

# ATLAS BALL & BEARING CO. LIMITED

Weight of standard metric needle rollers per 1000 pieces (in grams)

| LENGTH | DIAMETER |       |     |       |      |       |      |      |      |
|--------|----------|-------|-----|-------|------|-------|------|------|------|
|        | 1mm      | 1.5mm | 2mm | 2.5mm | 3mm  | 3.5mm | 4mm  | 5mm  | 6mm  |
| 5.8mm  | 36       | 80    | -   | -     | -    | -     | -    | -    | -    |
| 6.8mm  | 40       | 94    | -   | -     | -    | -     | -    | -    | -    |
| 7.8mm  | 48       | 108   | 190 | 300   | 427  | -     | -    | --   | -    |
| 9.8mm  | 57       | 136   | 227 | 354   | 504  | 760   | 904  | -    | -    |
| 11.8mm | -        | 164   | 290 | 450   | 616  | 832   | 1086 | -    | -    |
| 13.8mm | -        | 191   | 340 | 511   | 730  | 990   | 1286 | 1990 | 2824 |
| 15.8mm | -        | 214   | 379 | 586   | 840  | 1144  | 1486 | 2280 | 3256 |
| 17.8mm | -        | -     | 440 | 662   | 945  | 1286  | 1674 | 2740 | 3670 |
| 19.8mm | -        | 280   | 490 | 735   | 1060 | 1400  | 1866 | 2900 | -    |
| 21.8mm | -        | -     | 530 | 800   | 1160 | 1580  | 2044 | 3144 | 4500 |
| 23.8mm | -        | -     | 595 | 883   | 1270 | 1725  | 2248 | 3516 | 4912 |
| 25.8mm | -        | -     | -   | -     | 1372 | 1870  | 2428 | 3810 | 5325 |
| 27.8mm | -        | -     | -   | -     | 1486 | 2016  | 2620 | 4150 | -    |
| 29.8mm | -        | -     | -   | -     | 1606 | 2172  | 2828 | 4440 | -    |
| 34.8mm | -        | -     | -   | -     | -    | 2558  | 3306 | 5168 | --   |
| 39.8mm | -        | -     | -   | -     | 2144 | 2900  | 3778 | 5912 | 8215 |
| 49.8mm | -        | -     | -   | -     | -    | -     | -    | 7456 | -    |

Whilst every care has been taken we cannot accept liability for any errors contained within this document.

Issue 1 : Dated 21.5.08