



# Volgaburmash

## ROLLER CONE DRILL BIT

**311.1 MTRP117 (AUM2-KLS11TGP)**

Diameter ..... 311.1 mm (12 1/4")

IADC ..... 117

Product line ..... MotorPro

MotorPro bits with premium sealed journal bearings are designed for drilling with high WOB and RPM using downhole hydraulic motor.

Design of MotorPro bits involves advanced knowledge-intensive technologies and engineering analysis in the state of the art software systems. High bit performance is achieved due to using of high-quality materials, improved reliability bearings, complex body protection and optimum cutting structure layout.

### Specification

Bearing type ..... Journal bearing  
Seal ..... Double elastomer radial type  
Number of nozzles\* ..... 4  
Thread, API ..... Pin 6 5/8 Reg  
Gross weight, kg ..... 94

### Application

MotorPro bit is applied for drilling of oil and gas wells in soft formation with water or mud circulation.

### Drilling modes recommended

RPM ..... 300-40  
WOB, t ..... 8-25

### Design features

Combined circulation ( Three side jets and one central jet)  
Shirttail and leg leading edge hardfacing  
Leg protection with TC compacts  
Enhanced thick teeth hardfacing  
Single gauge of TC compacts  
Near gauge of TCI

**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

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