

MICROTUNNELING



VERTICAL SHAFTS



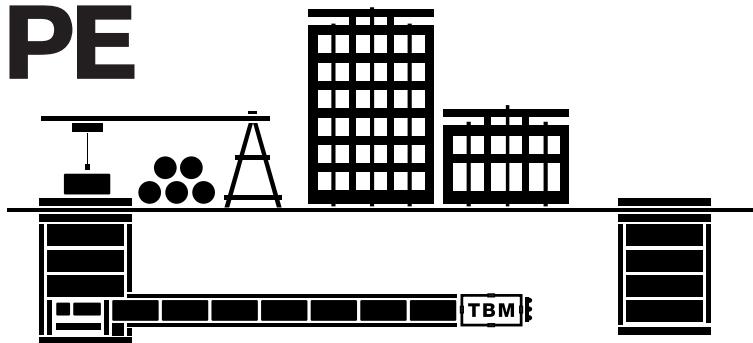
TUNNEL LINERS



ENGINEERED  
SOLUTIONS

**DEC**AST

# MICROTUNNELING PIPE



Microtunneling is a non-manned, laser guided, remote controlled, continuous pipe jacking operation. Pipes are jacked (pushed) in order from the entry shaft to the exit shaft.

## DIRECT PIPE

Stormwater and Sanitary Sewers, Sewer Outfalls, Combined Sewer Overflows (CSOs), Stormwater Management Systems, Sewage Systems

## PRIMARY CASINGS

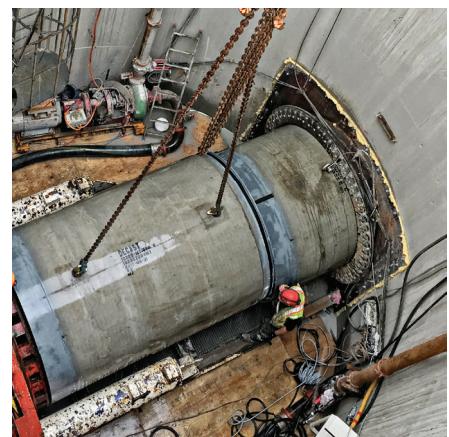
Installed within the microtunnel pipes (primary liner casing): Pressurized Water Transmission Lines, Oil/Fuel Lines, Electrical and Communication Utilities

## WATERMAINS

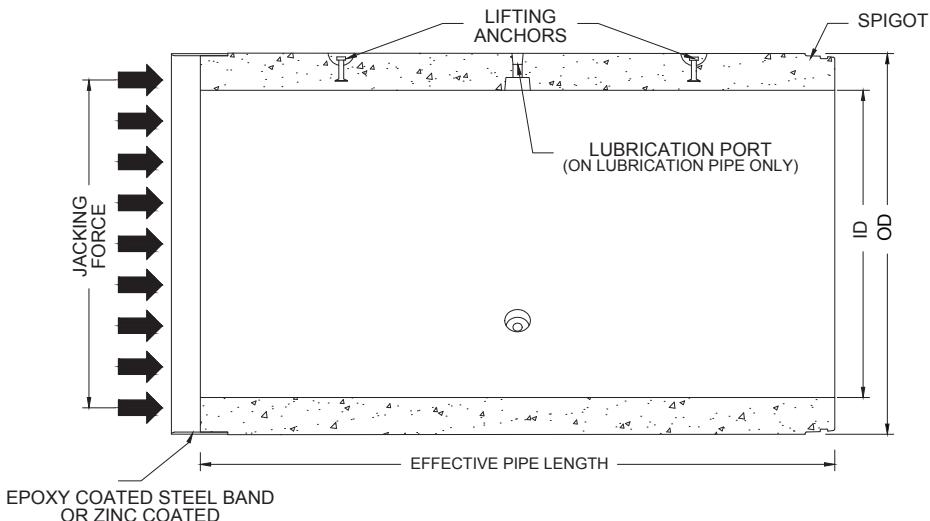
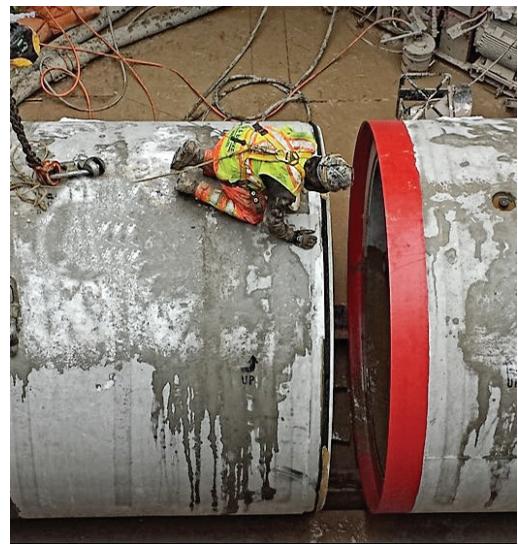
DECAST has enhanced the AWWA C300 pipe design which allows our customers to install single-pass water mains or other high pressure applications

## INSTALLATION

- Dense urban locations with crowded underground services
- Areas of contaminated soils
- Most soil types
- High groundwater areas

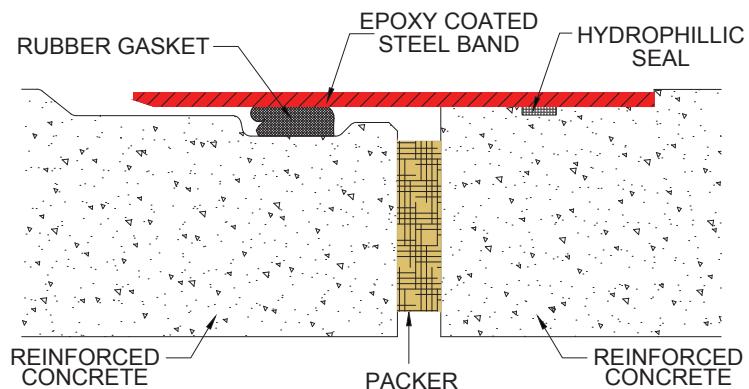


**DECAST**



DECAST PIPE SPECIFICATION	NOMINAL DIAMETER (mm)	INTERNAL DIAMETER (mm)	WALL THICKNESS (mm)	OUTSIDE DIAMETER (mm)	EFFECTIVE PIPE LENGTH (mm)	APPROX. PIPE WEIGHT (kg)
MT-600	600	600	84	768	2000	980
MT-900	900	914	121	1156	2425	2408
MT-1200	1200	1200	145	1490	3000	4675
MT-1350	1350	1350	170	1690	3000	6150
MT-1500	1500	1500	183	1866	3000	7300
MT-1650	1650	1650	200	2050	3000	9000
MT-1800	1800	1829	197.5	2224	3000	9500
MT-1980	1980	1980	210	2400	3000	11000
MT-2250	2250	2286	235	2756	3000	14100
MT-2500	2500	2500	240	2980	3000	16500
MT-2700	2700	2700	280	3260	3000	20000

- Pipes are subjected to both jacking forces and external earth loads, this is considered in the design of the pipes
- Special design to conform to AWWA C300 is available for different pipe sizes
- Designed to CSA A257.2 or ASTM C76
- Designed for specific project conditions



TYPICAL JOINT DIAGRAM

# SEGMENTAL TUNNEL LINERS



Segmental tunnel liners are precast concrete structural elements that are combined to form a complete ring for tunnel passageways. They are a cost-effective solution for large-diameter bored tunnels. DECAST manufactures highly precise liners for our customer specific tunnel projects.

## APPLICATIONS

- Utility Tunnels
- Stormwater & Sanitary Sewers
- Transit (subways, light rail)

## DIMENSIONS

- Typical Ring Sizes:  
4400mm to 5750mm
- Contact DECAST for other  
available diameters

- Cost-effective installation
- Length and radius designed for  
precise tunnel requirements
- Smooth bore, single pass tunnel lining  
requires minimal finishing
- Factory controlled quality concrete  
molds ensure a consistent accuracy of  
segment dimensions
- Segments are provided with a fast  
coarse thread plastic socket at the  
centroid for lifting and grouting
- Cruciform joints are eliminated

## FEATURES & BENEFITS

**DECAST**



*Consistent quality, proven strength,  
durability and dimensional accuracy  
of precast concrete*

# SEGMENTAL SHAFTS



Segmental shaft linings provide a safe and efficient method for construction of permanent and temporary shafts for sewer, ventilation and tunneling launch and retrieval shafts.

## APPLICATIONS

- Launch and exit shafts for pipe jacking
- Overflow storage and pump stations
- Ventilation shafts

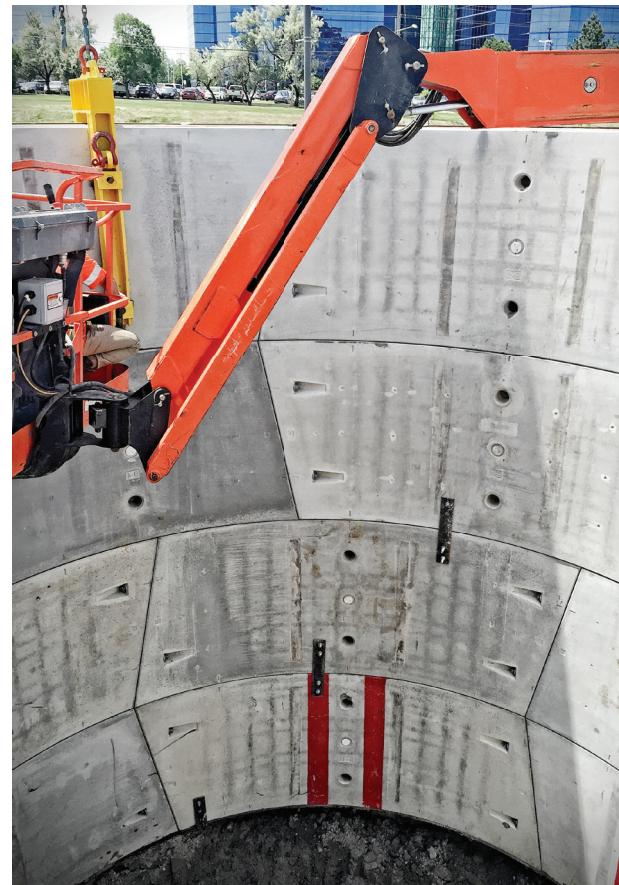
## DIMENSIONS

- Contact DECAST for available shaft diameters
- Standard designs are suited to shaft depths of up to 30m

- Superior installation efficiencies (simple locks, immediate water seal)
- Cost-effective installation
- Safer work environment
- Shafts have a minimal impact on the environment
- Ground and noise vibrations are essentially eliminated as no hammering is required
- Optimized site storage requirements

## FEATURES & BENEFITS

**DECAST**



*Our in-house engineering team collaborates with consulting engineers to design context specific tunneling products, which are then manufactured indoors in our fully automated state-of-the-art facility*



## CONTACT

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