Size: 17 1/2", Type: MP716

Standard

Product Fixed cutter drill bits

General Data

IADC Code	M122	
Body material	Matrix	
Design Specifications		
Profile	2	Deep Cone, Short Profile Length
Total Cutter Count	78	
Blade count	7	
Cutter distribution	16 mm	
- Face	60	
- Gauge	18	

Value	Unit	Value	Unit
8			
47.80	sq. inches	30,838.65	sq. mm
56	%		
7-5/8" Reg.			
4.00	inches	101.60	mm
18.00	inches	457.20	mm
	8 47.80 56 7-5/8" Reg. 4.00	8 47.80 sq. inches 56 % 7-5/8" Reg. 4.00 inches	8 47.80 sq. inches 30,838.65 56 % 7-5/8" Reg. 4.00 inches 101.60

Features

Cutter type	Balanced (B)	
Cutter grade	Premium (P)	
Gage Reinforcement	Reinforced (R)	

Operating Parameters

Rotary speed	75 - 140 RPM			
H.S.I.	1 to 3			
Weight on bit	10,000 to 35,000	lb	5 to 16	Т
Flow rate	900 to 1,200	gpm	4,091 to 5,455	lpm
Make Up Torque	48,300 to 61,000	ft lb	6,549 to 8,271	daN m

The above operating parameters are general parameters, please contact your local Tercel representative for recommendations that are specific for your well.

Special Features



The ShockREDUCER features allows the cutting structure to sustain axial and lateral shock, preserving the PDC cutting ability.



The Low Spiral blade layout provides an optimum cleaning process. The increased borehole coverage along the gage enhances the lateral stability of the drill bit.

Depth of Cut Controllers in the cone.

Partially undercut gauge design:

4" passive gauge including 3" undercut at 1/16"





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Size: 16", Type: MP716

Family

Standard

Product Fixed cutter drill bits

General Data

IADC Code	M422	
Body material	Matrix	
Design Specifications		
Profile	2	Deep Cone, Short Profile Length
Total Cutter Count	80	
Blade count	7	
Cutter distribution	16 mm	
- Face	64	
- Gauge	16	

Value	Unit	Value	Unit
9			
95.00	sq. inches	61,290.20	sq. mm
55	%		
7-5/8" Reg.			
4.00	inches	101.60	mm
16.50	inches	419.10	mm
	9 95.00 55 7-5/8" Reg. 4.00	9 95.00 sq. inches 55 % 7-5/8" Reg. 4.00 inches	9 95.00 sq. inches 61,290.20 55 % 7-5/8" Reg. 4.00 inches 101.60

Features

Cutter type	Balanced (B)
Cutter grade	Premium (P)
Gage Reinforcement	Reinforced (R)

Operating Parameters

Rotary speed	75 - 140 RPM				
H.S.I.	1 to 3				
Weight on bit	10,000 to 35,000	lb	5 to 16	Т	
Flow rate	900 to 1,200	gpm	4,091 to 5,455	lpm	
Make Up Torque	48,300 to 61,000	ft lb	6,549 to 8,271	daN m	

The above operating parameters are general parameters, please contact your local Tercel representative for recommendations that are specific for your well.

Special Features



The ShockREDUCER features allows the cutting structure to sustain axial and lateral shock, preserving the PDC cutting ability.



The Low Spiral blade layout provides an optimum cleaning process. The increased borehole coverage along the gage enhances the lateral stability of the drill bit.

Depth of Cut Controllers in the cone.

Partially undercut gauge design:

4" passive gauge including 3" undercut at 1/16"





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Product Fixed cutter drill bits

Size: 16", Type: SP616

General Data

IADC Code	S222	
Body material	Steel	
Design Specifications		
Profile	2	Deep Cone, Short Profile Length
Total Cutter Count	60	
Blade count	6	
Cutter distribution	16 mm	
- Face	53	
- Cauge	7	

	Value	Unit	Value	Unit
Number of Nozzles 65	9			
Junk Slot Area	85.80	sq. inches	55,354.73	sq. mm
Normalized Face Volume	54	%		
API Connection	7-5/8" Reg.			
Passive gauge length	4.00	inches	101.60	mm
Make-Up Length	15.00	inches	381.00	mm

Features

Cutter type	Balanced (B)
Cutter grade	Premium (P)
Gage Reinforcement	Reinforced (R)

Operating Parameters

Operating rarameters				
Rotary speed	75 - 140 RPM			
H.S.I.	1 to 3			
Weight on bit	10,000 to 35,000	lb	5 to 16	Т
Flow rate	900 to 1,200	gpm	4,091 to 5,455	lpm
Make Up Torque	48,300 to 61,000	ft lb	6,549 to 8,271	daN m

The above operating parameters are general parameters, please contact your local Tercel representative for recommendations that are specific for your well.

Special Features



The ShockREDUCER features allows the cutting structure to sustain axial and lateral shock, preserving the PDC cutting ability.



The Low Spiral blade layout provides an optimum cleaning process. The increased borehole coverage along the gage enhances the lateral stability of the drill bit.

Depth of Cut Controllers in the cone.

Partially undercut gauge design:

4" passive gauge including 3" undercut at 1/16"





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Size: 12 1/4", Type: SP613

Standard

Product Fixed cutter drill bits

General Data

IADC Code	S433	
Body material	Steel	
Design Specifications		
Profile	2	Deep Cone, Short Profile Length
Total Cutter Count	64	
Blade count	6	
Cutter distribution	13 mm	
- Face	51	
- Gauge	13	

	Value	Unit	Value	Unit
Number of Nozzles 65	9			
Junk Slot Area	25.20	sq. inches	16,258.03	sq. mm
Normalized Face Volume	38	%		
API Connection	6-5/8" Reg.			
Passive gauge length	4.00	inches	101.60	mm
Make-Up Length	14.00	inches	355.60	mm

Features

Cutter type	Balanced (B)
Cutter grade	Premium (P)
Gage Reinforcement	Reinforced (R)

Operating Parameters

Operating Parameters				
Rotary speed	80 - 210 RPM			
H.S.I.	1 to 6			
Weight on bit	10,000 to 50,000	lb	5 to 23	Т
Flow rate	800 to 1,000	gpm	3,637 to 4,546	lpm
Make Up Torque	37,100 to 38,500	ft lb	5,030 to 5,220	daN m

The above operating parameters are general parameters, please contact your local Tercel representative for recommendations that are specific for your well.

Special Features



The ShockREDUCER features allows the cutting structure to sustain axial and lateral shock, preserving the PDC cutting ability.



The Low Spiral blade layout provides an optimum cleaning process. The increased borehole coverage along the gage enhances the lateral stability of the drill bit.

Depth of Cut Controllers in the cone.

Partially undercut gauge design:

4" passive gauge including 3" undercut at 1/16"





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Size: 12 1/4", Type: MP813

Standard

Product Fixed cutter drill bits

General Data

IADC Code	M322	
Body material	Matrix	
Design Specifications		
Profile	2	Deep Cone, Short Profile Length
Total Cutter Count	79	
Blade count	8	
Cutter distribution	13 mm	
- Face	63	
- Gauge	16	

Normalized Face Volume 40 % API Connection 6-5/8" Reg. Passive gauge length 4.00 inches 101.60 mm		Value	Unit	Value	Unit
Normalized Face Volume 40 % API Connection 6-5/8" Reg. Passive gauge length 4.00 inches 101.60 mm	Number of Nozzles 65	8			
API Connection 6-5/8" Reg. Passive gauge length 4.00 inches 101.60 mm	Junk Slot Area	24.30	sq. inches	15,677.39	sq. mm
Passive gauge length 4.00 inches 101.60 mm	Normalized Face Volume	40	%		
The state of the s	API Connection	6-5/8" Reg.			
	Passive gauge length	4.00	inches	101.60	mm
Make-Up Length 13.60 inches 345.44 mm	Make-Up Length	13.60	inches	345.44	mm

Features

Gage Reinforcement	Reinforced (R)	
Cutter grade	Premium (P)	
Cutter type	Balanced (B)	

Operating Parameters

operating rarameters					
Rotary speed	80 - 210 RPM				
H.S.I.	1 to 6				
Weight on bit	10,000 to 50,000	lb	5 to 23	Т	
Flow rate	800 to 1,000	gpm	3,637 to 4,546	lpm	
Make Up Torque	37,100 to 38,500	ft lb	5,030 to 5,220	daN m	

The above operating parameters are general parameters, please contact your local Tercel representative for recommendations that are specific for your well.

Special Features



The ShockREDUCER features allows the cutting structure to sustain axial and lateral shock, preserving the PDC cutting ability.



The Low Spiral blade layout provides an optimum cleaning process. The increased borehole coverage along the gage enhances the lateral stability of the drill bit.

Depth of Cut Controllers in the cone.

Partially undercut gauge design:

4" passive gauge including 3" undercut at 1/16"





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Size: 8 1/2", Type: MP813

Standard

Product Fixed cutter drill bits

General Data

IADC Code	M232	
Body material	Matrix	
Design Specifications		
Profile	2	Deep Cone, Short Profile Length
Total Cutter Count	50	
Blade count	8	
Cutter distribution	13 mm	19 mm
- Face	38	0
- Gauge	0	12

	Value	Unit	Value	Unit
Number of Nozzles 65	6			
Junk Slot Area	6.00	sq. inches	3,870.96	sq. mm
Normalized Face Volume	30	%		
API Connection	4-1/2" Reg.			
Passive gauge length	4.00	inches	101.60	mm
Make-Up Length	11.40	inches	289.56	mm

Features

Cutter type	Balanced (B)
Cutter grade	Premium (P)
Gage Reinforcement	Reinforced (R)

Operating Parameters

Operating Parameters				
Rotary speed	80 - 180 RPM			
H.S.I.	1 to 4			
Weight on bit	10,000 to 35,000	lb	5 to 16	Т
Flow rate	500 to 750	gpm	2,273 to 3,410	lpm
Make Up Torque	12,500 to 17,800	ft lb	1,695 to 2,413	daN m

The above operating parameters are general parameters, please contact your local Tercel representative for recommendations that are specific for your well.

Special Features



The ShockREDUCER features allows the cutting structure to sustain axial and lateral shock, preserving the PDC cutting ability.



The Low Spiral blade layout provides an optimum cleaning process. The increased borehole coverage along the gage enhances the lateral stability of the drill bit.

Depth of Cut Controllers in the cone.

Partially undercut gauge design:

4" passive gauge including 3" undercut at 1/16"





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Standard

Product Fixed cutter drill bits

General Data

IADC Code	M132	
Body material	Matrix	
Design Specifications		
Profile	2	Deep Cone, Short Profile Length
Total Cutter Count	28	
Blade count	8	
Cutter distribution	13 mm	
- Face	20	
- Gauge	8	

	Value	Unit	Value	Unit
Number of Nozzles 55	4			
Junk Slot Area	5.70	sq. inches	3,677.41	sq. mm
Normalized Face Volume	30	%		
API Connection	3-1/2" Reg.			
Passive gauge length	4.00	inches	101.60	mm
Make-Up Length	10.00	inches	254.00	mm

Features

Cutter type	Balanced (B)	
Cutter grade	Standard (S)	
Gage Reinforcement	Standard (S)	

Operating Parameters

Rotary speed	80 - 180 RPM			
Rotary speed	00 - 100 KI W			
H.S.I.	1 to 4			
Weight on bit	10,000 to 35,000	lb	5 to 16	Т
Flow rate	275 to 550	gpm	1,250 to 2,500	lpm
Make Up Torque	12,500 to 17,800	ft lb	1,695 to 2,413	daN m

The above operating parameters are general parameters, please contact your local Tercel representative for recommendations that are specific for your well.

Special Features



The ShockREDUCER features allows the cutting structure to sustain axial and lateral shock, preserving the PDC cutting ability.

Depth of Cut Controllers in the cone.

Partially undercut gauge design:

4" passive gauge including 3" undercut at 1/16"





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Size: 6", Type: MP713

Family

Standard

Product

Fixed cutter drill bits

General Data

IADC Code	M232	
Body material	Matrix	
Design Specifications		
Profile	2	Deep Cone, Short Profile Length
Total Cutter Count	39	
Blade count	7	
Cutter distribution	13 mm	
- Face	24	
- Gauae	15	

	Value	Unit	Value	Unit
Number of Nozzles 55	3			
Ports	1			
Junk Slot Area	3.70	sq. inches	2,387.09	sq. mm
Normalized Face Volume	40	%		
API Connection	3-1/2" Reg.			
Passive gauge length	4.00	inches	101.60	mm
Make-Up Length	10.50	inches	266.70	mm

Features

Cutter type	Balanced (B)
Cutter grade	Premium (P)
Gage Reinforcement	Reinforced (R)

Operating Parameters

operating ratameters				
Rotary speed	80 - 180 RPM			
H.S.I.	1 to 3			
Weight on bit	10,000 to 35,000	lb	5 to 16	T
Flow rate	175 to 300	gpm	796 to 1,364	lpm
Make Up Torque	5,000 to 7,700	ft lb	678 to 1,044	daN m

The above operating parameters are general parameters, please contact your local Tercel representative for recommendations that are specific for your well.

Special Features



The ShockREDUCER features allows the cutting structure to sustain axial and lateral shock, preserving the PDC cutting ability.

Depth of Cut Controllers in the cone.

Partially undercut gauge design:

4" passive gauge including 3" undercut at 1/16"





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