





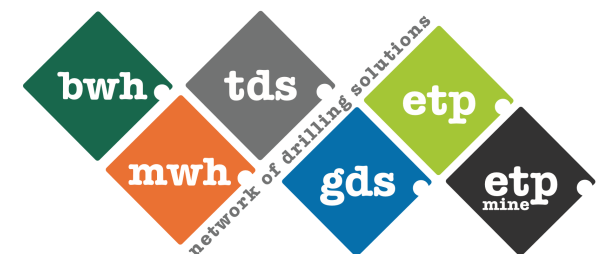
**gds geo drilling solutions ab**

# **Drill bits for air DTH hammers and water-propelled hammers**

- from DrillKing



- **Drill bits for drilling with water, WAI 35 – WAI 80**  
**Ø90 - 254 mm (Ø3.5'' - 10'')**
- **Drill bits for drilling with air, DK 30 – DK 300:**  
**Ø70 - 1 067 mm (Ø2 ¾'' - 42'')**
- **Drill bits of highest quality; standard and at customer's request**
- **Fast designing process and flexibility in manufacturing**
- **Bit shank: IR, SD, QL, QXL, N or other shank of standard design**
- **Front design: Flat, convex, concave or at customer's request**
- **High-quality buttons with chosen geometry, e. g, spherical, double-spherical, parabolic or semi-ballistic**
- **Manufacturing process in accordance with ISO 9001:2008**

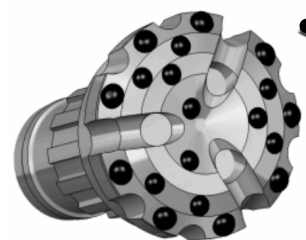




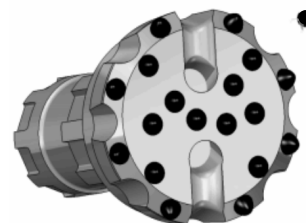
# Drill bits for air DTH hammers and water-propelled hammers - from DrillKing



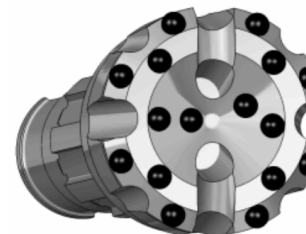
## FRONT DESIGNS



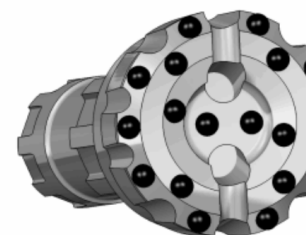
• “CC CRUSHER”



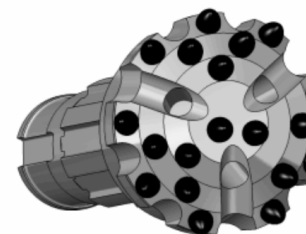
• “FLAT FACE”



• “CONCAVE”



• “DROP CENTER”

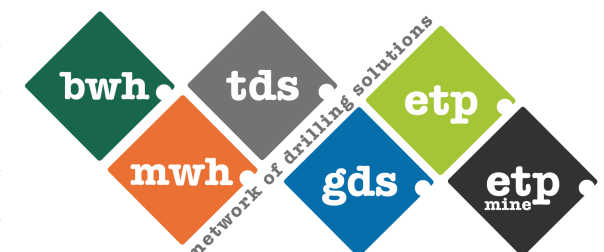


• “CONVEX”



*Concave drill bits resp. reamer bit/hole opener*

	Formation	Hole straightness	Penetration rate
"CC CRUSHER"	Medium to hard	Average	Excellent
"FLAT FACE"	Very hard	Fair	Good
"CONCAVE"	Medium to hard	Very good	-
"DROP CENTER"	Sloping and broke, Medium to hard	Good	Average
"CONVEX"	Medium to hard	Average	Excellent







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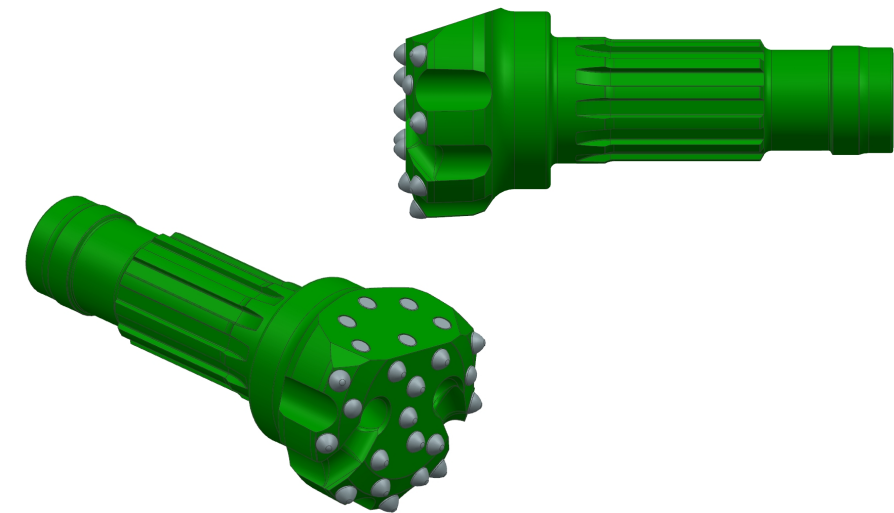
# Special-designed drill bits – Slant bit

- from DrillKing



## Slant bit – drill bits for directional drilling

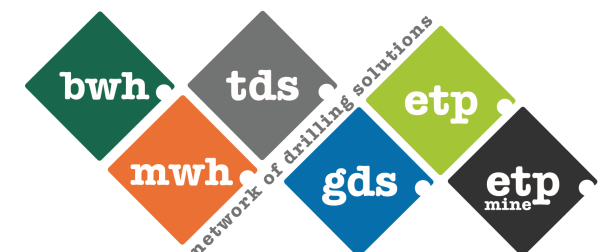
- Ø up to 1 000+ mm (39+’')
- Front design and button design at customer’s request, e. g., buttons in tenacious or brittle material



*Slant bit with bit shank IR DHD340 for water-propelled hammer; parabolic or semi-ballistic buttons*



*115 mm slant bit for air DTH*







# Special-designed drill bits – Reamer bits/Hole openers

- from DrillKing



## Reamer bits/Hole openers

- Ø152-914 mm (6"-36")
- Ø Pilot: At customer's request and based on proven experience
- Specialized in tailor-made reamer bits/hole openers with short delivery time and flexibility in design;
  - Del. time ~2 weeks for Ø150-323 mm (6-13") and ~4 weeks for sizes up to Ø720 mm (28")
- For air DTH and water-propelled hammers



Ø165, Ø224, Ø276 and Ø324 mm reamer bits/hole openers with bit shank DHD350, that were used in the Boliden-Garpenberg mine 2014-16 (Project Case)



Ø864 mm (34") air DTH drill bit

