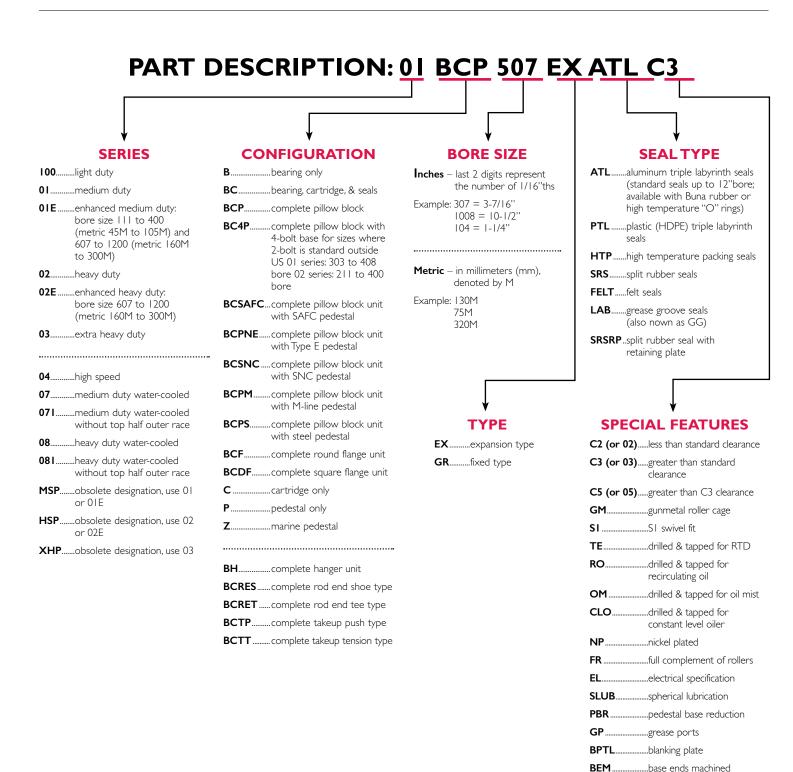
OVERVIEW OF COOPER NOMENCLATURE



When a bearing reaches the end of its working life, it doesn't have to be discarded without providing further value. Three options for dealing with end-of-life bearings are outlined below.

RECONDITIONING

Cooper offers a reconditioning service for larger bearings. A used bearing is thoroughly cleaned and a detailed report prepared on its condition and the required work required to bring it back to an as-new functional condition. Generally a reconditioned bearing will consist of a combination of remachined components of the original bearing and new components to give the correct clearances.

Reconditioning is generally more economical than manufacture of new bearings, depending upon the amount of work required to the subject bearing, for the following bearings:

01 Series: 13"/320mm bore size and over
02 Series: 13"/320mm bore size and over
03 Series: 61/2"/160mm bore size and over

04 Series: all sizes **Thrust bearings:** all sizes

Cooper is also able to recondition radial and thrust cylindrical bearings of non-Cooper manufacture.

FAILURE ANALYSIS

Cooper offers a failure analysis service for all sizes of bearing, of any age. Where appropriate, we will offer advice on fitting practices, lubrication regime, or modifications to the mounting arrangements to help improve future bearing life.

Bearings sent for analysis may be reconditioned, recycled or returned as appropriate.

Please inform Cooper if you wish to use this service, before returning bearings to one of our sites. A small charge may be made depending on requirements.

RECYCLING

The materials used in a Cooper bearing unit are almost completely recyclable. The diagram below helps to identify the various materials used in standard and popular optional versions of Cooper bearings so that they can be segregated as required.

OUTER HOUSING

Gray iron or ductile iron as standard. Cast steel housings will usually have the letter 'S' inserted into their reference compared to the standard units listed in this catalog (e.g. "PS07" **CLAMPING RINGS** instead of "P07" or "FS07" instead of "F07"). Fabricated housings are usually mild steel Low or medium carbon steel **SCREWS** High tensile steel CAGE 100 Series: polyamide 01E Series up to 4"/105mm bore size: medium carbon steel CARTRIDGE 01,02 & 03 Series: die cast or machined aluminum alloy as standard. Copper based alloys and zinc optional Gray iron as standard 01E & 02E Series over 4"/105mm bore size: Brass **ROLLERS, OUTER RACE & INNER RACE** High carbon chromium bearing steel