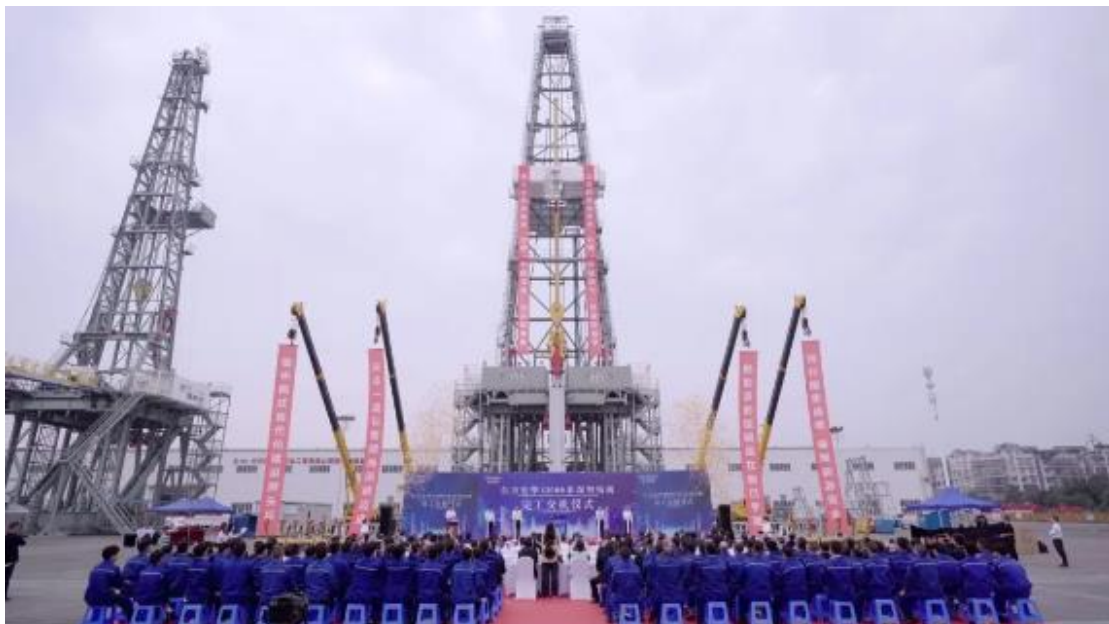


12000–Meter Ultra–Deep Smart Rig

Handover Successfully

On October 16th, the handover ceremony of China's first 12,000 meters ultra-deep smart drilling rig was successfully held in Guanghan, Deyang. This rig will make significant contributions in the Xinjiang region, and is capable of automatic operation at depths of 12,000 meters and further. It is another powerful tool provided by Dongfang Honghua for ultra-deep oil and gas development following the 10,000 ultra-deep scientific drilling rig Crust 1.





Feng Yong, Secretary of the Board of Directors and Chief Auditor of Dongfang Electric Group, Liu Qingyou, Secretary of the Party Committee of Chengdu University of Technology, Wei Yanguang, Deputy Secretary of the Party Committee of the Chinese Academy of Geological Sciences, Zhou Jie, Vice Mayor of Deyang City, Yang Xiao, Deputy Mayor of Guanghan City, the representatives from the Chinese Academy of Geological Sciences, the Sichuan Provincial Department of Economics and Information Technology, Jilin University, Southwest Petroleum University, Yangtze University, Inner Mongolia University, Sinopec and PetroChina related subsidiaries, owner units and other enterprises witnessed the handover on site.

Supporting global energy supply



Ultra-deep exploration and development technology is extremely difficult. Dongfang Honghua has innovatively used automation and intelligent drilling technology to successfully develop a 12,000-meter-deep smart drilling rig, which has greatly improved the efficiency and safety of ultra-deep oil and gas production and will effectively promote local and even global development. The ultra-depth development of oil and gas resources provides strong technical support and production capacity guarantee for the stable supply of the global energy market.

Challenge the Limitation of Depths



This rig holds super load-bearing capacity, with the hook load capacity of up to 1000 tons, which far exceeds the industry standard of 900 tons. Such hook load capacity can achieve operations at maximum depths of 13,000 meters, which is equivalent to lifting two fully loaded Boeing 747 airplanes or raising 1368 drill strings simultaneously.

Experience in New Smart Operation



The 12,000-meter-deep smart drilling rig has achieved breakthroughs in key technologies such as Rapid Tripping System for 10000-meter drill pipe, equipped with the Honghua's most advanced 3200HP five cylinder pump with pump health check function which is capable of delivering high pressure and large displacement. It also features the top-notch UNISON2.0 Rig Control System which achieves exceptional digital drilling, integrates of an advanced visual recognition system which enhances the intelligent perception capability. Such technologies enable the rig to achieve automatic operation in ground, platform and high position and to safe and automatic drilling.

Self-developed Core Components



All core components and control system of the rig are self-developed by Dongfang Hong Hua, which truly achieves whole self-developing for rig and demonstrates Dongfang Honghua's comprehensive and systematic excellence in the high-end manufacturing field. Dongfang Honghua is committed to developing new types of productivity, leading the way in national deep-earth engineering equipment and petroleum equipment fields. Dongfang Honghua is committed to developing new quality productive forces, bravely leading the way in the fields of national deep-earth engineer equipment and petroleum equipment.

Dongfang Honghua is committed to the goal of deep earth drilling, strives to achieve intelligent and efficient drilling, and always adheres to high and even higher quality. In the future, Dongfang Honghua will continue to deeply cultivate the field of deep-earth drilling, constantly keep moving forward to the deep earth with intelligence, and makes greater contributions to ensuring national energy security.