



## COOPER Split cylindrical roller bearing Series: 02

The Cooper Split Roller Bearing uses cylindrical rollers and components made in halves. Assembly of these halves around the shaft eliminates removal of couplings, gearboxes, pulleys etc, and simplifies shaft design. Cylindrical rollers allow unrestricted shaft expansion within the 'EX' bearing and can accommodate moderate axial loads with the 'GR' bearing.

### FIXED TYPE BEARINGS (GR)

The outer race of the fixed (GR) bearing has shoulders integral with the roller track, while the inner race assembly has shoulders formed by hardened lips on the clamping rings or similar integral shoulders. This type of bearing provides axial location to the rotating portions of machinery and can sustain both radial and axial loading. The inner race halves are accurately aligned by means of fitted clamping rings.

### EXPANSION TYPE BEARINGS (EX)

The expansion (EX) bearing has a plain outer race roller track. This bearing takes radial load only. The inner race is clamped to the shaft, and moves axially with it when expansion or contraction occurs. The Cooper expansion bearing offers virtually no resistance to axial movement as the rollers spiral through the outer race.

### Characteristics

**Series:** 02

**Type:** B

| Manufacturer ID | Shaft diameter<br>mm | Shaft diameter<br>in | Outer diameter<br>mm | Width<br>mm | Outer ring<br>width<br>mm | Bearing type   | Internal<br>clearance | Article  |
|-----------------|----------------------|----------------------|----------------------|-------------|---------------------------|----------------|-----------------------|----------|
| 02B404EX        |                      | 4.1/4                | 228.6                | 100         |                           | Expansion Type | CN [normal]           | 13379787 |
| 02B404GR        |                      | 4.1/4                | 228.6                | 100         |                           | Retained Type  | CN [normal]           | 13379788 |
| 02B415EX02      |                      | 4.15/16              | 254                  | 114.3       | 63.5                      | Expansion Type | C2                    | 13380391 |
| 02B415GR02      |                      | 4.15/16              | 254                  | 114.3       | 63.5                      | Retained Type  | C2                    | 13380390 |
| 02B504EX03      |                      | 5.1/4                | 273.05               | 117.5       |                           | Expansion Type | C3                    | 13379807 |
| 02B504GR03      |                      | 5.1/4                | 273.05               | 117.5       |                           | Retained Type  | C3                    | 13379809 |
| 02B504GR        |                      | 5.1/4                | 273.05               | 117.5       |                           | Retained Type  | CN [normal]           | 13379808 |
| 02B1300EX       |                      | 13                   | 527.05               | 192         | 106.4                     | Expansion Type | CN [normal]           | 13379718 |
| 02B1600EX       |                      | 16                   | 615.95               | 200         | 115.9                     | Expansion Type | CN [normal]           | 13379735 |
| 02B55MEX        | 55                   |                      |                      |             |                           | Expansion Type | CN [normal]           | 13380527 |
| 02B55MGR        | 55                   |                      |                      |             |                           | Retained Type  | CN [normal]           | 13379821 |
| 02B90MGR03      | 90                   |                      | 169.86               | 89.7        | 48.4                      | Retained Type  | C3                    | 13379838 |
| 02B95MEX        | 95                   |                      |                      |             |                           | Expansion Type | CN [normal]           | 13379839 |
| 02B120MEX03     | 120                  |                      | 254                  | 114.3       | 63.5                      | Expansion Type | C3                    | 13379712 |
| 02B120MGR03     | 120                  |                      | 254                  | 114.3       | 63.5                      | Retained Type  | C3                    | 13379714 |
| 02B130MEX03     | 130                  |                      | 254                  | 114.3       | 63.5                      | Expansion Type | C3                    | 13379721 |
| 02B130MGR03     | 130                  |                      | 254                  | 114.3       | 63.5                      | Retained Type  | C3                    | 13379723 |
| 02B155MGR02     | 155                  |                      | 292.1                | 123.8       | 68.3                      | Retained Type  | C2                    | 13379734 |
| 02B360MEX02     | 360                  |                      | 565.15               | 200         | 115.9                     | Expansion Type | C2                    | 13379777 |
| 02B400MEX       | 400                  |                      | 615.95               | 200         | 115.9                     | Expansion Type | CN [normal]           | 13379784 |
| 02B460MEX       | 460                  |                      | 666.75               | 200         | 115.9                     | Expansion Type | CN [normal]           | 13379799 |
| 02B500MEX       | 500                  |                      | 717.55               | 226         | 115.9                     | Expansion Type | CN [normal]           | 13379802 |
| 02B500MGR       | 500                  |                      | 717.55               | 226         | 115.9                     | Retained Type  | CN [normal]           | 13379803 |

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