

EXTREME RATIO CHART

Gear Sets Must Remain in Vertical Columns

| Main-Cluster | HEAD SETS | | | | | | | | | | | | | | Main-Cluster |
|--------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| | 25e20 | 23e19 | 24e20 | 25e21 | 23e20 | 20e21 | 20e22 | 20e23 | 21e25 | 20e24 | 20e25 | 18e23 | 20e26 | 18e24 | |
| 34e15 | 1.8133 | 1.8725 | 1.8889 | 1.9040 | 1.9710 | 2.3800 | 2.4933 | 2.6067 | 2.6984 | 2.7200 | 2.8333 | 2.8963 | 2.9467 | 3.0222 | 34e15 |
| 33e15 | 1.7600 | 1.8174 | 1.8333 | 1.8480 | 1.9131 | 2.3100 | 2.4200 | 2.5300 | 2.6190 | 2.6400 | 2.7500 | 2.8111 | 2.8600 | 2.9333 | 33e15 |
| 32e15 | 1.7067 | 1.7623 | 1.7778 | 1.7920 | 1.8551 | 2.2400 | 2.3467 | 2.4533 | 2.5397 | 2.5600 | 2.6667 | 2.7259 | 2.7733 | 2.8444 | 32e15 |
| 31e15 | 1.6533 | 1.7072 | 1.7222 | 1.7360 | 1.7971 | 2.1700 | 2.2733 | 2.3767 | 2.4603 | 2.4800 | 2.5833 | 2.6407 | 2.6867 | 2.7556 | 31e15 |
| 30e15 | 1.6000 | 1.6522 | 1.6667 | 1.6800 | 1.7391 | 2.1000 | 2.2000 | 2.3000 | 2.3810 | 2.4000 | 2.5000 | 2.5556 | 2.6000 | 2.6667 | 30e15 |
| 29e15 | 1.5467 | 1.5971 | 1.6111 | 1.6240 | 1.6812 | 2.0300 | 2.1267 | 2.2233 | 2.3016 | 2.3200 | 2.4167 | 2.4704 | 2.5133 | 2.5778 | 29e15 |
| 30e16 | 1.5000 | 1.5489 | 1.5625 | 1.5750 | 1.6304 | 1.9688 | 2.0625 | 2.1563 | 2.2321 | 2.2500 | 2.3438 | 2.3958 | 2.4375 | 2.5000 | 30e16 |
| 28e15 | 1.4933 | 1.5420 | 1.5556 | 1.5680 | 1.6232 | 1.9600 | 2.0533 | 2.1467 | 2.2222 | 2.2400 | 2.3333 | 2.3852 | 2.4267 | 2.4889 | 28e15 |
| 29e16 | 1.4500 | 1.4973 | 1.5104 | 1.5225 | 1.5761 | 1.9031 | 1.9938 | 2.0844 | 2.1577 | 2.1750 | 2.2656 | 2.3160 | 2.3563 | 2.4167 | 29e16 |
| 27e15 | 1.4400 | 1.4870 | 1.5000 | 1.5120 | 1.5652 | 1.8900 | 1.9800 | 2.0700 | 2.1429 | 2.1600 | 2.2500 | 2.3000 | 2.3400 | 2.4000 | 27e15 |
| 28e16 | 1.4000 | 1.4457 | 1.4583 | 1.4700 | 1.5217 | 1.8375 | 1.9250 | 2.0125 | 2.0833 | 2.1000 | 2.1875 | 2.2361 | 2.2750 | 2.3333 | 28e16 |
| 26e15 | 1.3867 | 1.4319 | 1.4444 | 1.4560 | 1.5073 | 1.8200 | 1.9067 | 1.9933 | 2.0635 | 2.0800 | 2.1667 | 2.2148 | 2.2533 | 2.3111 | 26e15 |
| 29e17 | 1.3647 | 1.4092 | 1.4216 | 1.4329 | 1.4834 | 1.7912 | 1.8765 | 1.9618 | 2.0308 | 2.0471 | 2.1324 | 2.1797 | 2.2176 | 2.2745 | 29e17 |
| 27e16 | 1.3500 | 1.3940 | 1.4062 | 1.4175 | 1.4674 | 1.7719 | 1.8563 | 1.9406 | 2.0089 | 2.0250 | 2.1094 | 2.1563 | 2.1938 | 2.2500 | 27e16 |
| 28e17 | 1.3176 | 1.3606 | 1.3725 | 1.3835 | 1.4322 | 1.7294 | 1.8118 | 1.8941 | 1.9608 | 1.9765 | 2.0588 | 2.1046 | 2.1412 | 2.1961 | 28e17 |
| 26e16 | 1.3000 | 1.3424 | 1.3542 | 1.3650 | 1.4131 | 1.7063 | 1.7875 | 1.8688 | 1.9345 | 1.9500 | 2.0313 | 2.0764 | 2.1125 | 2.1667 | 26e16 |
| 27e17 | 1.2706 | 1.3120 | 1.3235 | 1.3341 | 1.3811 | 1.6676 | 1.7471 | 1.8265 | 1.8908 | 1.9059 | 1.9853 | 2.0294 | 2.0647 | 2.1176 | 27e17 |
| 25e16 | 1.2500 | 1.2908 | 1.3021 | 1.3125 | 1.3587 | 1.6406 | 1.7188 | 1.7969 | 1.8601 | 1.8750 | 1.9531 | 1.9965 | 2.0313 | 2.0833 | 25e16 |
| 28e18 | 1.2444 | 1.2850 | 1.2963 | 1.3067 | 1.3527 | 1.6333 | 1.7111 | 1.7889 | 1.8519 | 1.8667 | 1.9444 | 1.9877 | 2.0222 | 2.0741 | 28e18 |
| 26e17 | 1.2235 | 1.2634 | 1.2745 | 1.2847 | 1.3299 | 1.6059 | 1.6824 | 1.7588 | 1.8207 | 1.8353 | 1.9118 | 1.9542 | 1.9882 | 2.0392 | 26e17 |
| 27e18 | 1.2000 | 1.2391 | 1.2500 | 1.2600 | 1.3044 | 1.5750 | 1.6500 | 1.7250 | 1.7857 | 1.8000 | 1.8750 | 1.9167 | 1.9500 | 2.0000 | 27e18 |
| 25e17 | 1.1765 | 1.2148 | 1.2255 | 1.2353 | 1.2788 | 1.5441 | 1.6176 | 1.6912 | 1.7507 | 1.7647 | 1.8382 | 1.8791 | 1.9118 | 1.9608 | 25e17 |
| 26e18 | 1.1556 | 1.1932 | 1.2037 | 1.2133 | 1.2560 | 1.5167 | 1.5889 | 1.6611 | 1.7196 | 1.7333 | 1.8056 | 1.8457 | 1.8778 | 1.9259 | 26e18 |
| 27e19 | 1.1368 | 1.1739 | 1.1842 | 1.1937 | 1.2357 | 1.4921 | 1.5632 | 1.6342 | 1.6917 | 1.7053 | 1.7763 | 1.8158 | 1.8474 | 1.8947 | 27e19 |
| 24e17 | 1.1294 | 1.1662 | 1.1765 | 1.1859 | 1.2276 | 1.4824 | 1.5529 | 1.6235 | 1.6807 | 1.6941 | 1.7647 | 1.8039 | 1.8353 | 1.8824 | 24e17 |
| 25e18 | 1.1111 | 1.1473 | 1.1574 | 1.1667 | 1.2077 | 1.4583 | 1.5278 | 1.5972 | 1.6534 | 1.6667 | 1.7361 | 1.7747 | 1.8056 | 1.8519 | 25e18 |
| 26e19 | 1.0947 | 1.1304 | 1.1404 | 1.1495 | 1.1899 | 1.4368 | 1.5053 | 1.5737 | 1.6291 | 1.6421 | 1.7105 | 1.7485 | 1.7789 | 1.8246 | 26e19 |
| 24e18 | 1.0667 | 1.1014 | 1.1111 | 1.1200 | 1.1594 | 1.4000 | 1.4667 | 1.5333 | 1.5873 | 1.6000 | 1.6667 | 1.7037 | 1.7333 | 1.7778 | 24e18 |
| 25e19 | 1.0526 | 1.0870 | 1.0965 | 1.1053 | 1.1442 | 1.3816 | 1.4474 | 1.5132 | 1.5664 | 1.5789 | 1.6447 | 1.6813 | 1.7105 | 1.7544 | 25e19 |
| 26e20 | 1.0400 | 1.0739 | 1.0833 | 1.0920 | 1.1304 | 1.3650 | 1.4300 | 1.4950 | 1.5476 | 1.5600 | 1.6250 | 1.6611 | 1.6900 | 1.7333 | 26e20 |
| 23e18 | 1.0222 | 1.0556 | 1.0648 | 1.0733 | 1.1111 | 1.3417 | 1.4056 | 1.4694 | 1.5212 | 1.5333 | 1.5972 | 1.6327 | 1.6611 | 1.7037 | 23e18 |
| 24e19 | 1.0105 | 1.0435 | 1.0526 | 1.0611 | 1.0984 | 1.3263 | 1.3895 | 1.4526 | 1.5038 | 1.5158 | 1.5789 | 1.6140 | 1.6421 | 1.6842 | 24e19 |
| 25e20 | 1.0000 | 1.0326 | 1.0417 | 1.0500 | 1.0870 | 1.3125 | 1.3750 | 1.4375 | 1.4881 | 1.5000 | 1.5625 | 1.5972 | 1.6250 | 1.6667 | 25e20 |
| 23e19 | 0.9684 | 1.0000 | 1.0088 | 1.0168 | 1.0526 | 1.2711 | 1.3316 | 1.3921 | 1.4411 | 1.4526 | 1.5132 | 1.5468 | 1.5737 | 1.6140 | 23e19 |
| 24e20 | 0.9600 | 0.9913 | 1.0000 | 1.0080 | 1.0435 | 1.2600 | 1.3200 | 1.3800 | 1.4286 | 1.4400 | 1.5000 | 1.5333 | 1.5600 | 1.6000 | 24e20 |
| 25e21 | 0.9524 | 0.9834 | 0.9921 | 1.0000 | 1.0352 | 1.2500 | 1.3095 | 1.3690 | 1.4172 | 1.4286 | 1.4881 | 1.5212 | 1.5476 | 1.5873 | 25e21 |
| 22e19 | 0.9263 | 0.9565 | 0.9649 | 0.9726 | 1.0069 | 1.2158 | 1.2737 | 1.3316 | 1.3784 | 1.3895 | 1.4474 | 1.4795 | 1.5053 | 1.5439 | 22e19 |
| 24e21 | 0.9143 | 0.9441 | 0.9524 | 0.9600 | 0.9938 | 1.2000 | 1.2571 | 1.3143 | 1.3605 | 1.3714 | 1.4286 | 1.4603 | 1.4857 | 1.5238 | 24e21 |
| 22e20 | 0.8800 | 0.9087 | 0.9167 | 0.9240 | 0.9565 | 1.1550 | 1.2100 | 1.2650 | 1.3095 | 1.3200 | 1.3750 | 1.4056 | 1.4300 | 1.4667 | 22e20 |
| 24e22 | 0.8727 | 0.9012 | 0.9091 | 0.9164 | 0.9486 | 1.1455 | 1.2000 | 1.2545 | 1.2987 | 1.3091 | 1.3636 | 1.3939 | 1.4182 | 1.4545 | 24e22 |
| 22e21 | 0.8381 | 0.8654 | 0.8730 | 0.8800 | 0.9110 | 1.1000 | 1.1524 | 1.2048 | 1.2472 | 1.2571 | 1.3095 | 1.3386 | 1.3619 | 1.3968 | 22e21 |
| 22e22 | 0.8000 | 0.8261 | 0.8333 | 0.8400 | 0.8696 | 1.0500 | 1.1000 | 1.1500 | 1.1905 | 1.2000 | 1.2500 | 1.2778 | 1.3000 | 1.3333 | 22e22 |
| 22e23 | 0.7652 | 0.7902 | 0.7971 | 0.8035 | 0.8318 | 1.0043 | 1.0522 | 1.1000 | 1.1387 | 1.1478 | 1.1957 | 1.2222 | 1.2435 | 1.2754 | 22e23 |
| 20e21 | 0.7619 | 0.7867 | 0.7937 | 0.8000 | 0.8282 | 1.0000 | 1.0476 | 1.0952 | 1.1338 | 1.1429 | 1.1905 | 1.2169 | 1.2381 | 1.2698 | 20e21 |
| 20e22 | 0.7273 | 0.7510 | 0.7576 | 0.7636 | 0.7905 | 0.9545 | 1.0000 | 1.0455 | 1.0823 | 1.0909 | 1.1364 | 1.1616 | 1.1818 | 1.2121 | 20e22 |
| 20e23 | 0.6957 | 0.7183 | 0.7246 | 0.7304 | 0.7561 | 0.9130 | 0.9565 | 1.0000 | 1.0352 | 1.0435 | 1.0870 | 1.1111 | 1.1304 | 1.1594 | 20e23 |