



HIGH-PERFORMANCE DOWNHOLE MOTORS



www.sg-df.com

**WE FIND SOLUTIONS—
OUR HIGH-PERFORMANCE
DOWNHOLE MOTORS LAST
UP TO 1000 HOURS**

INTRODUCTION

WE FIND SOLUTIONS

Our affiliated companies and we have considerable experience in tough directional drilling operations in difficult areas. We successfully started our drilling business in the extremely demanding Sichuan Basin, a volcanic area with extremely deep reservoirs and the Chinese Shale Gas Area No. 1.

The group of companies to which we belong manufactures drill bits and downhole pumps. These partnerships and the knowledge of the market they provide yield valuable knowledge that we apply directly to our motor design and manufacturing processes.

Our advanced German technology, along with manufacturing and sales offices in China, combines technical excellence with rapid reaction times and reasonable prices.

As a small and lean company, we produce customized drilling motors. Close communication with our drilling engineers and customer experts means we provide you excellent support through your entire project, from bid and offer to project conclusion.

Our employees have different cultural backgrounds and an understanding of the market from an international perspective. They have been experts in the industry for many years and are dedicated to always finding the best solution for you.



Michael Robby

Vice President

Combine the Best



OUR COMPANY



We are a Sino-German joint venture and expert for the oil and gas industry offering high-performance, long-lasting downhole motors featuring an advanced rubber compound. This achievement is a result of our employees, who have worked in the industry for many years.

Reputable clients trust us because we combine German quality engineering with competitive prices and extensive customer care.

Facts and Figures

- Capacity of 1800 motors per year
- Over 20 years of international drilling experience
- R&D department staffed with over 10 engineers
- International supply chain for key components
- Production located in Chengdu, China with over 100 employees

YOUR ADVANTAGE



German Technology

- Rubber compounds with original raw materials
- Produced on state-of-the-art machines with continuous quality assurance
- Advanced formulations for challenging tasks
- State-of-the-art rubber injection



High Performance

- Stators and rotors designed based on mathematical principles
- Improvement of the dynamic behaviour of the power section
- Material specifications higher than standard
- Usage of up to 1000 hours



High Flexibility

- Excellent supply chain management
- Efficient, motivated design department
- Customer-oriented thinking and broad experience for universal parts like rotors and stators



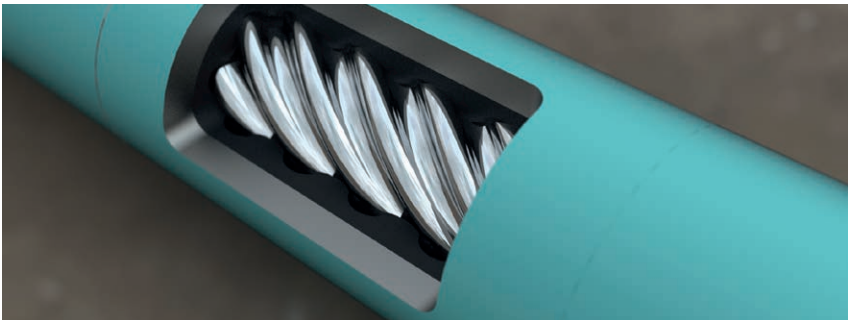
**GERMAN TECHNOLOGY
IN COMBINATION WITH A
PRODUCTION AND SALES
OFFICE IN CHINA**

WE APPLY GERMAN DESIGN AND TECHNOLOGY TO OUR ULTRA-PRECISE CONTURE MILLING OF STATOR CORES AND ROTORS

OUR KEY TECHNOLOGY

We perform elastomer development and manufacturing in cooperation with academic and scientific institutes in Europe for advanced solutions.

Our supply chain of steel manufacturers with excellent national and international reputations allows us to bring highly durable motors to market. Our careful selection of special material grades for our motors provides the needed performance.



Power Sections

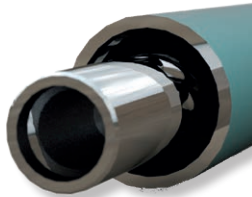
The perfect fit and long life of our elastomers make the difference in performance. We apply our deep knowledge of physics directly to the product for results our customers rely on every day.

CHARACTERISTICS OF THE POWER SECTION



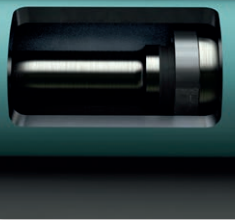
High Torque

At least 30 to 50% more torque than ordinary downhole motors.



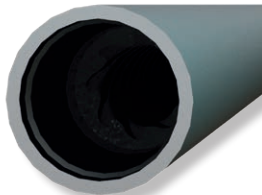
Long Lifetime

At least 50 to 100% improved performance compared to that of ordinary downhole motors owing to five-axis milling machines for rotors and stators.



Suitable for High Temperatures

Up to 175°C in harsh conditions.

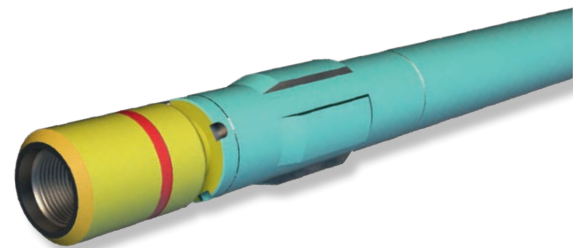


Applicable In OBM

Diesel, crude oil, technical white oil. Suitable for circulation.

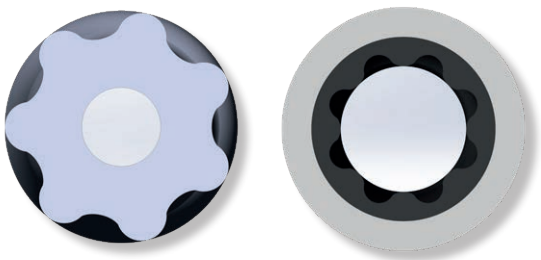
PRODUCTS

We offer you a wide range of products with various technical specifications for every application, including custom requirements.



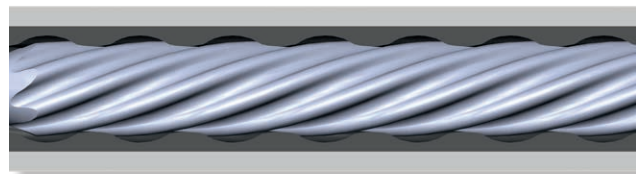
Drilling Motors

Our motors are provided in different configurations for specific needs.



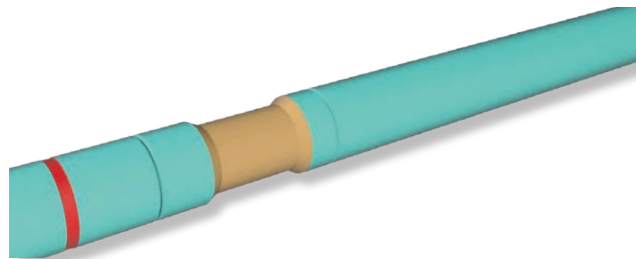
Rotors and Stators

We provide the universal parts of rotors and stators in different lengths and sizes.



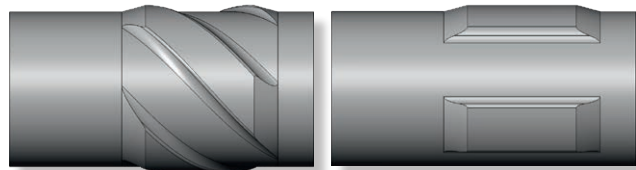
Power Section

The heart of our motors, power sections are available in many configurations. Ours are suitable for water-based muds (WBMs), oil-based muds (OBMs), agitators, and other applications.



Shock Tool system

The SGDF Shock Tool System can reduce friction and dramatically improve weight transfer by producing gentle oscillation, thus improving the quality of the wellbore in less complex applications. The SGDF Shock Tool System increases the drilling efficiency of any drilling system in which friction is an issue.



Centering Elements

Centering elements are available in any design and configuration.

BEST PERFORMANCE IN
HARSH ENVIRONMENTS AND
SEVERE DRILLING CONDITIONS

WE ARE YOUR PARTNER FOR YOUR SUCCESS

We understand the essential need to provide the best and fastest solution for our clients.

We achieve the best possible results given your budget and timeframe because we offer:

- Reliable support from the bid to the end of the project.
- Short reaction times and fast support, even with a tight schedule.
- A strong commitment to finding a solution for you at a reasonable price.

**Our motto: “We always find solutions”—
even in extreme situations and challenging conditions**

High-Torque Demanding Drilling Jobs

Tough, challenging jobs are no match for our rugged motors.

Our motors are specially built for directional drilling under extreme situations in volcanic terrain, under high temperatures, and when extreme torque is demanded.

Cost Reduction

Reducing costs is important to everyone. That is why we offer long-life motors and an extended lifetime of all motor components.

Our proven track record of high-performance motors means higher efficiency and lower costs of drilling for you.

Outstanding Performance

Our motors run more hours without maintenance.



300 hrs
Ø172 mm
OBM



350 hrs
Ø172 mm
WBM



500 hrs
Ø244 mm
WBM

Our case studies

Case Study: Shale Gas

In the Jiaoshi Shale Gas District, the operator successfully drilled the entire 3,675-foot interval in a single run with an ROP of 32.7 ft/h.

- FTG: 3,675 ft
- Total hours: 113 h
- ROP: 32.7 ft/h
- Single run

Result after inspection

- No any damages
- 37% increase in ROP compared with the off-set run
- Reduced 9.3 days and saved up to 50,000 USD

Case Study: Hard and Plastic Formation

Xijh District, alternating between abrasive hard and plastic soft formation, is a major challenge for both motor and bits.

- FTG: 7,766 ft
- Total hours: 388 h
- ROP: 20 ft/h

Result after Inspection:

- No any damages
- 53% increase in drilling footage
- 35% increase in ROP compared with offset runs



**WE COMBINE TECHNICAL
EXCELLENCE WITH QUICK
REACTION TIME AND
REASONABLE PRICES**



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