

# LMB...UU..AJ Series

|          |                        | Resin retainer |                |        |             |                |                           |     |       |                                |               | Major dimensions and tolerance |          |            |                       |                       |                      |                    |                      |               |           | Eccentricity                |             | Radial clearance |                    | Basic lead |              |            |             |          |          |          |           |      |      |
|----------|------------------------|----------------|----------------|--------|-------------|----------------|---------------------------|-----|-------|--------------------------------|---------------|--------------------------------|----------|------------|-----------------------|-----------------------|----------------------|--------------------|----------------------|---------------|-----------|-----------------------------|-------------|------------------|--------------------|------------|--------------|------------|-------------|----------|----------|----------|-----------|------|------|
| LMB...UU | Trough<br>circum<br>Kg | LMB...UU-AJ    | Ball<br>circum | Weight | LMB...UU-OP | Ball<br>circum | Nominal shaft<br>diameter |     |       | Major dimensions and tolerance |               |                                |          |            |                       |                       |                      |                    |                      | Precision     | High      | Radial<br>clearance<br>(µm) | Dynamic     | Static           |                    |            |              |            |             |          |          |          |           |      |      |
|          |                        |                |                |        |             |                | Inch                      | mm  | mm    | Precision(Inch)                | Precision(µm) | High(Inch)                     | High(µm) | D(Inch/mm) | D Tolerance<br>(µm/%) | D Tolerance<br>(µm/%) | L<br>Tolerance(Inch) | L<br>Tolerance(µm) | B<br>Tolerance(Inch) |               |           |                             |             |                  | B<br>Tolerance(µm) | W(Inch/mm) | D1(Inch/mm)  | h(Inch/mm) | h(Inch/mm)  | θ        |          |          |           |      |      |
| LMB4     | 4                      | 8              | LMB4-AJ        | 4      | 7.5         | —              | —                         | 1/4 | 6.35  | 6.35                           | 0.0025        | 0/6                            | 0.00040  | 0/9        | 500012.700            | 0.00045               | 0/11                 | 750019.050         | 0.008                | 0/200         | 511012.98 | 0.008                       | 0/200       | 03900.992        | 468701.906         | 0/41       | —            | —          | 0.003/8     | 0.005/12 | -0.001/3 | 206      | 265       |      |      |
| LMB8UU   | 4                      | 14             | LMB8UU-AJ      | 4      | 13.5        | —              | —                         | 3/8 | 9.525 | 9.525                          | 0.0025        | 0/6                            | 0.00040  | 0/9        | 425011.875            | 0.00050               | 0/13                 | 875022.225         | 0.008                | 0/200         | 435016.15 | 0.008                       | 0/200       | 03900.992        | 588004.935         | 0/41       | —            | —          | 0.003/8     | 0.005/12 | -0.001/3 | 225      | 314       |      |      |
| LMB8UU   | 4                      | 37             | LMB8UU-AJ      | 4      | 36.5        | LMB8UU-OP      | 3                         | 28  | 1/2   | 12.7                           | 0.5           | 12.7                           | 0.0025   | 0/6        | 0.00040               | 0/9                   | 875021.225           | 0.00050            | 0/13                 | 1.250031.750  | 0.008     | 0/200                       | 062504.46   | 0.008            | 0/200              | 04901.168  | 820920.853   | 0/61.5     | 347/9375    | 80°      | 0.003/8  | 0.005/12 | -0.001/3  | 510  | 784  |
| LMB10UU  | 4                      | 76             | LMB10UU-AJ     | 4      | 74          | LMB10UU-OP     | 3                         | 57  | 5/8   | 15.875                         | 0.625         | 15.875                         | 0.0025   | 0/6        | 0.00040               | 0/9                   | 1.125028.575         | 0.00050            | 0/13                 | 1.500038.100  | 0.008     | 0/200                       | 1.103028.04 | 0.008            | 0/200              | 05501.422  | 1.059020.889 | 0/61.5     | 375/9325    | 80°      | 0.003/8  | 0.005/12 | -0.001/3  | 774  | 1180 |
| LMB12UU  | 5                      | 95             | LMB12UU-AJ     | 5      | 93          | LMB12UU-OP     | 4                         | 76  | 3/4   | 19.05                          | 0.75          | 19.05                          | 0.0030   | 0/7        | 0.00040               | 0/10                  | 31.7505.2500         | 0.00065            | 0/16                 | 1.625041.275  | 0.008     | 0/200                       | 1.165729.61 | 0.008            | 0/200              | 05501.422  | 1.176029.870 | 0/61.5     | 4375/111125 | 60°      | 0.004/10 | 0.006/15 | -0.002/4  | 862  | 1370 |
| LMB16UU  | 6                      | 200            | LMB16UU-AJ     | 6      | 198         | LMB16UU-OP     | 5                         | 170 | 1     | 25.4                           | 1             | 25.4                           | 0.0030   | 0/7        | 0.00040               | 0/10                  | 39.6885.5625         | 0.00065            | 0/16                 | 2.350057.150  | 0.012     | 0/300                       | 1.754744.57 | 0.012            | 0/300              | 06701.727  | 1.468737.306 | 0/61.5     | 5625/142875 | 50°      | 0.004/10 | 0.006/15 | -0.002/4  | 980  | 1570 |
| LMB20UU  | 6                      | 440            | LMB20UU-AJ     | 6      | 430         | LMB20UU-OP     | 5                         | 370 | 1-1/4 | 31.75                          | 1.25          | 31.75                          | 0.0035   | 0/8        | 0.00050               | 0/12                  | 50.8002.0000         | 0.00075            | 0/19                 | 2.625066.675  | 0.012     | 0/300                       | 2.004750.92 | 0.012            | 0/300              | 06701.727  | 1.885047.904 | 1/02.5     | 625/15875   | 50°      | 0.005/12 | 0.008/20 | -0.003/8  | 1570 | 2740 |
| LMB24UU  | 6                      | 670            | LMB24UU-AJ     | 6      | 660         | LMB24UU-OP     | 5                         | 570 | 1-1/2 | 38.1                           | 1.5           | 38.1                           | 0.0035   | 0/8        | 0.00050               | 0/12                  | 60.3525.3750         | 0.00075            | 0/19                 | 3.000076.200  | 0.012     | 0/300                       | 2.411861.26 | 0.012            | 0/300              | 08502.184  | 2.238956.870 | 1/23       | .75/19.05   | 50°      | 0.005/12 | 0.008/20 | -0.003/8  | 2180 | 4020 |
| LMB32UU  | 6                      | 1140           | LMB32UU-AJ     | 1120   | 1           | LMB32UU-OP     | 5                         | 980 | 2     | 50.8                           | 2             | 50.8                           | 0.0035   | 0/8        | 0.00050               | 0/12                  | 76.2005.0000         | 0.00090            | 0/22                 | 4.0000101.600 | 0.012     | 0/300                       | 3.191781.07 | 0.012            | 0/300              | 10202.616  | 2.837972.065 | 1/23       | 1.0/25.40   | 50°      | 0.007/17 | 0.010/25 | -0.005/13 | 3820 | 7940 |