

# Rack & Pinion Systems **Cobra**

## Pedestal

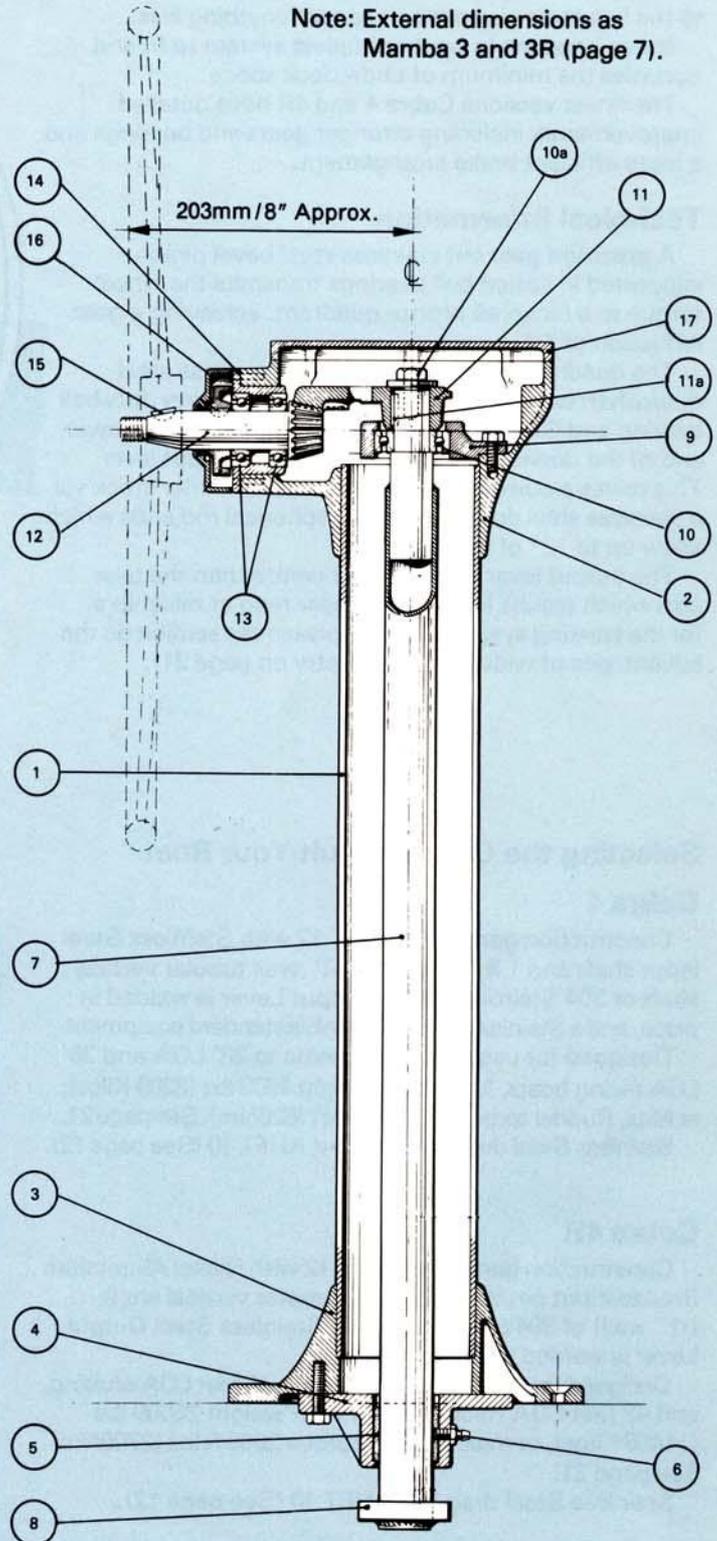
### Pedestal Construction

The two types of Cobra pedestal, Cobra 4 & 4R employ the same basic construction. The head and foot are diecast in marine grade LM6 Aluminium and the tube is of extruded Aluminium grade HE 30.

The precision bevel geared pinion and quadrant mounted within the head are of Stainless Steel type 316 and Nickel Aluminium Bronze, with the verticle shaft of solid and tubular Stainless Steel - the differences are fully explained in the appropriate text. The input (wheel shaft) is carried in substantial ball races, while the quadrant is carried by a precision Ball Bearing below. The down shaft rotates in a massive bearing at its lower end with a grease point. See Fig. 12.

The pedestal is pretreated with ICI's Alochrome process, and painted with electrostatically applied Polyester Resin and stoved to a beautiful and durable finish.

Note: External dimensions as Mamba 3 and 3R (page 7).



### KEY OF PARTS

- 1 TUBE ASSEMBLY
- 2 TOP BOWL CASTING
- 3 FOOT CASTING
- 4 LOWER BEARING MOUNTING (6158 COBRA 4)
- 5 LOWER BEARING MOUNTING (7158 COBRA 4R)
- 6 LOWER BEARING (6160 COBRA 4)
- 7 LOWER BEARING (7160 COBRA 4R)
- 8 GREASE NIPPLE
- 9 TORQUE TUBE (6170 COBRA 4)
- 10 TORQUE TUBE (7170 COBRA 4R)
- 11 OUTPUT LEVER
- 12 TOP BEARING MOUNTING (6172 COBRA 4)
- 13 TOP BEARING MOUNTING (7172 COBRA 4R)
- 14 SHAFT MAIN BEARING (6173 COBRA 4)
- 15 SHAFT MAIN BEARING (7173 COBRA 4R)
- 16 QUADRANT LOCATING BOLT & WASHER
- 17 QUADRANT GEAR (6173 COBRA 4)
- 10a QUADRANT GEAR (7173 COBRA 4R)
- 11a FEATHER KEY (QUADRANT)
- 12 PINION & SHAFT
- 13 PINION BEARINGS
- 14 INPUT CARTRIDGE
- 15 WOODRUFF KEY (WHEEL)
- 16 BRAKE ASSY
- 17 TOP COVER

Fig. 12 Section through pedestal assembly.