



OKA Concrete Jacking Pipes



Range : Diameter 300 - 4800 mm

Applications : Sewerage, drainage, culverts, ducts, tunneling, water pipes

Pipe Strength Class : X, Y, Z ; L, M, H

Specially designed and manufactured pipes to suit individual requirements : Extra strength classes (Z/H Plus), internal high alumina cement mortar lining, internal PVC / HDPE lining, sacrificial lining, concrete with PFA, surface protective coatings and other special requirements.

OKA offers a comprehensive range of precast reinforced concrete jacking pipes suitable for installation with modern generation of jacking techniques and systems.

Standard pipes are manufactured with well proven butt end joint with cast-in steel collar and flexible natural rubber seal.

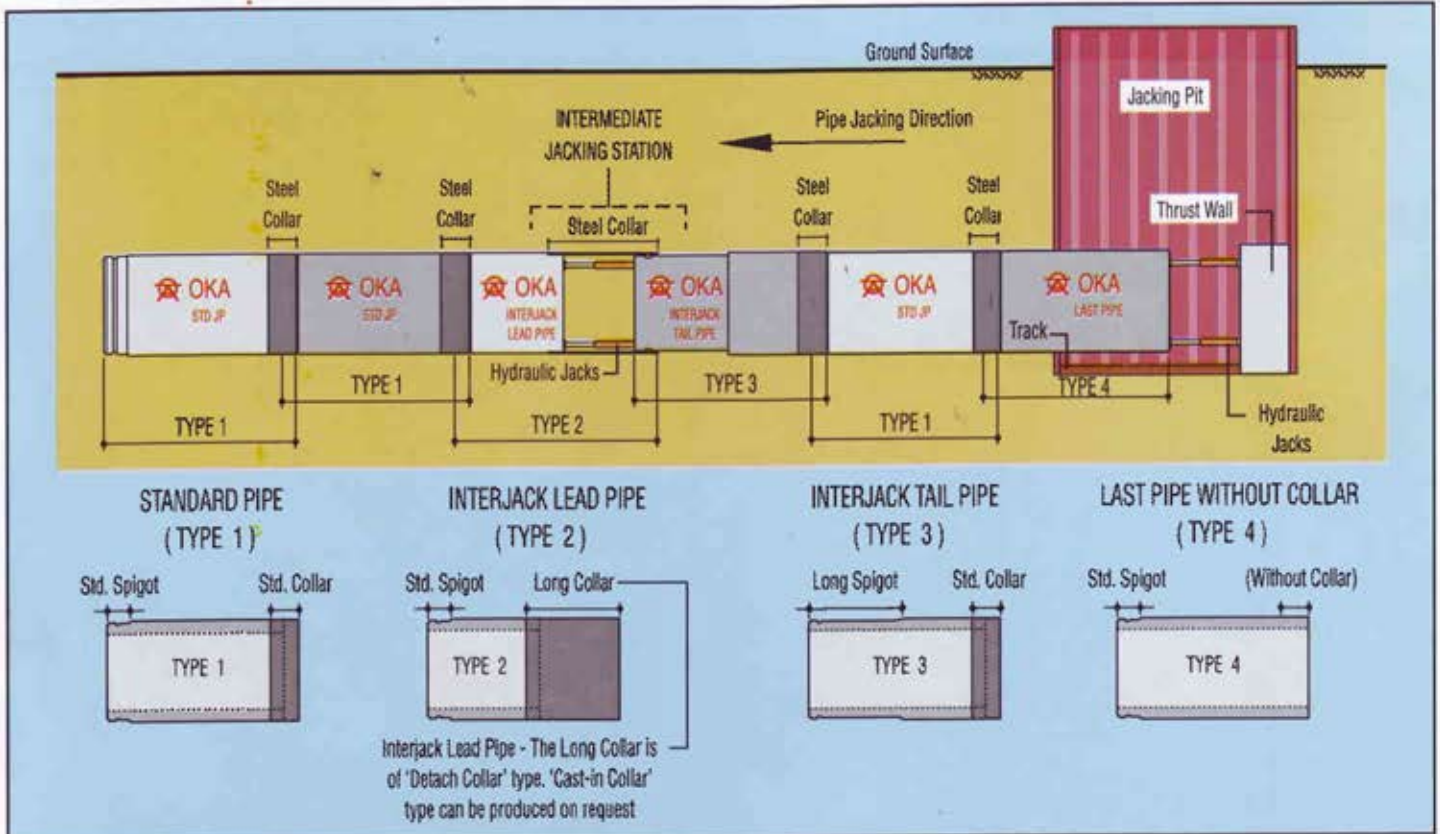
Pipes are manufactured either using spinning or vertical wet-cast process under controlled factory environment with stringent ISO 9001:2000 quality management system.

OKA is approved Supplier for sewerage products for SURUHANJAYA PERKIDMATAN AIR NEGARA / SPAN (previously JPP).
List of approved products : **PRECAST RC FLEXIBLE JOINT PIPES - JACKING AND SPIGOT & SOCKET JOINT** (with either High Alumina Cement Lining, 38mm Sacrificial Lining, PVC Lining, HDPE Lining or PFA Cement (Mascrete) without Lining) ; and **PRECAST MANHOLE COMPONENTS**.

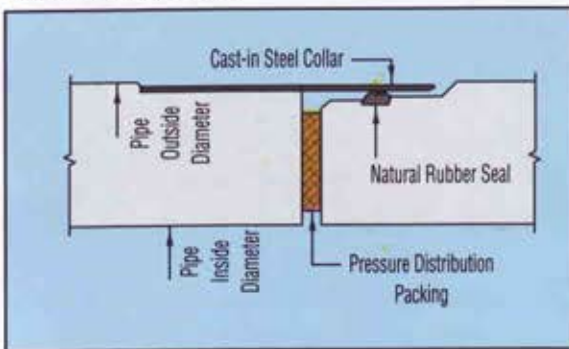
In view of continual improvement OKA reserves the right to alter the Specifications / dimensions without prior notice.



TYPICAL JACKING ARRANGEMENT



STANDARD JOINT DETAIL



The butt ends joint design enables the 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 joint during jacking. Stainless steel collar can be supplied on request.

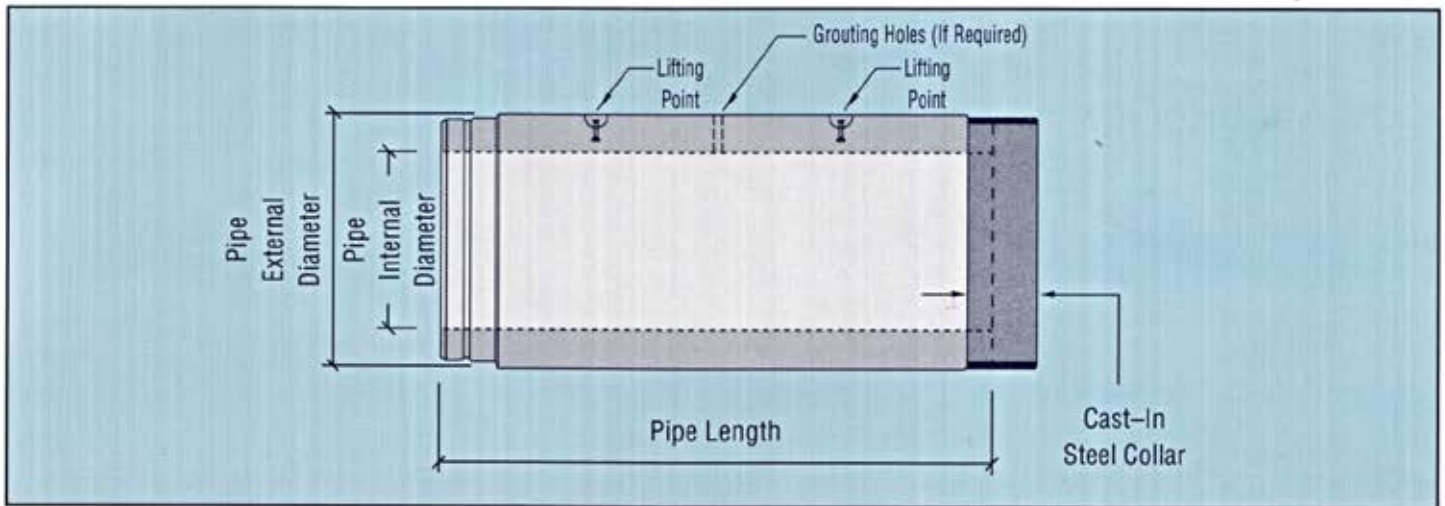
The natural rubber seal is designed to fit into a preformed rebate at the spigot end of the pipe ensuring a watertight joint.



OKA is approved Supplier for sewerage products for SURUHANJAYA PERKIDMATAN AIR NEGARA / SPAN (previously JPP).

List of approved products : **PRECAST RC FLEXIBLE JOINT PIPES - JACKING AND SPIGOT & SOCKET JOINT** (with either High Alumina Cement Lining, 38mm Sacrificial Lining, PVC Lining, HDPE Lining or PFA Cement (Mascrete) without Lining) ; and **PRECAST MANHOLE COMPONENTS**.

OKA Standard Jacking Pipes Details



Nominal Diameter (mm)	Strength Class	Internal Diameter (mm)	External Diameter (mm)	Wall Thickness (mm)	Pipe Length (m)	Pipe Weight (Approx) (ton)	Max. Allowable Jacking Force (ton)
300	Z, 1.5Z 2Z	300	520	110	2.94	1.02	170
375	Z, 1.5Z 2Z	375	520	72.5	2.94	0.73	102
450	Z, 1.5Z 2Z	450	610	80	2.94	0.96	142
525	Z, 1.5Z 2Z	525	690	82.5	2.94	1.13	172
600	Z, 1.5Z 2Z	600	775	87.5	2.92	1.35	213
750	Z, 1.5Z 2Z	750	960	105	2.92	2.02	345
		750	990	120	2.92	2.35	418
900	Z, 1.5Z 2Z	900	1200	150	2.92	3.54	690
1050	Z, 1.5Z 2Z	1050	1250	100	2.92	2.58	457

Nominal Diameter (mm)	Strength Class	Internal Diameter (mm)	External Diameter (mm)	Wall Thickness (mm)	Pipe Length (m)	Pipe Weight (Approx) (ton)	Max. Allowable Jacking Force (ton)
1200	Z, 1.5Z 2Z	1200	1430	115	2.92	3.40	605
1350	Z, 1.5Z 2Z	1350	1600	125	2.92	4.14	757
1500	Z, 1.5Z 2Z	1500	1780	140	2.92	5.16	964
1650	Z, 1.5Z 2Z	1650	1970	160	2.92	6.51	1255
1800	Z, 1.5Z 2Z	1800	2140	170	2.90	7.48	1466
1950	Z, 1.5Z 2Z	1950	2400	225	2.50	9.42	2258
2100	Z, 1.5Z 2Z	2100	2470	185	2.50	8.13	1891
2400	Z, 1.5Z 2Z	2400	2730	165	2.50	8.14	1855
2700	Z, 1.5Z 2Z	2700	3430	365	2.00	17.22	5463
3000	Z, 1.5Z 2Z	3000	3736	368	2.00	19.08	6061

NOTES

- The "Maximum Allowable Jacking Force" quoted above is for guidance only with assumption that the jacking load / thrust is evenly distributed over the full circumference of the pipe end with zero joint deflection ; concrete strength at 50 N/mm² with a factor of safety of 3.0.
- Pipes can be supplied with or without grouting holes.
- Non standard pipes can be designed and manufactured to meet individual customer requirements such as the pipe outside diameter (to suit the size of cutter head of the tunneling machine), special strength classes for high depth of fill, etc.

OKA is approved Supplier for sewerage products for SURUHANJAYA PERKIDMATAN AIR NEGARA / SPAN (previously JPP).
List of approved products : **PRECAST RC FLEXIBLE JOINT PIPES - JACKING AND SPIGOT & SOCKET JOINT** (with either High Alumina Cement Lining, 38mm Sacrificial Lining, PVC Lining, HDPE Lining or PFA Cement (Mascrete) without Lining) ; and **PRECAST MANHOLE COMPONENTS**.

In view of continual improvement OKA reserves the right to alter the Specifications / dimensions without prior notice.

OKA Concrete Jacking Pipes



PRECAST CONCRETE SOLUTIONS PROVIDER

OKA is approved Supplier for sewerage products for SURUHANJAYA PERKIDMATAN AIR NEGARA / SPAN (previously JPP).
List of approved products : **PRECAST RC FLEXIBLE JOINT PIPES - JACKING AND SPIGOT & SOCKET JOINT** (with either High Alumina Cement Lining, 38mm Sacrificial Lining, PVC Lining, HDPE Lining or PFA Cement (Mascrete) without Lining) ; and **PRECAST MANHOLE COMPONENTS**.