterproofing, leak sealing Waterstops & seals Anchors Soil & Rock stabilization Hollow bar systems Piles & micropiles Pumps, Grout Rock bolting Steel support, lattice girders.  Minova is a global manufacturer and supplier of chemical and mechanical earth control products, adhesives and support equipment. With manufacturing plants on five continents and operations in over 25 countries, Minova is an industry-leading provider of ground support solutions for underground mining, construction, tunnelling and civil engineering industries. Minova service the Civil Construction industry as part of three unique entities under Orica which includes Orica and Nitro Consult.
 <b>Natural Cement Distribution Ltd</b> 15 Fountain Parade, Mapplewell, Barnsley, S. Yorks, S75 6FW enquiries@naturalcement.co.uk +44 (0)1226 381133 <b>Primary Contact:</b> Phil Richardson	20	7					✓	✓	✓		Sprayed Concrete Water Stopping Systems Grouts Low Carbon Products Environmentally Friendly Products Concrete Repair Materials.  Our special products are used by all sections of the Railway, Civil Engineering, Water, Utilities and Construction industries throughout the UK & worldwide. The products have proven to be environmentally friendly some with Reg.31 approval, chemically resistant, easy to use, and time saving. They are especially useful in wet & cold environments. Fast setting with high early strength gain is a standard feature of all products. Solutions for site specific problems are available.
<b>Naylor Industries Plc</b> Naylor House, Valley Road, Wombwell, Barnsley, South Yorkshire, S73 0BS info@naylor.co.uk +44 (0)1226 444350 <b>Primary Contact:</b> Liz Hudston	400	50	£50m	£2m	✓	✓	✓	✓	✓	✓	Manufacture of ventilation ducting.  We are a leading and long established British manufacturer of building and construction products. We have more than 125 years of manufacturing and supply experience to the construction, building and civils industries.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
<b>Numesh Inc</b> 3000 Francis-Hughes, Laval, Quebec, Canada H7L 7J5 michel.mongeau@numesh.com +1 450-663-8700 <b>Primary Contact:</b> Michel Mongeau	90									✓		Welded Wire Mesh Reinforcement (mesh and ladders).  Manufacturing of welded wire mesh for concrete reinforcement specialized in tunnel reinforcement.
 <b>Optimas Solutions</b> 24 rue René François Jolly, 57205, Sarreguemines, FRANCE tunnel@optimas.com +33 3 87 28 50 87 <b>Primary Contact:</b> Christophe DELUS	2000	7			✓	✓	✓	✓	✓	✓	✓	
<b>Orica Asia</b> Orica Japan, 7F Toranomon Misu Building, 3-7-11 Toranomon, Minato-Ku, Tokyo 105-0001 Japan civils.asiapacific@orica.com +81(0)3-5777-4681		12000			✓	✓	✓	✓	✓	✓	✓	Drill and Blast, Performance Explosives, Vibration Control, Environmental Monitoring, Blast Design, Blast Modelling, Risk Management, Technology Application.  Orica develops, manufactures, delivers and applies the world's most advanced commercial explosives and blasting technologies. Innovation and problem solving are at the core of our organisation. We invest in technology more than any other explosives business. We combine the progressive thinking of our Global R & D and Technical specialists to find solutions to the challenges you face every day. We service the Civil Construction industry through – Orica, Nitro Consult and Minova.
<b>Panchvaktram Engineering Private Ltd</b> New Delhi info@panchvaktram.in +91 9820322331 <b>Primary Contact:</b> Abhishek Lakhota	10	4	20cr	10cr	✓							Rock drilling Products and Accessories.  We are suppliers and stockist of all types of bars and accessories required for reinforcement of tunnels. We operate in both TBM and NATM tunnels.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
<b>Promat</b> Promat UK Ltd, The Sterling Centre, Eastern Road, Bracknell, Berkshire, RG12 2TD fpsales@promat.co.uk +44 (0)800 085 3730												Fire protection.  Promat UK is the acknowledged leader in the business of passive fire protection and high performance insulation across a diverse range of industries and applications. Products deliver assured levels of fire protection and insulation with proven testing and third party certification that complies or exceeds UK and European standards. With extensive experience and expertise, Promat UK provides added value, supporting customers through all stages of design, planning and implementation.
 <b>Stirling Lloyd Polychem Ltd</b> Union Bank, King Street, Knutsford, Cheshire, WA16 6EF, UK. info@stirlinglloyd.com +44 (0)1565 633111 <b>Primary Contact:</b> David Mulligan	103	81	34.05	6	✓	✓	✓	✓	✓	✓	Waterproofing Bored Tunnels, Cut and Cover Tunnels, Immersed Tube Tunnels and Suspended Decks.  Manufacturer and supplier of specialist, industry leading waterproofing systems to create dry tunnels.	
<b>Swift Metal Services</b> 88 Oakes Road, Griffith NSW 2680 sales@swiftmetal.com.au +61 1800 626 525 <b>Primary Contact:</b> Roger Shemilt							✓					Pipe Supports, Brackets, Fabrication (Repetitive), special fasteners, Services brackets, M&E components, U-Bolts & Studs, design for efficiency.  Swift Metal Services is a 2nd generation company specializing in supply of repetitive fabrication work to the construction & infrastructure industry. We believe in outstanding service, 100% on time deliveries & the quality & communication levels that the industry demands.  We have supplied many tunneling projects across Australia, including Oil & Gas, Water, Road, Rail & Cable tunnels.
 <b>Technical Tunnelling (TTC)</b> Unit K Radius Court, Hinckley, Leicester, LE10 3BE info@ttcltd.org +44 (0)1455 234401 <b>Primary Contact:</b> Graham Langshaw	5	5			✓	✓	✓	✓	✓	✓		

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
<b>Timer Solutions</b> Haugsvn. NORWAY nesheim@tiso.no +47 9798 2850 <b>Primary Contact:</b> Morten Nesheim	6	6			✓	✓	✓	✓	✓	✓	✓	Company profile
<b>TOLSA, S.A.</b> C/ Campezo, 1 - Building 4, 2nd Floor - 28022 Madrid - España info@tolsa.com +34 91 322 01 00 <b>Primary Contact:</b> Isabel Blanco	850				✓	✓	✓	✓	✓	✓	✓	HDD, Directional drilling, Vertical drilling, Tunneling, TBM, etc. - full range of additives.
 <b>TUNNELLING ACCESSORIES LTD</b> Sidney Little Road, Churchfields Ind. Est., St Leonards on Sea, East Sussex, TN38 9PU info@tunnellingaccessories.co.uk +44 (0)1424 854112 <b>Primary Contact:</b> Phil Benford	10	10	1.1	1.1	✓	✓	✓	✓	✓	✓	✓	Stress Distribution pads/packers, plastic cast-in/embedded parts for segmental tunnelling, TBM Launch and Reception Seals, TBM Greases and Soil Conditioning additives, ground treatment, waterproofing, Ventilation Ducting, Segment Molds, EPDM Gaskets by Datwyler.  Tunnelling Accessories continues to be the One Stop shop for Materials, Consumables, fittings for all aspects of tunnel construction from Segment molds and fittings, ventilation ducting, Launch Seals, specialist grouts, TBM Greases and soil conditioning products, stress distribution pads/packing 'TUNPAK' in a variety of different materials depending on a projects requirements. We supply projects worldwide directly or though agents in specific territories.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
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 <b>VIP Polymers Ltd</b> 15 Windover Road, Huntingdon, Cambridgeshire, PE29 7EB, UK. sales@vip-polymers.com +44 (0)1480 411333 <b>Primary Contact:</b> Matthew Levitt	120+	20+			✓	✓	✓	✓	✓	✓	✓	Design & manufacture of cast-in, glued-in & co-extruded hydrophilic tunnel segment gaskets. - Rubber compound formulation including EPDM & Nitrile. VIP Polymers Ltd are a leading manufacturer of sealing gaskets for segmentally lined shafts & tunnels. We compound our own rubber & our in-house laboratory and testing facilities ensures our products meet international standards and approvals. <b>Recent projects include:</b> <ul style="list-style-type: none"> <li>• Glasgow - Sheildhall (UK)</li> <li>• Farnworth - Rail (UK)</li> <li>• Beckton - Sewerage (UK)</li> <li>• Ejpovice - Metro Tunnel (CZ)</li> <li>• Battersea - Utility (UK)</li> </ul>



# Promat

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phone: +49 (0)208 - 9991 - 0 | fax: +49 (0)208 - 59 24 09  
e-mail: sales@schaenburg-mab.com | [schaenburg-mab.com](http://schaenburg-mab.com)

# EQUIPMENT

The alphabetical list of equipment in the tunnelling industry,  
as collected by the *Tunnels and Tunnelling* survey

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VIP | GLOBALLY APPROVED SEALING GASKETS



VIP-Weco Internal No-Dig  
Pipe Seal

The Original  
permanent  
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Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
<b>Adept Direct</b> PO Box 8004, Griffith NSW 2680 sales@adeptdirect.com.au +61 02 6964 0222 <b>Primary Contact:</b> Daniel Haak	5	0	50000				✓					Cable Hanger Brackets.  Adept Direct provide a range of innovative Cable Handling Equipment and Hanger Brackets.
<b>Agir Aggregat AG</b> 8910 Affoltern a.A. Alte Obfelderstrasse 55 +41 44 762 44 22 <b>Primary Contact:</b> Carl Wassermann	350	80					✓					Material logistics, Conveyors, Screens, Crushers.  Material logistics for mucking from TBM/D+B to landfill.
<b>Akkerman</b> 58256 266th Street sales@akkerman.com +1 (800) 533.0386 <b>Primary Contact:</b> Akkerman Sales	75	75				✓	✓	✓	✓	✓		Guided Boring, Microtunneling, Pipe Jacking, Tunnel and Earth Pressure Balance System.  Since 1973, Akkerman develops, manufactures and supports quality pipe jacking and tunneling equipment that accurately installs a variety of underground infrastructure. We partner with contractors to explore project solutions for a wide range of geology, and pipe diameters and lengths.
<b>ArcelorMittal</b> Route de Finsterthal L-7703 Bissen G.D. of Luxembourg s.mathieu@arcelormittal.com +352 621234062 <b>Primary Contact:</b> Stephane MATHIEU Senior Technical Officer Underground Solutions												Steel fibres for concrete, shotcrete, reinforcement for tunnel lining segments, precast elements.  ArcelorMittal is one of the leading steel fibres suppliers providing safe, sustainable and cost effective constructive solutions for industrial, residential and civil construction markets. Our technical and sales teams offer comprehensive services throughout the world with customized support to all involved in the design, specification and installation of steel fibre reinforced concrete. Today we are present in more than 25 countries providing the latest technology on steel fibre reinforced concrete projects.

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<b>Atlas Copco</b> Klerkgatan 21 SE-702 25 Örebro, Sweden underground@se.atlascopco.com +46 19 6707000												Face Drilling Rock Reinforcement Raise boring Load Haul Graut Ventilation Scaling Charging Shotcrete.  Atlas Copco is a world-leading provider of sustainable productivity solutions. The Group serves customers with innovative compressors, vacuum solutions and air treatment systems, construction and mining equipment, power tools and assembly systems.  Underground Rock Excavation is a division within Atlas Copco's Mining and Rock Excavation Technique business area. It develops, manufactures, and markets a wide range of tunneling and mining equipment for various underground applications worldwide. Atlas Copco's strong focus on innovative product design and aftermarket support systems gives added customer value.
<b>CBE GROUP</b> 17-23 rue Frédéric Joliot-Curie 37550 Saint-Avertin FRANCE cbe@cbegroup.fr +33 2473 75364 <b>Primary Contact:</b> Julien Travers	225	210	34	32	✓	✓	✓	✓	✓	✓	✓	Segment moulds, segment precast facilities, segment carousel plants, segment handling equipment.  We design and manufacture tunnel segment moulds, automated precast facilities for segment production (carousel) and segment handling equipment. We ensure assembly of precast plants, staff training and maintenance worldwide. CBE Group has been involved in 60 projects over the last two years. Recent achievements include: Westside Subway Tunnel, Metro de Quito, Metro Lima, Jaipur Metro, Konjancham Water Conveyance Tunnel, Bazi Deraz Water Tunnel, Tha Nong Bon, Uccle, Follo Line, Paris Metro line 14, Baikalsky, Shieldhall, Metro Cairo, and several chinese projects in cities such as Beijing, Shanghai, Xian and Shenyang.
<b>Clayton Equipment Ltd</b> Second Avenue, Centrum 100, Burton upon Trent, Staffordshire, DE14 2WF contact@claytonequipment.co.uk +44 (0)1283 524470 <b>Primary Contact:</b> Clive Hannaford	23	23	£6.5m	£5m	✓	✓	✓	✓	✓	✓	✓	Rail haulage solutions, Tunnelling Locomotives, Mainline Locomotives, Metro Locomotives, Mining Locomotives.  Clayton Equipment design and build a comprehensive range of machines for use in Tunnelling, Mainline, Metros and Mining. These include battery, trolley, diesel and hybrid locomotives, with operating weights ranging from 1.75 to 45 tonnes. Designs are often custom built to suit a client's specific requirement and budget. The Company also has a range of explosion proof battery locomotives developed for use in the coal mining industry with operating weights of up to 34 tonnes.
<b>CONDAT</b> 104 avenue Frédéric Mistral - 38670 Chasse-sur-Rhône - FRANCE info@condat.fr +33 4780 73838 <b>Primary Contact:</b> Mr DEBORD Laurent			€160m		✓	✓	✓	✓	✓	✓	✓	Lubricants and additives for underground works with TBM: tail seal greases, foaming agents, fire resistant fluids...  Since 1989, Condat has developed a complete range of products fulfilling technical, safety and environmental requirements for underground works with TBM such as: Tail seal greases, Main bearing sealing product, Greases, Biodegradable and fire resistant hydraulic fluids, Foaming agents and polymers, Additives for filling grout, Additives for ground consolidation... CONDAT is the worldwide unique supplier to offer a complete range of biodegradable and self-extinguishing products dedicated to TBM.

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<b>DavyMarkham</b> Prince of Wales Road, Darnall, Sheffield, South Yorkshire, S9 4EX john.lindley@ davymarkham.com +44 (0)114 244 9971 <b>Primary Contact:</b> John Lindley	180										Tunnelling Equipment.  Design, Manufacture, Site Support.	
<b>Devico AS</b> Trondheim, Norway devico@devico.no +47 72 87 01 01 <b>Primary Contact:</b> Rune Lindhjem	50	15			✓	✓	✓	✓	✓	✓	Directional Core Drilling for pilot holes and exploration phase samples.  www.devico.com	
<b>DIANA FEA BV</b> Delftechpark 19a, Delft 2628XJ, The Netherlands info@dianafea.com +31 (0) 88 34262 00 <b>Primary Contact:</b> Maziar Partovi	28	15			✓	✓	✓	✓	✓	✓	Finite Element Analysis Software & Consulting.  DIANA FEA BV is the author, distributor and supporter of the world renowned Finite Element Analysis software DIANA. In addition, DIANA FEA BV provides consulting engineering project assistance utilising the DIANA software.	
<b>DIANA FEA BV</b> Delftechpark 19a, 2628XJ, Delft, The Netherlands info@dianafea.com +31 (0) 88 34262 00 <b>Primary Contact:</b> Maziar Partovi	28	28			✓	✓	✓	✓	✓	✓	Finite Element Analysis.  Authors and distributors of the world renowned finite element analysis software DIANA. Building on over 30 years of research and experience, the company provides world-class software products in the field of finite element solutions for civil, structural and geotechnical engineers.	

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<b>DTS Equipment Ltd</b> 179-181 Dawes Rd, SW6 7QP m.dyakonyuk@ dneprotechservice.com +44 7539036569 <b>Primary Contact:</b> Maxym Dyakonyuk	2000	750	£40m	£20m	✓	✓	✓	✓	✓	✓	✓	Fire Protection, Ventilation Control Systems, Ventilation Services, Fans, Axial Vane Fans.  Fläkt Woods is the industry leader in air movement technology, providing innovative solutions worldwide. Our extensive knowledge of design and applications is based on over 100 years of experience in tunnels, buildings, industry and original equipment manufacturers. Their global coverage reaches over 100 countries and is supported by an extensive distribution network. Our expertise in tunnel ventilation applications covers road and rail tunnels, metros, tunnel construction, mining and wind tunnels. Fläkt Woods' products have been successfully used in underground projects throughout the world and our Jetfoil and JM Aerofoil product ranges are unrivalled in their technology, innovation and efficiency.
 <b>Fläkt Woods Ltd</b> Axial Way, Colchester, Essex, CO4 5ZD philip.walker@ flaktwoods.com +44 (0)1206 222 555 <b>Primary Contact:</b> Philip Walker - Project Management Director	501-1000				✓	✓		✓	✓			
<b>FOGTEC Fire Protection</b> Schanzenstrasse 19A, 51063 Cologne, Germany contact@FOGTEC.com +49 2219 62230 <b>Primary Contact:</b> Armin Feltmann					✓	✓	✓	✓	✓	✓	✓	Active Fire Fighting Systems, Water Mist Systems, RAMS Analysis, Detection Systems, Control Systems, SCADA, Consulting, Fire Testing, Installation, Project Management.  FOGTEC is the leading specialist for design and installation of fixed fire fighting systems for tunnels. Our services include consultancy, risk analysis, fire tests, design, RAMS analysis as well as installation of detection systems, CCTV systems, control systems, fixed fire fighting systems (FFFS) and maintenance. FOGTEC has installed fixed fire fighting systems into several high profile tunnels including SIL2 certified control systems, very high system availabilities and low life cycle costs.
<b>GEOFORM CANADA LTD</b> 1376 Willowdown Rd, Oakville, ON L6L1X3 Canada info@ geoforncanada.com +1 416-900-8370 <b>Primary Contact:</b> Mr. Ediz Vural	25	15	5	4							✓	Concrete Spraying Machines, Concrete Transmixer, Tunnel Dumper Truck, Personnel Carrier, ANFO Charging Truck, Crane Truck, Scissor Lift, Basket Boom Truck, Ventilation Systems, Hydraulic Expandable Containers, Rock Reinforcement, Pipe Roof, Shotcrete Et Grout.  GEOFORM is the Canadian distributors of reputable international manufacturing and engineering companies for tunnelling and underground mining projects. With the best products and highest motivation, we create customized solutions and customer-oriented service for every project. GEOFORM and contracted partners cover whole Canada. Website: www.geoforncanada.com

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<b>Grindex</b> Grindex AB Box 7025 SE-174 07 Sundbyberg Sweden marketing@ grindex.com +46 8 606 66 00 <b>Primary Contact:</b> Peter Uvemo General Sales Manager												Construction, Mining, Industry.  Grindex is a world leader in electrical submersible pump technology for demanding applications such as construction, mining and heavy industry. Grindex was founded in 1940 in Stockholm, Sweden, and since 1960 we've been dedicated to develop absolutely the best quality electrical submersible drainage, sludge and slurry pumps. The pumps are known worldwide for their high reliability, durability and dependability, and they are designed to be used in the most challenging environments imaginable - without compromise for our professional users. Thanks to the built-in motor protection and the air valve, the pumps can run unsupervised for longer periods, and even run dry for a length of time. Grindex exports to more than 100 countries around the world, and has a subsidiary in the USA (Grindex North America).
<b>Herrenknecht AG</b> Schlehenweg 2 D-77963 Schwanau Germany pr@herrenknecht.com +49 7824 302 0 <b>Primary Contact:</b> Achim Kühn Head of Group Marketing and Corporate Communications					✓	✓	✓	✓	✓	✓	✓	TBMs, micromachines, HDD, deep drilling, mining, shaft sinking, service, consultancy, personnel.  Herrenknecht is a technology and market leader in the area of mechanized tunnelling systems. As the only company worldwide, Herrenknecht delivers cutting-edge tunnel boring machines for all ground conditions and in all diameters - ranging from 0.10 to 19 meters. Extreme conditions: In depths of up to 106 meters, a 13.6m diameter Mixshield successfully created the first street tunnel beneath the Bosphorus. In the Lake Mead Intake No. 3 project a Herrenknecht Multi-mode TBM bored an intake tunnel for the water supply of Las Vegas under 15 bar water pressure - world record! For Europe's largest railway project Crossrail, six EPB shields and two Mixshields create a continuous rail link through the mega city of London. For the new railway connection Stuttgart-Ulm, two Herrenknecht tunnel boring machines make progress at the Bossler- and Fildertunnel.
<b>iPEK International GmbH</b> Unit 39, Dixon Business Centre, Dixon Road, Brislington, Bristol, BS4 5QW, UK. pwhite@idexcorp.com + 44 (0)1173 790710 <b>Primary Contact:</b> Paul White							✓					CCTV Sewer Camera Manufacturer and Supplier.



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 <b>Iseki Microtunnelling</b> Airfield Road, Hinwick, Wellingborough, Northants, NN29 7JQ info@isekimicro.com +44 (0)1234 781166 <b>Primary Contact:</b> Paul Wilkinson General Manager					✓	✓	✓	✓	✓	✓	Unclemole MTBM/Super MTBM, Jacking Rigs/Interior Jacks, Slurry, Control and Lubrication.  Iseki Microtunnelling are sales distributors for Iseki Poly-Tech and also has a hire fleet of 18 Iseki machines and associated back-up systems for hire. The Iseki Poly-Tech range of equipment has been setting the standards since the 1970's, which continues to lead the field for versatility and reliability. Our unparalleled experience of operating microtunnelling and the unique advantages of the Iseki Systems, makes us at the forefront of Trenchless Solutions.	
<b>Kenall Mfg</b> 10200 55th St, Kenosha, WI info@kenall.com +1 262.891.9700 <b>Primary Contact:</b> Michael Maltezos	427						✓	✓	✓		Manufacturer of lighting and controls.	
<b>MineARC Systems</b> info@minearc.com.au +61 8 9333 4966					✓	✓	✓	✓	✓	✓	Refuge Chambers for Tunnelling Projects.  MineARC Systems is the global leader in the manufacture and supply of emergency safe refuge solutions for the mining, tunnelling, chemical processing and disaster relief industries. MineARC's TunnelSAFE Range of Refuge Chambers are highly customisable to suit any project and can be built to comply with British Standard (BS EN 16191:2014) Safety Requirements for Tunnelling Machinery. They can also comply with the ITA's "Guidelines for the Provision of Refuge Chambers Under Construction."	
<b>Mining Equipment Ltd</b> 484 Turner Dr # C201 Durango, CO 81303-7992 USA +1 970 259 0412											New and rebuilt tunnelling and mining equipment.  Mining Equipment has been supplying the mining and tunneling industries with new and quality rebuilt underground equipment for more than 30 years. Our business has grown to encompass new Jetair ventilation equipment fans as well as C.S. Card and Moran Engineering rolling stock.  Mining Equipment specializes in rail mounted equipment. We have a very large inventory of diesel, battery and trolley locomotives in stock. Various models by Plymouth, Clayton, Brookville, Schöma, Goodman, Greensburg and General Electric can be offered. In addition to locomotives, we also have a large inventory of rolling stock such as muck cars, flat cars and mantrips. Mining Equipment also builds new rolling stock to meet our customer's needs. Additionally, we offer a full range of new rolling stock components such as wheel / axle sets and couplers.	


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<b>Normag BV</b> Aengwilderweg 57, 8449 BA, Terband-Heerenveen, The Netherlands info@normag.com +31 513 657209 <b>Primary Contact:</b> Bouke de Jong	121	5	€16m	€750k				✓				Mixing, recycling and pumping.
 <b>Normet International Ltd</b> Rothusstrasse 21 jukka.pihlava@normet.com +41417685200 <b>Primary Contact:</b> Jukka Pihlava	900	450	€200m	€100m	✓	✓	✓	✓	✓	✓	✓	Normet is an innovative technology company offering continuous improvement to underground construction and mining for increased safety, productivity and profitability. Normet has a broad underground offering: Equipment, Construction chemicals and Rock Reinforcement. Normet has delivered over 10,000 built-for-purpose underground machines which are serviced and supported with Life Time Care. Normet is a Finnish based company that operates globally with over 43 locations in 27 countries.
 <b>NRC Plant Ltd</b> Neagron House, Stanford, Orsett, Essex, RM16 3BX sales@nrcplant.co.uk +44 (0)1375 361616 <b>Primary Contact:</b> Dave Rees Operations Manager	40	40					✓					Lattice Boom & Telescopic Boom Crawler Crane Hire.  NRC is a long established company specialising in Telescopic and Crawler Crane rentals as well as sales of Hitachi Sumtomo, Linkbelt and Maeda Mini Cranes. The combination of our expertise as crane specialists with the largest range of crawler cranes available for hire and sale in the UK make NRC – the ultimate choice.
<b>P Ducker Systems (PDS) Ltd</b> Olympus House, Stephenson's Way, Wyvern Business Park, Derby, DE21 6LY. UK. info@pdslimited.co.uk +44 (0)1332 280195 <b>Primary Contact:</b> Tim Whiteley	40	35	6	5				✓				System Integration and Control Systems.  PDS are leading Systems Integration Specialists with over 26 years of experience in tunnels. Designing and delivering innovative turnkey solutions and providing on-going support for refurbishment and new build projects world-wide. With expertise in high availability critical infrastructure control systems, specialist sub-systems and their integration, backed by a lifetime support capability unrivalled in our industry. www.pdslimited.co.uk
<b>PSD (Pigott Shaft Drilling)</b> Hollowforth Hall, Hollowforth Lane, Woodplumpton, Preston, UK enquires@psdmud.co.uk +44 (0)1772 690076 <b>Primary Contact:</b> Adam Beeby	25	25	£4m	£2.8m	✓	✓	✓	✓	✓	✓	✓	High performing separation equipment inc primary shakers, large capacity desanders, desilter and centrifuges.  Established 33 years ago and constantly developing high performing and highly reliable equipment for the worldwide tunnelling, drilling and foundation market. We pride ourselves on offering unrivalled support to our clients.

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<b>REFLEX</b> Unit 4/5, Upper Stalls Iford, Lewes, East Sussex, BN7 3EJ UK. reflex@imdexlimited.com +44 (0)1273 405975 <b>Primary Contact:</b> Christian van der Put	140	30 approx			✓	✓	✓	✓	✓	✓	Real-time subsurface intelligence solutions.  REFLEX is the leader in real-time subsurface intelligence solutions for the minerals industry globally. REFLEX's technologies are acknowledged for their ease of use and accuracy and are complemented by unrivalled expertise in geo-scientific data analysis and interpretation. REFLEXHUB-IQ forms the backbone of REFLEX's solutions, providing secure access to relevant information, anywhere, any time. REFLEX has a global network of support centres.	
<b>REFLEX</b> Unit 4/5, Upper Stalls Iford, Lewes, East Sussex, UK BN7 3EJ reflex@imdexlimited.com +44 (0)1273 405 975 <b>Primary Contact:</b> Christian van der Put	150	30			✓	✓	✓	✓	✓	✓	Downhole instrumentation (surveying), Structural Geology, Geoscience and Data Solutions.  REFLEX is the leader in real-time subsurface intelligence solutions for the construction and minerals industries globally. REFLEX's technologies are acknowledged for their ease of use and accuracy and are complemented by unrivalled expertise in geo-scientific data analysis and interpretation. REFLEXHUB-IQ forms the backbone of REFLEX's solutions, providing secure access to relevant information, anywhere, any time. REFLEX has a global network of support centres.	
<b>RF Industries Pty Ltd</b> 1/30 Raubers Road, Banyo, Qld 4030 Australia kevin.booker@rfi.com.au +617 3261 9440 <b>Primary Contact:</b> Kevin Booker	200	12	AUD 80m		✓	✓	✓	✓	✓	✓	Radio Rebroadcast Systems including Mobile Radio and Telephony and AM, FM and DAB.  Established organisation with a track record for delivering professional solutions in the radio rebroadcast space across Cellular, Professional Mobile Radio and AM, FM and DAB with audio break in capability.	
 <b>Robbins</b> 29100 Hall Street, Solon, OH 44139, USA sales@robbinstbm.com +1 440 248 3303 <b>Primary Contact:</b> Nancy Yun Marketing Manager	800	800	200	200	✓	✓	✓	✓	✓	✓	Worldwide manufacturer of TBMs, small diameter boring equipment, conveyors, cutters, field service.  The Robbins Company has led the tunneling industry for over six decades since the design and development of the world's first modern-day tunnel boring machine in 1952. Today, Robbins continues to be an innovative supplier, with machines on projects spanning the globe. Robbins' latest innovation is the Crossover series of TBMs, a set of field-tested dual-mode type machines. these TBMs can "cross over" between modes, allowing them to tackle tunnels that previously would have required multiple machines. the three types of Crossover TBMs are: XRE (Crossover between Rock/epB), XSE (Crossover between Slurry/epB), and XRS (Crossover between Rock/Slurry).	

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<b>RST Instruments Ltd</b> 11545 Kingston St., Maple Ridge, BC Canada V2X 0Z5 info@rstinstruments.com +1 604-540-1100 <b>Primary Contact:</b> Hayley Croteau, P.Eng.		5			✓	✓	✓	✓	✓	✓	Geotechnical monitoring instruments for tunnels and underground openings. ADAS (Automated Data Acquisition Systems) Custom monitoring instrumentation designed to site specifications.  Founded in 1977, RST Instruments Ltd. is a world leader in the design, manufacturing and sale of innovative geotechnical instruments for monitoring and assessing the stability of new and existing tunnels, and related underground openings. Automated data acquisition systems (ADAS) are a specialty for RST, custom designed for customer requirements. RST takes pride in providing custom-engineered solutions to site-specific problems and is committed to quality and customer satisfaction. The RST Instruments Ltd. quality management system is certified ISO 9001:2015.	
<b>Rutherford Global Power Pty Ltd</b> 39 Laverick Avenue, Tomago, NSW 2322, Australia corporate@rutherfordgp.com +61 2 4961 9619 <b>Primary Contact:</b> Stephen Rush	65	65	25	25	✓	✓	✓	✓	✓	✓	Temporary Electrical Equipment Packages; Electrical Engineering; Turnkey Projects; Hire Et Sale of Electrical Plant Et Cables; Cable Couplers; Electrical Spares Et Accessories.  The Rutherford Group of companies are world leaders in the supply of temporary electrical systems for the construction, mining and tunnelling industries. We have offices in Australia, Singapore, Hong Kong, Italy and England, as such are well located to be able to look after your electrical needs for such projects. Our main line of work is in relation to the supply of generators, transformers, switchgear, distribution equipment, lighting systems, communication systems, cables and couplers. Additionally this can be undertaken on a turn-key basis where we take responsibility for the engineering for the electrical supply requirements and the installation, commissioning and ongoing maintenance of the equipment. We have a substantial fleet of equipment and cables available at strategic locations in Europe, South East Asia and Australia to enable us to react quickly to the needs of our clients.	
<b>Sandvik Mining and Rock Techonology</b> Klarabergsgatan 60, SE 11121- Stockholm, Sweden info.cns@sandvik.com +46 8208401 <b>Primary Contact:</b> Satu Rämö	15,000 approx		33 billion SEK		✓	✓	✓	✓	✓	✓	Sandvik Mining and Rock Technology is a business area within the Sandvik Group and a global leading supplier of equipment and tools, service and technical solutions for the mining and construction industries. Application areas include rock drilling, rock cutting, crushing and screening, loading and hauling, tunneling, quarrying and breaking and demolition. In 2015, sales were approximately 33 billion SEK with about 15,000 employees in continuing operations.	

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<b>Schauenburg MAB GmbH</b> Weseler Straße 35, 45478 Mülheim-Ruhr, Germany sales@schauenburg-mab.com +49 171 5597 900 <b>Primary Contact:</b> Norman Perten	55	35	€20m	€15m	✓	✓	✓	✓	✓	✓	✓	Middle East, Southeast Asia.  For more than 50 years Schauenburg MAB develops, manufactures and supplies machinery for the classification and separation of solids.  The innovative MAB separation plants for tunneling and microtunnelling with throughput capacities up to 4.000 m³/h operate successfully for the regeneration of bentonite slurries. MAB plants have proved their effectiveness on numerous construction sites worldwide.  Performance reserves available in each process stage of the MAB plants guarantee exceptional flexibility when handling changing ground conditions.  MAB plants are operating on every continent of our earth. Our construction site is the world.
 <b>Schröder Group</b> Rue de Lusambo, 67 BE-1190 Brussels info@schreder.com +32 2 332 01 06 <b>Primary Contact:</b> Jean-Luc LAMBERT	2600	100			✓	✓	✓	✓	✓	✓	✓	Lighting solutions, control systems.  Schröder is your partner for tunnel lighting solutions, with more than 600,000 tunnel lighting fittings installed worldwide, including: <ul style="list-style-type: none"> <li>• Cankurtaran Tunnels in Turkey</li> <li>• 5 smart tunnels for Brussels city centre in Belgium</li> <li>• Co Ma Tunnel in Vietnam</li> <li>• Velsler Tunnel (A22 Amsterdam) in the Netherlands</li> <li>• Carlin Tunnel in USA</li> </ul> Schröder's complete range of LED luminaires for tunnel lighting provides a comprehensive solution for the entrance, threshold and interior zones.  All Schröder tunnel lighting solutions ensure perfectly safe areas with a minimised total cost of ownership and long lasting performance.
 <b>Seli</b> Via Achille Campanile n. 73 - 00144 ROMA - Italy selispa@selitunnel.com +39.06.87724100												Manufacture of TBMs, contracting.  Established in 1950, specialist underground excavation company SELI S.p.a. has enjoyed strong expansion over recent years, achieving a top position among the world leaders in its sector.  Today the company can boast an uncommon position: one of both contractor and equipment manufacturer. In its workshops, SELI designs and manufactures all TBMs and underground excavation equipment, as well as BACK-UP systems utilized in tunnel boring.

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<b>SISGEO</b> Via F. Serpero 4/F1 - 20060 Masate (MI) info@sisgeo.com +39 0295764130 <b>Primary Contact:</b> Mr. Romano Lamperti	49				✓	✓	✓	✓	✓	✓	✓	
 <b>Specialist Plant Associates Ltd</b> Airfield Road, Hinwick, Wellingborough, Northants, NN29 7JQ info@specialistplant.co.uk +44 (0)1234 781882 <b>Primary Contact:</b> Ian Matthews Director	20	20			✓	✓	✓	✓	✓	✓	✓	Ventilation systems, Grouting equipment, Shaft jacking systems, Compressed Air equipment and more.  Specialist Plant is the leading Equipment hire and engineering service supplier throughout the UK and Internationally. We offer our customers unrivalled support and guidance with their hire purchase and offer next day delivery. Our main priority is giving our customers quality assurance that meets demands; therefore all of our equipment is robust, safe and built to last!
 <b>Sulzer Ltd</b> Neuwiesenstrasse 15, 8401 Winterthur, Switzerland miningandconstruction@sulzer.com sulzer.com +41 52 262 11 55 <b>Primary Contact:</b> Jonas Enevold	14000		CHF 3 billion		✓	✓	✓	✓	✓	✓	✓	Tunnel dewatering.  Sulzer, headquartered in Winterthur, Switzerland, since 1834, specializes in pumping solutions, rotating equipment maintenance and services as well as separation, reaction, and mixing technology. Sulzer designs, develops and supplies pumping solutions and related equipment worldwide. Intensive research and development in fluid dynamics, process-oriented products, and special materials as well as reliable service solutions help the company maintain its leading position in its focus market segments. The company creates reliable and sustainable solutions for its key markets: oil and gas, power, and water. Sulzer serves customers around the world through a network of over 170 production and service sites and has a strong footprint in emerging markets. In 2015, the company achieved sales of roughly CHF 3 billion with around 14 000 employees.
<b>Swedfan</b> Box 110 s-246 22 Loddekoping, Sweden www.swedfan.se +46 708 700 925 <b>Primary Contact:</b> Peter Dime	20				✓	✓	✓	✓	✓	✓	✓	Underground Ventilation systems.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas	
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America		
<b>Swift Metal Services Pty Ltd</b> 88 Oakes Rd, Griffith, NSW, 2680 sales@swiftmetal.com.au (Pipe Supports: www.anchoragegroup.com.au) +61 1800 626 525 <b>Primary Contact:</b> Greg Haak		22	4	500k			✓						Temporary Services Brackets, Tunnel Pipe Supports, Fitout Brackets, Curved Tunnel Bracket, Custom U-bolts, Pipe saddles, Pipe Cradles, Hoarding Posts.
<b>TBM Cutters Ltd</b> Buccaneer Works, Skiff Lane, Holme upon Spalding Moor, YO43 4BB jayrturner@aol.com +44 (0)1430 427954 <b>Primary Contact:</b> Jason Turner	5	5				✓	✓	✓	✓	✓	✓		Design and Manufacture of TBM Cutting tools and Wear parts.  A small but experienced company that can react to all customer requirements, with all products designed and manufactured in house.
 <b>Terratec</b> 171 Davey Street, Hobart, Tasmania 7000, AUSTRALIA info@terratec.co +61 362233282													Tunnel Boring Machines, Raise Boring Machines, Conveyor Systems Et other customised equipment.  Incorporated in 1990, TERRATEC is the renowned Australian designer and manufacturer of Tunnel Boring Machines (TBM) and Raise Boring Machines (RBM). The Company also supplies Conveyor Systems and other ancillary equipment and accessories to support the tunnelling and mining works. Having its main quarters and engineering centre in Australia, TERRATEC has other six wholly own subsidiaries strategically located in different regions through the globe to attend the demand of tunnelling and mining equipment worldwide. At present, there are over 30 TERRATEC boring machines working in tunnel and mine sites across 5 continents.
<b>Trelleborg Engineered Products</b> Verlingde Kerkweg 15, 2985 AZ Ridderkerk, The Netherlands engineeredproducts@trelleborg.com +31 180 495 555 <b>Primary Contact:</b> Andre de Graaf Sales Manager													Gina seal, Omega gasket, Waterstops, Tunnel Segment Gaskets.  Trelleborg is one of the largest producers of technical rubber products in the world. Trelleborg Infrastructure designs and produces tunnel sealing systems. We are the global market leader of Gina and Omega seals for immersed tunnels. For bored tunnels we supply our Tunnel Segment Gaskets. And for all types of tunnels we also supply the best (injectable) waterstops available in the market. Our leading positions are based on cutting-edge expertise in polymer technology combined with excellent application know-how.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas	
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America		
<b>Trox</b> Newby Road, Hazel Grove, Stockport, SK7 5DY +44 (0)161 483 1435													Gas detection, tunnelling, gas, mining, rail, environmental conditions.  Market leading manufacturers of gas detectors, environmental monitoring systems and sensors, for safety monitoring solutions you can rely on in the world's most demanding environments. The products and systems developed by Trolex are relied upon all over the world. They are intrinsically safe, carry a range of independent accreditations and remain constantly at the forefront of safety and condition monitoring innovations. For over half a century, Trolex has designed, manufactured, installed and maintained safety monitoring systems and gas detectors for some of the world's biggest names and most hazardous environments.
<b>Tunnel Sensors</b> Tunnel Sensors, Furlong House, Crowfield, Brackley, Northamptonshire. sales@tunnelsensors.com +44 (0)1280 850563 <b>Primary Contact:</b> Daniel Kelcher	9					✓	✓	✓	✓	✓	✓	✓	Atmospheric/Ventilation Et Lighting control monitors.  Tunnel Sensors manufactures a complete range of tunnel air monitoring sensors for measuring visibility and dust, CO, NO, NO2, air speed Et direction as well as tunnel luminance and illuminance. Our mission is to provide systems that enable operators to run their tunnels at financially efficient levels whilst protecting tunnel users from the irritating effects of traffic pollution.
<b>VMT</b> VMT GmbH Stegwiesenstraße 24 76646 Bruchsal info@vmt-gmbh.de +49 7251 9699 0													Guidance, monitoring.  Guided by VMT represents the best-selling navigation systems in tunnelling worldwide. Since 1994, we have equipped thousands of tunnelling projects with our navigation, information, monitoring, and communication systems. We consider ourselves an all-round supplier as we care for our customers before and after the project and thanks to our complementing systems.

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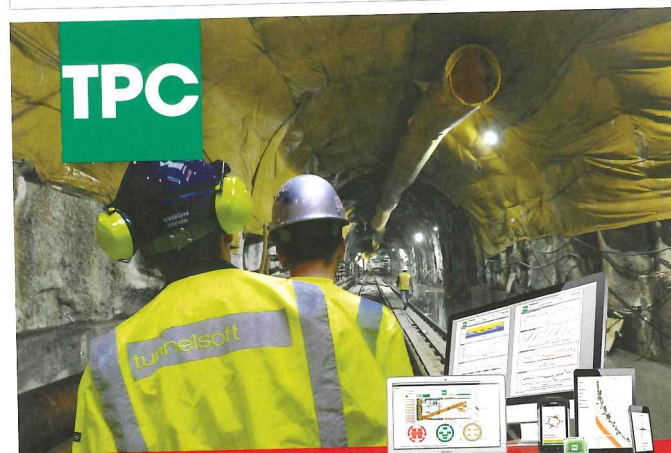


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# CONTRACTORS



The alphabetical list of contractors in the tunnelling industry, as collected by the *Tunnels and Tunnelling* survey

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Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in						Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	
<b>A E Yates Trenchless Solutions</b> Cranfield Road, Lostock Ind. Estate, Bolton, Lancashire, BL6 4SB tadmin@aeayates.co.uk +44 (0)1204 696175 <b>Primary Contact:</b> John Harvey	25	15	3	2.5				✓			Micro-tunnelling, auger boring, pipejacking, horizontal directional drilling, pipe bursting, shaft sinking, culvert repairs.  A E Yates Trenchless Solutions have the specialist skills, knowledge and equipment in underground construction to deliver solutions from 25mm to over two metre with our own equipment using a wide range of different methods. This experience, and the techniques we offer, means that we can offer unbiased professional advice on systems selection, project planning and solution design.
<b>Balfour Beatty</b> 5 Churchill Place, Canary Wharf, London, E14 5HU andrew.nash@balfourbeatty.com +44 (0)20 3810 2392 <b>Primary Contact:</b> Andrew Nash	34,000			£8 Billion	✓		✓	✓	✓		Balfour Beatty is a leading international infrastructure group, providing innovative and efficient infrastructure that underpins our daily lives, supports communities and enables economic growth.  With over 100 years of expertise and innovation, we finance, develop, build and maintain transportation, power and utility systems, social and commercial buildings.  Follow us on Twitter, LinkedIn, Facebook and Instagram for our latest news. www.balfourbeatty.com
<b>BeMo Tunnelling GmbH</b> Bernhard-Höfel-Str. 11 6020 Innsbruck Austria office@bemo.net +43 512 3311-0 <b>Primary Contact:</b> Dipl.-Ing. Friedrich Neureiter	approx 500	approx 400	ca.€150m	ca.€100m		✓	✓	✓	✓	✓	BeMo Tunnelling, building on its core business of tunnel construction, has in the meantime expanded its range of services to the fields of Civils and Industrial Construction, Ground Engineering, Structural Maintenance and Mining. Thus, BeMo Tunnelling has evolved towards becoming a provider of complete solutions.  BeMo Tunnelling is a company specialised in the construction and refurbishment civil engineering structures of all kinds. The highly qualified and committed team, extensive and excellent references and know-how make BeMo Tunnelling an internationally known leader in their field. TUNNELLING IS OUR BUSINESS
<b>CAVOSA OBRAS Y PROYECTOS S.A.</b> Manoteras Avenue 50, 28050 Madrid cavosa@sacyr.com +34 915 455 000 <b>Primary Contact:</b> Pablo Garcia del Campo	100	100	€29m	€29m			✓			✓	Tunnelling, galleries, mining, shafts.  Cavosa is the company of Sacyr Group specialized in underground works, which provides the latest technical and technological innovations in the execution of road tunnels, railway tunnels, subway, hydraulic tunnels, galleries, ramps, shafts or chambers.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in						Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	
 <b>Continental Engineering Corp.</b> No.95, Dun Hua S. Rd., Sec. 2, Taipei City 106, Taiwan (R.O.C.) President-Office@continental-engineering.com +886-2-3701-2000 <b>Primary Contact:</b> Mr. John Yeh	1650		529	262				✓			TBM Operations, Segment Casting, Drill & Blasting Tunnel, Project Management, NATM Tunneling.  CEC is the leading contractor in Taiwan operating across Asia in Hong Kong, Macau, Malaysia and India. CEC specialises in all forms of underground construction & tunneling and has expertise with hard & soft ground TBM's, NATM, D&B and Cavern construction. Signature projects include Taiwan High Speed Rail (NATM tunnels, elevated viaducts and stations), numerous sections of Taipei Metro (TBM tunnels and stations) and numerous sections in Taichung Metro.  In India CEC has undertaken complex underground projects for Delhi Metro, Bangalore Metro and Jaipur Metro (all of TBM tunnels and stations).  In Malaysia CEC has completed tunnel construction on Kuala Lumpur Metro (TBM tunnel and station).  In Hong Kong our Liantang Heung Yuen Wai Boundary Control Point Contract 6 includes substantial D&B road tunnels and the Harbour Area Treatment Scheme (HATS) project includes deep shaft and D&B tunnels.
<b>CPB Contractors</b> Level 2, 177 Pacific Highway, North Sydney, NSW 2060 www.cpbcon.com.au +61 2903 55805 <b>Primary Contact:</b> Andreas Lehr, Engineering Manager Tunnelling	4500	500	6 Billion	400		✓	✓				All tunnelling methods, large infrastructure projects, metros, utility tunnels, subsea TBM recovery.  Australia's largest construction company as part of the CIMIC group, covering roads, rail, buildings, industrial projects and tunnels.
<b>CRS Tunnelling Inc.</b> 1151 South Service Rd. West Unit #3 walter@crstunnelling.com +1 905.469.1200 <b>Primary Contact:</b> Walter Trisi	80	50							✓	✓	Tunnelling, Micro-tunnelling, TBM / MTBM operation, Sliplining & Pipejacking.  CRS Tunnelling Inc (CANADA) is the Canadian arm of Super Excavators (USA); established since 1950. CRS Tunnelling Inc (CANADA) is based in Oakville Ontario, and specializes in Heavy Civil Construction with a focus on Mechanized Tunnelling.  Our Recent Success was completion of the "Twinning of Etobicoke Creek Project, located at Pearson International Airport" and earning the 2016 Trenchless Technology Project of the Year (Honorable Mention) Award- New Installation Category. Along with Winning the "Project of the Year" Award of Excellence from the Centre for Advancement of Trenchless Technologies (CATT).  CRS Tunnelling is currently working with the Ministry of Transportation and Dufferin Construction on a Project in Barrie, along with an additional Project in Streetsville with Con-Ker Construction and bidding tunnelling work Canada wide.
<b>Ditikiergolaviki</b> Agrinio city Greece Info@ditikiergolaviki.com +30 26410.53477 <b>Primary Contact:</b> Evangelos giotopoulos	100	100					✓				South Europe.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in						Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	
<b>EDILMAC DEI FRATELLI MACCABELLI S.R.L.</b> Via Trento, 16 - 24020 Gorle (BG), Italy edilmac@edilmac.com +39 0356 61017 <b>Primary Contact:</b> Giulio Maccabelli	120	30	20	7				✓	✓	✓	Quarries management, shafts sinking, tunnelling, raise boring technology.  Born in the late fifties has expanded over time, specializing particularly in the management of large quarries, and in the execution of tunnels and shafts.  Since 1976 EDILMAC acquired equipment and technology "RAISE BORER," with which is possible to do mechanically excavation of shafts, depth of hundreds of meters up to 6 meters in diameter. Then Edilmac developed its own equipment for the enlargement of shafts designed in larger diameters up to 6 meters.
<b>Inbye Engineering</b> 23 Cross Street, Leamington Spa, Warwickshire, CV32 4PX bjones@inbye.co.uk <b>Primary Contact:</b> Dr Benoit Jones	1	1	10k	10k				✓			Strength monitoring of sprayed concrete using thermal imaging (SMUTI), Training, Consulting, Testing.  Inbye Engineering began as a spin-out company of the University of Warwick, with the aim of delivering SMUTI to the tunnelling industry. It has expanded to also offer training and consultancy services.
<b>J. Murphy &amp; Sons Ltd</b> Hiview House, Highgate Road, London, NW5 1TN info@murphygroup.co.uk +44 (0)20 7267 4366 <b>Primary Contact:</b> Sean Martin	3,500		£780m			✓	✓	✓	✓		As one of the UK's foremost tunnelling and underground construction specialists, Murphy is ideally placed to manage underground projects. Our extensive range of equipment and substantial investments in modern tunnelling technology means we can be competitive at all levels and are able to work in a wide and diverse range of ground conditions. Murphy has considerable depth in strength with highly qualified and trained project managers and engineers, and a dedicated long-serving workforce.  Established in 1951 by John Murphy, J. Murphy & Sons Limited has grown into a leading global, multi-disciplined engineering and construction company with turnover of £780 million. We provide a wide range of construction services to infrastructure sectors including rail, water, power and natural resources. We have a number of specialist capabilities such as pipelines, process, marine, tunnelling and piling, and we invest heavily in our substantial holding of plant, equipment and facilities.
<b>John Holland Pty Ltd</b> 70 Trenerry Crescent Abbotsford Vic 3067 Australia tunnellingho@jhg.com.au +61 3 9934 5609 <b>Primary Contact:</b> Rob Muley	5000	100	3 billion	400	✓	✓					Tunnel excavation (TBM, mined, drill & blast).  John Holland is a fully integrated infrastructure, building and rail group offering our customers a total service solution across the entire project lifecycle.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in						Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	
 <b>Johnston Trenchless Solutions</b> Watling Street, Shawell, Lutterworth, Leicestershire, LE17 6AS enquires@johnstontrenchlessolutions.co.uk +44 (0)1788 861790 <b>Primary Contact:</b> Paul Whitehouse Senior Estimator	50	50						✓			Tunnelling, pipe jacking, microtunnelling, auger boring, horizontal directional drilling work.  JTS are one of the UK's leading specialist "Trenchless" contractors with an enviable track-record of completed projects spanning the full range of Trenchless Disciplines. With a large in-house fleet of specialist equipment including Microtunnelling, Directional Drilling (HDD), Auger boring and Pipe Bursting, JTS have the edge when it comes to offering our clients the "best engineering solution" individually tailored to suit each project.
 <b>Joseph Gallagher Ltd</b> Neagron House, Stanford, Orsett, Essex, RM16 3BX headoffice@josephgallagher.co.uk +44 (0)1375 672070 <b>Primary Contact:</b> Richard Dexter Tunnelling Director	850	400	110	60				✓	✓		Caisson & underpin shafts, SCL Tunnels, TBM, Microtunnelling, HDD, Auger boring, Hand-tunnelling  Joseph Gallagher Limited is the leading UK based Civil Engineering & Tunnelling sub-contractor that has grown significantly into an international business with a proven track record of working on award winning major infrastructure projects. The business also carries out design and build contracts developing bespoke engineering solutions for clients. Tunnelling remains the core business and with over 30 years' experience and record of delivery. Recent introduction of our LIFE behavioural safety programme has put the company at the forefront of ensuring tunnel safety going forward.  <i>Presently involved in several projects including:</i> <ul style="list-style-type: none"> <li>• Crossrail C360 All SCL shaft, tunnels and secondary lining</li> <li>• Bakerloo Line Link tunnel LUL</li> <li>• AstraZeneca Worldwide HQ Service Tunnel</li> <li>• LUL Bond Street Station upgrade</li> </ul>
<b>McNally Tunneling Corporation</b> 800 Westpoint Parkway, Suite 1130, Westlake, OH 44145 jsuffel@mcnallycorp.com +1 440-835-0053 <b>Primary Contact:</b> Josh Suffel	20	20	5	5						✓	Tunnel and Shaft Construction.  McNally Tunneling Corporation is a Heavy Civil Contractor specializing in underground shaft and tunnel construction with experience on projects from \$1M to \$200M.
<b>Moretrench</b> 100 Stickle Ave, Rockaway, NJ 07866 info@moretrench.com +1 973-627-2100 <b>Primary Contact:</b> Paul Schmall	700	300								✓	Ground Freezing, grouting, dewatering, groundwater control, excavation support.  Moretrench is a nationally recognized leader in geotechnical construction, specializing in site-specific design build solutions to meet project objectives and subsurface conditions. We have the experience, expertise and resources to resolve a wide range of shaft sinking and tunneling related challenges, and the emergency response capability for fast remediation of unanticipated conditions. Visit our website to learn more about how Moretrench can assist you on your next project.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas	
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America		
<b>S.A. Healy Company</b> 901 N. Green Valley Pkwy Ste 260 Henderson, NV 89074 dadair@sahealy.com +1 (702) 754-6400 <b>Primary Contact:</b> Doug Adair	90	65	59.6	59.6							✓		
 <b>Seli</b> Via Achille Campanile n. 73 - 00144 ROMA - Italy selispa@selitunnel.com +39.06.87724100	34	20									✓		Manufacture of TBMs, contracting.  Established in 1950, specialist underground excavation company SELI S.p.a. has enjoyed strong expansion over recent years, achieving a top position among the world leaders in its sector.  Today the company can boast an uncommon position: one of both contractor and equipment manufacturer. In its workshops, SELI designs and manufactures all TBMs and underground excavation equipment, as well as BACK-UP systems utilized in tunnel boring.
<b>Shotcrete Services Ltd</b> Shotcrete Yard, Swattenden Lane, Cranbrook, Kent TN17 3PS stuart.manning@shotcrete.co.uk +44 (0)1580 714747 <b>Primary Contact:</b> Stuart Manning	34	20	£3,792,493								✓		Spray concrete specialists.
<b>Tunel Construction Service</b> Baku, Azerbaijan info@tuneltikinti.com +994 50 268 58 34 <b>Primary Contact:</b> Zaman Hasanov	84	56	18	15	✓						✓		Microtunneling, Pipe Jacking, Auger Boring.
<b>Ultimate Reserves Group</b>					✓								Geotechnical Engineering, MRT Construction, Tunnelling.
<b>Vinci</b> 1 cours Ferdinand de Lesseps F-92851 Rueil-Malmaison Cedex - France +33 1 47 16 35 00													Construction.  VINCI is a global player in concessions and construction. We design, finance, build and operate infrastructure and facilities that help improve daily life and mobility for all.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas	
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America		
<b>Ward &amp; Burke Microtunnelling Ltd</b> 2410 Meadowpine Blvd., Unit 101, Mississauga, ON L5N6S2, Canada info@wardandburke.com +1 905 821 3012  <b>Primary Contact:</b> John Grennan	250	150									✓	✓	Heavy Civil Engineering, Shaft Construction, Microtunnelling.  www.wardandburke.com
  <b>WWL ALS UK Intl Ltd</b> 1501 Hedon Road, Hull, East Yorkshire, HU9 5NX, UK. +44 (0)1482 796214 <b>Primary Contact:</b> Paul Braithwaite	1-150	7	€60m	£1m	✓	✓	✓	✓	✓	✓	✓	✓	Experienced in house operations team offering comprehensive global logistics solutions for delivering TBMs and equipment from planning stage.  WWL ALS is a 3PL & 4PL freight forwarding company specialising in the global logistics of Project Cargo, Abnormal Loads, Capital Equipment and Supply Chain Solutions. We provide the reassurance of many years' experience of successfully managing the handling and delivery of tunnel boring machines (TBMs), back-up and ancillary equipment, utilising multi-modal solutions within the UK, throughout UK, throughout Europe and to/from worldwide locations.  Video: <a href="https://www.youtube.com/watch?v=-6WYirhz-Fw">https://www.youtube.com/watch?v=-6WYirhz-Fw</a>

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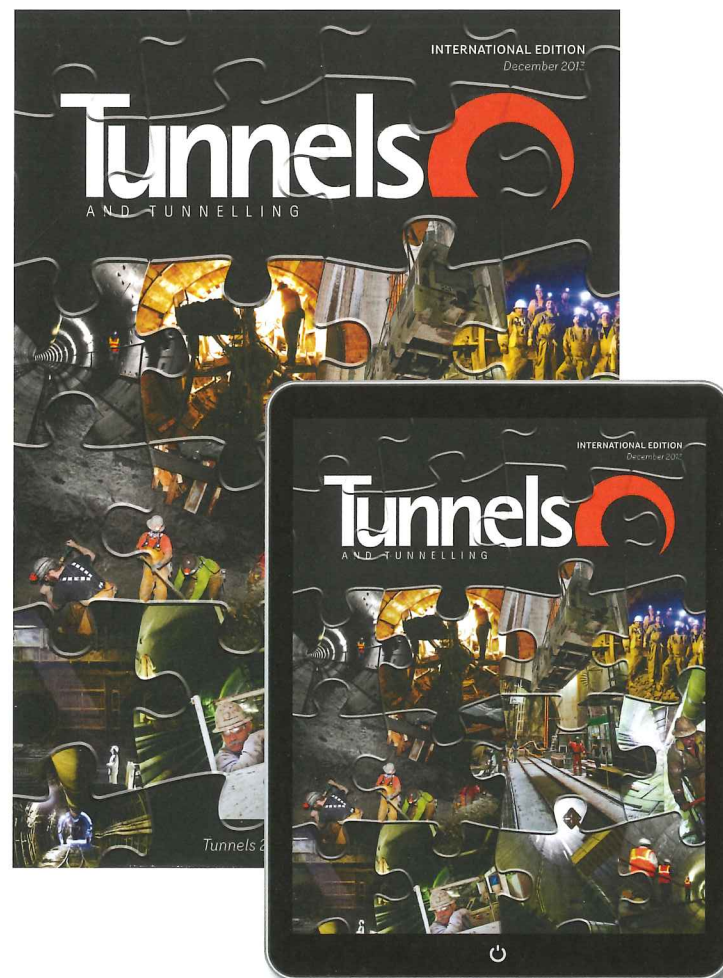
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## CONSULTANTS

The alphabetical list of consultants in the tunnelling industry,  
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Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
<b>AECOM</b> AECOM 1999 Avenue of the Stars, Suite 2600, Los Angeles, California 90067, United States steve.woodrow@aecom.com +1 (212) 377 8667 / +44 (0)7887 764252 <b>Primary Contact:</b> Steve Woodrow, Head of Tunnelling, Europe	92000	2600	18 billion	320	✓	✓	✓	✓	✓	✓	✓	Fully integrated design delivery and professional services for all types of tunnel, shaft and underground structure in the water, road, rail and utilities sectors.  AECOM is built to deliver a better world. We design, build, finance and operate infrastructure assets for governments, businesses and organizations in more than 150 countries. As a fully integrated firm, we connect knowledge and experience across our global network of experts to help clients solve their most complex challenges. From infrastructure, to resilient communities and environments, our work is transformative, differentiated and vital. See how we deliver what others can only imagine at aecom.com and @AECOM.  A selection of recently complete tunnelling projects that are helping to transform local communities include Lee Tunnel, London, UK; Auckland Central Interceptor, New Zealand; Brisbane Cross River Rail, Australia; Abu Dhabi Metro concept design, United Arab Emirates; and Big Walnut Sanitary Tunnel Extension design, Phase 2, City of Columbus, Ohio, USA.
<b>Alan Auld Group Ltd</b> 1 South Parade, Doncaster, DN1 2DY, UK. mail@alanauld.co.uk +44 (0)1302 329911 <b>Primary Contact:</b> Paul Jones	72	56	£9,534,000	£9,094,000				✓		✓	✓	Shaft and tunnel design. Temporary works design. Shaft remediation design and grouting and ground-freezing design. Geotechnical Engineering.  Alan Auld Engineering have been at the forefront of providing cost effective, innovative and pragmatic engineering solutions for 25 years. Specialising in the design, detailing, planning and management of mining, tunnelling and underground infrastructure projects, Alan Auld Engineering combine the experience and unique variety of talented engineers to provide an unrivalled engineering service.  Recent projects that Alan Auld Engineering have been involved with include the upgrading of both London Underground's Bank Station and Finsbury Park Stations, designing both the temporary and permanent works for the upgrades as well as the design and overseeing construction of two circa 1000m deep shafts as part of the new Jansen Potash Mine in Saskatchewan, Canada.
<b>CG2M Advisor</b> Independent cg2mailet@gmail.com +56 9 4843 0257 <b>Primary Contact:</b> Carlos Gaston Mailet	0	1	90000	80000							✓	Reinforcement.  Consultant.
<b>CH2M</b> Elms House, 43 Brook Green, Hammersmith, London, W6 7EF hello@ch2m.com +44 (0)20 3479 8000 <b>Primary Contact:</b> Martin Knights	24000	550			✓		✓	✓	✓	✓	✓	Tunnel, shaft and cavern design, GI, construction and programme management, seismic engineering.  CH2M is one of the world's leading consulting, design, design-build and programme management companies. We serve government, civil, industrial and energy clients in the water, transportation, environment, energy, facilities and resources sectors. Working on some of the most iconic infrastructure programmes across the globe we plan, design and manage programmes of tunnel related work and advise on operations and maintenance for transit, water/sewerage, hydro, utilities and storage schemes.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas	
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America		
<b>Conquip Engineering Group</b> Units 3-5 Waterbrook Industrial Estate, Alton, GU34 2UD jesse@cqegroup.com +44 (0)1420 592900 <b>Primary Contact:</b> Jesse Long	75							✓	✓		✓	✓	Logistics and Muckaway.
<b>Donaldson Associates Ltd</b> Bevis Marks House, 24 Bevis Marks, London, EC3A 7JB london@donaldsonassociates.com +44 (0)20 7407 0973 <b>Primary Contact:</b> Damian McGirr	181	133	£16m	£16m			✓		✓	✓			Augerbores, Pipejack, Large diameter tunnels, Micro tunnels, TBM, Drill & Blast, Tunnels for Rail, Road, Power, Timber Headings, Rapid Response, Feasibility Options, Site and Ground Investigations, Permanent Works Design, Risk Assessment, Category III checks, Construction Support, Temporary works including thrust walls, drive & reception pits, shaft eyes, Sprayed Concrete Lining, Asset Protection, Remedial Works and Tender Design for Contractors.  Formed in 1989, Donaldson Associates has a wealth of experience in tunnelling and the use of underground space. This includes existing tunnel inspection, assessment, remedial works and new tunnel design and construction. Sizes range from small diameter augerbores and pipejacks to large diameter tunnels constructed by TBM or drill and blast techniques.
 <b>Dr. Sauer &amp; Partners</b> 11 Langley Avenue, Surbiton, Surrey, KT6 6QH london@dr-sauer.com +44 (0)20 8339 7090 <b>Primary Contact:</b> Gerald M. Skalla, MD	75	70				✓	✓	✓	✓	✓	✓	✓	Tunnel Design, Geotechnical Engineering, Site Supervision, Waterproofing & Water Control, Instrumentation & Monitoring, Tunnel Rehabilitation, Construction Management.  Dr. Sauer & Partners is an independent consultancy specialised in providing the full range of design and construction management services for SCL / NATM / SEM tunnels, shafts and caverns. Dr. Sauer & Partners delivers innovative, cost-effective and environmentally-aware design solutions and has over 30 years of experience designing and constructing more than one hundred of the world's most complex tunnelling projects (Metro, Highway, Water, Rail and Mining). Dr. Sauer & Partners provides designs for tunnels in urban and rural locations and in any type of geology.  <b>Current and recent projects include:</b> <ul style="list-style-type: none"> <li>• Chinatown Station, San Francisco, USA</li> <li>• Ottawa Light Rail, Ottawa, CAN</li> <li>• Bank Station Capacity Upgrade Project London, UK</li> <li>• Crossrail London, UK</li> <li>• Red Line, Tel Aviv, Israel</li> <li>• Eglinton Crosstown LRT, CAN</li> </ul>

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
 <b>GEOCONTROL</b> BRASIL   CHILE   ESPAÑA   PERÚ Cristóbal Bordiú, No. 19-21, 5º, 28003 Madrid España geocontrol@ geocontrol.es +34 9155 31763 <b>Primary Contact:</b> Benjamin Celada Tamames President and General Manager, Professor & Ph.D. (Eng.)	67	59	7.4	7.4				✓			✓	Underground Works: Basic & Detailed Engineering, Site Supervision, Safety Installations, Inspections.  Geocontrol is an independent engineering company established in 1982 specialised in the Design and Geotechnical Applications of Underground Works. It has participated in more than 342 tunnels (1.000 Km). The company has offices in Brazil, Chile, Colombia, España and Peru.  Detailed Engineering & Site Supervision LINE 6, Santiago Subway (Chile); 16,5 Km, 10 Stations, 11 Shafts; NATM; Client: Metro de Santiago * Basic Engineering LINE 4, Lima (Peru); 28 Km, 22 Stations, 22 Shafts; NATM; Client: Proinversion * Detailed Engineering LINE 2, Lima Subway (Peru); 8 Km; NATM; Client: Consorcio Constructor M2 Lima * Feasibility Study of Santiago-Valparaiso Railway Corridor (Chile); 110 Km, 40 Km of tunnels; Client: GRUPO EFE * Basic and Detailed Engineering LINE 6, Sao Paulo Subway (Brasil); 5,3 Km, 5 Stations, 5 Shafts; TBM, EPB, NATM; Client: Consorcio Expresso L6.
<b>GINPROSA INGENIERIA SL</b> Las Rozas. Madrid. Spain ginprosa@ginprosa.es +34 9179 94900 <b>Primary Contact:</b> Alberto Fernandez Eusebio	100	10	10				✓		✓	✓		
<b>GZA GeoEnvironmental</b> 915 Harger Road, Suite 330 Oak Brook, IL, USA patrick.harrison@gza.com +1 630-684-4427 <b>Primary Contact:</b> Patrick Harrison	600	25	20								✓	Geotechnical investigation and Instrumentation.  Consulting.
<b>Hyperbaric and Tunnel Safety</b> 10 Caldly Chase Drive, Caldly, Wirral, CH48 2LD www.hyperbaricandtunnelsafety.co.uk +44 (0)151 625 8122 <b>Primary Contact:</b> Dr Donald Lamont	1	1	£150k	£150k	✓	✓	✓	✓	✓	✓	✓	Tunnelling safety, Tunnel machinery safety, Hyperbaric tunnelling safety.  International micro-consultancy.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
<b>Jacked Structures Ltd</b> Alport Farm, Overton Common, Malpas, Cheshire, SY14 7DG team@jackedstructures.com +44 (0)20 7129 8120 <b>Primary Contact:</b> Andy Robinson	6	6					✓	✓		✓	✓	Conceptual and detailed design of large jacked structures.  A specialist consultancy with experience of more than a 100 jacked projects. Shallow tunnels, underpasses, subways culverts without surface disruption.
 <b>London Bridge Associates Ltd</b> Cranhurst Lodge, 37-39, Surbiton Hill Road, Surbiton, Surrey, KT6 4TS welcome@lba.london +44 (0)20 8399 8614 <b>Primary Contact:</b> Mr Simon Morgan, Managing Director	48	40	8	7	✓	✓	✓					Tunnelling Management, Construction Planning, Cost Planning, Risk Management, Monitoring, BIM, Tunnel Data (TIM).  LBA provides tunnel management support to Clients, Consultants, Contractors and others by using a combination of staff with established reputations as experts in their fields and good younger staff who are making their way in the industry in a way that generates real value for our clients at all stages in the construction cycle.  Recent and current projects include: Bond Street Station Upgrade where our team provides survey, tunnelling, assurance, engineering and interface management support; HS2 where we are providing construction planning to the design team and value management and project planning support to the Client; Tideway where we are an integral part of the Clients project management team; and many others.  In addition to our mainstream activities we provide Fire Engineering and Fire Safety support, CDM support, and we have a web-based Tunnel Information Management system (TIM) that is in use on several TBM and SCL projects.
<b>Mosen Ltd</b> Unit 15 Riverview Business Park, Station Road, Forest Row, East Sussex, RH18 5FS, UK. info@mosenltd.com +44 (0)1342 458427 <b>Primary Contact:</b> Dr Fathi Tarada	8	8	£400k	£300k	✓	✓	✓	✓	✓	✓	✓	Tunnel and underground ventilation, fire safety engineering, risk assessments.
<b>Nuclear Waste Management Organization of Japan (NUMO)</b> 1-23, Shiba 4-Chome, Minato-ku, Tokyo, Japan www.numo.or.jp +813-6371-4003 <b>Primary Contact:</b> Yoshito Kitagawa	110	5				✓						NUMO is implementer of geological disposal of high level radioactive waste. NUMO was established as authorized organization by METI in 2000 accordance with the Specified Radioactive Waste Final Disposal Act.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
<b>Parsons Corporation</b> 100 West Walnut St, Pasadena, CA 91124 Steve.Minassian@parsons.com +1 248.513.2391 <b>Primary Contact:</b> Steve Minassian	14000	100	3 billion	100	✓	✓	✓	✓	✓	✓	✓	Construction, design of underground for transportation, water, environmental, commercial and defense.
<b>Prime Horizontal</b> Salland 3, 1948 RE Beverwijk, The Netherlands. office@primehorizontal.com +31 2512 71790 <b>Primary Contact:</b> Dan Billig					✓	✓	✓	✓	✓	✓	✓	Experts in providing accurate steered drilling solutions for freeze drilling, tunneling and ground consolidation projects. HDD Guidance, Data Measuring/ Monitoring/ Logging, Downhole Tooling, Fully Trained Field Engineers.  Since our beginnings in 1998, Prime Horizontal has become a leading HDD service company and is actively engaged with innovations within the HDD market. Around the globe our customers rely on our know-how and together we continue to successfully complete a full range of HDD projects. Whether this requires guidance services, downhole tooling, rig data recording systems or bespoke developments, our dedicated team is ready to support all your HDD project needs.
<b>Ramboll</b> Hannemanns Allé 53, DK-2300 Copenhagen, Denmark info@ramboll.com +45 5161 1000 <b>Primary Contact:</b> Alun Thomas alnt@ramboll.dk	13074	475	£1.26 billion	£50m	✓	✓	✓	✓	✓	✓	✓	Planning, design & construction supervision for all types of tunnelling projects: IMT; SCL; Drill & Blast; TBM; cut & cover tunnels. All related subjects from road and rail engineering to environmental impact assessments.  Ramboll is a leading engineering, design and consultancy company founded in Denmark in 1945. We employ 13,000 experts in 35 countries. We provide a wide range of engineering services for all types of tunnels from mega projects like the record-breaking Fehmarnbelt Fixed link between Denmark and Germany to cable tunnels in Stockholm, from PPP road tunnels in Norway to small bore water tunnels for climate adaptation projects. We cover all stages of the project life cycle from pre-feasibility studies like the 20 km Øresundsmetro to design for contractors as on Crossrail's Paddington station, from construction supervision on the Lansimetro in Helsinki to asset management as applied to the Sydney Harbour tunnel. <a href="http://www.ramboll.com/tunnels">www.ramboll.com/tunnels</a>
<b>ROCKSOIL S.p.A.</b> Piazza San Marco, 1 - I-20121 Milan (Italy) rocksoil@tin.it +39 0265 54323 <b>Primary Contact:</b> Alberto Balestrieri	155	131	11	10.5	✓	✓		✓	✓	✓	✓	Design of tunnels (conventional and mechanized), special foundations, environmental recovery and repair, monitoring.

Company and contact information	Number of employees		Annual turnover	Tunnel turnover	Regions company works in							Specialist areas
	Total	In tunnelling			Africa	Asia	Australasia	Europe	Middle East	North America	South America	
 <b>Saanio &amp; Riekkola Oy</b> Laulukuja 4, 00420, Helsinki, Finland <a href="http://www.sroy.fi">www.sroy.fi</a> <b>Primary Contact:</b> Fionán O'Carroll	82	35	€10m	€4m				✓				
<b>Shannon &amp; Wilson, Inc.</b> 400 N. 34th Street, Suite 100, Seattle, WA 98103 +1 206-632-8020	300							✓		✓	✓	Hard rock tunneling with drill-and-blast, roadheaders, and hard rock Tunnel Boring Machines (TBM); New Austrian Tunneling Method (NATM)/Sequential Excavation Method (SEM) in hard rock and soft ground; Earth Pressure Balanced Tunnel Boring Machine (EPBM) and Slurry Tunnel Boring Machines (Slurry TBM); Jack and bore tunneling; Microtunneling and Horizontal Directional Drilling (HDD) and Pipe Ramming.  Shannon & Wilson, founded in 1954, is a full service, nationally recognized leader in geotechnical and environmental engineering. Our underground engineering staff have completed more than 900 tunnel and underground structure projects for transit, railroad, highway, power generation, and utility clients. We provide all phases of underground engineering from consulting and design phases through construction support.
<b>Tetra Tech</b> Suite 1000, 10th Fl., 885 Dunsmuir Street, Vancouver, B.C. V6C 1N5 Charles.Hunt@tetratech.com +1 604-685-0275 <b>Primary Contact:</b> Charles Hunt	16000				✓	✓	✓	✓	✓	✓	✓	Tetra Tech is a leading provider of consulting, engineering, program management, construction management, and technical services. Tetra Tech is one of the largest firms based in North America, providing geotechnical solutions worldwide. We use state-of-practice techniques and test procedures to investigate, analyze, and develop geotechnical engineering recommendations and designs for simple to complex problems relating to groundwater, soil, or rock.
 <b>UnPS</b> UNDERGROUND PROFESSIONAL SERVICES <b>UnPS Ltd</b> Corporation Street, Rugby, CV21 2DW info@unps.co.uk +44 (0)1788 534669 <b>Primary Contact:</b> Kate Cooksey	83	83	£7m	£7m	✓	✓	✓	✓	✓	✓	✓	Tunnel and Shaft Design, Temporary Works design, Project Management, Design Management, Risk Management, Interim Management.  UnPS is a specialist tunnelling and underground space consultancy with a world-class record of innovation. We have been responsible for the detailed design of more than £2 billion of the most prestigious tunnelling projects in the UK. Our team can demonstrate an unparalleled achievement in bringing new ideas to market, and we pride ourselves on seamless interfaces between tunnel design and construction that have helped deliver more than £100 million of value engineering savings to our customers.
<b>WS Atkins Plc</b> Woodcote Grove, Ashley Road, Epsom, KT18 5BW, UK. info@atkinsglobal.com +44 (0)1905 338247 <b>Primary Contact:</b> Mike Sleath	18,100	500	£1.86 billion	£20 million	✓	✓	✓	✓	✓	✓	✓	Bored Tunnels Sprayed Concrete Linings Metro Tunnel Integration Sub-surface digital engineering Substructure engineering Tunnel ventilation and fire life safety.  Atkins is one of the world's most respected design, engineering and project management consultancies. We build long-term trusted partnerships to create a world where lives are enriched through the implementation of our ideas.

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