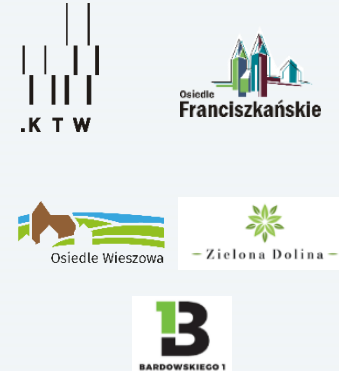


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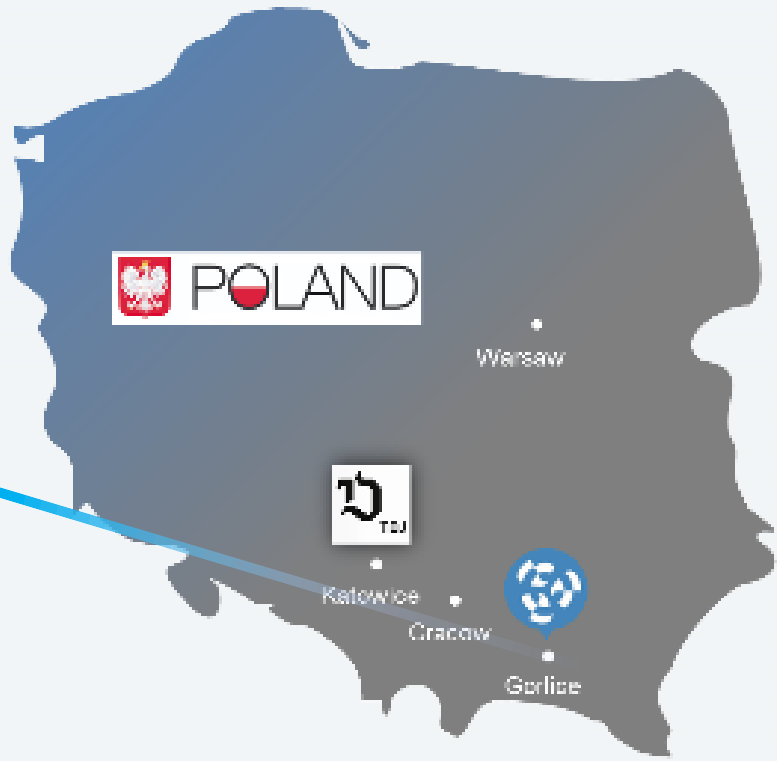


WE ARE PART OF TDJ GROUP

TDJ Investment areas



FACTORY & OFFICE - GORLICE, POLAND



ENERGY | HDD | MINING & MINERALS | HYDROGEOLOGY | GEOTECHNICS



140 YEARS OF EXPERIENCE



1883 – Beginnings

1899 - First drill bit produced

1952 - Serial production of drilling tools

2011 - Integration with TDJ Holding

GLINIK IN NUMBERS

Sales

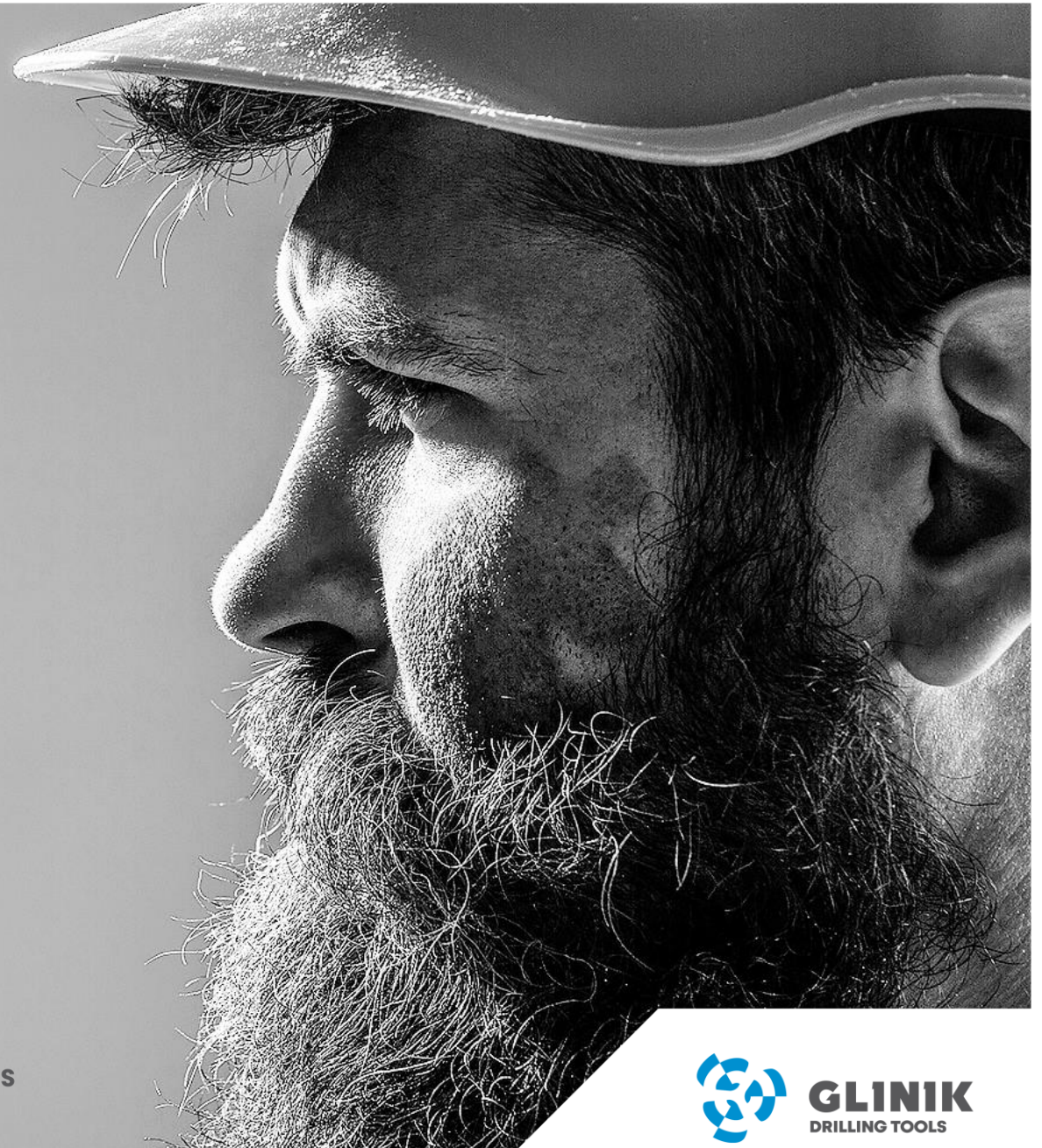
- 50+ Countries globally
- 100+ Active customers
 - 90% export

Team

- +170 ppl (incl. engineering 20+ ppl)

Products

- 3500+ manufactured bits/year
 - 1000+ bits designs

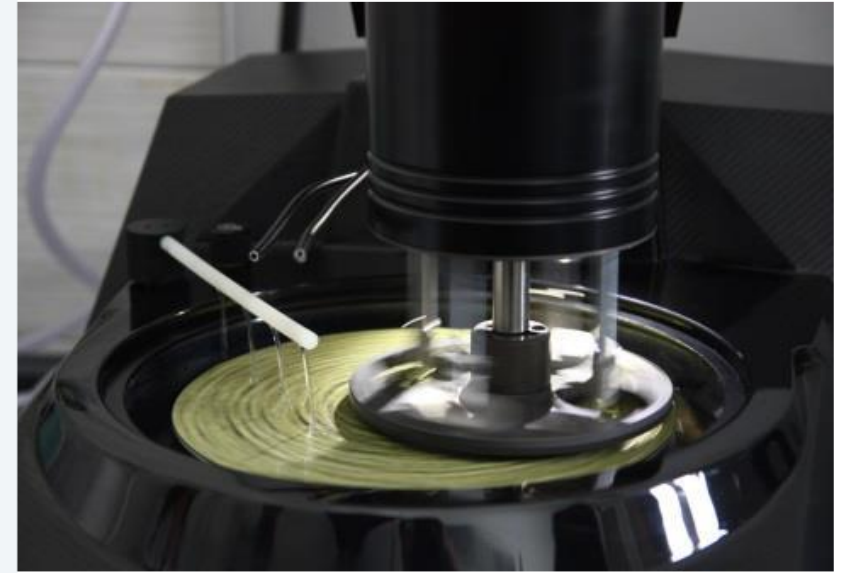
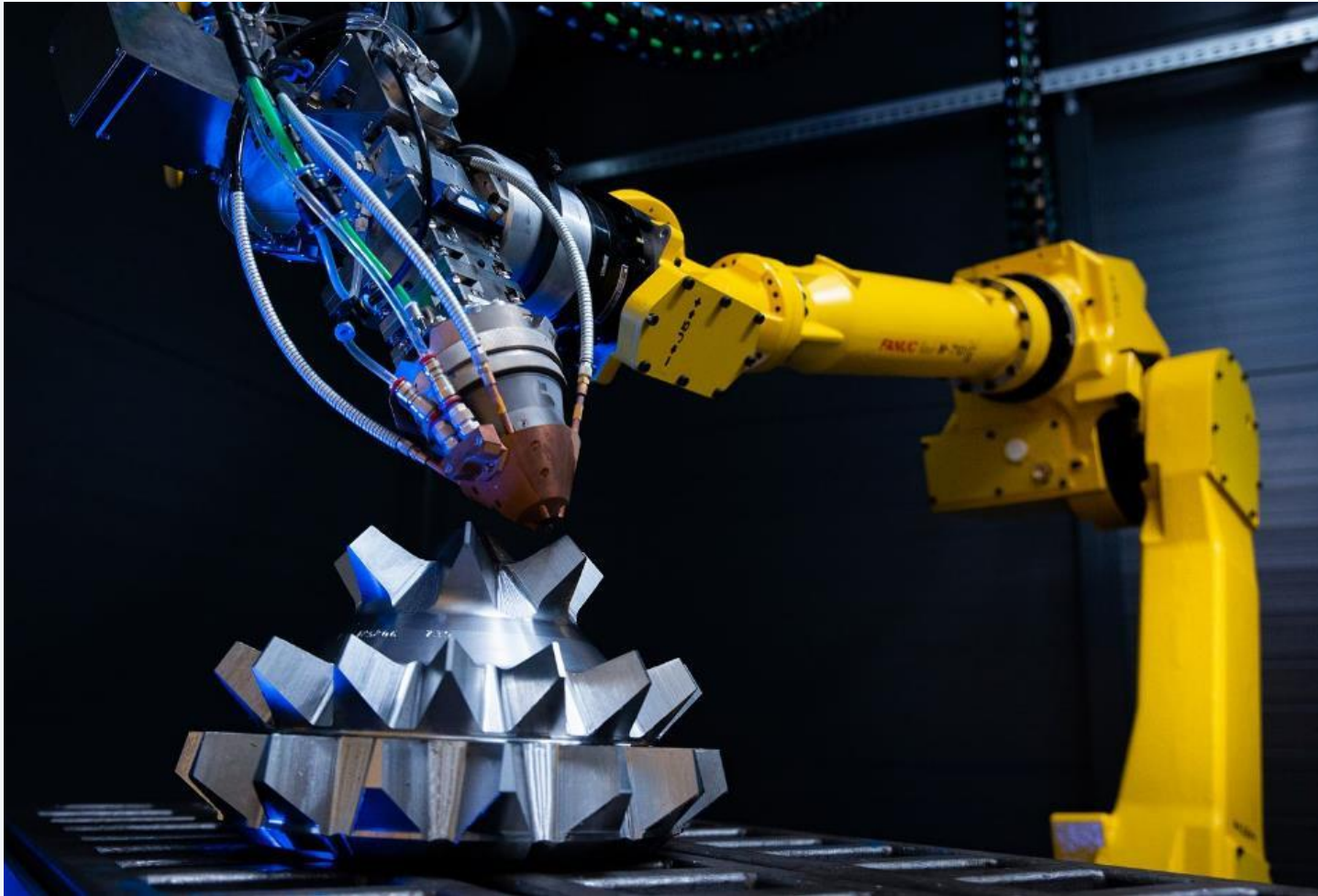


TODAY IS THE FUTURE

- Efficient production processes
- Lean manufacturing layout
- 5S and continuous improvement
- Advanced CNC technologies
- Automatization of production
- Metallographic laboratory
- CMM Measurement
- Control at all stages of production
- Non-destructive testing (NDT)
- Cooperation with trusted entities
- Quality assurance



TODAY IS THE FUTURE



ENERGY | HDD | MINING & MINERALS | HYDROGEOLOGY | GEOTECHNICS



INTERNATIONAL STANDARDS



ISO 9001

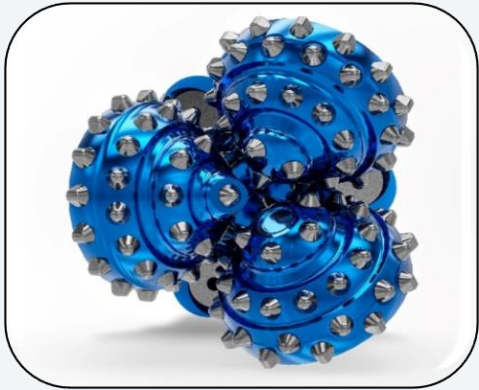


API Spec. 7-1



API Spec. Q1

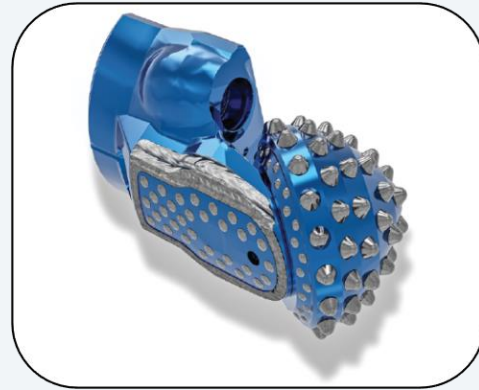
CORE PRODUCTS



ROLLER CONE
BITS



HOLE OPENERS



SETS OF
CUTTERS

ENERGY | HDD | MINING & MINERALS | HYDROGEOLOGY | GEOTECHNICS



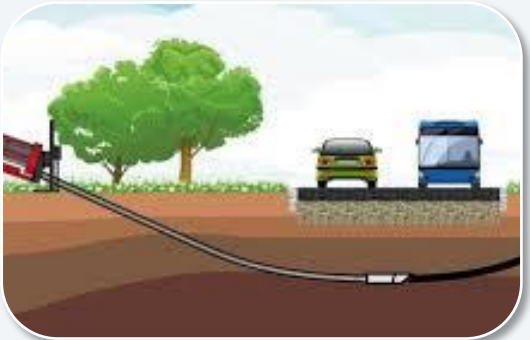
BUSINESS AREAS - PRODUCT APPLICATIONS



Oil & Gas / Geothermal



Mining & Geotechnics



Horizontal Directional Drilling (HDD)



Water Wells



PRODUCT RANGE- TCI & MILLED TOOTH BITS

- TCI & MT roller cone bits
- Sizes available:

TCI bits - 2-3/8" to 28"


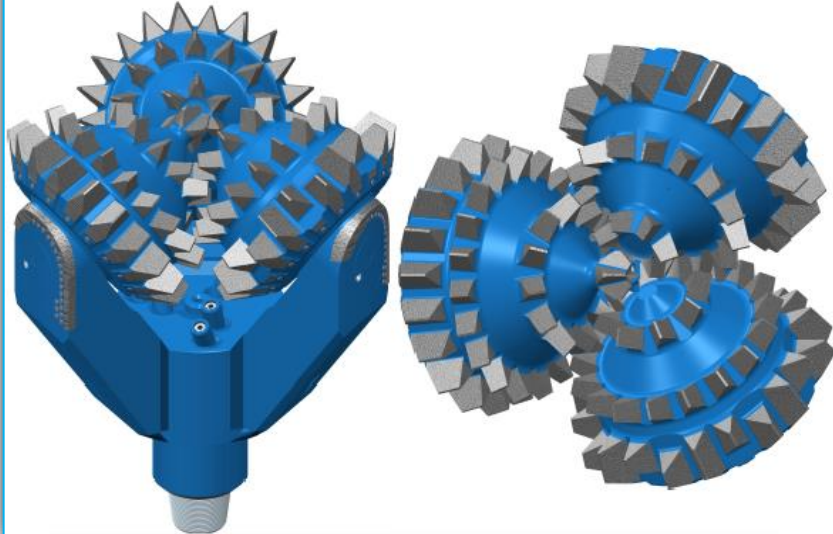
Milled tooth bits - 2-3/8" to 42"

- Cutting structure based on high-quality TCIs or milled teeth adapted to drilled formations
- Premium bearings for optimal performance
- Reliable leg back protection thanks to wear-resistant TC inserts and hardfacing
- Super effective flushing of cutting structure

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LARGE DIAMETER BITS

 <p>GLINIK NIUW Rock Bits</p>	
<p>42" BM1HC IADC Code: 113</p>	
<p><u>RECOMMENDED DRILLING PARAMETERS</u> <small>Operating parameters are typical ranges and may vary depending on ground conditions.</small></p> <p>WOB:.....9000 ÷ 22000 daN/bit 19800 ÷ 48400 lb/bit</p> <p>Bit RPM:.....120 ÷ 40</p> <p>Make Up Torque:.....46000 ÷ 64000 N-m 34000 ÷ 40000 ft-lbs</p>	
<p><u>DESIGN SPECIFICATION</u></p> <p>Bearing Type:.....roller non-sealed</p> <p>Cutting Structure:.....very soft milled teeth</p> <p>Total Rows Count:.....11 Inner / Main Gauge.....8/3</p> <p>Total Tooth Count:.....141 Inner / Main Gauge.....79/62</p> <p>Gauge Types:.....teeth "A"</p> <p>Total Heel Inserts Count:.....62</p> <p>Leg Protection.....shirrtail hardfacing and TC inserts</p> <p>Circulation:.....jet fluid; 3 side jet nozzles + 4 central nozzles (replaceable)</p> <p>Connection:.....pin 7-5/8 Reg</p> <p>Bit Weight:.....~2590 kg</p>	
<p><u>DRILLING APPLICATIONS</u></p> <p>Designed for drilling in very soft formations, unstratified, poorly compacted rocks such as shale clays, clays, poorly compacted clays and sandstones, marl limestones, salts, gypsum, hard coals, iron ores.</p>	
	

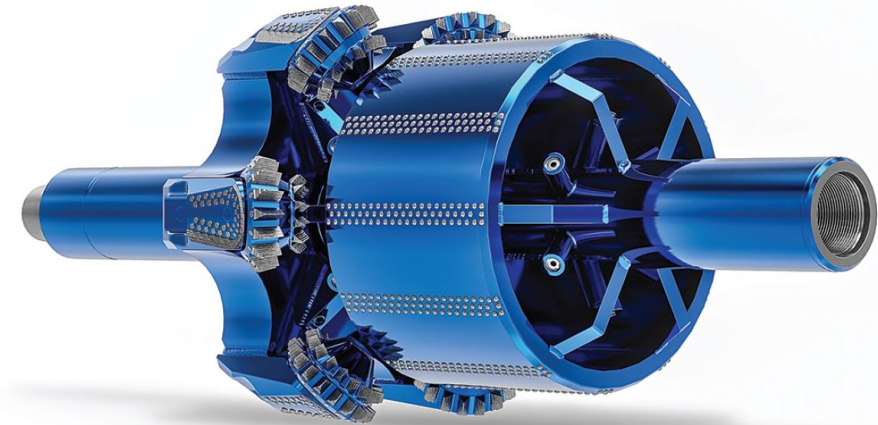


PRODUCT RANGE - HOLE OPENERS

- Sizes available: up to **56"**
- Heavy duty hole openers for high performance reaming
- Suitable for vertical and horizontal drilling
- Providing of maintenance service

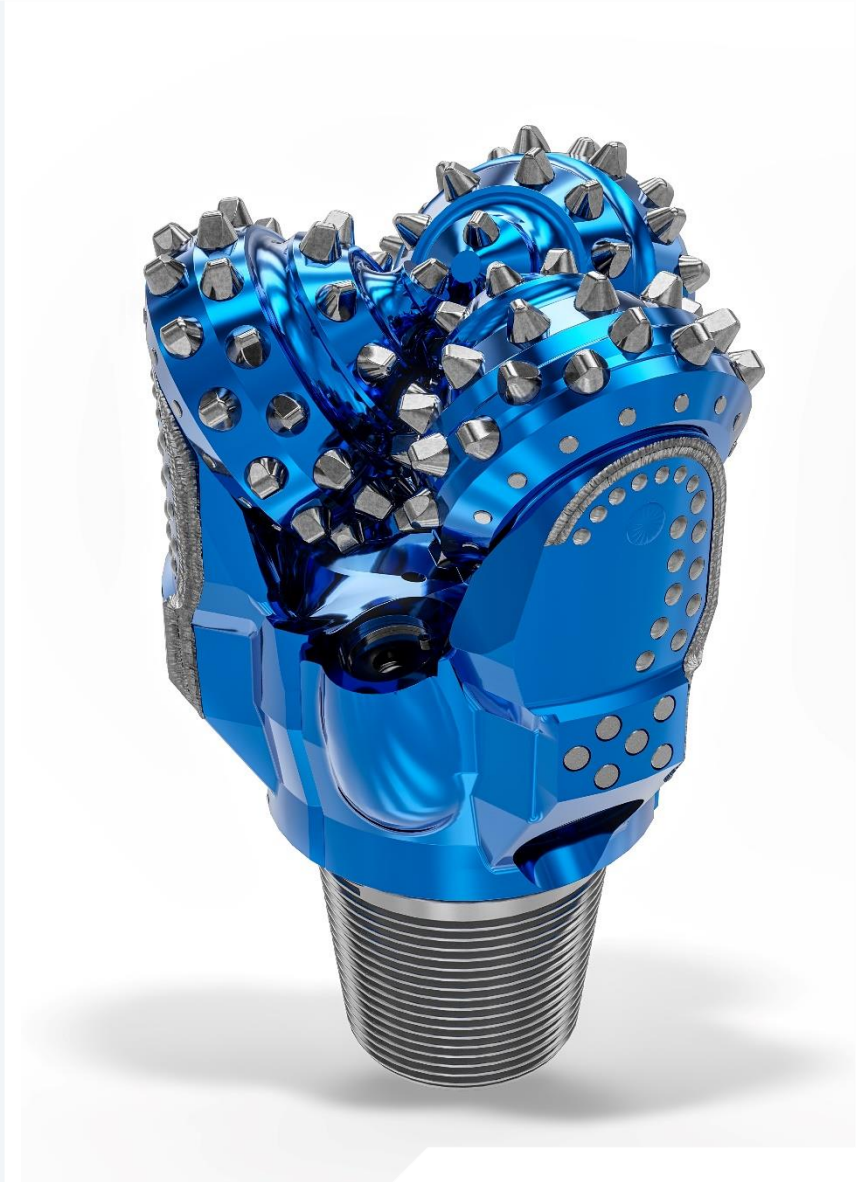
PRODUCT RANGE – SETS OF CUTTERS

- Cones, gauge and leg back protection 100% customised
- Sizes available from 6-1/2" and up
- Perfect solution dedicated to own body structure
- Available in two versions – Milled Tooth and Tungsten Carbide Inserts



GEOHERMAL FOCUS

- **6 years of proven sales record** to geothermal sector in **Costa Rica**
- **Drill bit models used:**
 - 8- ½" IADC 435M, 535M, 315M, 325M
 - 12- ¼" IADC 435M, 535M, 315M, 325M
 - 17- ½" IADC 435M, 535M, 315M, 325M
 - 24" IADC 415M, 315M
- **450+ pcs total** sold between 2015-2020
- **Demanding geological conditions** - volcanic basalt rocks
- **Great bit performance & ZERO claims**
- **Extensive technical support** during choice of equipment acc. to geological conditions
- **Reliable after-sales service** incl. site visits
- **Smooth cooperation** with local partner



PDC BITS

AVAILABLE SOLUTIONS

- PDC bit: 6-1/2" 413SS
- PDC bit: 8-1/2" 516SS
- PDC bit: 12-1/4" 519SI

FEATURES FOR PDC BIT SIZE 12-1/4"

- 5 - blade steel body
- 5 - jet flushing with TC nozzles
- 19 mm cutters
- 16 mm back row cutters
- TCl wear protection
- Pin connection 6-5/8 Reg
- Raw materials origin – EU



2022-08-26

