



TRACEY
CONCRETE

Tunnelling Products

DESIGNING | MANUFACTURING | DELIVERING



traceyconcrete.com

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

Our extensive range of precast products includes:

- Precast Tunnelling Systems
- Precast Drainage Systems
- Be-spoke Precast Concrete Systems
- Precast Fencing
- Agricultural Precast Products
- Home & Garden Products
- Bio Klenze™ Sewage Treatment Systems
- Ready-mix and Flo-Screed Concrete

Tracey Concrete's success has been built on the consistent quality of our products, efficient delivery and outstanding customer service. 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.



JACKING PIPES

DN450-2100mm

Tracey Concrete manufactures 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 we operate an ISO9001 quality management system.

DN Sizes	mm	450	600		900	1000	1200		1500	1600	1800	2100
Wall Thickness	mm	75	80	80	100	110	115	145	140	170	160	180
External Dia	mm	600	760	760	1100	1200	1430	1490	1780	1940	2120	2400
Effective Length	mm	2000	1200	2000	2500	2500	2500	2500	2500	2500	2500	2500
Overall Length	mm	2090	1290	2090	2600	2600	2600	2600	2630	2650	2630	2650
Approx Weight	KG	650	520	940	2200	2600	3220	3660	4360	5900	6020	8400
Max Jacking Force	Tonnes	160	250	250	450	580	700	990	1100	1700	1600	1800
Works Proof Load	kN/m	35	48	48	72	80	97	110	121	129	145	164
Max Load	kN/m	60	72	72	108	110	114	160	180	192	216	245

Other sizes & lengths are available at request



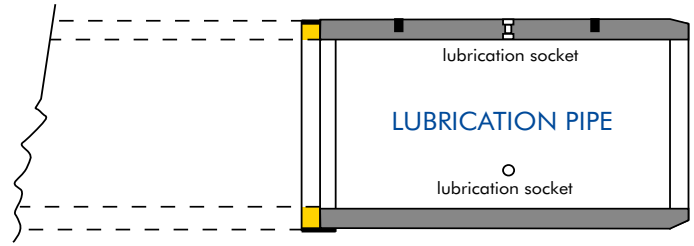
STANDARD JACKING PIPES

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.

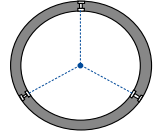
The butt ends joint design enables jacking forces to be transmitted over the maximum concrete area of the pipe hence reducing possibility of damage due to jacking loads. A compressible packing must be used to ensure even distribution of the jacking loads. The cast-in mild steel collar ensures no lateral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



JACKING PIPES



Lubrication Sockets Location
(unless otherwise requested)



LUBRICATION PIPES

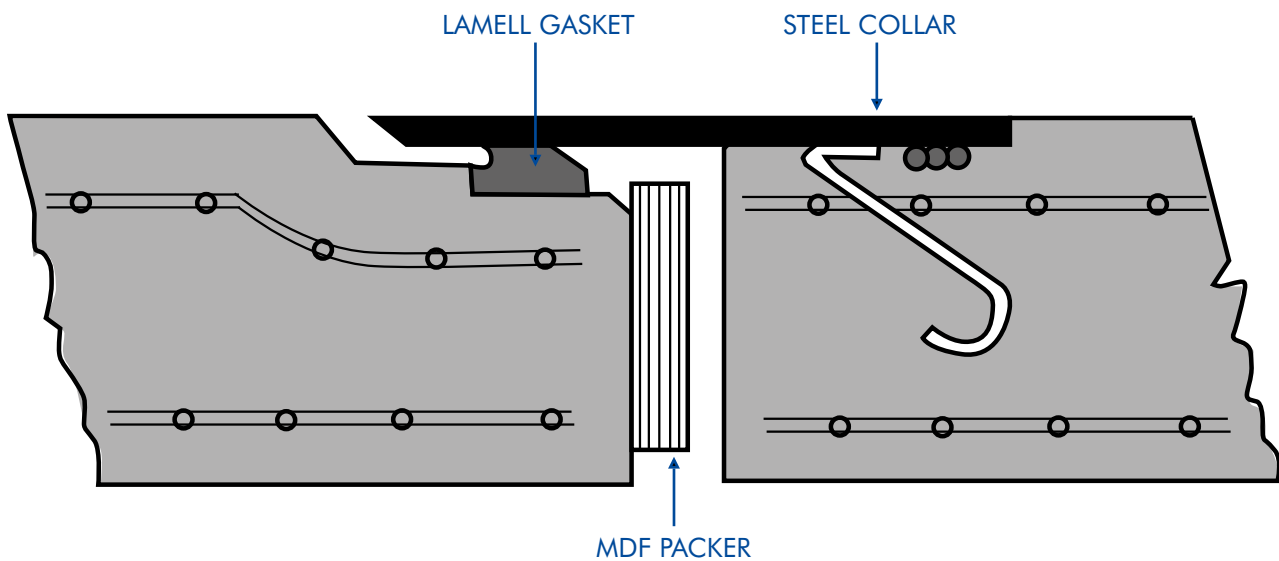
Lubrication pipes are similar in design to standard jacking pipe but have lubricating grout sockets cast into the pipe, at customers request. This lubricating grout socket is normally 1 1/4" BSP steel sockets fitted with plugs. Non-return valves are supplied as standard.

The ratio of lubrication pipe to standard jacking pipe will vary depending on ground conditions.

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

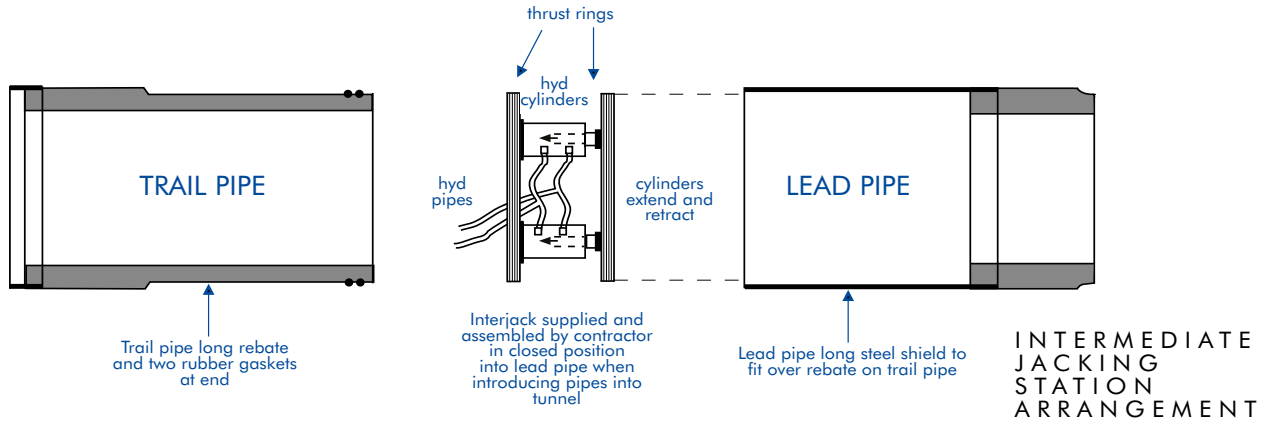
- Lubrication Pipes - Yellow steel band
- Standard Pipes - Blue steel band

JOINT DETAIL



JACKING PIPES

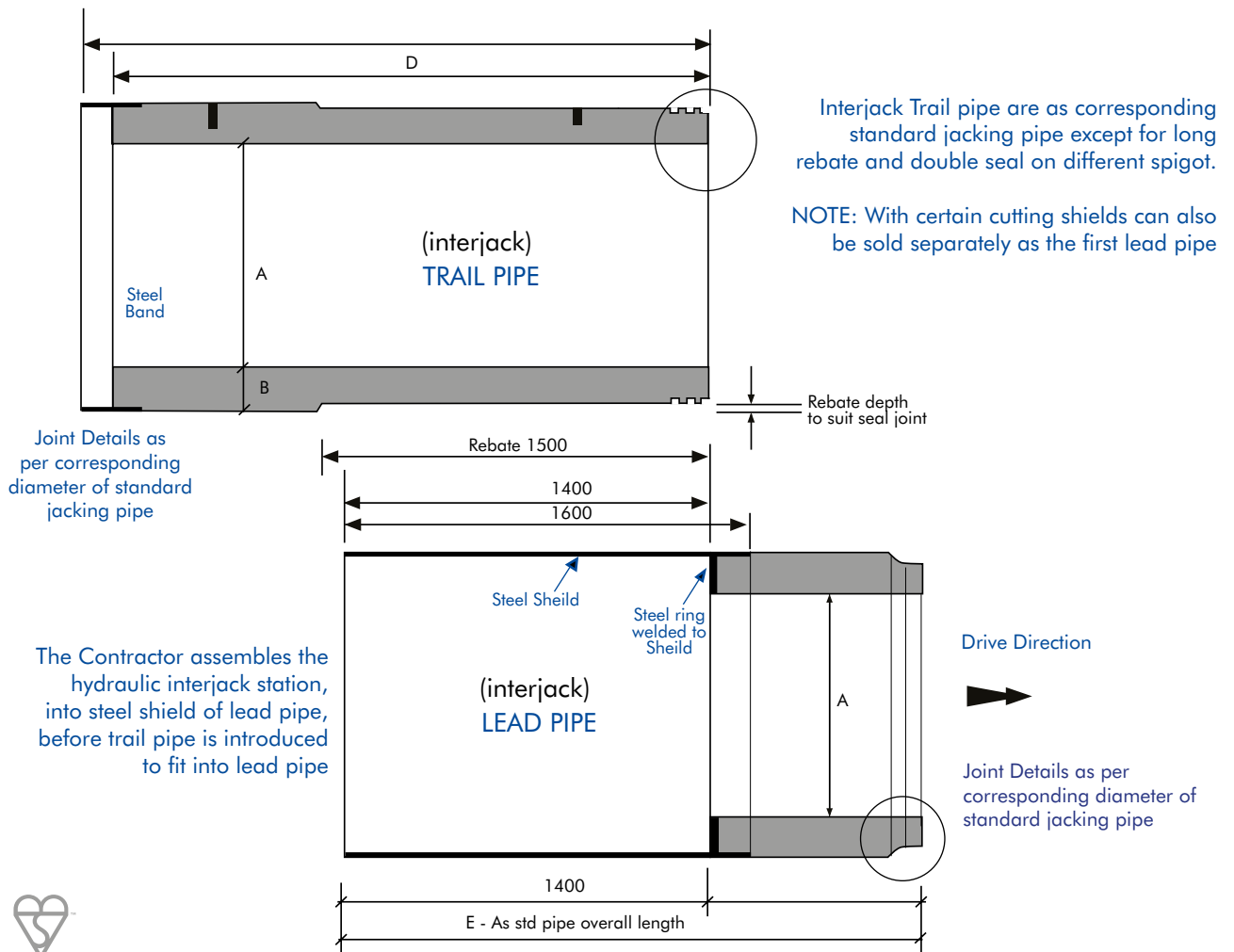
INTERMEDIATE JACKING STATION



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 commonly 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.

INTERJACK TRAIL AND LEAD PIPE



JACKING PIPES

INTERJACK TRAIL AND LEAD PIPE

The Non-Integrated Seals supplied by Tracey Concrete Ltd, are designed as a sliding seal. The special design on the joint and seal make the system easy to use during jointing.

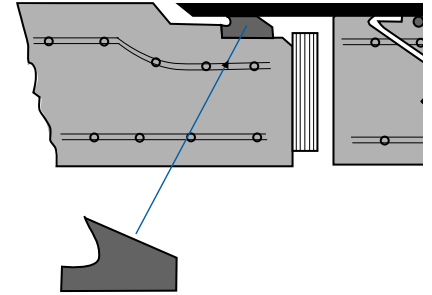
The seal is compressed when the pipe spigot is inserted into the socket, creating a positive seal under both internal and external pressure.

The special design gives:

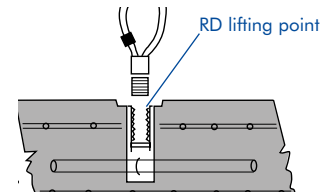
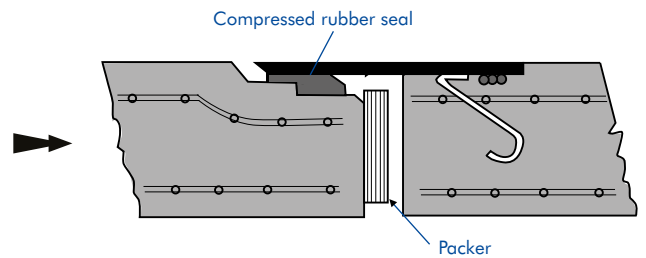
- * low assembly force
- * excellent sealing capability under both internal and external pressure
- * good distribution of transverse shear load

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



Typical rubber seal before compressed

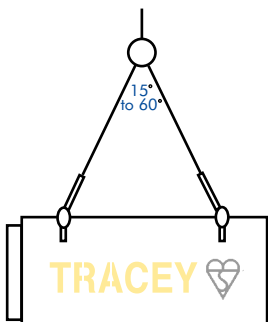


HANDLING

To provide a safe and efficient means of lifting Jacking Pipes they are supplied with suitably designed cast-in lifting anchors as specified

DN Sizes	450	600	900	1200	1500	1600	1800	2100
Lifting Anchors	-	-	2No. RD20	2No. RD24	2No. RD30	2No. RD36	2No. RD36	2No. RD36

LIFTING



Pipes should be lifted using a two legged chain with universal lifting eyes and two shortening clutches for altering chain lengths to ensure vertical loading of 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 eye should be removed and the lifting hole filled



CAISSON CHAMBERS

DN1800-4000mm

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
- It is inherently safer
- Fewer joints than segmental system
- Can construct shafts without having to dewater

Caisson Chamber	Weight	Cutting Shoe Weight	
		10mm	20mm
DN	KG/m	10mm	20mm
1800	1800	270	520
2100	2400	320	580
2400	2900	380	640
2700	3300	440	800
3000	4500	540	1000
3600	6800	640	1160
4000*	10000	730	1300

DN4000mm supplied as two piece unit





Tracey Concrete Limited

Old Rossorry, Sligo Road
Enniskillen, Co. Fermanagh
BT74 7LF

TELEPHONE

028 6632 6437

EMAIL

headoffice@traceyconcrete.com

traceyconcrete.com