



HERRENKNECHT Press Information.

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HERRENKNECHT OPENS SERVICE BRANCH IN ABU DHABI.

Herrenknecht AG responds to the high demand for micromachines and comprehensive services in the Gulf region by opening a full-service branch in Abu Dhabi in November 2012. The new company, Herrenknecht Tunnelling Systems LLC, offers top level machine overhauls, Field Service and supply of spare parts.

Schwanau, Germany, 11. January 2013. "The Arab market provides for enormous future potentials - this is the reason why we have now established a full-service branch for micromachines in Abu Dhabi", said Ulrich Schaffhauser, head of management of the Business Unit Utility Tunnelling on the occasion of the opening. The branch is run by general manager Swen Weiner who has been representing the Utility Tunnelling business ($\varnothing \leq 4.20\text{m}$) of the Herrenknecht Group in the Middle East for eight years. Since the 1990s, Herrenknecht AG has delivered more than 200 micromachines to the Gulf region. With the new location, Herrenknecht AG is aiming to further develop its business relationships there. "Tunnel construction in the Gulf region is facing dynamic times and we want to offer our customers top services", explained Ulrich Schaffhauser. Against this backdrop, Herrenknecht Tunnelling Systems LLC will mainly focus on overhaul micromachines in the Abu Dhabi workshops. In addition, Herrenknecht experts will provide for spare parts supply and service on the jobsites. The Business Unit Utility Tunneling at Herrenknecht offers machines for tunnel, shaft and pipeline construction in the areas of water, sewage, electricity, oil and gas. In addition, the Herrenknecht Group founded the company Commodore Cement Industries LLC (CCI) together with Commodore Contracting Company of Abu Dhabi. This means that Herrenknecht holds a participation in a concrete component factory specialized in lining segments and pipe segments for tunnel projects, which was built in Abu Dhabi's Al-Mafraq industrial zone in 2010.

14 machines for the Strategic Tunnel Enhancement Program

Comprehensive infrastructural works are planned and being realized in Abu Dhabi to support the growth of the city's population from 621,000 inhabitants in 2012, to over 3 million by the year 2030. At the heart of these measures is Abu Dhabi's Strategic Tunnel Enhancement Program, or STEP for short. It is one of the most comprehensive infrastructure programs ever carried out in the Gulf region. Client of the STEP project is the Abu Dhabi Sewerage Services Company (ADSSC), that aims to restructure the city's sewage network by building extensive tunnel networks. New supply networks, the Link Tunnels, will connect the existing sewage system with the new main collector, the so-called Deep Tunnel sewer. This tunnel runs from Abu Dhabi's city center to a newly planned water treatment facility in the municipality of Al-Wathba, 42km to the southeast of the city, closing the desert city's sewage circuit and supplying up to 15m³/s of treated water for irrigation.

The Herrenknecht Group is involved in the project with a total of 14 tunnel boring machines for the Link Tunnels and the Deep Tunnel sewer. Herrenknecht AG delivered 5 EPB machines with large diameters (3 x 6.31m, 2 x 6.95m) to Impregilo SpA, the contractor for the construction lots T-02 and T-03 of the Deep Tunnel sewer. These machines excavated tunnels with an overall length of 25 kilometers at depths of down to 80 meters. Last breakthrough was reached on December 18, 2012. From January 2013 onwards, 9 Herrenknecht Micromachines (8 x AVN, diameter 0.96m – 3.37m and 1 x EPB, diameter 3.72m) will be employed at the almost 50 kilometer long Link Tunnels. Commodore Cement Industries LLC has produced more than 100,000 lining segments for the Deep Tunnel. Herrenknecht Formwork Technology GmbH planned the entire lining segment production plant, commissioned the plant and delivered 162 moulds, the Herrenknecht subsidiary VMT GmbH provided a data recording and documentation system (SDS) for lining segment production.

Herrenknecht AG

As the only company worldwide, Herrenknecht AG delivers tunnel boring machines for all ground conditions and in all diameters – ranging from 0.10 to 19 meters. The Herrenknecht product range includes tailor-made machines for transport tunnels, supply and disposal tunnels and additional equipment and service packages. Furthermore, Herrenknecht manufactures drilling rigs for vertical and sloping shafts as well as deep drilling rigs. In the year 2011, the Herrenknecht Group achieved a total operating performance of 1,104 million euros. Since the formation of the company in 1977, Herrenknecht machines have excavated a total of 1,900 kilometers of tunnels in the large diameter range of more than 4.20 meters. Around 850 Herrenknecht Utility Tunnelling Machines are in operation around the world constructing or installing water and wastewater systems, gas and oil pipelines, as well as conduits for electricity, the Internet and telephone lines. The Herrenknecht Group employs around 4,000 members of staff worldwide and is training more than 240 young people. With 77 subsidiaries and associated companies working in related fields in Germany and abroad, Herrenknecht provides a comprehensive range of services close to the respective project and customer.