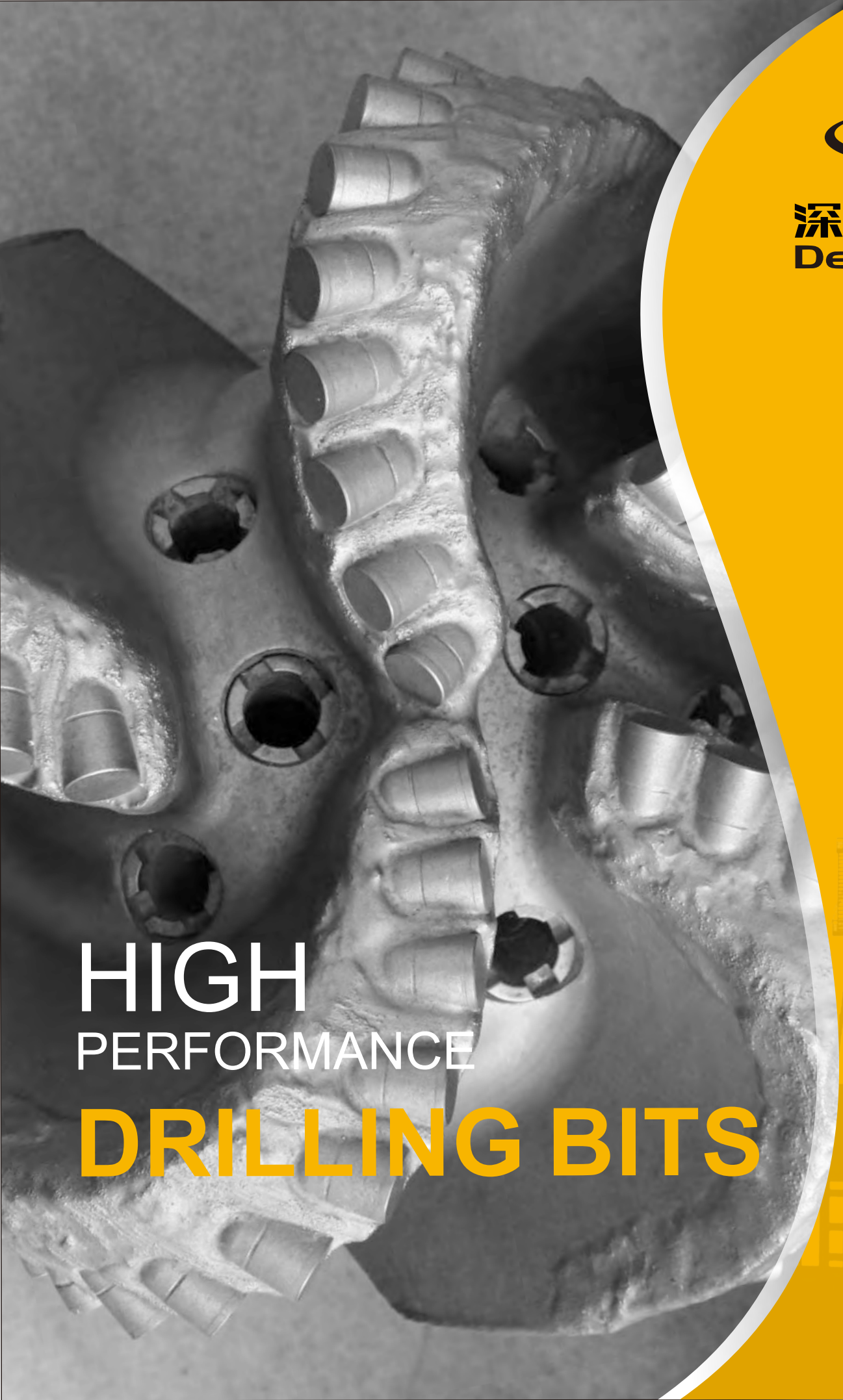


深远石油
DeepFast

HIGH PERFORMANCE DRILLING BITS

DEEPFAST

DEEP INTO THE EAERH
ALL OVER THE WORLD

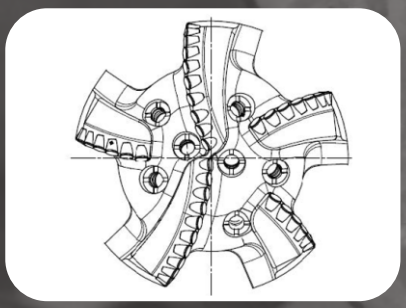
ABOUT US

DeepFast is one of the best suppliers of oil drilling products and services in China.DeepFast Oil Drilling Tools Co. Ltd. specializes in the diamond drill bits of various types and sizes ranging from 3 inch to 26 inch and other drilling tools. With Japan 5-axis NCPC and Germany Modern lathe, DeepFast produces annually 8000 diamond bits and 2000 downhole motor. Though long-term cooperating with Southwest Petroleum University, our company researches and develops rock breaking in hard formation by bit test bench. Till now, it gets 47 patents that includes 2 American patents, 2 Russian patents, 43 Chinese patents. Our company focuses on quality by advanced technology and high-efficiency management. Our products pass the ISO 9001-2015 (ISO 9001:2015), ISO 14001-2015, OHSAS 18001:2007, API Spec 7-1.). We provide oil drilling tools and related services to customers in North America, South America, Russia, Ukraine, Central Asia, and Southeast Asia. Our mission, “Solution to speed up oil drilling”.

CERTIFICATES

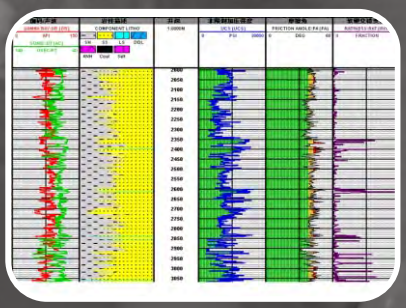
DRILLING BITS

01



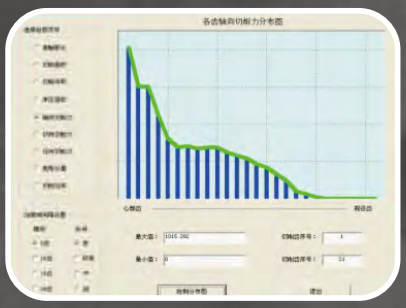
Bit Design Analysis

02



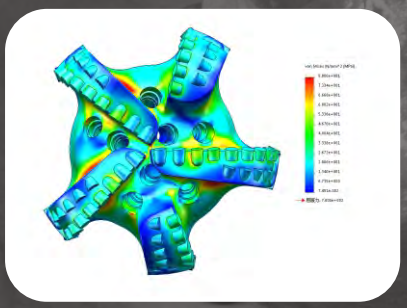
Formation Analysis

03



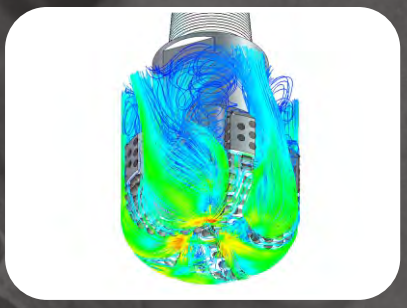
Mechanical Property Analysis

04



Blade Strength Analysis

05



Hydraulic Analysis

Formations	Clay, sand, uncemented sandstone, clayey siltstone	Claystone, siltstone, sandstone, loose limestone, rock salt	Laminated mudstone, siltstone, limestone, marl, dolomite, sandstone	Limestone, dolomite, marl, siltstone, sandstone	Limestone, dolomite, marl, sandstone
Hardness	S	SM	M	MH	H
4-blades					
5-blades					
6-blades					
8-blades					
9-blades					

Basic design bit application area

Extended bit application area by means of “T” option Extended bit

application area by means of “y” option

Matrix Bits are optimal solution for well drilling where use of ordinary steel bits lead to their rapid erosive wear.

Manufacturing a matrix bit body from a composite material based on tungsten carbide allows bits to drill in high abrasive formations using weighted drilling mud.

Specially selected material compositions provide high reliability and durability for continuous bit runs. Improved designing and manufacturing technologies make it possible to produce a wide range of drilling tools.

Matrix tools can be multiply subjected to restoration. This feature allows increasing life-time of tools and achieve higher rates.

PRODUCT NAME

COMPOSITION

PDC Bit

Cutter Size

08	8mm Main Cutter
13	13mm Main Cutter
16	16mm Main Cutter
19	19mm Main Cutter

Suffix Code

B	Back-up Cutter
D	Directional Drill
I	Impregnate Cutter
K	Wear Knot
L	Long Gauge
M	Mixed Main Cutter
RS	Rotary Steerable
U	Up Drill Cu tter

Bit Size: 3"~26"

8-1/2" DFS 16 05 BU

DF	Matrix Body PDC Drill Bit
DFS	Steel Body PDC Drill Bit

Blade Count 03-16

Core Bit

Cutter Size

08	8 mm Main Cutter
13	13mm Main Cutter
16	16mm Main Cutter
19	19mm Main Cutter

OD of The Bit

8-1/2"x4" DFC 13 12

ID of The Bit

Blade Count 03-16

DFC	Matrix Body PDC Core Bit
DMC	Micro Core Bit
DNC	Natural Diamond Core Bit
DPC	Thermal Stable Polycrystalline Core Bit
DIC	Impregnate Core Bit

Bi-center Bit

DFB	Matrix Body PDC Bicenter Drill Bit
DFSB	Steel Body PDC Bicenter Drill Bit
DFR	Matrix Body PDC Ream Drill Bit
DFSR	Steel Body PDC Ream Drill Bit

Suffix Code

B	Back-up Cutter
D	Directional Drill
I	Impregnate Cutter
K	Wear Knot
L	Long Gauge
M	Mixed Main Cutter
RS	Rotary Steerable
U	Up Drill Cutter

Pass Size

Blade Count 03-16

5-7/8"x4" DFB 16 05 BU

Ream Size

Cutter Size

08	8mm Main Cutter
13	13mm Main Cutter
16	16mm Main Cutter
19	19mm Main Cutter

Special Bit

Bit Size: 3"~26"

8-1/2" DI 281

DI	Impregnate Drill Bit
DH	Hybird Drill Bit
DN	Natural Diamond Drill Bit
DP	Thermal Stable Polyc rystalline Drill Bit
DA	Matrix Body Array PDC Drill Bit
DAS	Steel Body Array PDC Drill Bit

DRILLING BITS

Owned formula of matrix powder to ensure bit strength and stability

Increased wear and impact resistance cutter

Shaped gauge protection to improve gauge strength

Unchangeable nozzles for better cutter and blade cleaning

Gauge protected by tungsten carbide inserts with impregnated diamonds

An additional back-up PDC cutter located behind the face PDC Cutter

Back-reaming PDC cutters on gauge back taper

DF1305

IADC:M233

Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	6"	8-1/2"	9-1/2"	12-1/4"
Number of Blade	5	5	5	5
Main Cutter Size	1/2"(13 mm)	1/2"(13 mm)	1/2"(13 mm)	1/2"(13 mm)
Main Cutter Qty	23~25	34~39	41~46	49~56
Gauge Length	1.5"(38.1 mm)	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	5MSP	5SP	7SP	7SP
Junk Slot Area	8.2in2 (52.9cm^2)	18.4in2 (118.7cm^2)	25.4in2 (163.9cm^2)	48.1in2 (310cm^2)
Make-up Length	10.5"(266.7mm)	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	3-1/2" Reg.	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DF1306

IADC:M333

Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	6"	8-1/2"	9-1/2"	12-1/4"
Number of Blade	6	6	6	6
Main Cutter Size	1/2"(13 mm)	1/2"(13 mm)	1/2"(13 mm)	1/2"(13 mm)
Main Cutter Qty	29~31	41~46	46~52	59~65
Gauge Length	1.5"(38.1 mm)	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	5MSP	6SP	7SP	9SP
Junk Slot Area	6.8in2 (43.9cm^2)	15.9in2 (102.6cm^2)	18.4in2 (118.7cm^2)	42.0in2 (271cm^2)
Make-up Length	10.5"(266.7mm)	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	3-1/2" Reg.	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DRILLING BITS

DF1307

IADC:~~M333~~

Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	6“	8-1/2"	9-1/2"	12-1/4"
Number of Blade	7	7	7	7
Main Cutter Size	1/2"(13 mm)	1/2"(13 mm)	1/2"(13 mm)	1/2"(13 mm)
Main Cutter Qty	32~34	45~50	55~60	62~70
Gauge Length	1.5"(38.1 mm)	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	3MSP+2F	7SP+F	3SP+4MSP	9SP
Junk Slot Area	5.8in2 (52.9cm^2)	14.60in2 (94.2cm^2)	16.5in2 (106.5cm^2)	36.0in2 (232.3cm^2)
Make-up Length	10.5"(266.7mm)	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	3-1/2" Reg.	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DF1308

IADC:~~M433~~

Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"
Number of Blade	8	8	8
Main Cutter Size	1/2"(13 mm)	1/2"(13 mm)	1/2"(13 mm)
Main Cutter Qty	55~57	62~68	78~85
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	7SP	7SP
Junk Slot Area	10.3in2 (66.5cm^2)	12.0in2 (77.4cm^2)	25.9in2 (190.3cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DF1604BU

IADC:~~M223~~

Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"
Number of Blade	4	4	4
Main Cutter Size	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)
Main Cutter Qty	22~28	29~35	36~42
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	6SP	6SP
Junk Slot Area	23.0in2 (148.4cm^2)	31.0in2 (200cm^2)	55in2 (354.8cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DFS1604BU

IADC:~~S223~~

Type
Steel body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"
Number of Blade	4	4	4
Main Cutter Size	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)
Main Cutter Qty	22~28	29~35	36~42
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	6SP	6SP
Junk Slot Area	23.0in2 (148.4cm^2)	31.0in2 (200cm^2)	55in2 (354.8cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DF1605BU

IADC:~~M223~~

Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"
Number of Blade	5	5	5
Main Cutter Size	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)
Main Cutter Qty	29~34	37~43	41~46
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	2.5"(63.5 mm)
Nozzle Qty(type)	6SP	7SP	7SP
Junk Slot Area	18.4in2 (118.7cm^2)	25.4in2 (163.9cm^2)	48.1in2 (310cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.3"(363.2mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DFS1605BU

IADC:~~S223~~

Type
Steel body

12-1/4"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"	17-1/2"
Number of Blade	5	5	5	5
Main Cutter Size	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)
Main Cutter Qty	29~34	37~43	46~53	65~75
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	7SP	8SP	9SP
Junk Slot Area	18.4in2 (118.7cm^2)	25.4in2 (163.9cm^2)	48.1in2 (310cm^2)	100.9in2 (651cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)	20.3"(515.6mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.	7-5/8" Reg.

DF1606BU

IADC:~~M323~~

Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"
Number of Blade	6	6	6
Main Cutter Size	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)
Main Cutter Qty	34~39	43~50	52~59
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	7SP	8SP
Junk Slot Area	15.9in2 (102.6cm^2)	18.4in2 (118.7cm^2)	42.0in2 (271cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DFS1606BU

IADC:~~S223~~

Type
Steel body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"	17-1/2"
Number of Blade	6	6	6	6
Main Cutter Size	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)
Main Cutter Qty	34~39	43~50	52~59	73~83
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	7SP	8SP	9SP
Junk Slot Area	15.9in2 (102.6cm^2)	18.4in2 (118.7cm^2)	42.0in2 (271cm^2)	87.6in2 (565cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)	20.3"(515.6mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.	7-5/8" Reg.

DF1607BU

IADC:~~M323~~

Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"
Number of Blade	7	7	7
Main Cutter Size	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)
Main Cutter Qty	40~45	48~54	62~69
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	7SP	8SP
Junk Slot Area	15.9in2 (102.6cm^2)	18.4in2 (118.7cm^2)	42.0in2 (271cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DFS1607BU

IADC:~~S323~~

Type
Steel body

17-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"	17-1/2"
Number of Blade	7	7	7	7
Main Cutter Size	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)	5/8"(16mm)
Main Cutter Qty	40~45	48~54	62~69	86~96
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	7MSP	4SP+4MSP	10SP	10SP
Junk Slot Area	14.6in2 (94.2cm^2)	16.5in2 (106.5cm^2)	36.0in2 (232.3cm^2)	79.0in2 (509.7cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)	20.3"(515.6mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.	7-5/8" Reg.

DF1904BU

IADC:~~M223~~

Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"
Number of Blade	4	4	4
Main Cutter Size	3/4"(19mm)	3/4"(19mm)	3/4"(19mm)
Main Cutter Qty	21~27	26~32	31~37
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	6SP	6SP
Junk Slot Area	23.0in2 (148.4cm^2)	31.0in2 (200cm^2)	55in2 (354.8cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DFS1904U

IADC:~~S223~~

Type
Steel body

9-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"
Number of Blade	4	4	4
Main Cutter Size	3/4"(19mm)	3/4"(19mm)	3/4"(19mm)
Main Cutter Qty	21~27	26~32	31~37
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	6SP	6SP
Junk Slot Area	23.0in2 (148.4cm^2)	31.0in2 (200cm^2)	55in2 (354.8cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DF1905BU

IADC:~~M223~~

Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"
Number of Blade	5	5	5
Main Cutter Size	3/4"(19mm)	3/4"(19mm)	3/4"(19mm)
Main Cutter Qty	24~29	31~37	38~42
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	5SP	7SP	7SP
Junk Slot Area	18.4in2 (118.7cm^2)	25.4in2 (163.9cm^2)	48.1in2 (310cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.3"(363.2mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DFS1905BU

IADC:~~S223~~

Type
Steel body

17-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

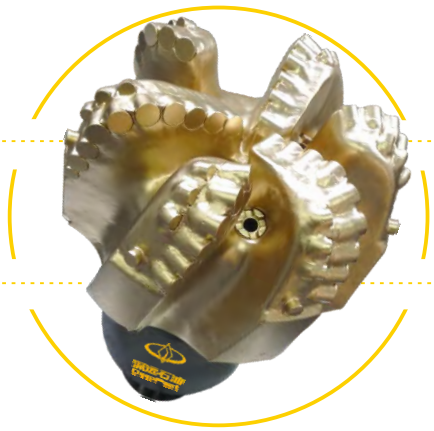
SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"	17-1/2"
Number of Blade	5	5	5	5
Main Cutter Size	3/4"(19mm)	3/4"(19mm)	3/4"(19mm)	3/4"(19mm)
Main Cutter Qty	24~29	31~37	38~42	57~67
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	7SP	7SP	7SP
Junk Slot Area	18.4in2 (118.7cm^2)	25.4in2 (163.9cm^2)	48.1in2 (310cm^2)	100.9in2 (651cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)	20.3"(515.6mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.	7-5/8" Reg.

DRILLING BITS

DF1906BU

IADC:~~M323~~



Type
Matrix body

8-1/2"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"
Number of Blade	6	6	6
Main Cutter Size	3/4"(19mm)	3/4"(19mm)	3/4"(19mm)
Main Cutter Qty	31~36	38~44	49~56
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	7SP	8SP
Junk Slot Area	15.9in2 (102.6cm^2)	18.4in2 (118.7cm^2)	42.0in2 (271cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.

DFS1906BU

IADC:~~S223~~

Type
Steel body

12-1/4"

ADVANTAGE
Unique cutter layout
Special blade design

PERFOMANCE
A higher ROP in hard abrasive formations

SPECIFICATION

Bit Size	8-1/2"	9-1/2"	12-1/4"	17-1/2"
Number of Blade	6	6	6	6
Main Cutter Size	3/4"(19mm)	3/4"(19mm)	3/4"(19mm)	3/4"(19mm)
Main Cutter Qty	31~36	38~44	49~56	62~72
Gauge Length	2.0"(50.8 mm)	2.5"(63.5 mm)	3.0"(76.2 mm)	3.0"(76.2 mm)
Nozzle Qty(type)	6SP	7SP	8SP	9SP
Junk Slot Area	15.9in2 (102.6cm^2)	18.4in2 (118.7cm^2)	42.0in2 (271cm^2)	87.6in2 (565cm^2)
Make-up Length	13.2"(335.3mm)	14.3"(363.2mm)	14.5"(368.3mm)	20.3"(515.6mm)
API connection	4-1/2" Reg.	6-5/8" Reg.	6-5/8" Reg.	7-5/8" Reg.

Tricone Bit

Designed for High-Performance

- **HYDRAULIC** TECHNOLOGY
- **CUTTING** TECHNOLOGY
- **MECHANICAL** TECHNOLOGY

Super Bearing Material

Wear and Impact Resistance

Improved Gauge Protection

Hydraulics Optimization

Bearing Structure:

Cone bearing inlaid with friction reducing alloy and then silver-plated. Abrasion resistance and seizure resistance of the bearing are improved, and suitable for high rotary speed.

8 1/2"(215.9mm)
IADC:517

Specifications	
Size	8 ½" (215.9mm)
IADC	517
Tooth Type	TCI
Bearing	Rubber Sealed bearing
Thread Connection	4 ½ Reg
Operating Parameters	
Weight on Bit (KN)	70~220
Rotary Speed(r/min)	60~140

Cutter:

Premium carbide teeth has increased resistance to break and abrasion, maximum increased cutting structure operating life.

9 7/8"(250.8mm)
IADC:537

Specifications	
Size	9 7/8"(250.8mm)
IADC	537
Tooth Type	TCI
Bearing	Rubber Sealed bearing
Thread Connection	6 5⁄8Reg
Operating Parameters	
Weight on Bit(KN)	120~260
Rotary Speed(r/min)	50~120

Gauge protection:

More tungsten carbide inserts are placed in the gauge to reduce the wear in the abrasive formation. It can protect gauge and increases the stability and life of the bit.

12 1/4"(311.2mm)
IADC:517

Specifications	
Size	12 1/4" (311.2mm)
IADC	517
Tooth Type	Steel Tooth
Bearing	Rubber Sealed bearing
Thread Connection	6 5⁄8 Reg
Operating Parameters	
Weight on Bit(KN)	150~300
Rotary Speed(r/min)	60~120

DRILLING BITS

Hybird Drill Bit

Wash Over Shoe

Drill Reamer

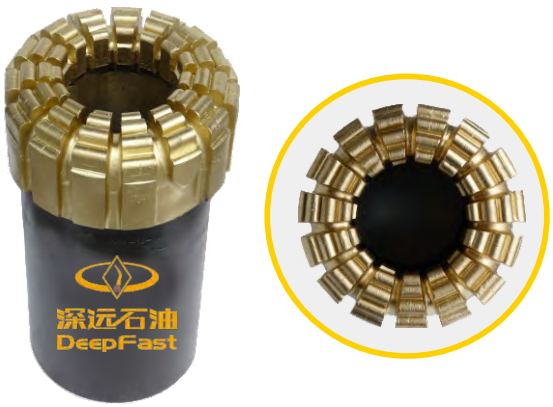
Double Core Bits

Matrix Body
PDC Bi-center Drill Bit

The Central Part Of A Wheel

Thermal Stable Polycrystalline Drill Bit

Impregnated Diamond Bit



Impregnated Core Bit

Matrix Body PDC Core Bit

Mill Shoe

Wash Over Shoe

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

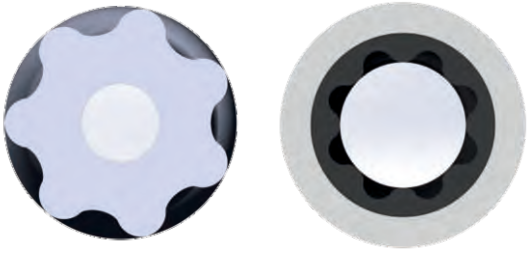
Diesel, crude oil, technical white oil. Suitable for circulation.

PRODUCTS

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

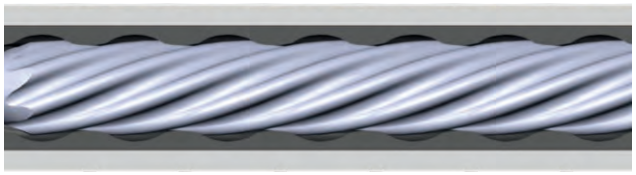
Drilling Motors

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.

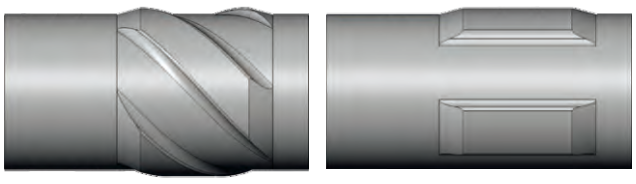


Power Section

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.

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	350 hrs	500 hrs
Ø172 mm	Ø172 mm	Ø244 mm
OBM	WBM	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 offset 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

DeepFast

深远石油
DeepFast

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