



EMPIRE

INFRASTRUCTURE

BRINGING THE
WORLD'S MOST
SUCCESSFUL
SUPPLIERS
TO YOUR TEAM





EMPIRE
INFRASTRUCTURE



COMPLIES
WITH AUS/NZ
STANDARDS



LEADING
MANUFACTURING
PROCESS



HIGH
QUALITY
CONCRETE

CP&P Australia

CP&P Australia is one of Australia's fastest growing companies delivering high quality reinforced concrete jacking pipes to Australia and New Zealand.

Our purpose is to distribute high quality reinforced concrete jacking pipes for the Micro Tunnel Boring Machine industry primarily throughout Australia and New Zealand. We also have the capability to ship our reinforced concrete jacking pipes around the globe.

Located in Somersby NSW, we have processes in place to project manage everything for our customers, from the commencement of the reinforced concrete jacking pipes manufacturing process and quality control, monitoring the logistics of loading and freighting, through to the final delivery of reinforced concrete jacking pipes to your work/delivery site.

CP&P

Concrete pipe production commenced in 1993 and our factory management team has over 30 years experience in manufacturing concrete jacking pipes, including polyethylene coatings and catering for water, electrical services and waste water treatment systems.

The sole purpose behind creating CP&P was to manufacture high quality reinforced concrete jacking pipes for the Micro Tunnel Boring Machine industry.

CP&P is located in Thailand and has enough storage space sufficient for over 10,000 sections of pipe.

Our reinforced concrete jacking pipes are produced in a modern facility using a Variant (a large diameter vertical vibration pipe making machine). The Variant was

engineered in Germany using the latest in German technology for the vertical vibration casting of reinforced concrete jacking pipes and is controlled by a Siemens memory programmable electronic control system, which is partially sequence automated.

At CP&P we understand that the technical performance requirements of concrete pipes can vary depending on the particular purpose and installation requirements for each project. As a result we tailor the design and specification to ensure the correct application on every project.

CP&P is proudly ISO9001 compliant.

CP&P's reinforced concrete jacking pipes are complaint to both British and Australia/ New Zealand Standards.



RANGE
OF CUSTOM
LENGTHS



VARIETY
OF JOINT
SOLUTIONS



MINIMAL
ENVIRONMENTAL
IMPACT



COST
EFFECTIVE





FAQs

Q: Do you have an auditable quality system based on ISO 9001 that has systems of control and verification for concrete pipe materials, the pipe manufacturing process and testing of the pipes for compliance?

A: Yes, CP&P is certified by ISO9001:2008 for the design and manufacturing of reinforced concrete jacking pipes.

Q: Is your quality system approved by an accredited independent third-party certification body?

A: Yes, UKAS and NAC, both accredited independent third-party certification bodies have approved CP&P's quality system.

Q: Do your concrete jacking pipes and joints comply with Australian Standards and in particular AS/NZS 4058:2007 (Precast concrete pipes)?

A: Yes, CP&P's reinforced concrete jacking pipes comply with AS/NZS 4058:2007 (Australian/New Zealand Standards)

Q: Do your concrete jacking pipes and joints comply with other international standards?

A: Yes, CP&P's reinforced concrete jacking pipes can also comply with BS 5091 (British Standards) on request and JSWAS A-2-1999 (Japanese Standards) Jacking Reinforced Concrete Pipes for Sewerage.

Q: Is your pipe/joint compliant with the performance requirements demonstrated by sampling and testing in accordance with applicable standards or by the use of a third party product certification scheme?

A: Yes, CP&P's concrete reinforced jacking pipes are tested and passed by Aurecon Consulting, a third party company that conducts concrete pipe tests against applicable Australian/New Zealand and British standards.

CP&P has manufactured many kilometres of concrete reinforced jacking pipe for projects in a variety of countries catering for sewer, stormwater, desalination and ocean outfall pipeline projects.

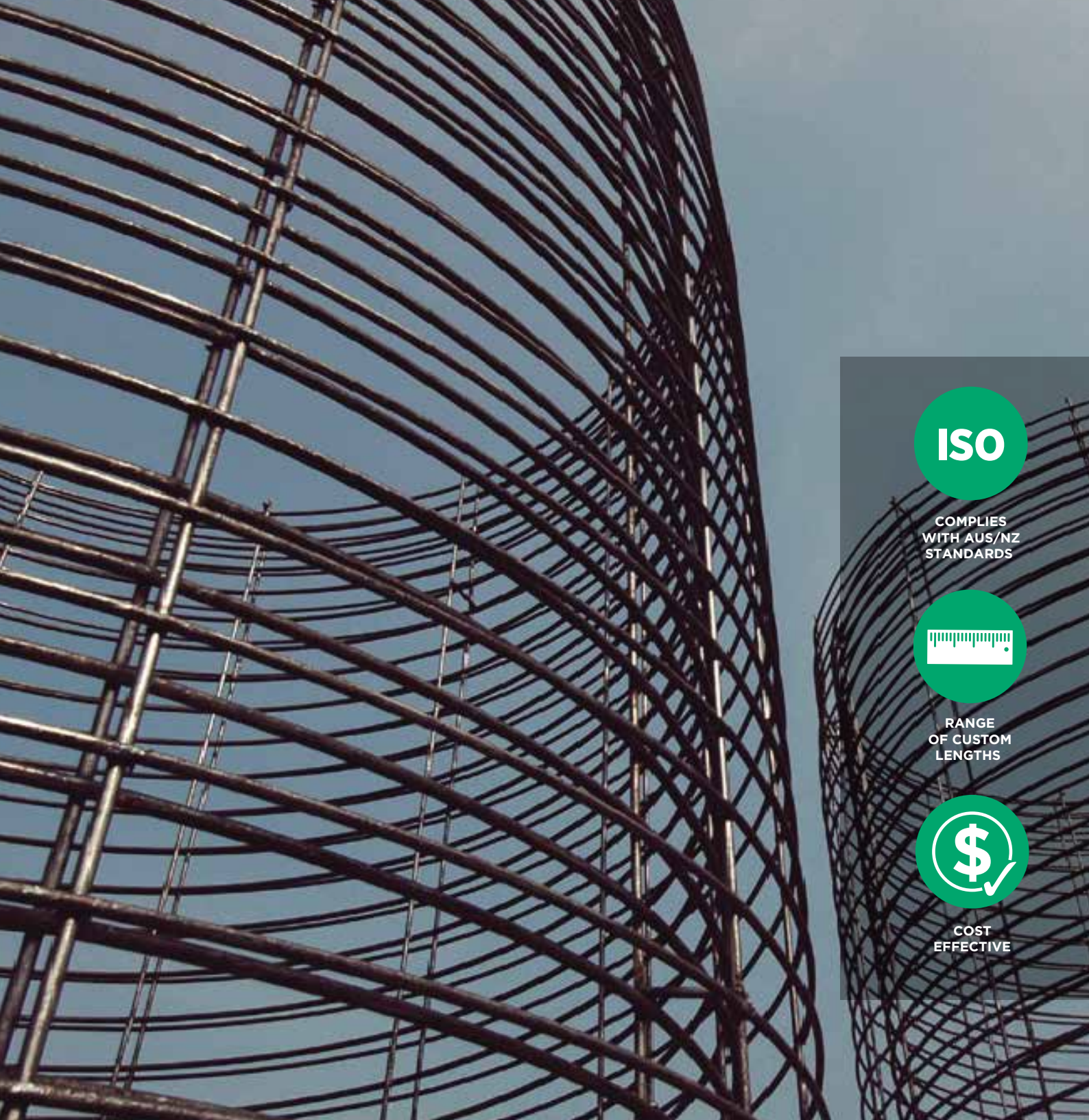
Q: Have your products been installed by any Water Authorities in Australia?

A: CP&P's concrete reinforced jacking pipes were supplied and installed for the following water projects within Australia;

1. Melbourne Water - Hallam Valley Main Sewer Project - MELBOURNE VIC Australia
2. Redirection of Heroes Avenue Project - Sewerage Pump Station - BRISBANE QLD Australia
3. Queensland Urban Utilities - Western Corridor Recycled Water Project - BRISBANE QLD Australia
4. Sydney Water - Sydney Desalination Project - SYDNEY NSW Australia
5. Melbourne Water - Sandgate drainage pipeline Project (Stage1) - MELBOURNE VIC Australia
6. Melbourne Water - Melbourne Sewer Upgrade Project - MELBOURNE VIC Australia

Currently supplying;

7. Sydney Water - Green Square Trunk Stormwater Project - SYDNEY NSW Australia
8. Queensland Urban Utilities - Fortrose St - Rising Sewer Mains Project - BRISBANE QLD Australia



ISO

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Steel-Reinforced Concrete Jacking Pipes are commonly used for stormwater, desalination, sewer and ocean outfall pipelines.

CP&P can source and affix any type or grade of steel to meet your project's specifications, and our reinforced concrete jacking pipes can be produced with a semi or full diameter HDPE liner.

We supply our jacking pipes with three types of metal collars;

- Mild steel
- Galvanised
- Stainless Steel

Standard sized reinforced concrete jacking pipes

Our standard reinforced concrete jacking pipes are available in a range of Inner Diameters (ID) 300mm – 2500mm and in Lengths of 2000mm to 3000mm.

Diameter Nominal (DN)	Inner Diameter (ID)	Outer Diameter (OD)	Lengths	Weight
300	300	459	2000	474
450	450	609	2000	600
500	500	656	2000	707
600	600	764	2000	878
800	800	1000	2000/3000	1413
1000	1000	1250	2500/3000	2750
1200	1200	1480	2500/3000	3690
1500	1500	1820	2500/3000	6230
1800	1800	2120	2500/3000	7425
2000	2000	2380	3000	9800
2250	2250	2690	3000	12800
2500	2500	3000	3000	16200

Customised options are available.



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**MINIMAL
ENVIRONMENTAL
IMPACT**



**FAST
INSTALLATION**

Features

- Variety of joint solutions
- Leading vertical vibration manufacturing process
- HDPE Linings
- High quality and strength Concrete
- Complies with Australian/New Zealand Standards -AS/NZ 4058:2007
- Range of custom lengths from 0.5meters to 3meters

Benefits

- Proven Performance
- Reliable
- Minimal impact to existing infrastructure and the environment
- Cost effective
- Fast Installation



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Steel-Reinforced Concrete Jacking Pipes Production Process

Our reinforced concrete jacking pipes are produced in a modern facility using a Variant (a large diameter vertical vibration pipe making machine). The Variant was engineered in Germany using the latest in German technology for the vertical vibration casting of reinforced concrete jacking pipes.

This pipe making machine works “underground” vibrations for compacting concrete and is generated by a central vibrator that is connected to the core via a hydraulic clamping device.

It is controlled by a Siemens memory programmable electronic control system, which is partially sequence automated

There are a number of key and special characteristic qualities that differentiate the “Variant” from other reinforced concrete jacking pipe machines;

- Powerful and reliable central vibrator
- Fast mould changes due to hydraulic clamping technology
- Highly versatile product range
- Highly compacted quality pipes regardless of product size
- Easy Handling and High Reliability

Pipes are inspected and quality tested as per Australian and New Zealand Standards guidelines.



CP&P Internal Testing Procedures

CP&P produce reinforced concrete jacking pipes for the Australian and New Zealand markets based on the standards outlined in the table overleaf;

Copies of all test reports are provided to our customers for each batch produced throughout the manufacturing process of our reinforced concrete jacking pipes.

Material

Description	Reference Standard	Sampling
Cement	AS 3972	Certificate
Aggregates	AS 2758.1	Sieve Analysis
Water	AS 1379	
Admixture	AS 1478.1	Certificate
Steel Reinforcement	AS 4671	Mill Certificate
Rubber Seals	BS EN 681.1	Certificate
Concrete Strength		Daily

Finished Product

Description	Reference Standard	Sampling
Crushing Load		
Proof Load	AS 4058:2007 Clause 4.2	5 pipes per batch
Ultimate Load	AS 4058:2007 Clause 4.3	Only if specified
Hydrostatic Pressure Test		
Watertightness (90kPa)	AS 4058:2007 Clause 4.4	5 pipes per batch
Concrete Cover to reinforcement		
Concrete Cover	AS 4058:2007 Clause 3.3.2	2 pipes per day (Random)
Flexible Joint Assembly		
- Flexible Joint Assembly	AS 4058:2007 Clause 4.7	1 pair each batch
Water Absorption Test	AS4058-2007 Clause 4.6	1 pipe per batch
Surface Evenness Surface Void	Equivalent to; AS4058-2007 Clause 3.4 BS 5911-1-2002 Clause 5.3.1 BS 5911-1-2002 Clause 5.3.2	Every Pipe Every Pipe

Geometrical Characteristics

Internal Diameter	AS4058-2007 Clause 3.3.3	Every Pipe
External Diameter	AS4058-2007 Clause 3.3.4	Every Pipe
Wall Thickness	AS4058-2007 Clause 3.3.5	Every Pipe
Internal barrel length	AS4058-2007 Clause 3.3.6	Every Pipe
Straightness	AS4058-2007 Clause 3.3.7	Every Pipe
Squareness of ends	AS4058-2007 Clause 3.3.8	Every Pipe



Projects

CP&P has produced reinforced concrete jacking pipes for a variety of projects. These include sewer, stormwater, desalination and ocean outfall projects.

Some of our projects are detailed below;

Project Name	Country	Pipe Size	Total Length (m)	Contractor
JOCASP Relocation Project	Philippines	DN1500	550	McConnell Dowell Philippines Inc.
Hallam Valley Main Sewer	Melbourne, Australia	DN900 DN1200 DN1500	10000	GWC Group Pty Ltd
Redirection of Heroes Avenue - Sewerage Pump Station	Brisbane, Australia	DN1200	690	McConnell Dowell Philippines Inc.
Tahuna Ocean Outfall	Dunedin, New Zealand	DN1500	520	McConnell Dowell Philippines Inc.
Oil India	Kalkatta, India	DN1200	2400	Ludwig Pfeiffer \ Gypsum Structural India Pvt. Ltd.
Christchurch Ocean Outfall	Christchurch, New Zealand	DN1800	2400	McConnell Dowell Philippines Inc.
Western Corridor Recycled Water	Brisbane, Australia	DN1500	340	Transfields Services (Aust.) Pty Ltd. AJ Lucas Operation Pty Ltd.
Sewer Pipeline Kalkatta, India		DN800	450	Krita Engineering
Sydney Desalination Project	Sydney, Australia	DN2100	6200	Water Delivery Alliance
Kewdale Terminal Project	Perth, Australia	DN1500	270	Georgiou Group Pty Ltd.
Sandgate Stage1 Project	Melbourne, Australia	DN2500	1500	Winslow
Melbourne Sewer Upgrade Project	Melbourne, Australia	DN2000	39	John Holland
Green Square Trunk Stormwater	Sydney, Australia	DN1800	3452.5	DG Alliance - Rob Carr
Fortrose St Main Rising Sewer	Brisbane, Australia	DN1500	558	Rob Carr



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