



Press Release

HERRENKNECHT Speedy pipeline connection in Australia

July 5, 2016

Anglesea, Australia

In just three months Australian drilling contractor Dunstans Construction Group installed a 700-meter-long pipeline in Anglesea (Victoria). A 250 tonne HDD Rig from Herrenknecht played a key role in the achievement. Within a very short time the construction crew built a sea outfall with the machine, as well as pulling in the pipeline all the way back to the local water treatment plant.

_____ In August 2015, a large cliff segment collapsed in the Australian state of Victoria, resulting in an acute need for action. Falling rocks massively impaired the sea outfall pipe of the local water treatment plant on the Bass Strait coast. The affected sewage pipe had to be replaced as quickly as possible to ensure stable wastewater disposal. The targeted timescale for the operation was tight: completion of the new infrastructure in 3 months, i.e. by Christmas.

The protection of nearby Point Addis Marine National Park played an additional role in the installation of the new pipeline using the sea outfall method. To meet the strict environmental protection requirements, the Australian drilling contractor counted on technology from Germany that had also proven itself in this regard. Dunstans ordered a Herrenknecht HK250C HDD Rig, a technology that had previously demonstrated its effectiveness in sensitive environments on numerous occasions.

For the installation of the polyethylene (HDPE) pipeline with an outer diameter of 355 mm (14 inches) the crew first drilled a pilot hole from the treatment plant to the coast and under the sea. Then, the borehole was reamed from the land side. After completion of the borehole Dunstans overcame another hurdle presented by the project: transporting the 700 m long product pipe by sea past Port Philip Bay, one of the busiest ports in Australia. Regular shipping was not obstructed by the exceptionally long cargo.

Herrenknecht AG
Schlehenweg 2
77963 Schwanau

Corporate Communications
Tel. +49 7824 302-5400
pr@herrenknecht.de

www.herrenknecht.com



To complete the installation Dunstans pulled the pipeline floating on the sea through the predrilled alignment all the way back to the treatment plant. Thanks to the 250 tonne pulling force of the HDD Rig this task was carried out quickly and cleanly. With the connection of the pipeline to the treatment plant completed before Christmas, Anglesea was ready for the tourism high season in summer.

Anglesea Outfall Replacement

MACHINE DATA

Machine type: HK250C HDD Rig

› Pulling force: 250 t

› Torque: 90 kNm

PROJECT DATA

Borehole length: 700 m

Product pipe outer diameter: 355 mm

Product pipe material: HDPE

Application: Sewage

Geology: Mudstone

Customer: Dunstans Construction Group

Client: Barwon Water

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Photos

Speedy pipeline connection in Australia



Photo 1

With the help of an HDD Rig from Herrenknecht, in Anglesea in Victoria (Australia), a 700-meter-long pipeline was installed under the sea using the sea outfall method. The existing pipeline had previously been destroyed by the collapse of a cliff.



Photo 2

A crawler-based Herrenknecht HK250C HDD Rig was used to successfully complete the project under great time pressure. The newly installed pipeline with a diameter of 355 mm and a length of 700 m was put into service only three months after the project began.

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For further information: Please contact us.

Herrenknecht AG

Herrenknecht is the only company worldwide to deliver tunnel boring machines for all geologies and in all diameters – ranging from 0.10 to 19 meters. The product range comprises tailor-made machines for traffic, supply and disposal tunnels, technologies for pipeline installation as well as additional equipment and service packages. Herrenknecht also manufactures drilling rigs for vertical and inclined shafts as well as deep drilling rigs. In 2015 the Herrenknecht Group achieved total revenues of 1.343 billion euros. The Herrenknecht Group employs around 5,000 people worldwide, including 160 trainees. With 76 domestic and overseas subsidiaries and associated companies working in related fields, Herrenknecht provides comprehensive services close to each project and customer.

› <http://www.herrenknecht.com/en/references>

Your contact:

Achim Kühn

Head of Corporate Communications, Branding und Public Affairs

Phone +49 7824 302 -5400

Fax +49 (0)7824 302-4730

pr@herrenknecht.de

Herrenknecht AG
Schlehenweg 2
77963 Schwanau

Corporate Communications
Tel. +49 7824 302-5400
pr@herrenknecht.de

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