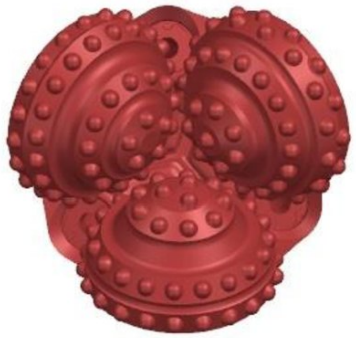
VBM Drill Bits, Inc.

Product Line: TCNP – Techno Pro

142,9 (5 5/8) TCNP725K





TechnoPro bits are designed for drilling water wells, horizontal and directional drilling and construction drilling. The use of a sealed roller bearing, optimum cutting structure and leg body protection provides excellent bit life and superior performance. Applied for drilling in very hard formations.

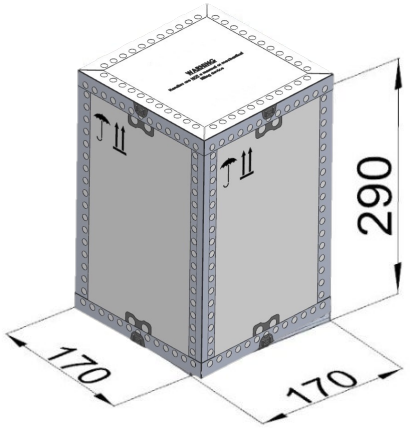
SPECIFICATION

Diameter, mm (in)	142,9 (5 5/8)
IADC	725Y
Seal	O-Ring
Total number of inserts/teeth (inner/outer)	165 (109/56)
Total number of rows of inserts/teeth (inner/outer)	13 (10/3)
Number and diameter of nozzles*	3x(6/32-20/32)"
Thread	Pin 2 7/8 Reg
Weight net/gross, kg	13 / 14,46

DRILLING MODES RECOMMENDED**

Make-up torque, kN·m	6,0-7,5
RPM	280-40
WOB, t (lbs)	6,4-12,9 (14000-28000)

PACKAGE DESIGN



DESIGN FEATURES



Sealed roller bearing with O-ring, rollers in large and small roller race. Provides high performance in a wide range of applications.



Conical and spheroconical shaped TCI are applied for cutting and chipping action, have higher wear-resistance when used in medium-hard, hard and extra hard brittle formations.



TCI on the cones gage are applied to calibrate the wellbore, protect cone body against erosion wear.



To protect leg body and prevent bit wear, shirttail and leading edge are reinforced with TCI and additionally hardfaced.



Side jet circulation is applied.

* Standard specification may be changed on customer request.
** The specified ranges of WOB and RPM represent typical drilling modes, adherence to them will not necessarily result in optimal bit life or minimum drilling costs. It is not recommended to apply both WOB and RPM upper limits at once.
For the purpose of performance improvement, minor changes of the bit design may be introduced without prior customer notification.

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