



# Volgaburmash

## ROLLER CONE DRILL BIT

**406.4 GRDP135 (VU-KNLSD41XEGD)**

Diameter ..... 406.4 mm (16")

IADC ..... 415

Product line ..... GrandPro

GrandPro bits are designed for multiple drilling of upper well sections (surface hole, conductor hole). Sealed bearings, optimum cutting structure and complex body protection provide excellent bit life and performance.

### Specification

Bearing type ..... Roller bearing  
Seal ..... Elastomer seal  
Number of nozzles\* ..... 4  
Thread, API ..... Pin 7 5/8 Reg  
Gross weight, kg ..... 200

### Application

GrandPro bit is applied for drilling of oil and gas wells in soft abrasive formations with water or mud circulation.

### Drilling modes recommended

RPM ..... 300-40  
WOB, t ..... 11-25

### Design features

Combined circulation (Three side jets and one central jet).  
Shirttail and leg leading edge hard facing.  
Extended nozzles.  
Leg protection with TC compacts.  
Chisel inserts.  
Energy balanced cutting structure.  
Single gage TC compacts.

**Quality management system is certified to ISO 9001 and API Specification Q1**

\* Standard specification may be changed on customer request

For the purpose of performance improvement, minor changes of the bit design may be introduced without prior customer notification

VOLGABURMASH, JSC  
Grozenskaya St. 1  
Samara, 443004, Russia

Tel./fax: +7 (846) 300-8000  
e-mail: mail@vbm.ru  
www.vbm.ru