

**North American Hydraulics,**  
(NAHI, LLC), partnering with  
Bonfiglioli planetary gearbox  
drives.

## Features and Benefits:

- Compact and powerful
- Ideal choice for severe duty shock load and impact applications
- Several options for mounting, gear layout, output shaft and motor interface
- 20 finely spaced frame sizes over the 1,000 to 1,100,000 Nm torque range
- Gear Unit Versions — In line, Right angle (with a spiral bevel gear set)
- Output Configuration — Foot and flange mounted, Output shaft: solid with key, splined, splined hollow, hollow with shrink disc
- Input Configurations — Flanged axial piston hydraulic motors, Hydraulic orbit motors, IEC and Nema motor adaptors, Solid input shaft
- Hydraulically released parking brake on request
- Electric Brake — DC and AC type

## Proven Solutions for:

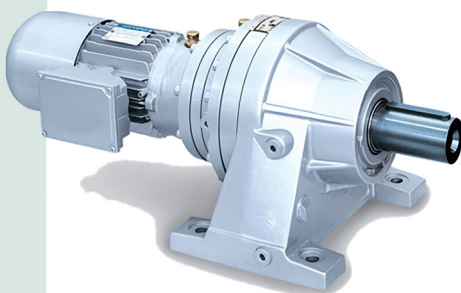
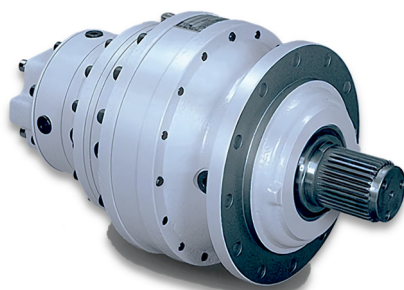
- Agriculture / Forestry
- Mining / Oil and Gas
- Construction / Industrial
- Marine / Utility
- Waste and Material Handling
- Railway

Please contact NAHI for  
additional information.

The above information should be used as a  
guide and is subject to change without notice.

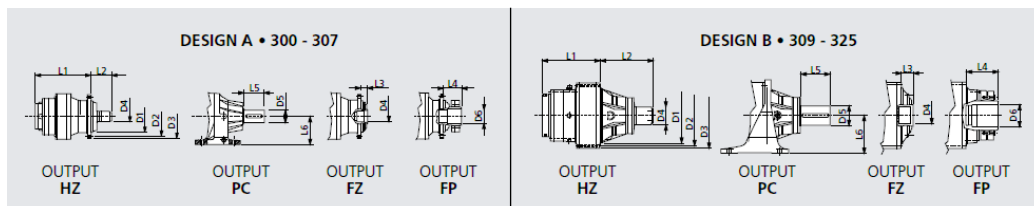
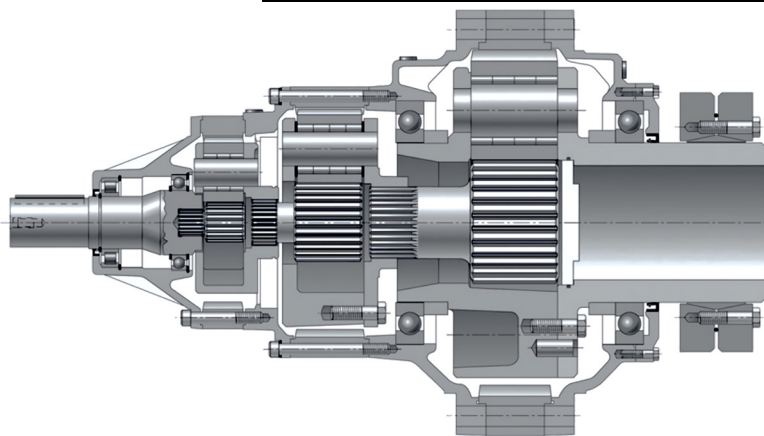
Please contact NAHI for proper selection.

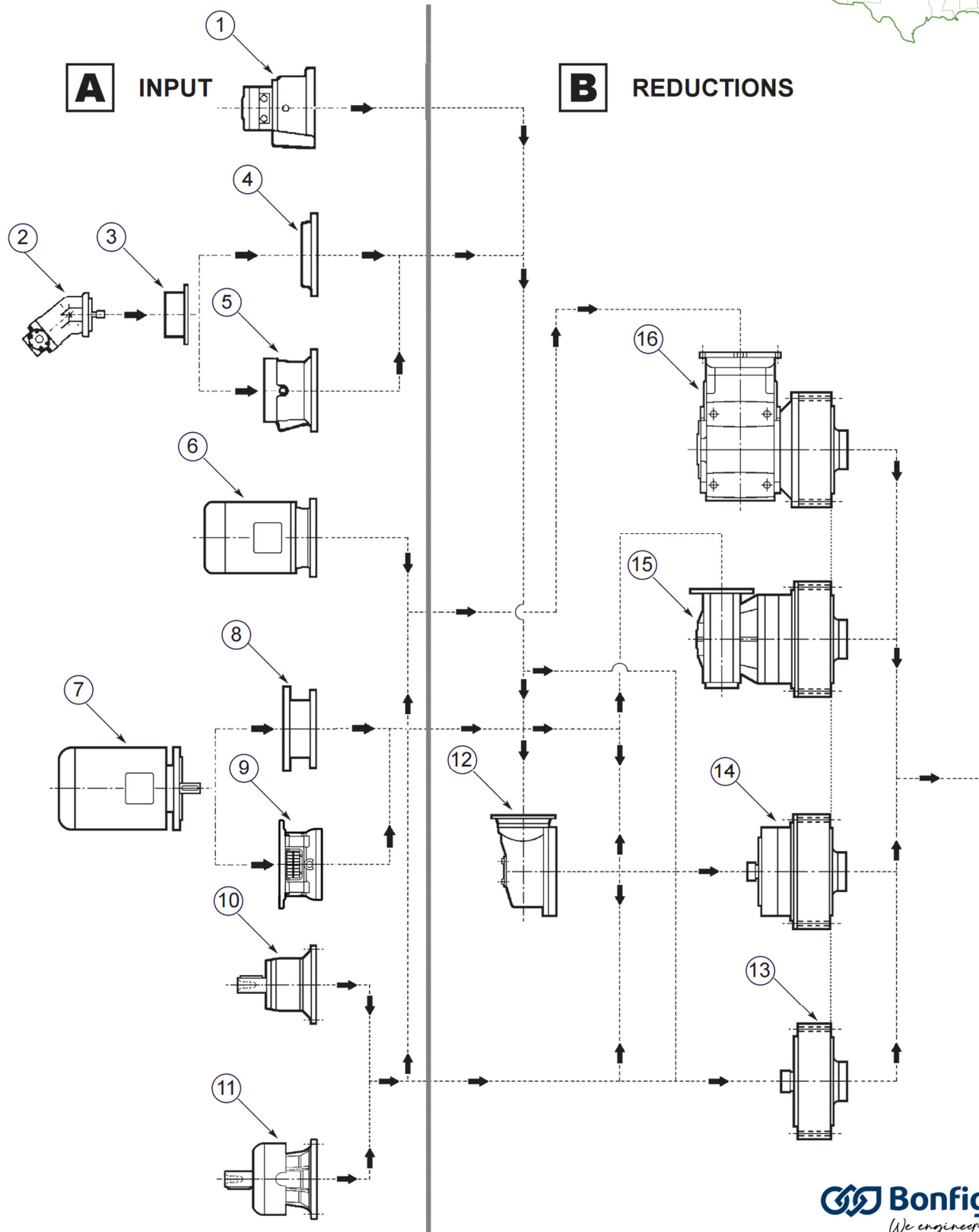
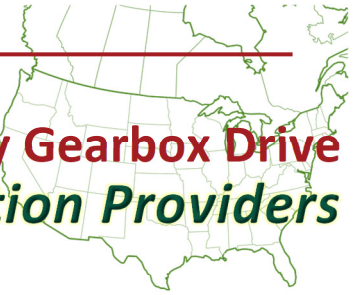
## Planetary Gearbox Drive Solution Providers

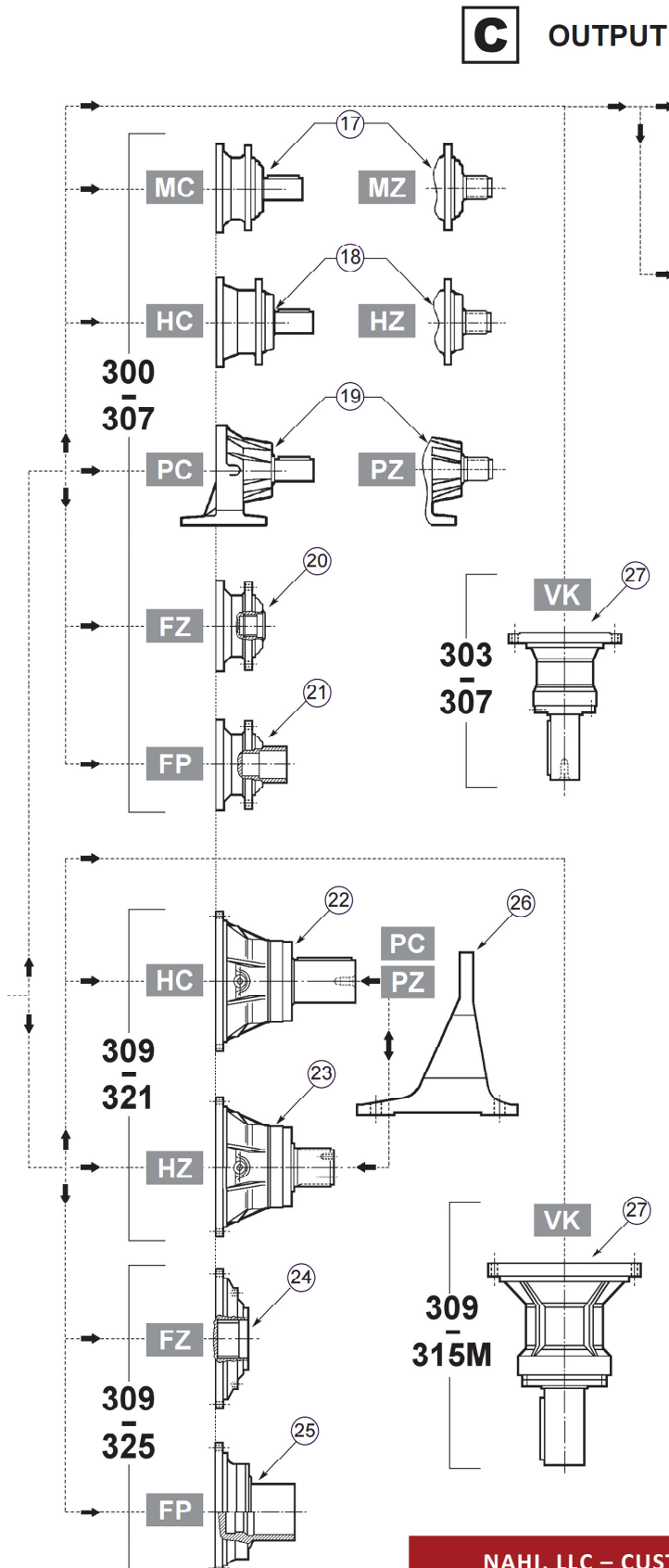


**Planetary Drives – Bonfiglioli 300 Series**

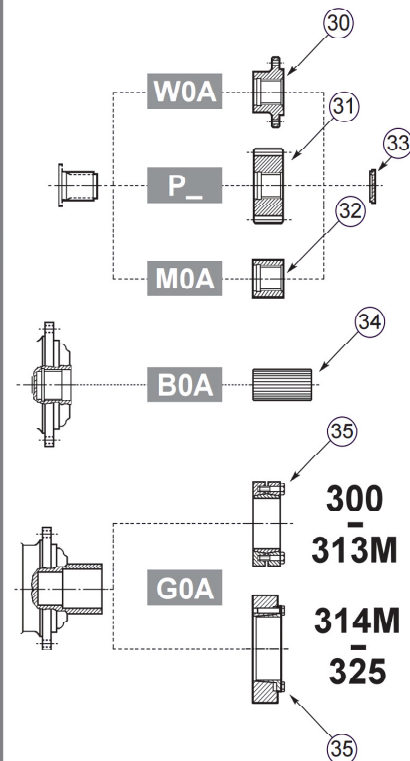
| Type | Torque Output (Nm) | Max Power (kW) | Max Input Speed rpm | Inline Reduction Ratio | Design |
|------|--------------------|----------------|---------------------|------------------------|--------|
| 300  | 1,000              | 20             | 3000                | 3.4 – 2700             | A      |
| 301  | 1,750              | 30             | 3000                | 3.4 – 2700             | A      |
| 303  | 2,500              | 40             | 3000                | 3.6 – 2800             | A      |
| 304  | 3,600              | 50             | 3000                | 3.6 – 2500             | A      |
| 305  | 5,000              | 60             | 3000                | 3.6 – 2800             | A      |
| 306  | 8,500              | 75             | 2500                | 3.6 – 2900             | A      |
| 307  | 12,500             | 100            | 2500                | 3.4 – 2400             | A      |
| 309  | 18,000             | 130            | 2500                | 3.4 – 2400             | B      |
| 310  | 25,000             | 150            | 2000                | 4 – 2500               | B      |
| 311  | 40,000             | 180            | 2000                | 4 – 2100               | B      |
| 313  | 55,000             | 200            | 2000                | 4 – 2200               | B      |
| 314  | 80,000             | 225            | 2000                | 4 – 1800               | B      |
| 315  | 100,000            | 250            | 1500                | 4 – 1800               | B      |
| 316  | 135,000            | 270            | 1500                | 4.4 – 1200             | B      |
| 317  | 170,000            | 300            | 1000                | 4 – 1900               | B      |
| 318  | 250,000            | 340            | 1000                | 4.4 – 1100             | B      |
| 319  | 350,000            | 380            | 500                 | 4.8 – 1400             | B      |
| 321  | 500,000            | 450            | 300                 | 4.4 – 1100             | B      |
| 323  | 800,000            | 850            | 300                 | 4.6 – 1300             | B      |
| 325  | 1,100,000          | 1050           | 300                 | 4.6 – 1300             | B      |







**D FITTINGS**



**Bonfiglioli 300 Series Gearbox Ratio Chart**

| Size   | Ratio Options                                                                                      | Size   | Ratio Options                                                                                 |
|--------|----------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------|
| 300L1  | 3.48, 4.26, 5.77, 7.20, 9.0                                                                        | 311ML1 | 4.09, 5.25, 6.23                                                                              |
| 300L2  | 12.1, 14.8, 18.2, 20.1, 24.6, 30.7, 33.3, 38.4, 41.5, 51.9, 64.8                                   | 311ML2 | 14.0, 16.7, 18.0, 21.5, 25.5, 27.6, 32.7, 38.8                                                |
| 300L3  | 51.6, 63.2, 69.9, 77.5, 85.6, 105, 116, 131, 142, 177, 192, 221, 240, 299, 374                     | 311ML3 | 50.5, 60.2, 71.1, 77.3, 89.3, 104, 115, 133, 147, 161, 171, 191, 203, 245, 291                |
| 300L4  | 330, 403, 447, 494, 558, 616, 755, 819, 942, 1022, 1108, 1275, 1363, 1591, 1725, 2153, 2692        | 311ML4 | 348, 410, 512, 568, 627, 825, 986, 1058, 1230, 1415, 1680, 1766, 2096                         |
| 301L1  | 3.48, 4.26, 5.77, 7.20, 9.00                                                                       | 313ML1 | 4.14, 5.40, 6.50                                                                              |
| 301L2  | 12.1, 14.8, 18.2, 20.1, 24.6, 30.7, 33.3, 38.4, 41.5, 51.9, 64.8                                   | 313ML2 | 14.2, 16.9, 18.5, 21.8, 25.8, 28.4, 33.6, 40.5                                                |
| 301L3  | 51.6, 63.2, 69.9, 77.5, 85.6, 105, 116, 131, 142, 177, 195, 221, 240, 299, 374                     | 313ML3 | 51.1, 61.0, 72.0, 78.3, 92.4, 110, 120, 135, 143, 151, 163, 176, 182, 194, 209, 252, 304      |
| 301L4  | 330, 403, 447, 494, 558, 616, 755, 819, 942, 1022, 1108, 1275, 1383, 1591, 1725, 2153, 2692        | 313ML4 | 394, 452, 514, 564, 633, 695, 790, 889, 1014, 1117, 1266, 1394, 1502, 1817, 2187              |
| 303L1  | 3.60, 4.25, 6.20, 7.50, 9.67                                                                       | 314ML1 | 4.25, 5.33, 6.20                                                                              |
| 303L2  | 12.5, 15.3, 18.1, 20.8, 22.7, 24.5, 26.4, 30.8, 35.87, 38.4, 44.6, 55.8                            | 314ML2 | 17.4, 22.3, 26.5, 28.0, 33.2, 38.6                                                            |
| 303L3  | 53.4, 63.1, 72.3, 77.2, 90.2, 105, 113, 124, 141, 152, 164, 178, 190, 220, 258, 276, 321, 389, 402 | 314ML3 | 62.6, 73.9, 92.7, 108, 138, 164, 174, 206, 240                                                |
| 303L4  | 413, 446, 492, 556, 649, 718, 816, 896, 1018, 1098, 1278, 1370, 1586, 1854, 1991, 2243, 2799       | 314ML4 | 314, 394, 458, 495, 575, 588, 668, 738, 858, 926, 1038, 1099, 1277, 1485, 1796                |
| 304L1  | 3.60, 4.25, 5.33, 6.57                                                                             | 315ML1 | 4.25, 5.33, 6.20                                                                              |
| 304L2  | 12.5, 15.3, 18.1, 20.8, 22.7, 24.5, 30.8, 38.4, 47.3, 59.1                                         | 315ML2 | 17.4, 22.3, 26.5, 28.0, 33.2, 38.6                                                            |
| 304L3  | 43.6, 53.4, 63.1, 72.3, 77.2, 90.2, 105, 111, 130, 141, 150, 165, 178, 202, 220, 273, 341, 426     | 315ML3 | 59.6, 71.1, 91.3, 108, 139, 165, 174, 207, 241                                                |
| 304L4  | 413, 446, 492, 556, 649, 702, 816, 1018, 1164, 1271, 1344, 1586, 1815, 1991, 2269, 2453            | 315ML4 | 302, 370, 441, 487, 533, 591, 672, 741, 862, 930, 1043, 1104, 1284, 1492, 1805                |
| 305L1  | 3.60, 4.25, 5.33, 6.20, 7.50                                                                       | 316ML1 | 4.25, 5.33                                                                                    |
| 305L2  | 12.5, 15.3, 18.1, 20.8, 22.7, 24.5, 26.4, 30.8, 35.8, 38.4, 44.06, 55.8                            | 316ML2 | 17.4, 21.8, 22.3, 26.5, 28.0, 33.2                                                            |
| 305L3  | 53.4, 63.1, 72.3, 77.2, 90.2, 105, 113, 124, 141, 152, 164, 178, 190, 220, 258, 276, 321, 389, 402 | 316ML3 | 59.6, 71.1, 76.5, 89.3, 96.0, 114, 117, 139, 165, 174, 207                                    |
| 305L4  | 413, 446, 492, 556, 649, 718, 816, 896, 1018, 1098, 1278, 1370, 1586, 1854, 1991, 2243, 2799       | 316ML4 | 215, 253, 275, 318, 346, 399, 447, 500, 563, 628, 706, 784, 880, 1020, 1104, 1237, 1308, 1553 |
| 306L1  | 3.60, 4.25, 5.33, 6.20, 7.50                                                                       | 317ML1 | 4.1, 5.3, 6.2                                                                                 |
| 306L2  | 13.0, 15.3, 18.1, 22.7, 26.4, 28.4, 33.1, 38.4, 46.5, 56.3, 72.5                                   | 317ML2 | 16.9, 22.1, 26.6, 28.4, 34.1                                                                  |
| 306L3  | 53.2, 65.2, 77.0, 81.9, 88.3, 104, 112, 1212, 141, 152, 190, 205, 222, 238, 268, 288, 325, 405     | 317ML3 | 58.1, 69.3, 89.0, 106, 116, 138, 166, 179, 213, 252                                           |
| 306L4  | 391, 444, 509, 589, 636, 700, 809, 877, 1015, 1095, 1279, 1475, 1597, 1843, 2074, 2337, 2916       | 317ML4 | 378, 449, 493, 552, 619, 719, 792, 904, 1032, 1134, 1318, 1595, 1893                          |
| 307L1  | 3.43, 4.09, 5.25, 6.23                                                                             | 318ML2 | 18.7, 23.5, 27.3                                                                              |
| 307L2  | 12.3, 14.7, 17.4, 21.8, 25.4, 28.0, 30.7, 32.6, 38.6, 46.7                                         | 318ML3 | 76.5, 98.2, 117, 123, 146, 170                                                                |
| 307L3  | 51.3, 60.5, 74.1, 80.6, 93.0, 100, 113, 126, 139, 146, 162, 177, 202, 221, 239, 284, 336           | 318ML4 | 262, 313, 337, 402, 422, 477, 515, 612, 647, 726, 768, 911, 1059                              |
| 307L4  | 349, 406, 465, 509, 579, 654, 722, 801, 906, 999, 1157, 1274, 1408, 1591, 1767, 2041, 2423         | 319L2  | 20.7, 24.5, 26.0, 30.8, 35.8                                                                  |
| 309L1  | 3.43, 4.09, 5.25, 6.23                                                                             | 319L3  | 84.8, 100, 109, 126, 129, 137, 162, 188, 192, 223                                             |
| 309L2  | 12.3, 14.7, 17.4, 21.8, 25.4, 28.0, 32.6, 38.6, 46.7                                               | 319L4  | 291, 347, 410, 445, 515, 528, 558, 571, 625, 678, 717, 802, 850, 912, 1007, 1195, 1389        |
| 309L3  | 51.3, 60.5, 74.1, 80.6, 93.0, 100, 113, 126, 139, 162, 183, 202, 223, 239, 284, 336                | 321L3  | 75.3, 98.2, 118, 126, 152, 180                                                                |
| 309L4  | 349, 406, 465, 509, 579, 654, 722, 801, 906, 999, 1149, 1286, 1380, 1605, 1723, 2003, 2423         | 321L4  | 258, 308, 395, 469, 515, 612, 736, 796, 945, 1122                                             |
| 310ML1 | 4.09, 5.25, 6.23                                                                                   | 323L3  | 83.3, 105, 113, 120, 142, 165, 205                                                            |
| 310ML2 | 14.7, 17.4, 21.8, 25.4, 28, 30.7, 32.6, 38.6, 46.7                                                 | 323L4  | 341, 390, 438, 500, 569, 628, 703, 758, 882, 1025, 1101, 1279                                 |
| 310ML3 | 53, 62.6, 73.9, 80.3, 92.7, 101, 108, 119, 135, 149, 164, 177, 202, 230, 249, 295, 350             | 325L3  | 83.3, 105, 113, 120, 142, 165, 205                                                            |
| 310ML4 | 392, 453, 507, 590, 637, 726, 798, 974, 1002, 1164, 1259, 1438, 1672, 1794, 2022, 2523             | 325L4  | 341, 390, 438, 500, 569, 628, 703, 758, 882, 1025, 1101, 1279                                 |