Tracey Concrete is one of the largest precast concrete manufacturers in the UK and Ireland.

Tracey Concrete’s success has been built on the consistent quality of our products, efficient delivery and outstanding customer service. This combined with our ability to work closely with the client and tailor our products to their specific requirements allows for the manufacture of a superior product. With our vast experience and expertise in the construction industry we have been able to supply some of the biggest projects in the UK and Ireland.

Our products comply with all necessary certifications and are accredited with the most up to date British and European standards, with the relevant products being BSI kitemarked and CE marked.

WE SPECIALISE IN
• Precast Concrete Drainage Systems
• Precast Tunnelling Systems
• Cable Trough Systems
• Agricultural Precast
• Precast Fencing
• Ready-mix and Liquid Screed Concrete
• Bespoke Precast Concrete Systems
• Bio Klenze™ Sewage Treatment Systems
• Quarry Products

CONTENTS
Jacking Pipe Sizes 4
Standard Jacking Pipes 5
Lubrication Jacking Pipes 6
Lifting & Handling 7
Joint Detail 8
Forsheda Seals 9
Intermediate Jacking Station 10 - 11
Project Map 12 - 13
Caisson Rings 14
Shaft Slabs 16
Bespoke Slabs 17
Case Studies & Product Brochures 19
Tracey Concrete manufacture a comprehensive range of high quality Jacking Products to suit the requirements of the latest generation of pipe jacking systems. Tracey Concrete have a long tradition of producing high quality concrete pipes and operates an ISO9001 quality management system.

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<table>
<thead>
<tr>
<th>DN Sizes (mm)</th>
<th>Wall Thickness (mm)</th>
<th>External Dia (mm)</th>
<th>Effective Length (mm)</th>
<th>Overall Length (mm)</th>
<th>Weight (KG)</th>
<th>Max Load (KN/m)</th>
<th>Proof Load (KN/m)</th>
<th>Max Jacking Force (KN/m)</th>
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**STANDARD JACKING PIPES**

Tracey Concrete Jacking Pipes incorporate the tried and tested butt end joint system with cast in steel band. Tracey Concrete Jacking Pipes are BSI Kitemarked in accordance with BS EN 1916 and BS5911-1.

The butt ends joint design enables jacking forces to be transmitted over the maximum concrete area of the pipe hence reducing possibility of damage due to jacking loads. A compressible packing must be used to ensure even distribution of the jacking loads. The cast-in mild steel collar ensures no lateral displacement of the pipe during jacking. Stainless steel collars can be supplied on request.
LUBRICATION PIPES

Lubrication pipes are similar in design to standard jacking pipe but have lubricating grout sockets cast into the pipe. Tracey Concretes standard lubricating grout socket is a 1 ¼” BSP steel socket fitted with plugs. Non-return valves are supplied as standard.

The ratio of lubrication pipe to standard jacking pipe will vary, depending on the ground conditions for each job.

Tracey Concrete Jacking Pipes are manufactured with coloured steel bands so as to ensure ease of identification on site:

- Lubrication Pipes - Yellow steel band
- Standard Pipes - Blue steel band

LIFTING & HANDLING

Pipes should be lifted using a two legged chain and two shortening clutches for altering chain lengths to ensure vertical loading on the lifting anchor. Under no circumstances should the lifting system be used to lift more than one pipe at a time or to aid the jointing of pipes. Ensure that the crane hoist is centrally placed between the two anchors and lift the pipe. Lifting should be carried out slowly and steadily, avoiding all shocks and impacts.

After lifting of the pipe the lifting shackles should be removed and the lifting hole filled.

Tracey Concrete install 2No spherical lift head anchors in each pipe and can supply shackles on request.

<table>
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<tr>
<th>Sizes mm</th>
<th>DN450</th>
<th>DN600</th>
<th>DN900</th>
<th>DN1200</th>
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Lubrication Socket Locations
Bespoke positions on request

Spherical Lift Head Shackle
Lift Head Anchor
**JOINT DETAIL**

Tracey Concrete joint is designed to withstand a pressure of 0.5 bar, in circumstances where the pressure will exceed this value a seal can be supplied or the design of this joint amended.

The below image is for indicative purposes only and the joint dimension vary per pipe size. For more information on the specific dimensions of each joint please contact Tracey Concrete technical team.

Tracey Concrete supply a F104 seal as standard. Other seal types are available on request.

The bond between the steel collar and the concrete have been designed and developed from many years of experience in order to achieve a watertight and robust seal. For more information on this design please contact Tracey Concrete technical team.

During installation to achieve a successful connection it is important to lubricate the inner face of the steel collar and the rubber seal.

**FORSHEDA SEALS**

The Non-Integrated Seals supplied by Tracey Concrete, are designed as a sliding seal. The special design on the joint and seal make the system easy to use during jointing. The seal is compressed when the pipe spigot is inserted into the socket, creating a positive seal under both internal and external pressure.

The special design gives:
- Low assembly force
- Excellent sealing capability under both internal and external pressure
- Good distribution of transverse shear load

**JOINT INSTRUCTIONS**

1. Stretch the seal onto the pipe spigot and position against the shoulder as shown. Equalize the tension by lifting and releasing the seal at several points

2. Apply forsheda lubricant on the socket. This must be evenly spread over the surface of the entire socket.

3. Advance the pipe so that the rubber seal is in uniform contact with the edge of the steel collar of the pipe with which it is be jointed

4. Centre the spigot into the socket and assemble

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INTERMEDIATE JACKING STATION

An Intermediate Jacking Station is a fabricated steel cylinder fitted with hydraulic jacks that are installed temporarily into the pipeline between two Interjack pipes — Trail Pipe & Lead Pipe. Interjacks are used on drives where jacking forces exceed the maximum that the pipes or jacks are capable of. Interjacks reduce the forces by pushing the pipes in front of the interjack first which means the main jacks are only required to push the rear section of pipes.

It is critical to use sufficient amounts of lubricant on the inner face of the steel shield and on the outer surface of the trail as well as the seals.
CAISSON CHAMBERS

Caisson chamber sinking system was originally designed for micro-tunnelling, but it is also widely used in the construction of pumping stations, wet wells & manholes, particularly in difficult ground conditions.

ADVANTAGES

• Fast, clean & accurate construction
• Immediate permanent shafts
• Minimal labour costs
• Quicker construction times
• Inherently safer
• Fewer joints than segmental system
• Construct shafts without having to dewater

<table>
<thead>
<tr>
<th>Caisson Chamber</th>
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<th>Depths Available</th>
<th>Wall Thickness</th>
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*DN4000mm supplied as two piece unit*

t.028 6632 6437
traceyconcrete.com
Shaft and landing cover slabs are produced as part of the Tracey Concrete tunnelling product range, manufactured using specialist steel moulds with high strength wetcast concrete and bespoke steel reinforcement. Tracey Concrete manufacture shaft slabs to customer specification. Shaft slabs are made with lift head anchors cast in and are handled onsite using spherical lift head shackles, which Tracey Concrete can supply. Bespoke shaft slabs can be manufactured up to 25m.

All our tunnelling products are manufactured in accordance with Tracey Concrete’s BSI accredited ISO 9001 quality management system.

Tracey Concrete manufactures a wide range of Cover Slabs in accordance with BS EN 1917, BS 5911-3. DN3600 & 4000 Cover Slabs are generally designed in accordance with BS EN 1992-1-1. Bespoke slabs can be manufactured to customers required specification including multiple openings, depths and loadings.

<table>
<thead>
<tr>
<th>To Suit Internal Dia</th>
<th>Overall Dia</th>
<th>Effective Depth</th>
<th>Approx Weight</th>
<th>Standard Openings Available</th>
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*4000 slabs are manufactured in 2 pieces
*Larger and bespoke slabs DN2100 - 4000 are manufactured hexagonal
CASE STUDIES & BROCHURES

All Case Studies & Brochures available to download on our website.

traceyconcrete.com