

# SERPENT

## Gearing chart // 64 dp

| 2,0000 | Pinion |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Spur   | 34     | 35   | 36   | 37   | 38   | 39   | 40   | 41   | 42   | 43   | 44   | 45   | 46   | 47   | 48   | 49   | 50   |
| 89     | 5,24   | 5,09 | 4,94 | 4,81 | 4,68 | 4,56 | 4,45 | 4,34 | 4,24 | 4,14 | 4,05 | 3,96 | 3,87 | 3,79 | 3,71 | 3,63 | 3,56 |
| 90     | 5,29   | 5,14 | 5,00 | 4,86 | 4,74 | 4,62 | 4,50 | 4,39 | 4,29 | 4,19 | 4,09 | 4,00 | 3,91 | 3,83 | 3,75 | 3,67 | 3,60 |
| 92     | 5,41   | 5,26 | 5,11 | 4,97 | 4,84 | 4,72 | 4,60 | 4,49 | 4,38 | 4,28 | 4,18 | 4,09 | 4,00 | 3,91 | 3,83 | 3,76 | 3,68 |
| 100    | 5,88   | 5,71 | 5,56 | 5,41 | 5,26 | 5,13 | 5,00 | 4,88 | 4,76 | 4,65 | 4,55 | 4,44 | 4,35 | 4,26 | 4,17 | 4,08 | 4,00 |
| 104    | 6,12   | 5,94 | 5,78 | 5,62 | 5,47 | 5,33 | 5,20 | 5,07 | 4,95 | 4,84 | 4,73 | 4,62 | 4,52 | 4,43 | 4,33 | 4,24 | 4,16 |
| 105    | 6,18   | 6,00 | 5,83 | 5,68 | 5,53 | 5,38 | 5,25 | 5,12 | 5,00 | 4,88 | 4,77 | 4,67 | 4,57 | 4,47 | 4,38 | 4,29 | 4,20 |
| 108    | 6,35   | 6,17 | 6,00 | 5,84 | 5,68 | 5,54 | 5,40 | 5,27 | 5,14 | 5,02 | 4,91 | 4,80 | 4,70 | 4,60 | 4,50 | 4,41 | 4,32 |
| 111    | 6,53   | 6,34 | 6,17 | 6,00 | 5,84 | 5,69 | 5,55 | 5,41 | 5,29 | 5,16 | 5,05 | 4,93 | 4,83 | 4,72 | 4,63 | 4,53 | 4,44 |
| 112    | 6,59   | 6,40 | 6,22 | 6,05 | 5,89 | 5,74 | 5,60 | 5,46 | 5,33 | 5,21 | 5,09 | 4,98 | 4,87 | 4,77 | 4,67 | 4,57 | 4,48 |
| 113    | 6,65   | 6,46 | 6,28 | 6,11 | 5,95 | 5,79 | 5,65 | 5,51 | 5,38 | 5,26 | 5,14 | 5,02 | 4,91 | 4,81 | 4,71 | 4,61 | 4,52 |

## Springs

|                                  |       |        |        |       |        |        |        |       |   |
|----------------------------------|-------|--------|--------|-------|--------|--------|--------|-------|---|
| Height: 23 mm - Serpent -        |       |        |        |       |        |        |        |       |   |
| Color                            | White | Grey   | Yellow | Black | Orange | Green  | Red    | -     | - |
| Rate lb/in                       | 13,0  | 14,8   | 16,0   | 16,5  | 19,5   | 19,9   | 23,5   | -     | - |
| Rate gf/mm                       | 234   | 265    | 285    | 295   | 346    | 355    | 418    | -     | - |
| Turns                            | -     | -      | -      | -     | -      | -      | -      | -     | - |
| Height: 27 mm - Tamiya -         |       |        |        |       |        |        |        |       |   |
| Color                            | Red   | Yellow | Blue   | White | -      | -      | -      | -     | - |
| Rate lb/in                       | 11,9  | 12,9   | 15,2   | 17,2  | -      | -      | -      | -     | - |
| Rate gf/mm                       | 212   | 230    | 272    | 308   | -      | -      | -      | -     | - |
| Turns                            | 7,75  | 7,00   | 6,50   | 5,75  | -      | -      | -      | -     | - |
| Height: 25 mm - MR 33 Ride -     |       |        |        |       |        |        |        |       |   |
| Color                            | White | Yellow | Silver | Green | Blue   | Red    | Purple | Black | - |
| Rate lb/in                       | 13,9  | 14,6   | 15,0   | 15,2  | 16,1   | 16,9   | 17,7   | 18,5  | - |
| Rate gf/mm                       | 248   | 259    | 268    | 272   | 287    | 301    | 316    | 330   | - |
| Turns                            | 7,50  | 7,25   | 6,00   | 7,00  | 6,75   | 6,50   | 6,30   | 6,00  | - |
| Height: 26 mm - HPI Hot Bodies - |       |        |        |       |        |        |        |       |   |
| Color                            | Blue  | Silver | Pink   | Gold  | White  | Yellow | Red    | -     | - |
| Rate lb/in                       | 15,3  | 16,9   | 17,9   | 19,0  | 20,3   | 21,7   | 22,4   | -     | - |
| Rate gf/mm                       | 273   | 302    | 320    | 340   | 363    | 388    | 400    | -     | - |
| Turns                            | 6,00  | 6,50   | 6,25   | 6,00  | 5,75   | 5,50   | 5,25   | -     | - |

## Suspension brackets

|   |          |     |          |
|---|----------|-----|----------|
| 0 | 41,00 mm | -   | -        |
| 1 | 42,50 mm | 1,5 | 43,25 mm |
| 2 | 44,00 mm | 2,5 | 44,75 mm |
| 3 | 45,50 mm | 3,5 | 46,25 mm |

## Geardifferential oil

| Track surface | Recom. oil       |
|---------------|------------------|
| Low grip      | 1000 cst or less |
| Medium grip   | 1000 - 2000 cst  |
| High grip     | 2000 - 3000 cst  |
| Extreme grip  | 3000 cst         |

