

## Vertical Dry Cast Concrete Pipe (RCP)

**Vertical Dry Cast Concrete Pipe** has recently been embraced by Australia and we join the remainder of the world in using this technology to create high durability, cost effective concrete pipe. Tasmania now has access to this new pipe technology thanks to a considerable investment by Hudson Civil. We have installed a modern Schlosser Pfeiffer Dry Cast machine and are producing pipe from 300mm right up to 1600mm on this one machine. We will over time be exiting the spun pipe method of production and all pipes will be eventually cast in this manner.



The Variant pipe making machine combines the outstanding compacting qualities of Schlosser Pfeiffer's propriety vibration technology with a wide range of sizes.

Machine construction follows stringent quality control guidelines ensuring all equipment used in the manufacture of pipe is of the highest quality.

## Vertical Drycast Concrete - Key Facts:

V.D.C. or Vertical Concrete Pipe is the most advanced process in the world today resulting in:

- Highest quality design
- Best performance
- Dense concrete created from a modern production process
- Greater overall durability
- Greater collar durability
- Less damage from site handling

**Additional benefits from modern pipe casting include:**

- Jacking Pipes
- PVC or PE Lined pipes



## Vertical Dry Cast Concrete Pipe (RCP)

	Internal Dia (mm)	Effective Length (m)	Overall Length (m)	OD Pipe (mm)	OD Collar (mm)	Avg wall thickness (mm)	Lifting anchor position 1	Lifting anchor position 2	Mass (kg)	Nominal Joint Gap (mm)
300	300	2.5	2.6	406	530	53			414	5
375	375	2.5	2.6	489	645	57			568	5
450	450	2.5	2.6	576	715	63	780	1980	720	5
525	525	2.5	2.61	671	800	73	770	1970	960	5
600	600	2.5	2.61	756	910	78	770	1970	1166	5
750	750	2.5	2.61	916	1100	83	800	2000	1544	5
900	900	2.5	2.62	1086	1280	93	790	1990	2070	5
1050	1050	2.5	2.62	1266	1380	108	750	1950	2590	5
1200	1200	2.5	2.62	1446	1676	123	790	1990	3730	5
1350	1350	2.5	2.62	1626	1800	138	760	1960	4480	5
1600	1600	2.5	2.62	1926	2050	163	740	1940	6060	5

PLEASE NOTE THAT DUE TO OPERATIONAL ISSUES CHANGES MAY BE MADE WITHOUT NOTICE

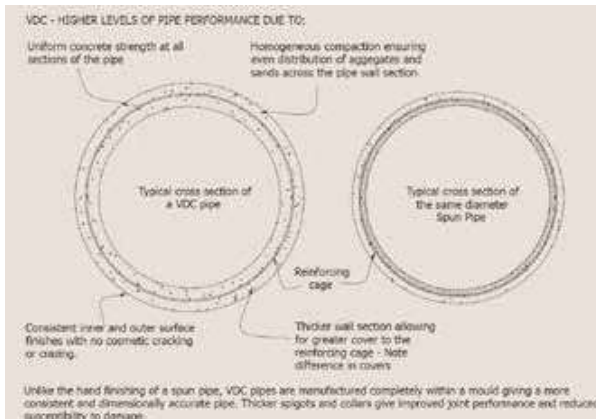


## MBK Cage Technology

Hudson Civil has invested in an MBK Cage Machine to enhance the offering of our concrete pipe. This is the most modern machine in the world right now and accepted as the world's best cage machine.

### Advantages of Vertical Pipe production

- True 100 year design life
- Consistent wall thickness
- Even distribution of aggregates throughout the pipe cross section
- Tighter tolerances due to inner and outer moulding process
- Thicker walls generating larger cover to reinforcing
- Thicker spigots and collars leading to less damage on site and during installation
- OHS improvements with 'Swift lift' pins installed on all pipes above 450mm Dia



## Safe installation and handling of concrete pipe

- At all times, lifting devices are to be tested, tagged & appropriate for the task. A soft sling or chain may be used to pick up the pipe.
- It is important that the bedding is prepared correctly. After the levelling of the bedding material, a small amount is removed for where the sling/chain will be positioned along with where the collar on RRJ pipes will be located. Failure to allow room for the sling/chain will make it difficult to remove and the pipe will move & rotate when the sling/chain is pulled out requiring realignment to the laser. If the collar is not housed in the bedding then the pipe may bridge between collars and will not be supported by the bedding. This may crack the pipe and result in unwanted settlement of the trench backfill.
- The sling / chain should be located in the center of the pipe so it hangs level. It will make laying difficult if this is not the case.
- Place the rubber ring in the groove on the spigot. It should be stretched evenly around the pipe.
- Lower the pipe to meet the socket ensuring the pipe is level with the previous pipe with some weight still being taken by the sling / chain. When the pipe is flush to the socket, use a piece of timber and crow bar to push the pipe home.
- Lower the remainder of the way down and align to the laser light.
- Hold on to the pipe and remove the sling / chain.
- Check to make sure the pipe hasn't moved.
- A small amount of back fill should be placed on the pipe to prevent movement when pushing home future pipes if possible.