



HDD FIXED-CUTTER REAMING TOOLING

PDC Reamer Product Data Sheet

Verified dimensions, connections, cutter references and nozzle layouts for ten drawing-controlled PDC reamer configurations.

Document scope Product data sheet for models 7-5-13D through 30-6-16D, based only on the ten supplied engineering drawings.

Model	Drawing	OD	Overall length	Connection	Nozzles
PDC Reamer 7-5-13D	D260318B-1	177.8 mm	389 mm	2-7/8 API REG BOX, both ends	7 x 8 mm (5 front + 2 back)
PDC Reamer 8-5-13	D260314B	203.2 mm	427.9 mm	2-7/8 API REG BOX, both ends	8 x 8 mm (5 front + 3 back)
PDC Reamer 9-5-13D	D260318B-2	228.6 mm	434.5 mm	2-7/8 API REG BOX, both ends	8 x 8 mm (5 front + 3 back)
PDC Reamer 10-5-13	D260314B-2	254 mm	455 mm	2-7/8 API REG BOX, both ends	8 x 8 mm (5 front + 3 back)
PDC Reamer 12-5-13D	D260314B-3	304.8 mm	495 mm	2-7/8 API REG BOX, both ends	8 x 8 mm (5 front + 3 back)
PDC Reamer 14-6-16D	D260314B-4	355.6 mm	914.9 mm	2-7/8 API REG BOX, both ends	12 x 8 mm (9 front + 3 back)
PDC Reamer 16-6-16D	D260314B-5	408 mm	940.9 mm	2-7/8 API REG BOX, both ends	12 x 8 mm (9 front + 3 back)
PDC Reamer 18-6-16D	D260318B-3	457.2 mm	964.9 mm	2-7/8 API REG BOX, both ends	12 x 8 mm (6 front + 6 back)
PDC Reamer 24-6-16D	D260819B-2	609.6 mm	1210 +/- 10 mm	4-1/2 IF BOX, both ends	15 x 10 mm (12 front + 3 back)
PDC Reamer 30-6-16D	D260820B-7	762 mm	1340 +/- 10 mm	4-1/2 IF BOX, both ends	24 x 14 mm (18 front + 6 back)

What the drawings verify

OD, overall length, connections, cutter references, nozzle arrangement and identified body features.

What the project must approve

Formation suitability, staging, rig compatibility, makeup procedure, operating limits and hydraulic plan.

Four-step document use

1 Identify	2 Match	3 Verify	4 Approve
Confirm model and drawing.	Compare the bore, rig and connection.	Inspect the delivered configuration.	Release only under the project plan.

Controlled-use notice: Verify the current drawing, delivered configuration and project approval before use. The supplied drawings do not state weight or universal torque, rotary speed, thrust, pullback, flow or pressure limits.



Product family overview

Quick answer: A DRILLNOVA PDC reamer is a fixed-cutter HDD tool used to enlarge a previously drilled bore. This supplied family covers drawing outside diameters from 177.8 mm to 762 mm. Correct selection requires the target reamed diameter, formation data, connection, cutter layout and hydraulic plan to be reviewed together.

Verified model matrix

Model	Drawing	OD	Overall length	Connection	Nozzles
PDC Reamer 7-5-13D	D260318B-1	177.8 mm	389 mm	2-7/8 API REG BOX, both ends	7 x 8 mm (5 front + 2 back)
PDC Reamer 8-5-13	D260314B	203.2 mm	427.9 mm	2-7/8 API REG BOX, both ends	8 x 8 mm (5 front + 3 back)
PDC Reamer 9-5-13D	D260318B-2	228.6 mm	434.5 mm	2-7/8 API REG BOX, both ends	8 x 8 mm (5 front + 3 back)
PDC Reamer 10-5-13	D260314B-2	254 mm	455 mm	2-7/8 API REG BOX, both ends	8 x 8 mm (5 front + 3 back)
PDC Reamer 12-5-13D	D260314B-3	304.8 mm	495 mm	2-7/8 API REG BOX, both ends	8 x 8 mm (5 front + 3 back)
PDC Reamer 14-6-16D	D260314B-4	355.6 mm	914.9 mm	2-7/8 API REG BOX, both ends	12 x 8 mm (9 front + 3 back)
PDC Reamer 16-6-16D	D260314B-5	408 mm	940.9 mm	2-7/8 API REG BOX, both ends	12 x 8 mm (9 front + 3 back)
PDC Reamer 18-6-16D	D260318B-3	457.2 mm	964.9 mm	2-7/8 API REG BOX, both ends	12 x 8 mm (6 front + 6 back)
PDC Reamer 24-6-16D	D260819B-2	609.6 mm	1210 +/- 10 mm	4-1/2 IF BOX, both ends	15 x 10 mm (12 front + 3 back)
PDC Reamer 30-6-16D	D260820B-7	762 mm	1340 +/- 10 mm	4-1/2 IF BOX, both ends	24 x 14 mm (18 front + 6 back)

Selection inputs that remain project-specific

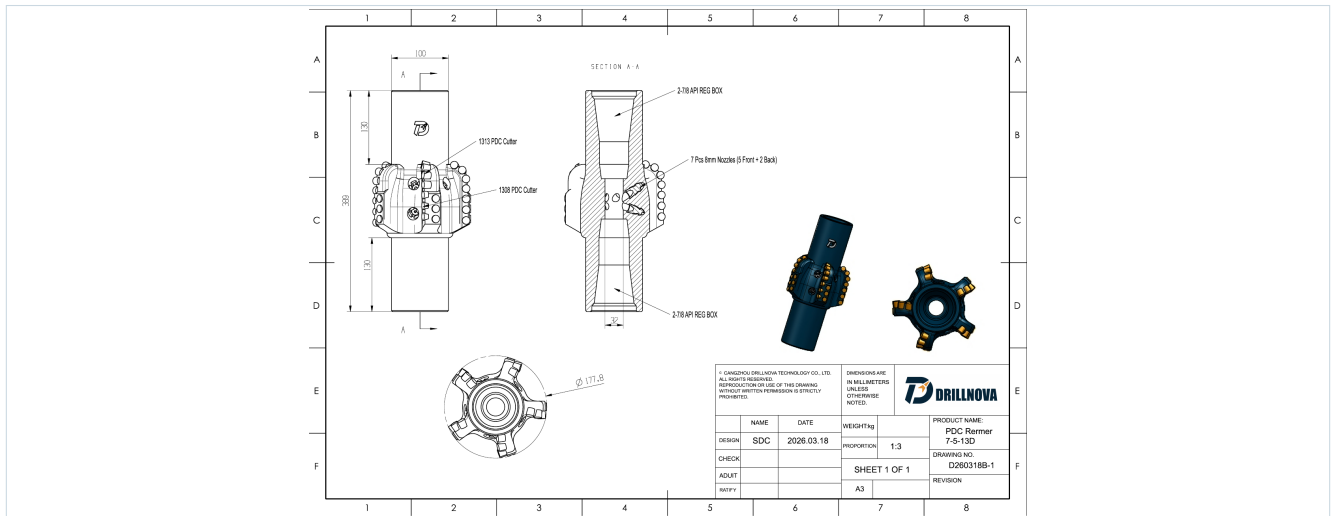
- Geotechnical profile, compressive strength, abrasiveness, inclusions and formation transitions.
- Pilot-hole condition, target diameter, staging plan, bore length and planned pullback direction.
- Rig make/model, connection, available torque and pullback capacity.
- Pump capacity, drilling-fluid properties, nozzle plan and cuttings-return requirement.
- Approved operating envelope and acceptance criteria for the exact delivered configuration.

Do not select by diameter alone

A matching OD does not confirm compatibility. Verify drawing number, both connections, cutter configuration, nozzle arrangement, body geometry and the current approved revision.



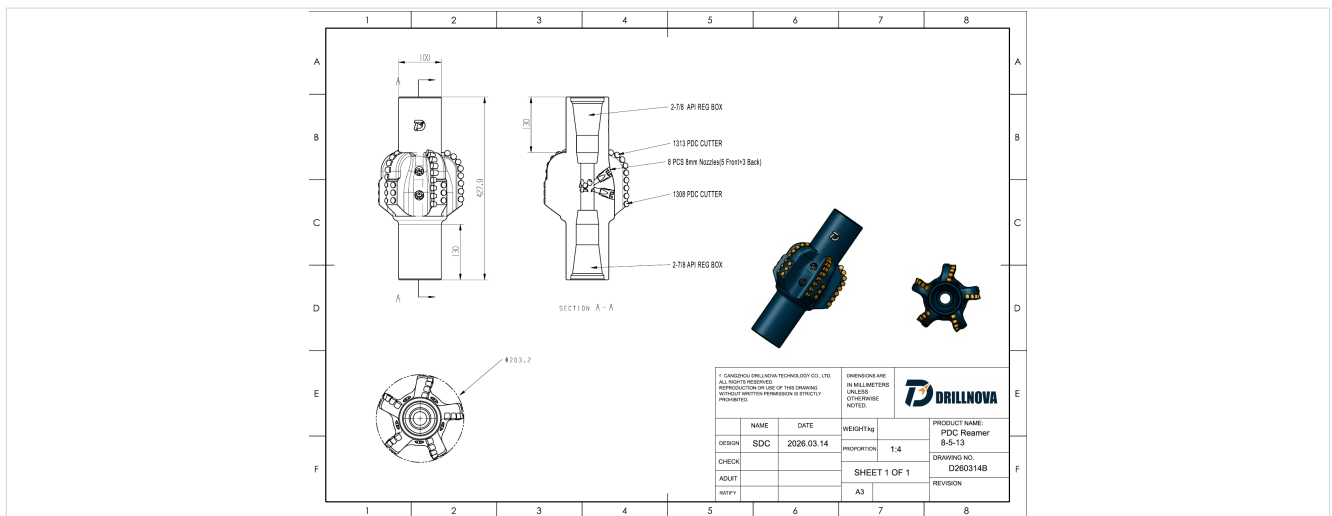
PDC Reamer 7-5-13D



Drawing / date	OD / overall length	Connection	Body reference
D260318B-1 / 2026-03-18	177.8 mm / 389 mm	2-7/8 API REG BOX, both ends	100 mm end/body diameter
Cutter reference	1313 and 1308 PDC cutters; quantities not stated	Nozzle arrangement	7 x 8 mm (5 front + 2 back)

Drawing preview for identification. Use the controlled source PDF for manufacturing and acceptance.

PDC Reamer 8-5-13

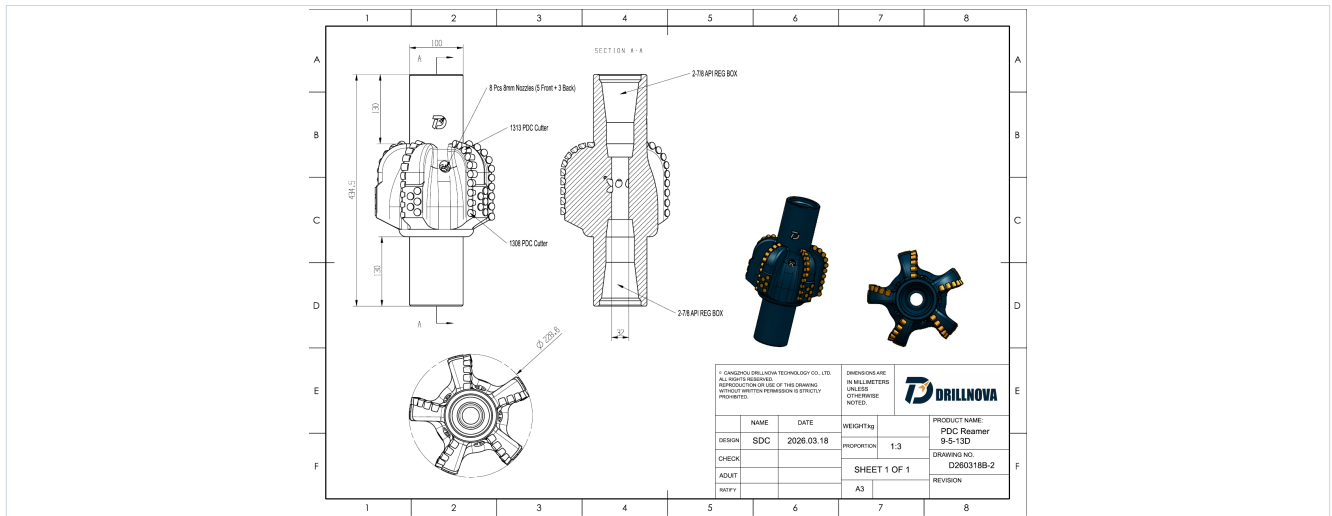


Drawing / date	OD / overall length	Connection	Body reference
D260314B / 2026-03-14	203.2 mm / 427.9 mm	2-7/8 API REG BOX, both ends	100 mm end/body diameter
Cutter reference	1313 and 1308 PDC cutters; quantities not stated	Nozzle arrangement	8 x 8 mm (5 front + 3 back)

Drawing preview for identification. Use the controlled source PDF for manufacturing and acceptance.



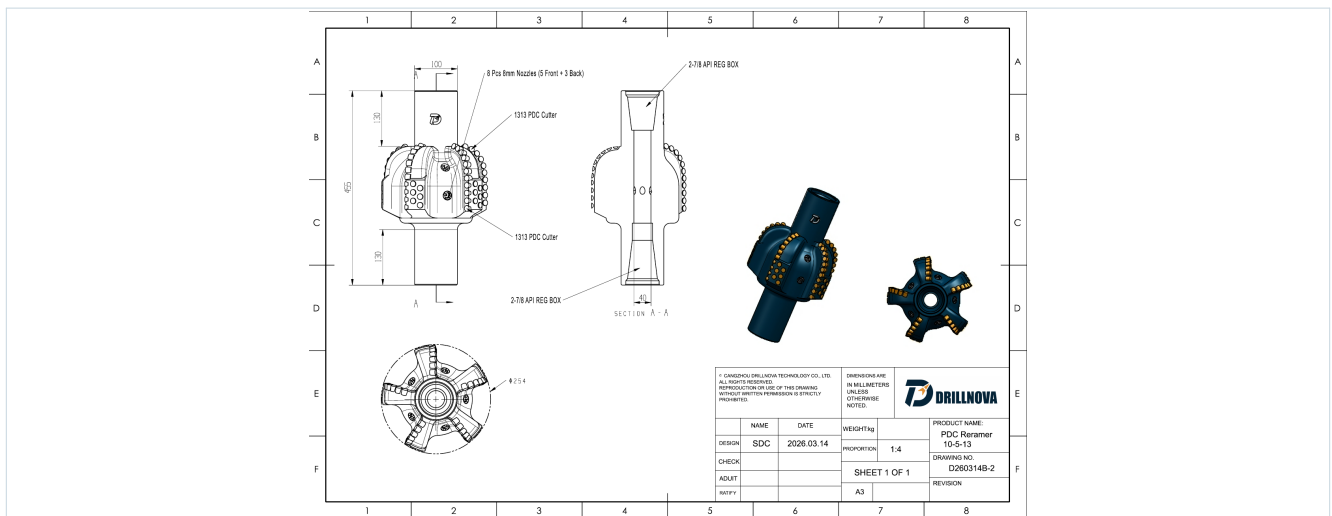
PDC Reamer 9-5-13D



Drawing / date	OD / overall length	Connection	Body reference
D260318B-2 / 2026-03-18	228.6 mm / 434.5 mm	2-7/8 API REG BOX, both ends	100 mm end/body diameter
Cutter reference	1313 and 1308 PDC cutters; quantities not stated	Nozzle arrangement	8 x 8 mm (5 front + 3 back)

Drawing preview for identification. Use the controlled source PDF for manufacturing and acceptance.

PDC Reamer 10-5-13

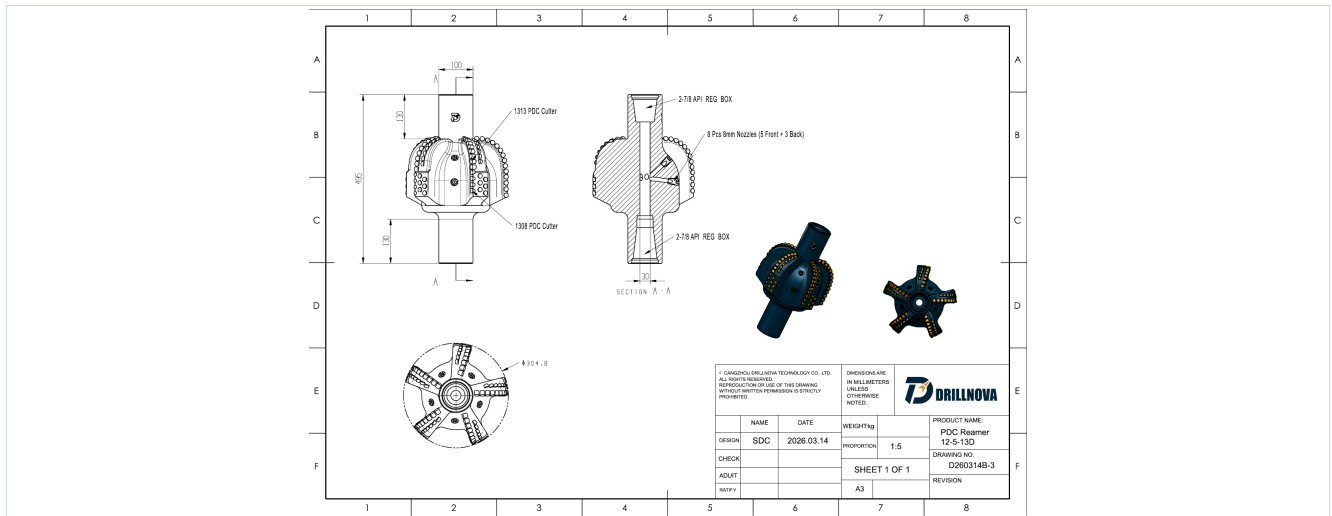


Drawing / date	OD / overall length	Connection	Body reference
D260314B-2 / 2026-03-14	254 mm / 455 mm	2-7/8 API REG BOX, both ends	100 mm end/body diameter
Cutter reference	1313 PDC cutters; quantity not stated	Nozzle arrangement	8 x 8 mm (5 front + 3 back)

Drawing preview for identification. Use the controlled source PDF for manufacturing and acceptance.



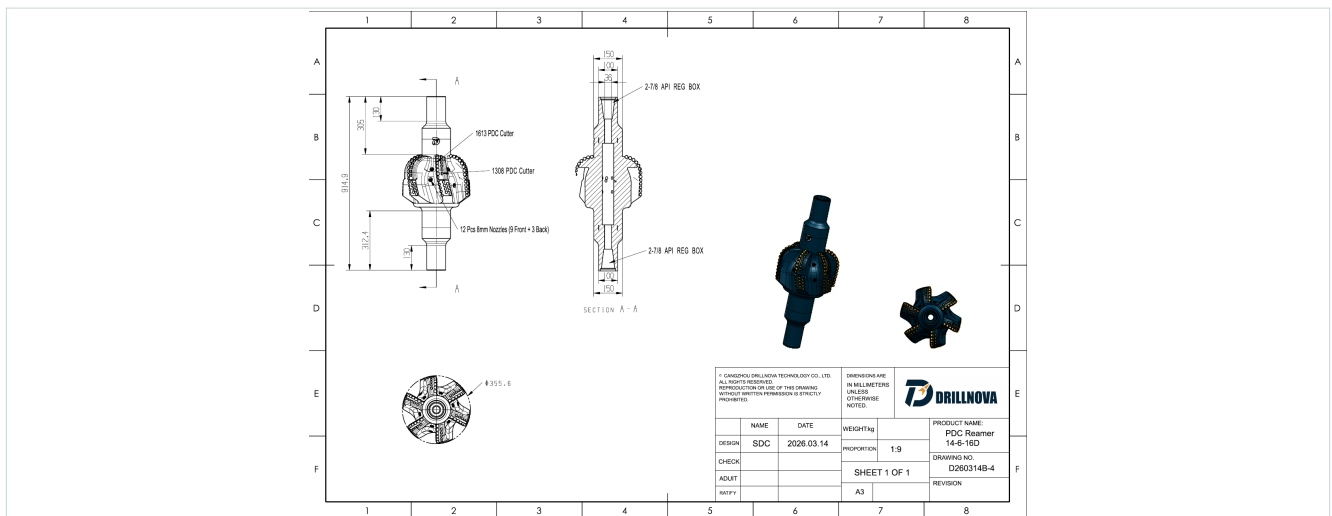
PDC Reamer 12-5-13D



Drawing / date	OD / overall length	Connection	Body reference
D260314B-3 / 2026-03-14	304.8 mm / 495 mm	2-7/8 API REG BOX, both ends	100 mm end/body diameter
Cutter reference	1313 and 1308 PDC cutters; quantities not stated	Nozzle arrangement	8 x 8 mm (5 front + 3 back)

Drawing preview for identification. Use the controlled source PDF for manufacturing and acceptance.

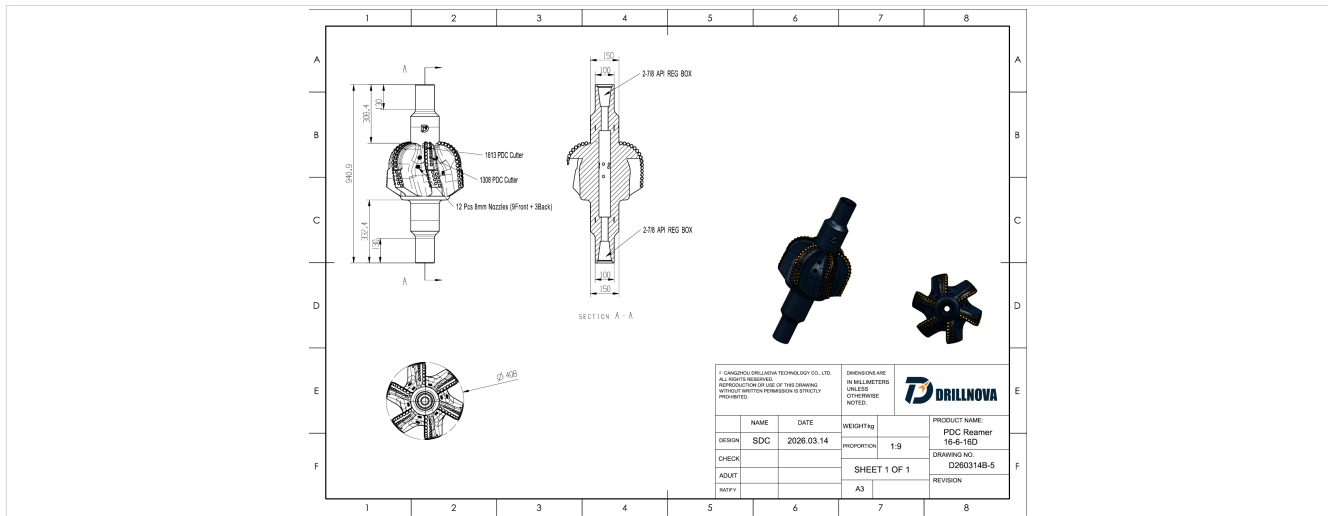
PDC Reamer 14-6-16D



Drawing / date	OD / overall length	Connection	Body reference
D260314B-4 / 2026-03-14	355.6 mm / 914.9 mm	2-7/8 API REG BOX, both ends	150 mm outer / 100 mm internal reference at ends
Cutter reference	1613 and 1308 PDC cutters; quantities not stated	Nozzle arrangement	12 x 8 mm (9 front + 3 back)

Drawing preview for identification. Use the controlled source PDF for manufacturing and acceptance.

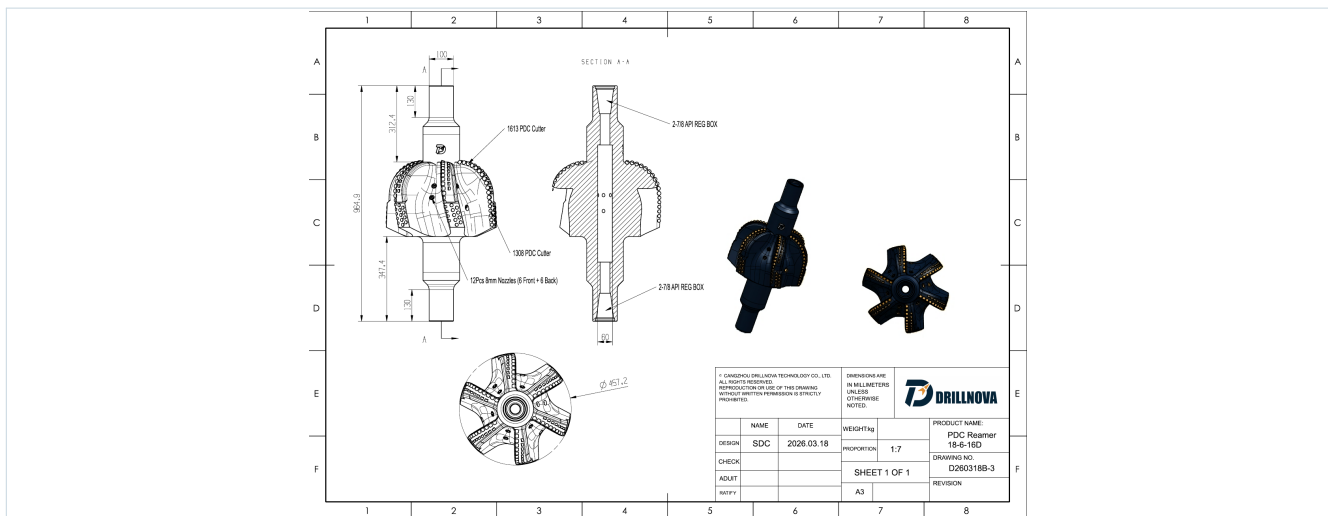
PDC Reamer 16-6-16D



Drawing / date	OD / overall length	Connection	Body reference
D260314B-5 / 2026-03-14	408 mm / 940.9 mm	2-7/8 API REG BOX, both ends	150 mm outer / 100 mm internal reference at ends
Cutter reference	1613 and 1308 PDC cutters; quantities not stated	Nozzle arrangement	12 x 8 mm (9 front + 3 back)

Drawing preview for identification. Use the controlled source PDF for manufacturing and acceptance.

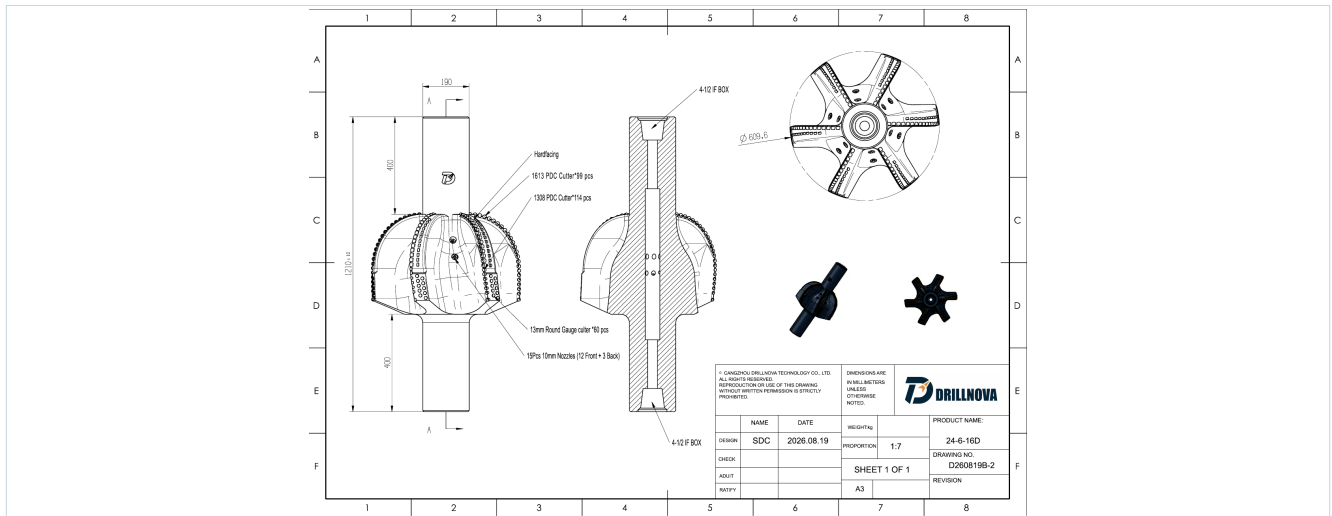
PDC Reamer 18-6-16D



Drawing / date	OD / overall length	Connection	Body reference
D260318B-3 / 2026-03-18	457.2 mm / 964.9 mm	2-7/8 API REG BOX, both ends	Drawing-controlled end geometry
Cutter reference	1613 and 1308 PDC cutters; quantities not stated	Nozzle arrangement	12 x 8 mm (6 front + 6 back)

Drawing preview for identification. Use the controlled source PDF for manufacturing and acceptance.

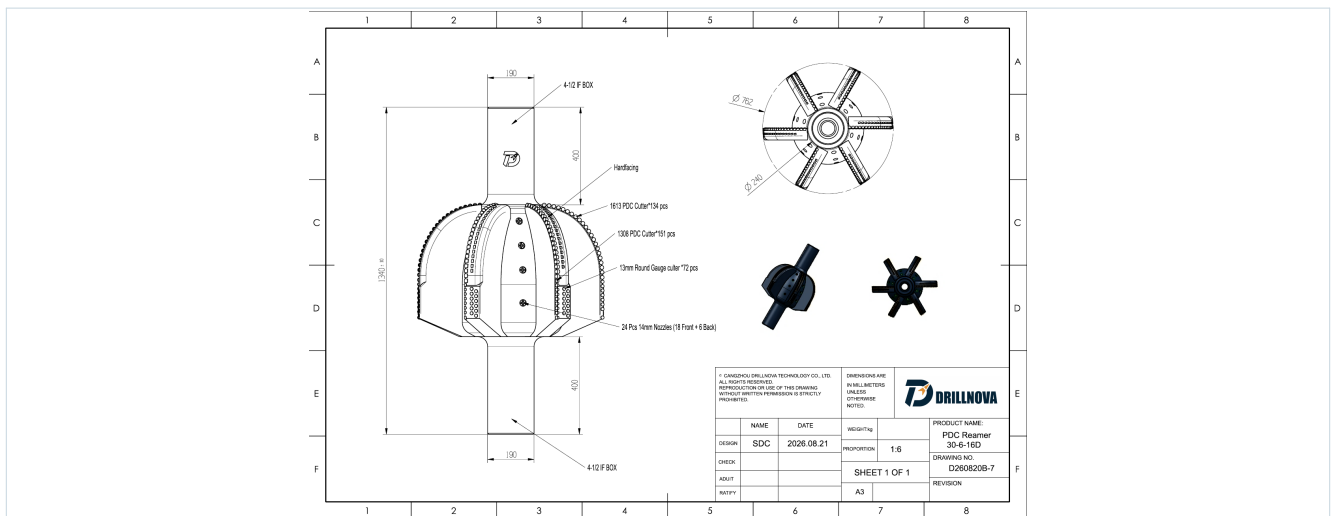
PDC Reamer 24-6-16D



Drawing / date	OD / overall length	Connection	Body reference
D260819B-2 / 2026-08-19	609.6 mm / 1210 +/- 10 mm	4-1/2 IF BOX, both ends	190 mm end/body diameter; hardfacing indicated
Cutter reference	99 x 1613 PDC; 114 x 1308 PDC; 60 x 13 mm round gauge cutters	Nozzle arrangement	15 x 10 mm (12 front + 3 back)

Drawing preview for identification. Use the controlled source PDF for manufacturing and acceptance.

PDC Reamer 30-6-16D



Drawing / date	OD / overall length	Connection	Body reference
D260820B-7 / 2026-08-21	762 mm / 1340 +/- 10 mm	4-1/2 IF BOX, both ends	190 mm end/body diameter; 240 mm secondary diameter; hardfacing indicated
Cutter reference	134 x 1613 PDC; 151 x 1308 PDC; 72 x 13 mm round gauge cutters	Nozzle arrangement	24 x 14 mm (18 front + 6 back)

Drawing preview for identification. Use the controlled source PDF for manufacturing and acceptance.



Application, ordering and FAQ

Information to send for technical review

- Target reamed diameter and whether the enlargement will be completed in one or multiple stages.
- Pilot diameter, bore profile, length and planned pullback direction.
- Formation log including strength, abrasiveness, cobbles/boulders and expected transitions.
- Rig and swivel details, available torque/pullback, connection and mating component drawing.
- Pump capability, fluid program and desired nozzle arrangement.
- Required model/drawing number, quantity, documentation and inspection requirements.

Are all models supplied with the same connection?

No. The 7- through 18-inch drawings show 2-7/8 API REG BOX at both ends. The 24- and 30-inch drawings show 4-1/2 IF BOX at both ends.

Do the drawings provide operating limits?

No. They do not state an approved torque, rotary speed, thrust, pullback, flow or pressure range. Obtain project-specific values before operation.

Can nozzle sizes be changed?

Only through an approved hydraulic and engineering review. The table records the arrangements shown on the supplied drawings.

Which model is suitable for a specific formation?

The drawings alone do not establish formation suitability. Review geotechnical data, cutter layout, bore stage, hydraulics and rig capability before selection.

Controlled document package

Selection record	Approved model, drawing/revision, bore stage and formation basis.
Connection review	Mating component drawing, rig/swivel interface and approved makeup procedure.
Hydraulic review	Pump capability, fluid properties, nozzle arrangement and return plan.
Receiving record	Identification, delivered condition, photographs and traceability.
Field record	Operating trends, formation changes, abnormal events and post-run condition.
Technical review package	Provide the drawing number, formation report, bore plan, rig data, fluid plan and mating-connection information before final selection or substitution.