



C133

Our Series C133 can be supplied with an integrated Spacer Ring – sold separately – for applications with very narrow drive elements, such as the A-plate sprocket shown.

## SERIES C133 LOCKING ASSEMBLY

CLIMAX Series C133 connects a lever arm onto plain shafting. KLDs provide infinite radial and axial positioning capabilities for component timing, belt or chain alignment, setting gear tooth backlash, etc.

### Metric

| CLIMAX Part No. | Shaft Size (mm) | d      | D      | D <sub>1</sub> | L     | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | M <sub>t</sub> (ft.-lbs) | F <sub>ax</sub> (lbs.F) | P <sub>s</sub> (psi) | P <sub>h</sub> (psi) | D <sub>n</sub> * | Locking Screws |          |                          |
|-----------------|-----------------|--------|--------|----------------|-------|----------------|----------------|----------------|--------------------------|-------------------------|----------------------|----------------------|------------------|----------------|----------|--------------------------|
|                 |                 |        |        |                |       |                |                |                |                          |                         |                      |                      |                  | Qty.           | Size     | M <sub>a</sub> (ft.-lbs) |
| C133M-14X28     | 14              | 0.551  | 1.102  | 1.260          | 0.551 | 0.669          | 0.807          | 0.965          | 50                       | 2,191                   | 19,127               | 9,564                | 1.368            | 4              | M4 x 12  | 3.7                      |
| C133M-15X28     | 15              | 0.591  | 1.102  | 1.260          | 0.551 | 0.669          | 0.807          | 0.965          | 54                       | 2,191                   | 17,852               | 9,564                | 1.368            | 4              | M4 x 12  | 3.7                      |
| C133M-16X32     | 16              | 0.630  | 1.260  | 1.457          | 0.551 | 0.709          | 0.846          | 1.004          | 57                       | 2,191                   | 16,736               | 8,368                | 1.521            | 4              | M4 x 12  | 3.7                      |
| C133M-18X47     | 18              | 0.709  | 1.850  | 2.047          | 0.669 | 0.886          | 1.122          | 1.358          | 185                      | 6,265                   | 35,037               | 13,418               | 2.517            | 5              | M6 x 20  | 13                       |
| C133M-19X47     | 19              | 0.748  | 1.850  | 2.047          | 0.669 | 0.886          | 1.122          | 1.358          | 195                      | 6,265                   | 33,193               | 13,418               | 2.517            | 5              | M6 x 20  | 13                       |
| C133M-20X47     | 20              | 0.787  | 1.850  | 2.047          | 0.669 | 0.886          | 1.122          | 1.358          | 206                      | 6,265                   | 31,533               | 13,418               | 2.517            | 5              | M6 x 20  | 13                       |
| C133M-22X47     | 22              | 0.866  | 1.850  | 2.047          | 0.669 | 0.886          | 1.122          | 1.358          | 226                      | 6,265                   | 28,667               | 13,418               | 2.517            | 5              | M6 x 20  | 13                       |
| C133M-24X50     | 24              | 0.945  | 1.969  | 2.224          | 0.669 | 0.886          | 1.122          | 1.358          | 296                      | 7,518                   | 31,533               | 15,136               | 2.793            | 6              | M6 x 20  | 13                       |
| C133M-25X50     | 25              | 0.984  | 1.969  | 2.224          | 0.669 | 0.886          | 1.122          | 1.358          | 308                      | 7,518                   | 30,272               | 15,136               | 2.793            | 6              | M6 x 20  | 13                       |
| C133M-28X55     | 28              | 1.102  | 2.165  | 2.421          | 0.669 | 0.886          | 1.122          | 1.358          | 345                      | 7,518                   | 27,028               | 13,760               | 2.970            | 6              | M6 x 20  | 13                       |
| C133M-30X55     | 30              | 1.181  | 2.165  | 2.421          | 0.669 | 0.886          | 1.122          | 1.358          | 370                      | 7,518                   | 25,227               | 13,760               | 2.970            | 6              | M6 x 20  | 13                       |
| C133M-32X60     | 32              | 1.260  | 2.362  | 2.618          | 0.669 | 0.886          | 1.122          | 1.358          | 526                      | 10,024                  | 31,533               | 16,818               | 3.499            | 8              | M6 x 20  | 13                       |
| C133M-35X60     | 35              | 1.378  | 2.362  | 2.618          | 0.669 | 0.886          | 1.122          | 1.358          | 576                      | 10,024                  | 28,830               | 16,818               | 3.499            | 8              | M6 x 20  | 13                       |
| C133M-38X65     | 38              | 1.496  | 2.559  | 2.815          | 0.669 | 0.886          | 1.122          | 1.358          | 625                      | 10,024                  | 26,554               | 15,524               | 3.667            | 8              | M6 x 20  | 13                       |
| C133M-40X65     | 40              | 1.575  | 2.559  | 2.815          | 0.669 | 0.886          | 1.122          | 1.358          | 658                      | 10,024                  | 25,227               | 15,524               | 3.667            | 8              | M6 x 20  | 13                       |
| C133M-42X75     | 42              | 1.654  | 2.953  | 3.287          | 0.787 | 1.043          | 1.358          | 1.673          | 1,117                    | 16,206                  | 33,016               | 18,489               | 4.569            | 7              | M8 x 25  | 30                       |
| C133M-45X75     | 45              | 1.772  | 2.953  | 3.287          | 0.787 | 1.043          | 1.358          | 1.673          | 1,196                    | 16,206                  | 30,815               | 18,489               | 4.569            | 7              | M8 x 25  | 30                       |
| C133M-48X80     | 48              | 1.890  | 3.150  | 3.484          | 0.787 | 1.043          | 1.358          | 1.673          | 1,276                    | 16,206                  | 28,889               | 17,333               | 4.728            | 7              | M8 x 25  | 30                       |
| C133M-50X80     | 50              | 1.969  | 3.150  | 3.484          | 0.787 | 1.043          | 1.358          | 1.673          | 1,329                    | 16,206                  | 27,733               | 17,333               | 4.728            | 7              | M8 x 25  | 30                       |
| C133M-55X85     | 55              | 2.165  | 3.346  | 3.681          | 0.787 | 1.043          | 1.358          | 1.673          | 1,671                    | 18,521                  | 28,814               | 18,644               | 5.200            | 8              | M8 x 25  | 30                       |
| C133M-60X90     | 60              | 2.362  | 3.543  | 3.858          | 0.787 | 1.043          | 1.358          | 1.673          | 1,823                    | 18,521                  | 26,413               | 17,608               | 5.357            | 8              | M8 x 25  | 30                       |
| C133M-65X95     | 65              | 2.559  | 3.740  | 4.016          | 0.787 | 1.043          | 1.358          | 1.673          | 2,222                    | 20,836                  | 27,429               | 18,767               | 5.831            | 9              | M8 x 25  | 30                       |
| C133M-70X110    | 70              | 2.756  | 4.331  | 4.685          | 0.945 | 1.201          | 1.594          | 1.988          | 3,491                    | 30,403                  | 30,970               | 19,708               | 6.927            | 8              | M10 x 30 | 61                       |
| C133M-75X115    | 75              | 2.953  | 4.528  | 4.882          | 0.945 | 1.201          | 1.594          | 1.988          | 3,741                    | 30,403                  | 28,906               | 18,852               | 7.075            | 8              | M10 x 30 | 61                       |
| C133M-80X120    | 80              | 3.150  | 4.724  | 5.079          | 0.945 | 1.201          | 1.594          | 1.988          | 3,990                    | 30,403                  | 27,099               | 18,066               | 7.229            | 8              | M10 x 30 | 61                       |
| C133M-85X125    | 85              | 3.346  | 4.921  | 5.276          | 0.945 | 1.201          | 1.594          | 1.988          | 4,769                    | 34,204                  | 28,693               | 19,511               | 7.829            | 9              | M10 x 30 | 61                       |
| C133M-90X130    | 90              | 3.543  | 5.118  | 5.472          | 0.945 | 1.201          | 1.594          | 1.988          | 5,050                    | 34,204                  | 27,099               | 18,761               | 7.978            | 9              | M10 x 30 | 61                       |
| C133M-95X135    | 95              | 3.740  | 5.315  | 5.669          | 0.945 | 1.201          | 1.594          | 1.988          | 5,923                    | 38,004                  | 28,525               | 20,073               | 8.588            | 10             | M10 x 30 | 61                       |
| C133M-100X145   | 100             | 3.937  | 5.709  | 6.063          | 1.024 | 1.299          | 1.772          | 2.244          | 7,448                    | 45,406                  | 29,886               | 20,611               | 9.363            | 8              | M12 x 35 | 107                      |
| C133M-110X155   | 110             | 4.331  | 6.102  | 6.457          | 1.024 | 1.299          | 1.772          | 2.244          | 8,193                    | 45,406                  | 27,169               | 19,281               | 9.648            | 8              | M12 x 35 | 107                      |
| C133M-120X165   | 120             | 4.724  | 6.496  | 6.850          | 1.024 | 1.299          | 1.772          | 2.244          | 10,055                   | 51,081                  | 28,018               | 20,377               | 10.585           | 9              | M12 x 35 | 107                      |
| C133M-130X180   | 130             | 5.118  | 7.087  | 7.441          | 1.339 | 1.614          | 2.165          | 2.717          | 14,652                   | 68,706                  | 26,602               | 19,212               | 11.183           | 9              | M14 x 40 | 170                      |
| C133M-140X190   | 140             | 5.512  | 7.480  | 7.835          | 1.339 | 1.614          | 2.165          | 2.717          | 15,779                   | 68,706                  | 24,701               | 18,201               | 11.487           | 9              | M14 x 40 | 170                      |
| C133M-150X200   | 150             | 5.906  | 7.874  | 8.228          | 1.339 | 1.614          | 2.165          | 2.717          | 18,784                   | 76,340                  | 25,616               | 19,212               | 12.425           | 10             | M14 x 40 | 170                      |
| C133M-160X210   | 160             | 6.299  | 8.268  | 8.622          | 1.339 | 1.614          | 2.165          | 2.717          | 22,040                   | 83,974                  | 26,417               | 20,127               | 13.378           | 11             | M14 x 40 | 170                      |
| C133M-170X225   | 170             | 6.693  | 8.858  | 9.213          | 1.732 | 2.008          | 2.559          | 3.110          | 25,547                   | 91,608                  | 20,959               | 15,836               | 12.794           | 12             | M14 x 40 | 170                      |
| C133M-180X235   | 180             | 7.087  | 9.252  | 9.606          | 1.732 | 2.008          | 2.559          | 3.110          | 27,050                   | 91,608                  | 19,794               | 15,162               | 13.137           | 12             | M14 x 40 | 170                      |
| C133M-190X250   | 190             | 7.480  | 9.843  | 10.197         | 1.732 | 2.008          | 2.559          | 3.110          | 35,690                   | 114,510                 | 23,441               | 17,815               | 14.961           | 15             | M14 x 40 | 170                      |
| C133M-200X260   | 200             | 7.874  | 10.236 | 10.591         | 1.732 | 2.008          | 2.559          | 3.110          | 37,569                   | 114,510                 | 22,269               | 17,130               | 15.283           | 15             | M14 x 40 | 170                      |
| C133M-220X285   | 220             | 8.661  | 11.220 | 11.496         | 1.969 | 2.244          | 2.874          | 3.504          | 45,638                   | 126,459                 | 19,674               | 15,187               | 15.943           | 12             | M16 x 45 | 262                      |
| C133M-240X305   | 240             | 9.449  | 12.008 | 12.362         | 1.969 | 2.244          | 2.874          | 3.504          | 62,234                   | 158,073                 | 22,543               | 17,739               | 18.216           | 15             | M16 x 45 | 262                      |
| C133M-260X325   | 260             | 10.236 | 12.795 | 13.150         | 1.969 | 2.244          | 2.874          | 3.504          | 80,904                   | 189,688                 | 24,971               | 19,977               | 20.618           | 18             | M16 x 45 | 262                      |
| C133M-280X355   | 280             | 11.024 | 13.976 | 14.331         | 2.362 | 2.638          | 3.346          | 4.055          | 92,692                   | 201,803                 | 20,557               | 16,214               | 20.381           | 16             | M18 x 50 | 358                      |
| C133M-300X375   | 300             | 11.811 | 14.764 | 15.118         | 2.362 | 2.638          | 3.346          | 4.055          | 111,726                  | 227,028                 | 21,585               | 17,268               | 22.123           | 18             | M18 x 50 | 358                      |

All dimensions are shown in inches unless stated otherwise. All dimensions and capacities are subject to change without notice.

\* Minimum hub outside diameter based on a Pressure Reduction Factor of C=1.0 and hub material with tensile yield point ≥ 45,000 psi. For details refer to page 8.