



## ROTARY REAMERS

### MODEL 60 ROTARY REAMER

The Model 60 Rotary Reamer utilizes a simple non-sealed bearing design making it cost-effective to run in many applications. It is available in a broad range of hole sizes from 5.7/8 inches to 35.7/8 inches and has a choice of two cutter designs. The Model 62 has a large bore feature available only on tools from 6 1/2 inch to 8 3/4 inch hole size.

Both models come in three- and six-Point reamers for bottom hole and string placement.

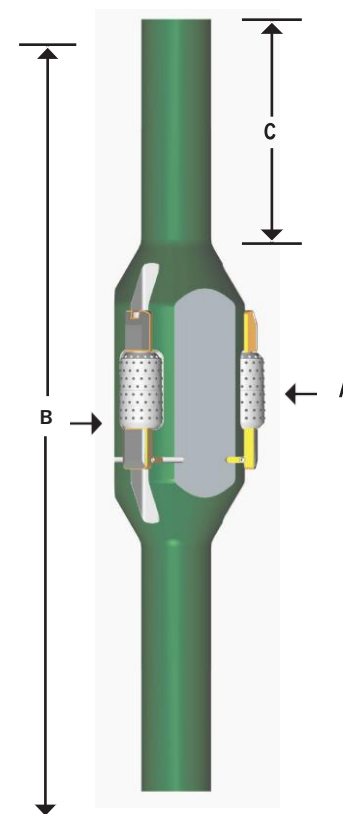
Cutters are retained using a simple but effective design that ensures the cutter assembly can stand up to the harshest drilling conditions.

### FEATURES AND BENEFITS

- Large diameter, carburized and hardened pins serve as robust Abrasion-resistant bearing sections.
- True rolling reamer cutters have two cutting structure options
- The **"Type Q"** cutter achieves maximum reaming action in medium to hard formations where crushing action against the formation is preferred.
- The **"Type K"** cutters use Tungsten Carbide inserts to fracture the rock and are recommended for use in hard formations.

### APPLICATIONS

- The Model 60 Rotary Reamer has multiple cutting structure options to suit variable formation conditions
- Renowned for its reliability, rig site serviceability, and a reputation for maintaining hole gauge in extreme high temperature hole conditions.



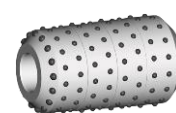
See Tool Dimensions over page

#### Q Type



Medium Formation

#### K Type



Hard Formation

### ORDERING INSTRUCTIONS, PLEASE SPECIFY:

- Three-point or six-point
- Bottomhole or string reamer
- Hole size
- Drill collar OD
- Type of cutters to be installed in the reamer
- Size, type and location of the connection. Example: 4 1/2" IF box up x 4 1/2" IF pin down
- Cast or pressed steel thread protectors



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| Hole Size          | Cutter Size | Bearing Pin Size | Bearing Block ID Size and Type | Reamer Bodies Complete (String or Near Bit) |           |                   |       |                | Reamer RPM Guidelines |             |             |            |
|--------------------|-------------|------------------|--------------------------------|---|-----------|-------------------|-------|----------------|-----------------------|-------------|-------------|------------|
|                    |             |                  |                                | Max Body Dia. (A)                           | Body Bore | Three/ Four point |       |                | Reamer Hole Size      | Cutter Size | String Krev | String RPM |
|                    |             |                  |                                |   |           | (B)               | (C)   | Wt. w/ Cutters |                       |             |             |            |
| (In.)              | (In.)       | (In.)            | (In.)                          | (In.)                                       | (In.)     | (In.)             | (In.) | (lbs.)         | (In.)                 | (In.)       | Krev        | rpm        |
| 5.7/8              | 2           | 1                | 1C                             | 5   | 1         | 80                | 32.2  | 330            | 5.7/8                 | 2           | 1800        | 129        |
| 6                  | 2           | 1                | 1A                             | 5.1/2                                       | 1.1/4     | 80                | 32.2  | 360            | 6                     | 2           | 1800        | 133        |
| 6.1/8              | 2           | 1                | 1B                             |   |           |                   |       |                | 6.1/8                 | 2           | 1800        | 131        |
| 8.3/8              | 2.5/8       | 1.3/8            | 1.3/8 A                        | 7.3/4                                       | 1.7/8     | 90                | 37.4  | 675            | 8.3/8                 | 2.625       | 1800        | 125        |
| 8.1/2              | 2.3/4       | 1.3/8            | 1.3/8 A                        |   |           |                   |       |                | 8.1/2                 | 2.75        | 1800        | 123        |
| 12                 | 4           | 2.1/4            | 2.1/4 C                        | 10.1/2                                      | 2.13/26   | 112               | 48    | 1088           | 12                    | 4           | 1800        | 133        |
| 12.1/4             | 4           | 2.1/4            | 2.1/4 E                        |   |           |                   |       |                | 12.1/4                | 4           | 1800        | 131        |
| 16                 | 5.1/2       | 2.1/2            | 2.1/2 A                        | z14   | 2.13/16   | 112               | 44.2  | 1705           | 16                    | 5.5         | 1800        | 138        |
| 17                 | 5.1/2       | 2.1/2            | 2.1/2 I                        |   |           |                   |       |                | 17                    | 5.5         | 1800        | 129        |
| 17.1/2             | 5.1/2       | 2.1/2            | 2.1/2 E                        | 15  | 3         | 112               | 43.3  | 2300           | 17.1/2                | 5.5         | 1800        | 126        |
| 22                 | 7           | 3                | 3A                             | 20  | 3         | 116               | 37.6  | 3900           | 22                    | 7           | 1800        | 127        |
| 26                 | 7           | 3                | 3C                             | 22  |           |                   |       |                | 26                    | 7           | 1800        | 108        |
| 28                 | 7           | 3                | 3E                             | 25  | 3         | 123               | 38    | 4500           | 28                    | 7           | 1800        | 100        |
| 31.7/8<br>(4Point) | 7           | 3                | 3A                             | 30  | 3         | 130               | 39.2  | 7600           | 31.7/8                | 7           | 1800        | 82         |
| 33.7/8<br>(4Point) | 7           | 3                | 3C                             | 30  | 3         | 130               | 39.2  | 7600           | 33.7/8                | 7           | 1800        | 82         |
| 35.7/8<br>(4Point) | 7           | 3                | 3E                             | 30  | 3         | 130               | 39.2  | 7600           | 35.7/8                | 7           | 1800        | 78         |



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### M60 - REAMER SERVICE FACILITIES

Our machine shop in Saudi Arabia provides an OEM Roller Reamer Service, Repair & Inspection facility in support of our valued customers who utilize our reamer product lines. In addition we maintain a comprehensive stocking program of reamer cutter consumables.

- Service Inspection & Redressing
- Pocket Repair and tool rework service
- NDT Inspection and dimensional tolerance Inspections
- Gauge Protection application and repair

| Model 60 Type | Size    | Rotating Hour Service Guidelines |                                      |                                  | Guideline  |
|---------------|---------|----------------------------------|--------------------------------------|----------------------------------|--|
|               |         | Pockets Dlm/<br>Insp Run Hrs.    | Connection<br>Inspection Run<br>Hrs. | Full Body Inspection<br>Run Hrs. | Recommended Service<br>Life. (Under normal<br>drilling conditions) |
| 3 Point       | 5.875"  | 200                              | 200-250                              | 200-250                          | 18-24 Months   |
| 3 Point       | 6.125"  | 200                              | 200-250                              | 200-250                          | 18-24 Months   |
| 3 Point       | 8.375"  | 200                              | 200-250                              | 200-250                          | 24-30 Months   |
| 3 Point       | 12.250" | 250                              | 250-300                              | 250-300                          | 36-42 Months   |
| 3 Point       | 16.000" | 300                              | 250-300                              | 250-300                          | 36-60 Months   |
| 3 Point       | 22.000" | 300                              | 250-300                              | 250-300                          | 36-60 Months   |
| 3 Point       | 28.000" | 300                              | 250-300                              | 250-300                          | 36-60 Months   |
| 4 Point       | 31.875" | 300                              | 250-300                              | 250-300                          | 36-60 Months   |
| 4 Point       | 33.875" | 300                              | 250-300                              | 250-300                          | 36-60 Months   |
| 4 Point       | 35.875" | 300                              | 250-300                              | 250-300                          | 36-60 Months   |