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OILFIELD DRILLING BITS

Made in Germany

by



Non standard OD's available.

All coring bits for core barrels series 250P.

Face discharge ports optional available for all coring bits.

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CORING BITS

Type 52 (IADC code M565)

- For soft to medium formations such as marl, salt, anhydrite, shale, sand, and chalk.
- PCD cutters \varnothing 1/2 in.
- Round profile.
- Natural diamond gages.
- Tungsten carbide bit body.

Bit size OD (in)	6	8-1/2
# of ID waterways	6	8
# of cutters	21	36
Core barrel size (in)	4-3/4 x 2-5/8	6-3/4 x 4
Hydraulic flow rate (GPM)	100-250	180-320
Rotation speed (RPM)	80-500	80-500
Weight on bit (1000 lbs)	2-15	5-20
Approx. shipping weight (lbs)	50	90

Bit shown: 8-1/2"

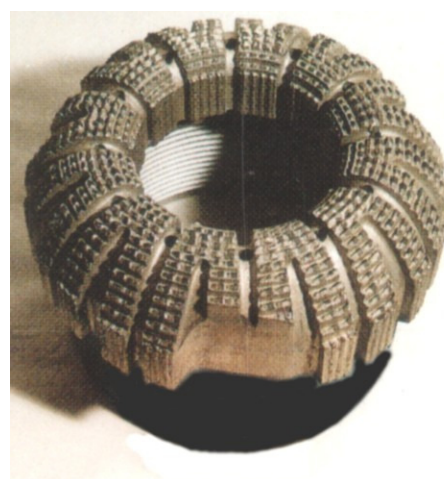


Type S10 (IADC code T5X9)

- For medium to hard and dense formations such as shale, mudstone, limestone, sandstone, dolomite, anhydrite, siltstone, and mudstone.
- Cubic TSD cutters 1/8 x 1/8 x 1/8 in³.
- Double cone profile with sharp nose and tapered flank.
- Natural diamond gages.
- Tungsten carbide bit body.
- Feeder/Collector fluid course.

Bit size OD (in)	6	8-1/2
# of ID waterways	8	12
Approx. # of cutters	290	560
Core barrel size (in)	4-3/4 x 2-5/8	6-3/4 x 4
Hydraulic flow rate (GPM)	100-200	180-300
Rotation speed (RPM)	60-500	60-500
Weight on bit (1000 lbs)	5-10	10-20
Approx. shipping weight (lbs)	50	90

Bit shown: 8-1/2"



NON CORING BITS

Type S323 (IADC code S612)

- For soft formations such as gumbo, clay, marl, salt, anhydrite, and shale.
- PCD premium face cutters \varnothing 3/4 in.
- PCD gage cutters \varnothing 3/4 in.
- PCD gage trimmers \varnothing 1/2 in.
- Round flank and shallow inner cone.
- Interchangeable jet nozzles.
- Spiral gage protected by TC pins with embedded TSD diamonds.
- Steel bit body (42CrMo4).
- Extremely high cutter stand off.

Bit size OD (in)	8-1/2	12-1/4
# of blades	5	5
# of nozzles	6	8
# of face cutters	16	29
# of gage cutters	5	5
# of gage trimmers	10	10
Approx. junk slot area (in ²)	20	53
API reg. pin connection (in)	4-1/2	6-5/8
Hydraulic flow rate (GPM)	550-600	900-950
Rotation speed (RPM)	80-500	80-500
Weight on bit (1000 lbs)	4-20	5-30
Approx. shipping weight (lbs)	220	550

Bit shown: 12-1/4"

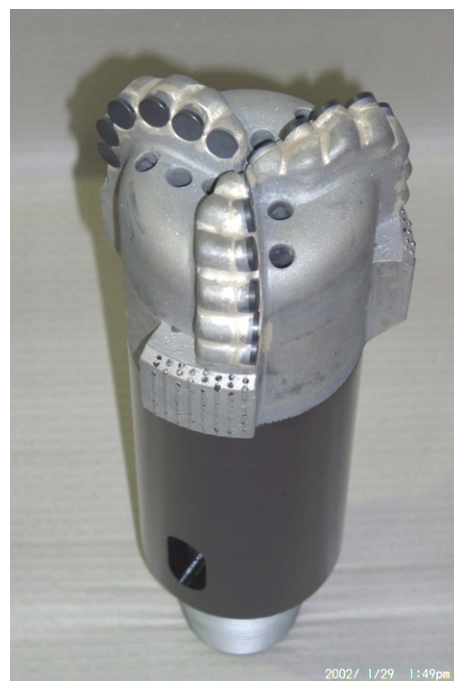


Type 423 (IADC code M654)

- For soft to hard formations such as gumbo, clay, marl, salt, anhydrite, and shale.
- PCD cutters \varnothing 1/2 in.
- Round flank and shallow inner cone.
- Fixed jet nozzles.
- Natural diamond gage.
- Tungsten carbide bit body.

Bit size OD (in)	6	8-1/2	12-1/4
# of blades	3	5	5
Max. TFA (in ²)	2.4	4.5	9.3
# of cutters	19	34	53
Approx. junk slot area (in ²)	8.0	13.5	25
API reg. pin connection (in)	3-1/2	4-1/2	6-5/8
Hydraulic flow rate (GPM)	150-250	300-500	600-850
Rotation speed (RPM)	80-500	80-500	80-500
Weight on bit (1000 lbs)	2-15	3-20	5-30
Approx. shipping weight (lbs)	90	220	550

Bit shown: 5-11/16"



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Type 426 (IADC code M325)

- For soft to medium formations such as gumbo, clay, marl, salt, anhydrite, shale, sand, and chalk.
- PCD cutters \varnothing 1/2 in.
- Long tapered flank and shallow inner cone.
- Fixed jet nozzles.
- Natural diamond gage.
- Tungsten carbide bit body.

Bit size OD (in)	6	8-1/2	12-1/4
# of blades	3	5	5
Max. TFA (in ²)	2.4	4.5	9.3
# of cutters	27	48	74
Approx. junk slot area (in ²)	8.0	13.5	25
API reg. pin connection (in)	3-1/2	4-1/2	6-5/8
Hydraulic flow rate (GPM)	150-250	300-500	600-850
Rotation speed (RPM)	80-500	80-500	80-500
Weight on bit (1000 lbs)	2-15	3-20	5-30
Approx. shipping weight (lbs)	90	220	550

Bit shown: 8-1/2"



Type 437 (IADC code M646)

- For soft to hard formations such as sand, shale, chalk, mudstone, limestone, and sandstone.
- PCD cutters \varnothing 1/2 in.
- Round flank and shallow inner cone.
- Interchangeable jet nozzles.
- Natural diamond gage.
- Tungsten carbide bit body.

Bit size OD (in)	6	8-1/2	12-1/4
# of blades	6	8	10
# of nozzles	3	4	5
# of cutters	32	52	91
Approx. junk slot area (in ²)	5.4	9.6	21
API reg. pin connection (in)	3-1/2	4-1/2	6-5/8
Hydraulic flow rate (GPM)	150-250	300-500	500-800
Rotation speed (RPM)	80-500	80-500	80-500
Weight on bit (1000 lbs)	3-15	5-25	9-40
Approx. shipping weight (lbs)	90	220	550

Bit shown: 12-1/4"

