



## 5 1/2 MC50 T91

|                             |                  |
|-----------------------------|------------------|
| Diameter:                   | 139.7mm (5 1/2") |
| IADC Code:                  | 522CY            |
| Design number:              | T91              |
| State standard designation: | M3-ПН            |

### Specification

|  |                |
|--|----------------|
| Gradient angle of axle journal                 | 33°            |
| Axle journal offset relative to drill bit axis | 0.25 mm        |
| Bearing type                                   | Roller bearing |
| Sealing  | None           |
| Total number of inserts (inner/heel row)       | 92 (57/35)     |
| Total number of insert rows (inner/heel row)   | 11 (8/3)       |
| Number of changeable nozzles                   | 0              |
| Connecting thread                              | 3-76 yk (-)    |
| Drill bit net weight, kg                       | 7.80           |
| Drill bit gross weight, kg                     | 8.60           |

### Purpose

The drill bit is designed for drilling soft abrasive formations

### Recommended Drilling Conditions

|                |                              |
|----------------|------------------------------|
| Rotation speed | 115-60 rpm                   |
| Thrust load    | 2.00-9.00 t (4400-19800 lbs) |

The lower level of rotation speed value corresponds the upper level of thrust load value and vice versa

### Design Features

Central and through the support purge air-water mixture.

The shirttail and leg entering edge are hardfaced with tungsten carbide

tooth on the calibration cone of the cones

