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# ORDERING PROCEDURE

Contact your regional Rottler sales rep for assistance in ordering optional equipment, replacement parts, or tooling.

If you are unable to contact your regional Rottler sales rep, call the factory at 253-872-7050 and ask to speak to the parts sales specialist.

Have the following information handy to expedite the ordering process:

1. Your name, business name, and contact number
2. Customer number
3. If you don’t have a customer number, your billing address
4. Shipping address if different from billing address
5. Machine model and serial number
6. Part number and description of what you want to order
7. Preferred method of shipment

You may also contact us via e-mail with the above information. Send e-mail requests to: parts@rottlermfg.com or intlparts@rottlermfg.com

In some cases you may be requested to send a photo of the part you are ordering if it is a replacement part, or doesn’t appear in the database.

If you are unsure which part you need to order, contact our service department and ask to speak to one of our service consultants. They will assist you in determining which part you require.

THERE IS A MINIMUM ORDER OF $25.00

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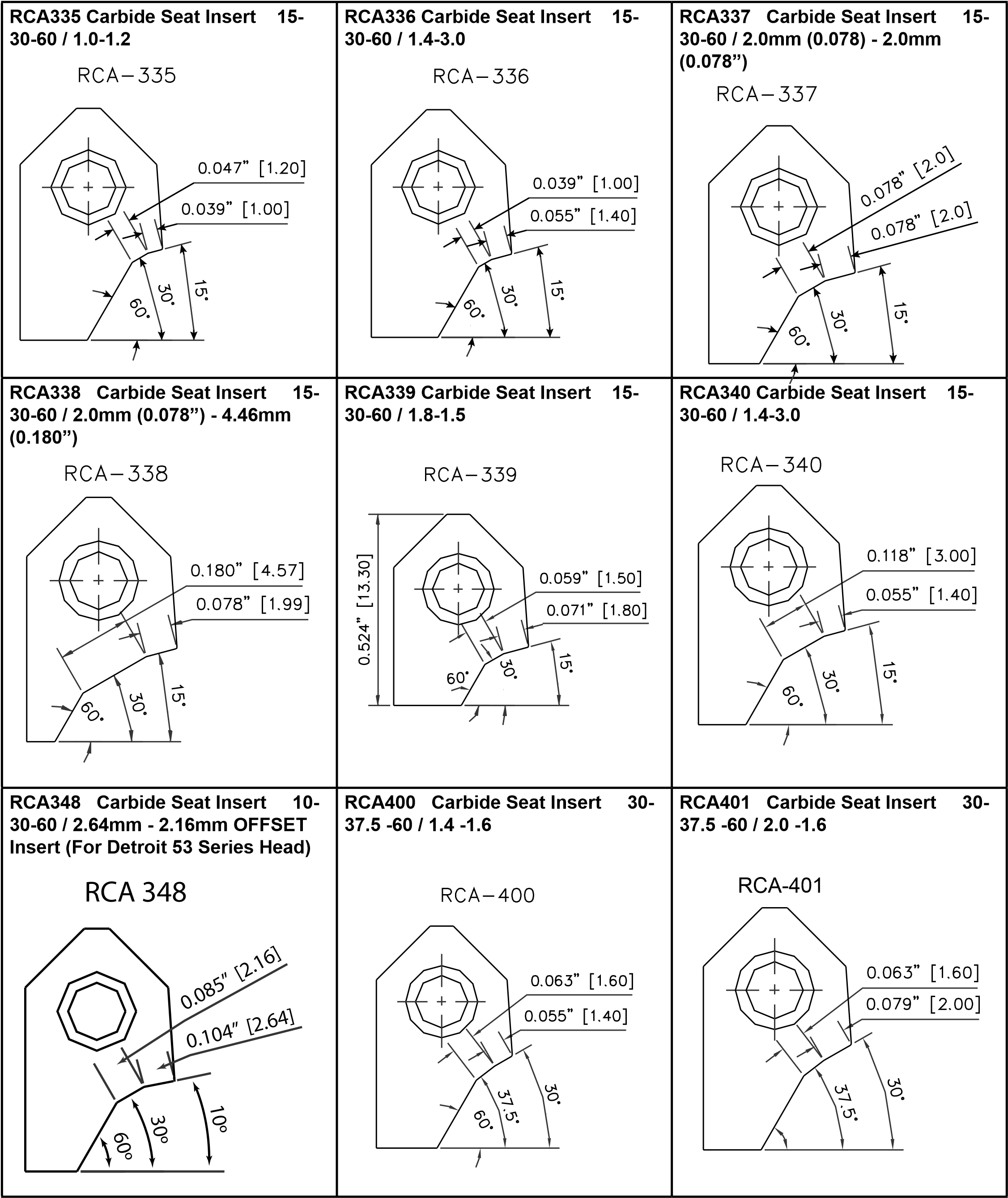
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| RCA326 Carbide Seat Insert 15-  30-60 / 14 -20 | RCA327 Carbide Seat Insert 15-  30-60 / 18 -20 | RCA328 Carbide Seat Insert 15-  30-60 / 18 -25 |
| RCA329 Carbide Seat Insert 15-  30-60 / 20 -25 | RCA330 Carbide Seat Insert 15-  30-60 / 14 -25 | RCA331 Carbide Seat Insert 15-  30-60 / 14 -18 |
| RCA332 Carbide Seat Insert  0-30-60 / 20 -28 | RCA333 Carbide Seat Insert  5-30-60 / 20 -22 (Cummins NH  Series Cylinder Head) | RCA334 Carbide Seat Insert 15-  30-60 / 14-15 |



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| RCA402 Carbide Seat Insert 30-  375 -60 / 14 -19 | RCA403 Carbide Seat Insert 30-  375 -60 / 20 -20 | RCA404 Carbide Seat Insert 18-  375 -52 / 06 -21 |
| RCA405 Carbide Seat Insert 15-  375 -60 / 14 -16 | RCA406 Carbide Seat Insert 20-  375 -52 / 12 -18 | RCA407 Carbide Seat Insert 15-  375 -60 / 14 -16 |
| RCA409 Carbide Seat Insert 0-35-  75 / 10-25 | RCA411 Carbide Seat Insert 37 degrees’ / 93mm | RCA418 Carbide Seat Insert 10-  20-60 / 36-305 |
| RCA-409  0.039  ”  [1.0]  0.098  ”  [2.5]  0  º  35  º  75  º | RCA 411  15  º  35  º  60  º  0.067  ”  [1.69]  0.094  ”  [2.4] | RCA 418  10  º  20  º  60  º  0.141  ”  [3.6]  0.138  ”  [3.05] |

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| RCA426 Carbide Seat Insert  5-20-60 / 25-15 | RCA439 Carbide Seat Insert  30-40-60 top, seat width 080 | RCA451 Carbide Seat Insert  R5-35-50-65 / 165-431 |
| RCA 426  R0.020” [R0.5]  20  º  60  º  0.098  ”  [2.5]  0.059  ”  [1.5] | RCA-439  0.080  ”  [2.0]  30  º  40  º  60  º |  |
| RCA500 Carbide Seat Insert 15 degrees / 77mm  RCA 500  15  º  0.303  [7.7]  ” | RCA501 Carbide Seat Insert 20 degrees / 88mm  RCA 501  20  º  0.346  [8.8]  ” | RCA502 Carbide Seat Insert 30 degrees / 90mm |
| RCA503 Carbide Seat Insert 45 degrees / 89mm | RCA504 Carbide Seat Insert 45 degrees 15 ‘ / 80mm | RCA505 Carbide Seat Insert 60 degrees’ / 81mm |
| RCA 503  45  º  0.350  [8.9]  ” |  | RCA 505  60  º  0.319  [8.1]  ” |

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| RCA507 Carbide Seat Insert 75 degrees / 83mm | RCA511 Carbide Seat Insert 94 degrees 08 / 12mm (SHORT PROFILE) | RCA512 Carbide Seat Insert 94 degrees R 08 / 153mm |
| RCA 507  75  º  0.328  ”  [8.3] | RCA 511  4  º  R0.031” [0.8]  0.472  [12.0]  ” |  |
| RCA513 Carbide Seat Insert  94-R05 / 25-65 (OFFSET FOR  COUNTERBORING SMALL SEATS) | RCA521 Carbide Seat Insert 25 degrees’ / 85mm  RCA 521  25  º  0.335  [8.5]  ” | RCA522 Carbide Seat Insert 70 degrees’ / 77mm |
| RCA524 Carbide Seat Insert 82 degrees’ / 707mm | RCA525 Carbide Seat Insert 94 -  60 / 80mm | RCA526 Carbide Seat Insert 45 degree / 984mm |
| RCA 524  82  º  0.278  [7.1]  ” |  | RCA-526  45  º  0.388” [9.84] |

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| RCA527 Carbide Seat Insert 37 degree / 929mm | RCA528 Carbide Seat Insert 35 degree / 95mm | RCA537 Carbide Seat Insert 50 degree / 89mm |
|  | RCA 528  35  º  0.374  ”  [9.5] | RCA 537  50  º  0.350  ”  [8.9] |
| RCA540 Carbide Seat Insert 40 degree  RCA-540 | RCA541 Carbide Seat Insert 10 degree  RCA-541  10  º | RCA547 Carbide Seat Insert 15 degree / 749mm  RCA-547 |
| RCA628 Carbide Seat Insert 30-  R15-15-45-75 / 10-10 | RCB509 Carbide Seat Insert 80 degrees’ / 121mm | RCB510 Carbide Seat Insert 82 degrees’ / 115mm |
| RCA 628  75  º  45  º  15  º  30  º  R0.059” [1.5]  0.039  ”  [1.0]  0.039  ”  [1.0] | 80  º  0.476  [12.1]  ”  RCB-509 |  |

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| RCA511 Carbide Seat Insert 94 degrees 08 / 12mm (SHORT PROFILE)  RCA 511  4  º  R0.031” [0.8]  0.472  [12.0]  ” | RCA512 Carbide Seat Insert 94 degrees R 08 / 153mm | RCA513 Carbide Seat Insert 94-  R05 / 25-65 (OFFSET FOR  COUNTERBORING SMALL SEATS) |
| RCA521 Carbide Seat Insert 25 degrees’ / 85mm  RCA 521  25  º  0.335  [8.5]  ” | RCA522 Carbide Seat Insert 70 degrees’ / 77mm | RCA524 Carbide Seat Insert 82 degrees’ / 707mm  RCA 524  82  º  0.278  [7.1]  ” |
| RCB600 Carbide Seat Insert  R25-38-45-60 / 25-24-100 | RCB601 Carbide Seat Insert R1-  35-45-60-75 / 15-13-10-25 | RCB602 Carbide Seat Insert  R10-35-45-56 / 20-13 |
| RCB 600  60  º  45  º  38  º  R0.098” [2.5]  0.094  ”  [2.4]  0.039  ”  [1.0] | RCB 601  75  º  º  60  º  45  35  º  R0.039” [1.0]  0.051  ”  [1.3]  ”  [1.0]  0.039  0.098  ”  [2.5] | RCB 602  56  º  45  º  35  º  R0.039” [1.0]  0.079  ”  [2.0]  0.051  ”  [1.3] |

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| RCB603 Carbide Seat Insert R12  -45 degrees | RCB604 Carbide Seat Insert R2-  35-45-60-75-82 / 29-13-17-22 | RCB605 Carbide Seat Insert 35-  45-55-65-75 / 25-10-25-25 |
| RCB 603  45  º  R0.472” [12.0]  0.118  ”  [3.0] | RCB 604  82  º  75  º  60  º  45  º  35  º  R0.079” [2.0]  0.114  ”  [2.9]  0.051  ”  [1.3]  0.067  ”  [1.7]  0.087  ”  [2.2] | RCB 605  75  º  65  º  55  º  45  º  º  35  [2.5]  0.098  ”  0.098  [2.5]  ”  0.098  ”  [2.5]  0.039  ”  [1.0] |
| RCB606 Carbide Seat Insert 40R1-45-55-65-75 / 15-13-10-25  RCB 606  75  º  º  65  55  º  45  º  40  º  0.059  ”  [1.5]  0.051  ”  [1.3]  0.039  ”  [1.0]  0.098  ”  [2.5] | RCB607 Carbide Seat Insert  R15-35-45-R12-75-R35 / 19-15-15-  30  RCB 607  75  º  45  º  35  º  R0.138” [3.5]  R0.472” [12.0]  R0.059” [1.5]  ”  [1.9]  0.075  0.059  ”  [1.5] | RCB608 Carbide Seat Insert  R15-35-45-R12-75-R35-45 / 19-15-  10-30  RCB 608  45  º  75  º  45  º  35  º  R0.138” [3.5]  R0.472” [12.0]  R0.059” [1.5]  0.059  ”  [1.5]  0.118  ”  [3.0]  0.039  [1.0]  ” |
| RCB609 Carbide Seat Insert  R15-35-45-R12-75 / 19-15-25-30 | RCB610 Carbide Seat Insert  R15-35-45-R122-85 / 18-15-15-30 | RCA611 Carbide Seat Insert  R15-15-30-45-60-75 / 22-08 |
| RCB 609  75  º  45  º  35  º  R0.472” [12.0]  R0.059” [1.5]  0.075  ”  [1.9]  0.059  ”  [1.5] | RCB 610  85  º  45  º  35  º  R0.472” [12.0]  R0.059” [1.5]  0.059  ”  [1.5]  0.059  ”  [1.5] |  |

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| RCA612 Carbide Seat Insert  R12-25-45-65-75 / 12-08 | RCA613 Carbide Seat Insert R2-  30-45-60-R7 / 19-08 | RCA614 Carbide Seat Insert R4  -15 / 552mm | |
|  |  | RCA 614  15  º  0.217  ”  [5.5]  R0.157” [4.0] | |
| RCA615 Carbide Seat Insert R4  -30 / 570mm | RCA616 Carbide Seat Insert R5  -15 / 500mm  RCA 616  15  º  R0.197” [5.0]  0.197  ”  [5.0] | RCA617 Carbide Seat Insert R5  -30 / 600mm  RCA 617  30  º | R0.197” [5.0]  0.236” [6.0] |
| RCA618 Carbide Seat Insert R7  -15 / 44mm | RCA619 Carbide Seat Insert R7  -30 / 44mm | RCB620 Carbide Seat Insert R7  -15 | |
| RCA 618  15  º  R0.276” [7.0]  0.173  ”  [4.4] | RCA 619  30  º  R0.276” [7.0]  0.173  ”  [4.4] | RCB 620  15  º  0.253  [6.4]  ”  R0.276” [7.0] | |

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| RCB621 Carbide Seat Insert 75 -  R7 / 120mm | RCB622 Carbide Seat Insert 80 -  R7 / 900mm | RCA623 Carbide Seat Insert  R08-30-45-60-R13-R15 / 13-10 |
| RCB 621  75  º  R0.276” [7.0] | RCB 622  80  º  R0.276” [7.0] |  |
| RCA624 Carbide Seat Insert R1-  32-45-60 / 13-08  RCA 624  60  º  45  º  32  º  R0.039” [1.0]  0.051  ”  [1.3]  0.031  ”  [0.8] | RCA625 Carbide Seat Insert 30-  R1-32-45-60 / 10-08  RCA 625  60  º  45  º  32  º  30  º  R0.039” [1.0]  0.039  ”  [1.0]  0.031  ”  [0.8] | RCA626 Carbide Seat Insert R15-30-45-60 / 16-10  RCA 626  0.063  ”  [1.6]  0.041  ”  [1.0]  R0.059”  [R1.5]  30  º  45  º  60  º |
| RCA627 Carbide Seat Insert  R15-15-45-75 / 10-10 | RCA628 Carbide Seat Insert 30-  R15-15-45-75 / 10-10 | RCA629 Carbide Seat Insert  R15-38-45-60 / 13-11 |
| RCA 627  75  º  º  45  15  º  R0.059” [1.5]  0.039  ”  [1.0]  0.039  ”  [1.0] | RCA 628  75  º  45  º  15  º  30  º  R0.059” [1.5]  0.039  ”  [1.0]  0.039  ”  [1.0] | RCA 629  60  º  45  º  38  º  R0.059” [1.5]  0.051  ”  [1.3]  0.043  ”  [1.1] |

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| RCA630 Carbide Seat Insert 30-  94-R15-38-45-60 / 13-11 | RCA631 Carbide Seat Insert  R15-30-45-60 / 16-13 | RCA632 Carbide Seat Insert 30-  94-R15-30-45-60 / 16-13 |
| RCA 630  60  º  45  º  38  º  94  º  30  º  R0.059” [1.5]  0.051  ”  [1.3]  0.043  ”  [1.1] | RCA 631  60  º  45  º  30  º  R0.059” [1.5]  0.063  ”  [1.6]  0.051  ”  [1.3] | RCA 632  º  60  45  º  30  º  º  94  º  30  R0.059” [1.5]  0.063  ”  [1.6]  0.051  [1.3]  ” |
| RCA633 Carbide Seat Insert 30-  45-60 / 20 -14 | RCA634 Carbide Seat Insert  R16-30-45-60 / 16-15 | RCA635 Carbide Seat Insert 30-  94-R15-30-45-60 / 16-15 |
| RCA 633  0.078  ”  [2.0]  0.055  ”  [1.4]  30  º  45  º  60  º | RCA 634  60  º  45  º  30  º  R0.063” [1.6]  0.063  ”  [1.6]  0.059  ”  [1.5] | RCA 635  60  º  45  º  30  º  94  º  30  º  R0.059” [1.5]  0.059  [1.5]  ”  0.063  ”  [1.6] |
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| RCA636 Carbide Seat Insert  R15-32-45-60 / 16-10-10 (Offset  Bit)  RCA 636  60  º  45  º  32  º  R0.059” [1.5]  0.039  ”  [1.0]  0.039  ”  [1.0] | RCA637 Carbide Seat Insert R15-32-45-60 / 16-10-10  RCA 637  60  º  45  º  32  º  R0.059” [1.5]  0.063  ”  [1.6]  0.039  ”  [1.0] | RCA638 Carbide Seat Insert R15-30-45-75 / 16-10  RCA 638  75  º  45  º  30  º  R0.059” [1.5]  0.063  ”  [1.6]  0.039  ”  [1.0] |
| RCA639 Carbide Seat Insert 30R15-30-45-75 / 10-10  RCA 639  75  º  45  º  30  º  30  º  R0.059” [1.5]  0.039  ”  [1.0]  0.039  ”  [1.0] | RCA640 Carbide Seat Insert R15-32-45-60 / 16-12  RCA 640  60  º  45  º  32  º  R0.059” [1.5]  0.063  ”  [1.6]  0.047  ”  [1.2] | RCA641 Carbide Seat Insert R05-32-45-60 / 15-12  RCA 641  60  º  45  º  32  º  R0.020” [0.5]  0.059  ”  [1.5]  0.047  ”  [1.2] |
| RCA642 Carbide Seat Insert  R15-20-45-60 / 10-10 | RCA643 Carbide Seat Insert 30-  R15-20-45-60 / 10-10 | RCB644 Carbide Seat Insert R3-  30-R13-45-75-R3 / 25-12-12-30 |
| RCA 642  60  º  45  º  20  º  R0.059” [1.5]  0.039  ”  [1.0]  0.039  ”  [1.0] | RCA 643  60  º  45  º  20  º  30  º  R0.059” [1.5]  0.039  ”  [1.0]  0.039  ”  [1.0] | RCB 644  75  º  º  45  30  º  0.047  ”  [1.2]  0.047  ”  [1.2]  R0.118” [R3.0]  TAN 30º-94º  R0.512” [R13.0]  TAN 69º-55º  R0.118” [3.0]  TAN 0º-75º |

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| RCB646 Carbide Seat Insert R2  -35-45-65 / 20-14 - 08 | RCB651 Carbide Seat Insert 30-  94-30-45-60 / 31-15-30 | RCB652 Carbide Seat Insert 30-  94-32-45-60 / 10-08 |
| RCB 646  65  º  45  º  35  º  0.031  ”  [0.8]  0.055  ”  [1.4]  R0.079” [R2.0]  TAN 35º-94º | RCB 651  60  º  45  º  30  º  94  º  º  30  0.059  ”  [1.5]  0.118  ”  [3.0] | RCB 652  60  º  º  45  32  º  30  º  0.039  ”  [1.0]  0.031  ”  [0.8] |
| RCB653 Carbide Seat Insert 30-  45-60 / 12-10  RCB 653  60  º  45  º  30  º  0.039  ”  [1.0]  0.047  ”  [1.2] | RCB654 Carbide Seat Insert 45-  91 / 196-63mm  RCB 654  0.165  ”  [4.2]  0.249  ”  [6.3]  91  º  45  º  0.772  [19.6]  ” | RCA655 Carbide Seat Insert R  500’ / 1600mm  RCA 655  0.63  ”  R5.0  0.630  [16.0]  ” |
| RCA656 Carbide Seat Insert 30-  45-R10 / 15-15  RCA 656  R0.394”  R10.0  30  º  45  º  0.059  ”  [1.5]  0.059  ”  [1.5] | RCA700 Carbide Seat Insert  5-20-60 / 30mm - 25mm (100”) (Cat  3500 series)  RCA 700  60  º  20  º  5  º  0.098  ”  [2.5]  0.118  ”  [3.0] | RCA723 Carbide Seat Insert  5-20-45 / 20mm - 20mm  RCA 723  45  º  20  º  5  º  0.079  ”  [2.0]  0.079  ”  [2.0] |

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| RCA730 Carbide Seat Insert  5-20-45 / 20mm - 32mm (126”) | RCA731 Carbide Seat Insert 11-  20-45 / 18mm - 38mm (150”) | RCA756 Carbide Seat Insert For  CAT C9 Engines |
| RCA 730  45  º  20  º  5  º  0.079  ”  [2.0]  0.126  ”  [3.2] | RCA 731  45  º  20  º  11  º  0.071  ”  [1.8]  0.150  ”  [3.8] | RCA 756  5  º  25  º  60  º  0.055  ”  [1.4]  0.079  ”  [2.0] |
| RCA764 Carbide Seat Insert 15-  40-60 top, seat width 127-165 | RCA818 Carbide Seat Insert 15-  25-70 with 70 degree radius top, - 15-30 | RCA819 Carbide Seat Insert 15-  40-70 with 70 degree radius top, - 10-25 |
|  | RCA-818  [3.3]  0.129  ”  70  º  º  25  15  º  70  º  ”  [1.0]  0.039  [1.5]  ”  0.059  ”  [3.0]  0.118 | RCA-819  [4.6]  0.182  ”  º  70  º  40  º  15  70  º  0.039  ”  [1.0]  ”  0.039  [1.0]  ”  [2.5]  0.098 |

## RCC Profiles

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| RCC702 Carbide Seat Insert 20º | RCC703 Carbide Seat Insert 30º | RCC704 Carbide Seat Insert 45º |
| 20  º  0.386  [9.8]  ”  RCC-702 | 30  º  0.413” [10.5]  RCC-703 | 45  º  0.402” [10.2]  RCC-704 |
| RCC705 Carbide Seat Insert 94º R  08 / 18MM  94  º  R0.8  0.432” [11.0]  RCC-705 | RCC721 C Blank Carbide Seat  Insert 0-20-60 / 18-20  0.079  ”  [2.0]  0.071  ”  [1.8]  20  º  60  º  RCC-721 | RCC722 C Blank Carbide Seat  Insert 0-20-75 / 20-20  0.079  ”  [2.0]  0.079  ”  [2.0]  20  º  75  º  RCC-722 |
| RCC723 C Blank Carbide Seat  Insert 5-20-45 / 20-20 | RCC724 C Blank Carbide Seat  Insert 10-20-75 / 20-23 | RCC725 C Blank Carbide Seat  Insert 0-20-60 / 18-25 |
| 0.079  ”  [2.0]  0.079  ”  [2.0]  5  º  20  º  45  º  RCC-723 | 0.091  ”  [2.3]  0.079  ”  [2.0]  10  º  20  º  75  º  RCC-724 | 0.098  ”  [2.5]  0.071  ”  [1.8]  20  º  60  º  RCC-725 |

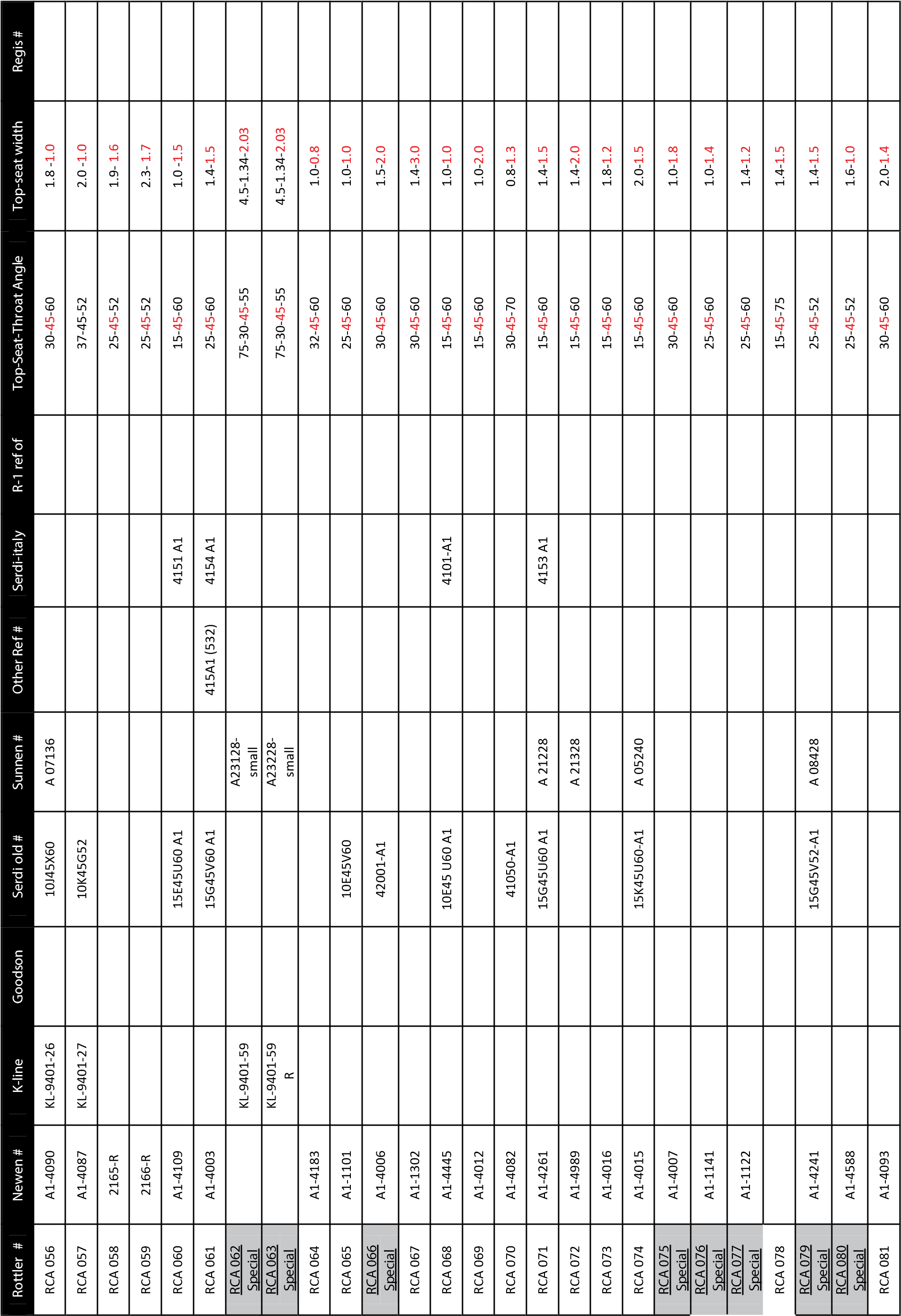
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| RCC726 C Blank Carbide Seat  Insert 5-20-75 / 20-25 | RCC727 C Blank Carbide Seat  Insert 15-2025-60 / 30-25 | RCC728 C Blank Carbide Seat  Insert 15-20-60 / 28-266 |
| 0.098  ”  [2.5]  0.079  ”  [2.0]  5  º  20  º  75  º  RCC-726 | 0.098  ”  [2.5]  0.118  ”  [3.0]  15  º  20.25  º  60  º  RCC-727 | 0.105  ”  [2.7]  0.110  ”  [2.8]  15  º  20  º  60  º  RCC-728 |
| RCC729 C Blank Carbide Seat  Insert 5-20-45 / 30-30  0.118  ”  [3.0]  0.118  ”  [3.0]  5  º  20  º  45  º  RCC-729 | RCC730 C Blank Carbide Seat  Insert 5-20-45 / 20-32  0.126  ”  [3.2]  0.079  ”  [2.0]  5  º  20  º  45  º  RCC-730 | RCC731 C Blank Carbide Seat  Insert 11-20-45 / 18-38  0.150  ”  [3.8]  0.071  ”  [1.8]  11  º  20  º  45  º  RCC-731 |
| RCC741 C Blank Carbide Seat  Insert T15 Locking screw 15-30-60 / 20-46 | RCC742 C Blank Carbide Seat  Insert 15-30-45 / 20-18 | RCC743 C Blank Carbide Seat  Insert 15-30-15 / 20-22 |
|  | 0.071  ”  [1.8]  0.079  ”  [2.0]  15  º  30  º  45  º  RCC-742 | 0.087  ”  [2.2]  0.079  ”  [2.0]  15  º  30  º  60  º  RCC-743 |

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| RCC761 C Blank Carbide Seat  Insert 30-45-60 / 16-19 | RCC762 C Blank Carbide Seat  Insert 30-45-60 / 20-25 | RCC763 C Blank Carbide Seat  Insert 30-45-60 / 22-20 |
| 0.075  ”  [1.9]  0.063  ”  [1.6]  30  º  45  º  60  º  RCC-761 | 0.098”[2.5]  0.079  ”  [2.0]  30  º  45  º  60  º  RCC-762 | 0.079  ”  [2.0]  0.087  ”  [2.2]  30  º  45  º  60  º  RCC-763 |
| RCC765 C Blank Carbide Seat  Insert 13-3018-60/20-38  0.150  ”  [3.8]  0.080  ”  [2.0]  15  º  30  º18’  60  º  RCC-765 |  |  |

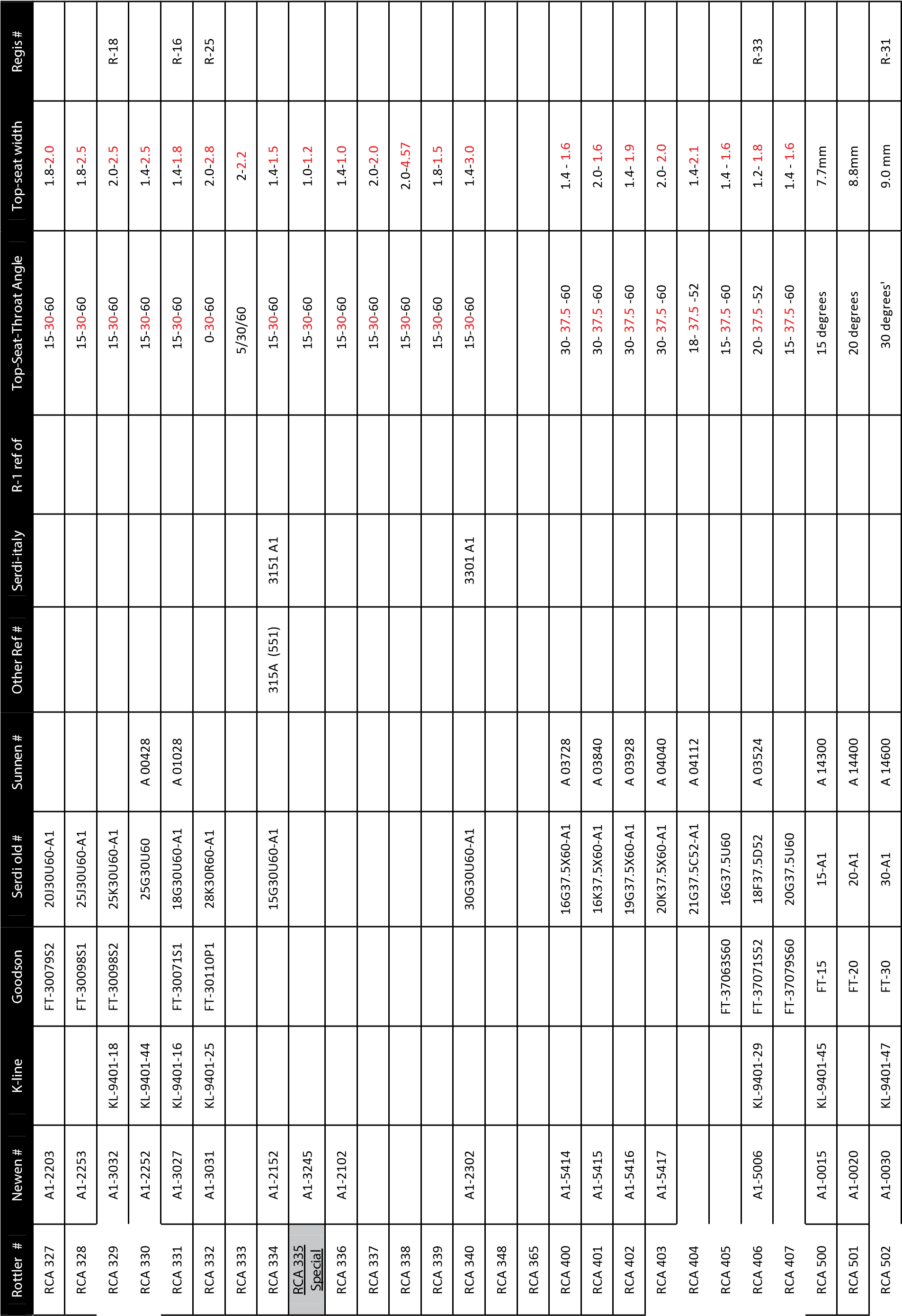
## SG Insert Cross Reference Chart

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Regis  # | R-  11 |  |  |  | R-  26 | R-  8 | R-  6 |  | R-  34 |  |  |  |  |  |  |  |  |  |  |  | R-  29 |  |  |  |  |  |  |
| Top-seat widt  h | 1.  2    -  1.  0 | 2.  0    -  1.  0 | 1.  2    -  1.  3 | 1.  6    -  1.  3 | 2.  0    -  1.  3 | 2.  0    -  1.  3 | 1.  8    -  1.  5 | 1.  8    -  1.  5 | 1.  8    -  1.  5 | 2.  0    -  1.  5 | 3.  0    -  1.  5 | 1.  2    -  1.  6 | 1.  2    -  1.  6 | 1.  4    -  1.  6 | 1.  6    -  1.  6 | 1.  6    -  1.  6 | 1.  6-  1.  6 | 1.  8    -  1.  6 | 2.  0    -  1.  6 | 2.  0    -  1.  6 | 2.  0    -  1.  6 | 3.  0    -  1.  6 | 3.  0    -  1.  8 | 1.  2    -  1.  9 | 1.  2    -  1.  9 | 1.  6    -  1.  9 | 1.  8    -  1.  9 |
| Top-  Se  at-Thr  oat An  gl  e | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -6  0 | 37-  45  -5  2 | 30-  45  -5  2 | 37-  45  -5  2 | 15-  45  -6  0 | 30-  45  -5  2 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -5  2 | 30-  45  -6  0 | 30-  45  -6  0 | 15-  45  -6  0 | 30-  45  -5  2 | 30-  45  -6  0 | 30-  45  -5  2 | 15-  45  -6  0 | 30-  45  -5  2 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -5  2 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -5  2 |
| R-  1    ref of | A/  B st  yle    ti  ps |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Se  rd  i-  ital  y |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Re  f  # |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sunn  en  # | A  05  42  4 | A -0  90  40 | A  08  22  4 | A  09  93  2 | A  05  94  0 | A  06  04  0 | A  06  33  6 | A  05  33  6 | A  07  03  6 | A  07  84  0 |  | A  07  52  4 | A  07  62  4 | A  09  72  8 | A  10  03  2 | A  10  13  2 | A  09  43  2 | A  09  63  6 |  | A  08  74  0 | A  06  64  0 | A  08  66  0 | A  10  26  0 | A  08  92  4 | A  09  12  4 | A  09  33  2 | A  07  73  6 |
| Serd  i  ol  d  # | 10  F  45  x  60  -  A  1 | 10  K  45  X60-A1 | 13  F  45  X  60  -  A  1 | 13  H  45  X60-A1 | 13  K  45  G52-A1 | 13  K  45  X52-A1 | 15  J  45  G52-A1 | 15  J  45  U6  0-  A1 | 15  J  45  X5  2-  A1 | 15  K  45  X60-A1 | 15  Q  45  X60-A1 | 16  F  45  X  52  -  A  1 | 16  F  45  X  60  -  A  1 | 16  G  45  X  60  -  A  1 | 16  H  45  U6  0-  A1 | 16  H  45  X52-A1 | 16  H  45  X60-A1 | 16  J  45  X5  2-  A1 | 16  K  45  U6  0-  1  A | 16  K  45  X52-A1 | 16  K  45  X60-A1 | 16  Q  45  X60-A1 | 18  Q  45  X60-A1 | 19  F  45  X  52  -  A  1 | 19  F  45  X  60  -  A  1 | 19  H  45  X60-A1 | 19  J  45  X5  2-  A1 |
| Goods  on | FT  -4  50  39  V1 | FT  -4  50  59  V3 | FT  -4  50  51  V4 |  | FT  -4  50  51  X1 | FT  -4  50  51  V3 | FT  -4  50  59  X1 |  |  |  |  |  | FT  -4  50  63  V3 |  |  |  |  | FT  -4  50  63  W1 |  |  | FT  -4  50  63  V2 |  |  |  |  |  |  |
| K-line | KL-9  40  1-  11 |  |  |  | KL-9  40  1-  28 | KL-9  40  1-  08 | KL-9  40  1-  06 |  |  |  |  |  |  | KL-9  40  1-  34 |  |  |  |  |  |  | KL-9  40  1-  36 |  |  | KL-9  40  1-  37 |  |  | KL-9  40  1-  30 |
| Ne  we  n  # | A1  -4  02  8 | A1  -4  30  3 | A1  -4  22  1 | A1  -4  48  0 | A1  -4  03  3 | A1  -4  03  4 | A1  -4  03  7 | A1  -4  02  5 | A1  -4  07  7 | A1  -4  17  7 | A1  -4  98  6 | A1  -4  13  5 | A1  -4  13  6 | A1  -4  39  1 | A1  -4  48  1 | A1  -4  48  2 |  | A1  -4  36  1 | A1  -4  11  7 | A1  -4  26  6 | A1  -4  04  0 | A1  -4  25  8 | A1  -4  48  3 | A1  -4  29  9 | A1  -4  30  6 | A1  -4  33  9 | A1  -4  14  6 |
| Rottler  # | RCA  00  1 | RCA  00  2 | RCA  00  3 | RCA  00  4 | RCA  00  5 | RCA  00  6 | RCA  00  7 | RCA  00  8 | RCA  00  9 | RCA  01  0 | RCA  01  1 | RCA  01  2 | RCA  01  3 | RCA  01  4 | RCA  01  5 | RCA  01  6 | RCA  01  7 | RCA  01  8 | RCA  01  9 | RCA  02  0 | RCA  02  1 | RCA  02  2 | RCA  02  3 | RCA  02  4 | RCA  02  5 | RCA  02  6 | RCA  02  7 |

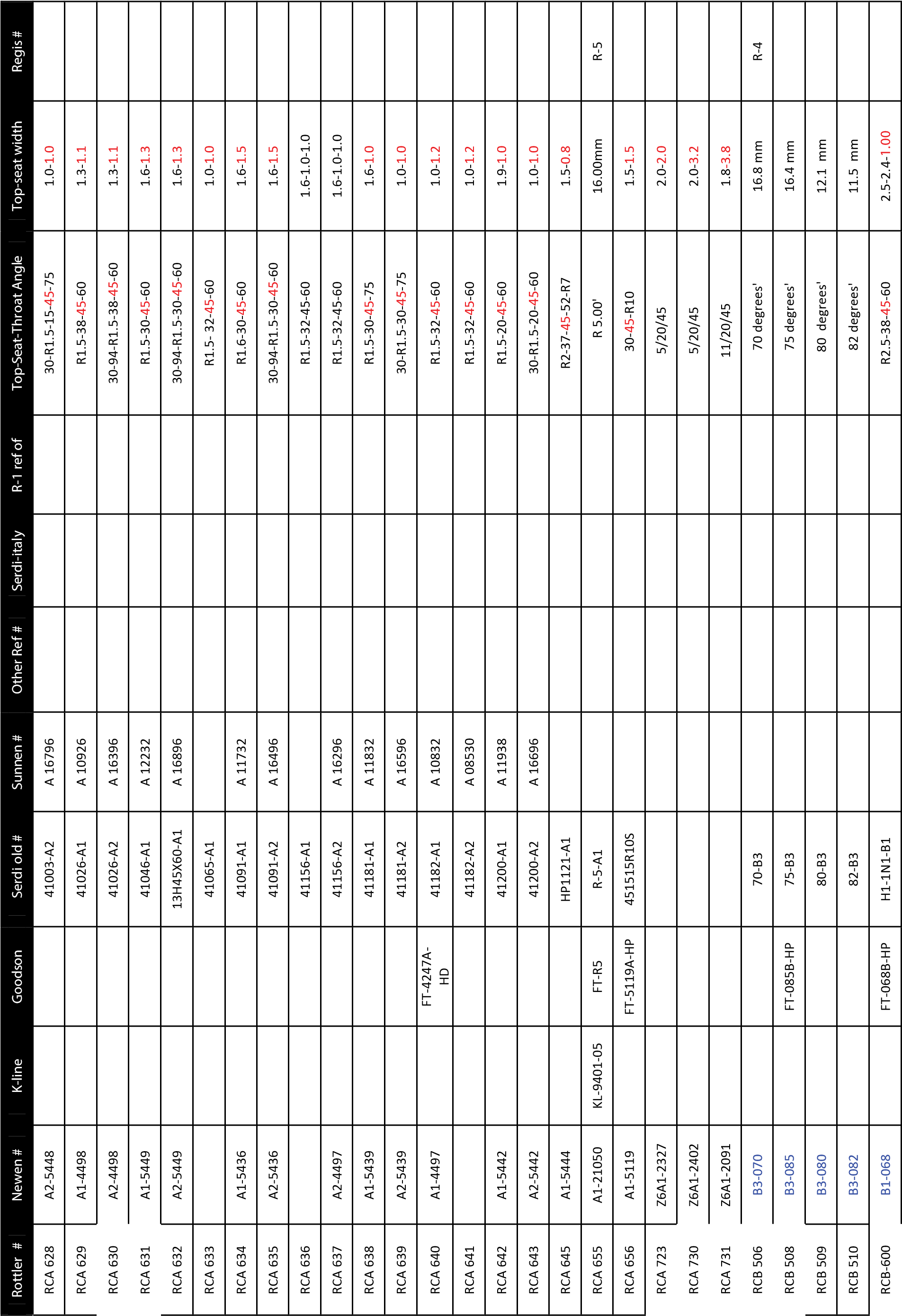
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Regis  # |  | R-  15 |  |  |  |  |  |  |  | R-  23 | R-  10 | R-  9 | R-  27 | R-  3 | R-  13 | R-  1 |  |  |  | R-  12 |  | R-  14 |  |  |  |  |  |  |
| Top-seat widt  h | 2.  0    -  1.  9 | 2.  0    -  1.  9 | 1.  6    -  2.  0 | 1.  6    -  2.  0 | 1.  4    -  2.  2 | 2.  0    -  2.  3 | 2.  0    -  2.  5 | 1.  4    -  1.  0 | 1.  8    -  1.  0 | 1.  6    -  1.  0 | 1.  6    -  1.  0 | 1.  6    -  1.  0 | 2.  0    -  1.  3 | 1.  0    -  1.  3 | 1.  0    -  1.  4 | 1.  8    -  1.  5 | 1.  4    -  1.  5 | 1.  4    -  1.  6 | 1.  8    -  1.  6 | 1.  0    -  1.  6 | 2.  0-  1.  7 | 1.  6    -  1.  8 | 0.  8    -  1.  9 | 1.  4    -  2.  0 | 1.  8    -  2.  0 | 1.  2    -  2.  0 | 1.  4    -  2.  5 | 1.  8  -2  .5 |
| Top-  Se  at-Thr  oat An  gl  e | 30-  45  -5  2 | 30-  45  -6  0 | 30-  45  -7  0 | 30-  45  -7  5 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -6  0 | 25-  45  -6  0 | 25  -4  5  -6  0 | 35-  45  -5  2 | 35-  45  -5  5 | 35-  45  -6  0 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -6  0 | 25-  45  -6  0 | 25-  45  -6  0 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -6  0 | 30-  45  -5  2 | 25-  45  -6  0 | 25-  45  -6  0 | 30-  45  -6  0 | 25-  45  -6  0 | 25-  45  -6  0 |
| R-  1    ref of |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Se  rd  i-  ital  y |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 42  03    A1 |  |  |  |  |
| Other Re  f  # |  |  |  |  |  |  |  | 41  0  A  1  (    136  5) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 42  0  A  1  (    15  88) |  |  |  |  |
| Sunn  en  # | A  10  34  0 | A  06  84  0 | A  08  33  2 | A  10  43  2 | A  10  51  2 | A  09  23  6 | A  10  64  0 | A  04  32  8 | A  04  43  6 | A  05  53  2 | A  05  63  2 | A  05  73  2 | A  06  14  0 | A  05  82  0 | A  06  22  0 | A  06  43  6 | A  08  12  8 | A  04  72  8 | A  04  83  6 | A  06  52  0 |  | A  06  73  2 |  | A  04  92  8 |  | A  06  92  4 | A  05  02  8 |  |
| Serd  i  ol  d  # | 19  K  45  X52-A1 | 19  K  45  X60-A1 | 20  H  45  X70-A1 | 20  H  45  X75-A1 | 22  G  45  X  60  -  A  1 | 23  K  45  X60-A1 | 25  K  45  X60-A1 | 10  G  45  V  60  -  A1 | 10  J  45  V6  0-  A1 | 10  H  45  F52-A1 | 10  H  45  F55-A1 | 10  H  45  F60-A1 | 13  K  45  X60-A1 | 13  E4  5  X  60  -  A1 | 14  E4  5  X  60  -  A1 | 15  J  45  X6  0-  A1 | 15  G  45  X  60  -  A  1 | 16  G  45  V  60  -  A1 | 16  J  45  V6  0-  A1 | 16  E4  5  X  60  -  A1 | 17  K  45  X60-A1 | 18  H  45  X60-A1 | 19  D  45  X  52  -  A1 | 20  G  45  V  60  -  A1 | 20  J  45  V6  0-  A1 | 20  F  45  X  60 | 25  G  45  V  60  -  A1 | 25  J  45  V6  0-  A1 |
| Goods  on |  | FT  -4  50  75  V1 |  |  |  |  |  | FT  -4  50  39  U1 | FT  -4  50  39  U2 | FT  -4  50  39  W1 | FT  -4  50  39  W2 | FT  -4  50  39  W3 | FT  -4  50  51  V1 | FT  -4  50  51  V2 | FT  -4  50  55  V1 | FT  -4  50  59  V1 | FT  -4  50  59  V2 | FT  -4  50  63  U1 | FT  -4  50  63  U2 | FT  -4  50  63  V1 | FT  -4  50  67  V1 | FT  -4  50  71  V1 | FT  -4  50  75  V2 | FT  -4  50  79  U1 | FT  -4  50  79  U2 | FT  -4  50  79  V1 | FT  -4  50  98  U1 | FT  -4  50  98  U2 |
| K-line |  | KL-9  40  1-  15 |  |  |  |  |  | KL-9  40  1-  32 | KL-9  40  1-  33 | KL-9  40  1-  23 | KL-9  40  1-  10 | KL-9  40  1-  09 | KL-9  40  1-  54 | KL-9  40  1-  03 | KL-9  40  1-  13 | KL-9  40  1-  01 |  |  | KL-9  40  1-  35 | KL-9  40  1-  12 |  | KL-9  40  1-  14 |  | KL-9  40  1-  38 | KL-9  40  1-  52 | KL-9  40  1-  07 | KL-9  40  1-  39 | KL-9  40  1-  53 |
| Ne  we  n  # | A1  -4  48  4 | A1  -4  04  2 | A1  -4  23  6 | A1  -4  48  5 |  | A1  -4  34  8 | A1  -4  48  7 | A1  -1  10  2 | A1  -1  10  3 | A1  -4  02  9 | A1  -4  03  0 | A1  -4  03  1 | A1  -4  03  5 | A1  -4  03  2 | A1  -4  03  6 | A1  -4  03  8 | A1  -4  21  6 | A1  -1  16  2 | A1  -1  16  3 | A1  -4  03  9 |  | A1  -4  04  1 | A1  -4  14  5 | A1  -1  20  2 | A1  -1  20  3 | A1  -4  04  3 | A1  -1  25  2 | A1  -1  25  3 |
| Rottler  # | RCA  02  8 | RCA  02  9 | RCA  03  0 | RCA  03  1 | RCA  03  2 | RCA  03  3 | RCA  03  4 | RCA  03  5 | RCA  03  6 | RCA  03  7 | RCA  03  8 | RCA  03  9 | RCA  04  0 | RCA  04  1 | RCA  04  2 | RCA  04  3 | RCA  04  4 | RCA  04  5 | RCA  04  6 | RCA  04  7 | RCA  04  8 | RCA  04  9 | RCA  05  0 | RCA  05  1 | RCA  05  2 | RCA  05  3 | RCA  05  4 | RCA  05  5 |

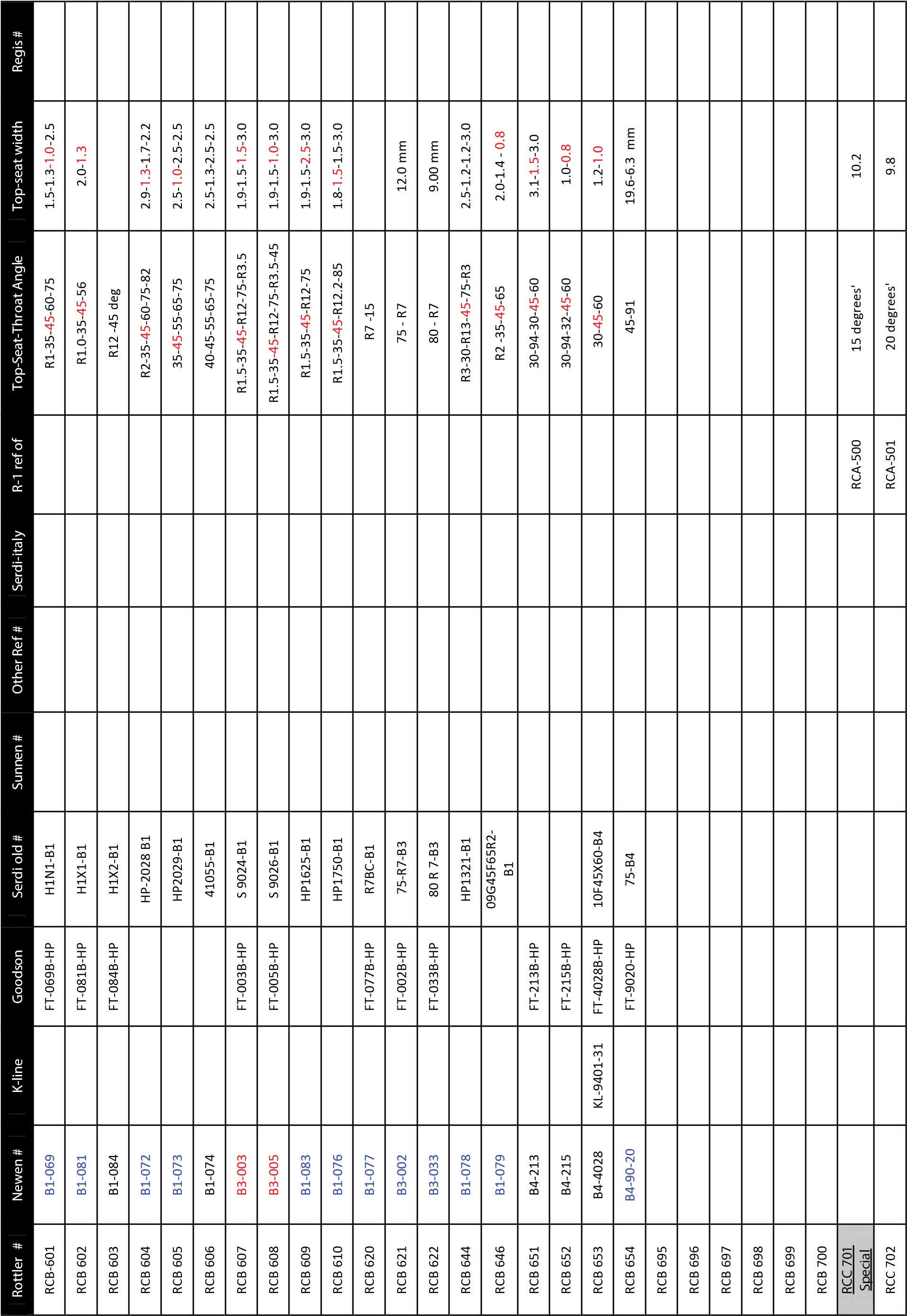


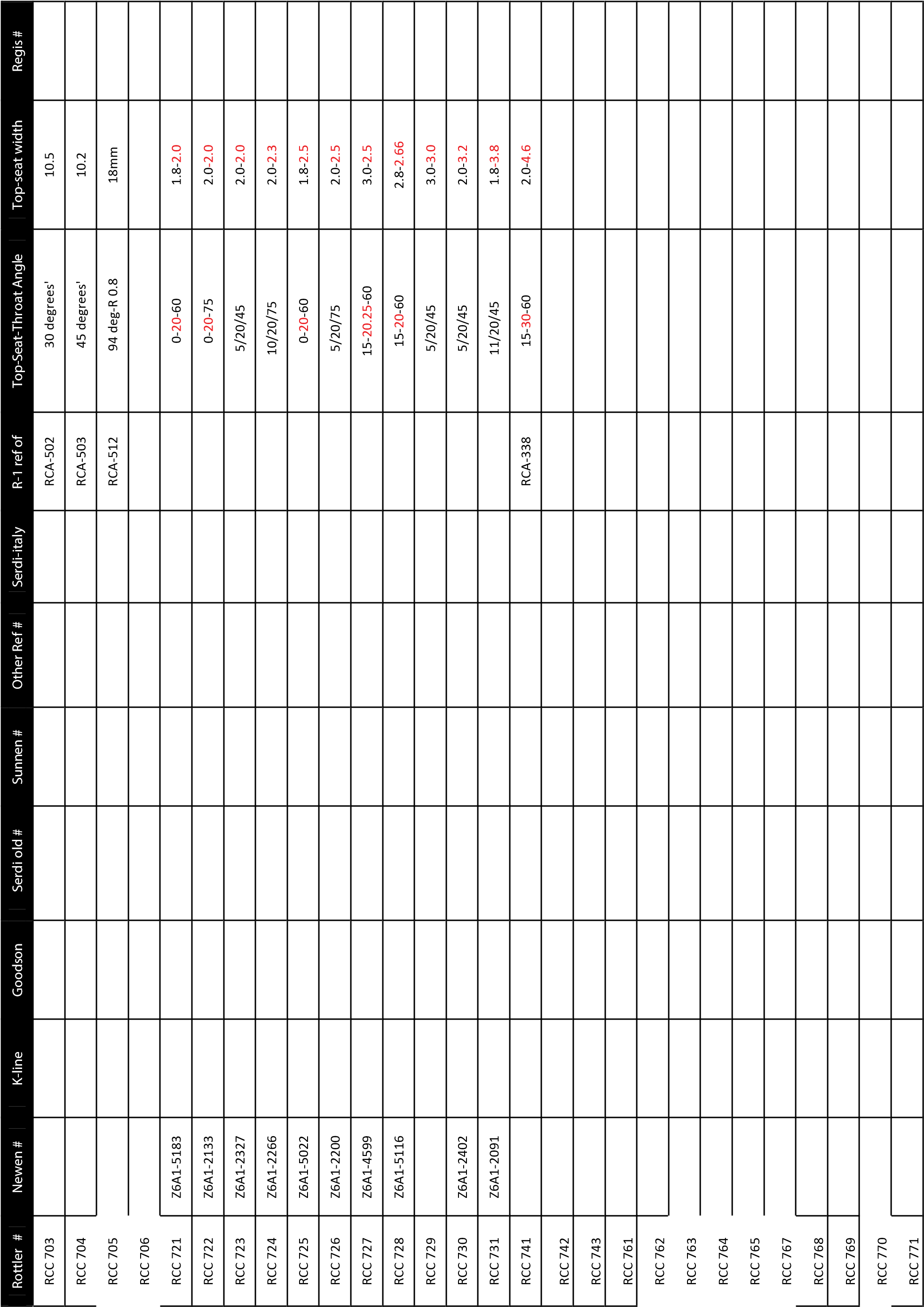
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| Regis  # |  |  |  | R-  2 |  |  |  |  |  |  |  |  | R-  28 |  |  |  | R-  30 | R-  17 |  |  |  |  | R-  19 | R-  21 |  |  | R-  20 | R-  22 |
| Top-seat widt  h | 0.  6  -2  .2 | 2.  0  -2  .2 |  | 1.  0-  1.  3 | 2.  0-  1.  3 | 2.  0-  1.  3 | 1.  4-  1.  5 | 1.  8-  1.  5 | 2.  0-  1.  5 | 1.  2-  1.  6 | 1.  8-  1.  6 | 1.  8-  1.  6 | 2.  0-  1.  6 | 2.  0-  1.  6 | 2.  2-  1.  6 | 2.  0-  1.  8 | 1.  0-  1.  9 | 2.  0-  1.  9 | 1.  2-  2.  0 | 2.  0-  2.  0 | 2.  0-  2.  2 | 3.  0-  3.  8 | 1.  6-  1.  0 | 2.  0-  1.  5 | 1.  8-  1.  5 | 2.  2-  1.  5 | 3.  0-  1.  5 | 1.  4-  2.  0 |
| Top-  Se  at-Thr  oat An  gl  e | 30-  45  -6  0 | 30-  45  -6  0 |  | 15-  30  -4  5 | 15-  30  -4  5 | 15-  30  -6  0 | 15-  30  -4  5 | 15-  30  -4  5 | 15-  30  -6  0 | 15-  30  -4  5 | 15-  30  -4  5 | 15-  30  -5  2 | 15-  30  -4  5 | 15-  30  -6  0 | 15-  30  -6  0 | 15-  30  -4  5 | 15-  30  -4  5 | 15-  30  -6  0 | 15-  30  -4  5 | 15-  30  -4  5 | 15-  30  -6  0 | 20-  30  -4  5 | 20-  30  -5  2 | 0-  30  -60 | 15-  30  -6  0 | 15-  30  -6  0 | 20-  30  -6  0 | 15-  30  -6  0 |
| R-  1    ref of |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Se  rd  i-  ital  y |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 32  01    A1 |
| Other Re  f  # |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sunn  en  # |  |  |  | A  00  82  0 | A  01  54  0 | A  01  24  0 | A  01  72  8 | A  01  43  6 | A  02  74  0 | A  01  92  4 | A  02  23  6 | A  02  33  6 | A  00  94  0 | A  01  64  0 |  | A  02  14  0 | A  01  82  0 | A  01  14  0 | A  02  42  4 | A  02  04  0 | A  02  54  0 | A  02  66  0 | A  01  33  2 |  | A  00  23  6 |  |  | A  00  32  8 |
| Serd  i  ol  d  # |  |  |  | 13  E3  0  U  45  -  A  1 | 13  K  30  U4  5-  1  A | 13  K  30  U6  0-  1  A | 15  G  30  U4  5-  1  A | 15  J  30  U4  5-  A1 | 15  K  30  U6  0-  1  A | 16  F  30  U4  5-  A1 | 16  J  30  U4  5-  A1 | 16  J  30  U5  2-  A1 | 16  K  30  U4  5-  1  A | 16  K  30  U6  0-  1  A | 16  L3  0  U  60  -  A  1 | 18  K  30  U4  5-  1  A | 19  E3  0  U  45  -  A  1 | 19  K  30  U6  0-  1  A | 20  F  30  U4  5-  A1 | 20  K  30  U4  5-  1  A | 22  K  30  U6  0-  1  A | 38  Q  30  D45-A1 | 10  H  30  D52-A1 | 15  K  30  R6  0-  A1 | 15  J  30  U6  0-  A1 | 15  L3  0  U  60  -  A  1 | 15  Q  30  D60-A1 | 20  G  30  U6  0 |
| Goods  on |  |  |  | FT  -3  00  51  S1 |  |  |  |  | FT  -3  00  59  S3 |  |  |  | FT  -3  00  63  S1 |  |  |  | FT  -3  00  75  S1 | FT  -3  00  75  S2 |  |  |  |  | FT  -3  00  39  T1 | FT  -3  00  59  P1 | FT  -3  00  59  S1 | FT  -3  00  59  S2 | FT  -3  00  59  T1 | FT  -3  00  79  S1 |
| K-line |  |  |  | KL-9  40  1-  02 |  |  |  |  | KL-9  40  1-  41 |  |  |  | KL-9  40  1-  42 |  |  |  | KL-9  40  1-  43 | KL-9  40  1-  17 |  |  |  |  | KL-9  40  1-  19 | KL-9  40  1-  21 | KL-9  40  1-  40 |  | KL-9  40  1-  20 | KL-9  40  1-  22 |
| Ne  we  n  # | A1  -4  48  6 | A1  -4  34  3 |  | A1  -3  02  3 | A1  -3  06  5 | A1  -3  06  1 | A1  -3  06  8 | A1  -3  06  4 | A1  -3  20  0 | A1  -3  07  8 | A1  -3  19  4 | A1  -3  19  5 | A1  -3  02  6 | A1  -3  06  7 | A1  -4  99  7 | A1  -3  14  6 | A1  -3  07  2 | A1  -3  02  9 | A1  -3  19  6 | A1  -3  08  4 | A1  -3  19  8 | A1  -3  19  9 | A1  -3  06  2 | A1  -3  02  4 | A1  -2  15  3 |  | A1  -3  02  5 | A1  -2  20  2 |
| Rottler  # | RCA  08  2 | RCA  08  3 | RCA  17  1 | RCA  30  0 | RCA  30  1 | RCA  30  2 | RCA  30  3 | RCA  30  4 | RCA  30  5 | RCA  30  6 | RCA  30  7 | RCA  30  8 | RCA  30  9 | RCA  31  0 | RCA  31  1 | RCA  31  2 | RCA  31  3 | RCA  31  4 | RCA  31  5 | RCA  31  6 | RCA  31  7 | RCA  31  8 | RCA  32  1 | RCA  32  2 | RCA  32  3 | RCA  32  4 | RCA  32  5 | RCA  32  6 |



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| Regis  # | R-  32 |  |  |  |  | R-  24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Top-seat widt  h | 8.  9    mm | 8.  0    mm | 8.  1    mm | 8.  3  m  m | 12    mm | 15.  3    mm | 2.  5-6.  5 | 8.  5    mm | 7.  7    mm | 7.  07  mm |  | 11.  97  m  m | 9.  3    mm | 2.  2-  0.  8 | 1.  2-  0.  8 | 1.  9-  0.  8 | 5.  52    mm | 5.  70  mm | 5.  00  mm | 6.  00  mm | 4.  4    mm | 4.  4    mm | 1.  3-  1.  0 | 1.  3-  0.  8 | 0.  7-  0.  8 | 1.  6-  1.  0 | 1.  0-  1.  0 |
| Top-  Se  at-Thr  oat An  gl  e | 45    de  gr  ees' | 45    deg  15    ' | 60    de  gr  ees' | 75    de  gr  ee  s | 94    deg-  R  0.  8 | 94    deg-  R  0.  8 | 94-  R0  .5 | 25    de  gr  ees' | 70    de  gr  ees' | 82    de  gr  ees' | 94-  CHA  ME  R 60  DEGR  EE | 45    DE  GR  EES | 37    de  gr  ees' | R1  .5  -1  5-  30  -  45  -60-75 | R1  .2  -2  5-  45  -65-75 | R2  -30-  45  -  60  -  R7 | R4 -  15 | R4 -  30 | R5 -  15 | R5 -  30 | R7 -  15 | R7 -  30 | R0  .8  -3  0-  45  -6  0-  R1  3-  1  R  .5 | R1  -32-  45  -6  0 | 30-  R1  .5  -3  2-  45  -60 | R1  .5  -3  0-  45  -6  0 | R1  .5  -1  5-  45  -7  5 |
| R-  1    ref of |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Se  rd  i-  ital  y |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Re  f  # |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sunn  en  # | A  14  90  0 |  | A  15  00  0 | A  15  20  0 |  |  |  | A  14  50  0 | A  15  10  0 | A  15  40  0 |  |  | A  14  80  0 |  |  |  | A  13  30  0 | A  13  40  0 | A  13  50  0 | A  13  20  0 | A  13  60  0 | A  13  70  0 |  | A  10  72  6 | A  16  19  6 | A  11  03  2 | A  12  24  0 |
| Serd  i  ol  d  # | 45-  A1 | 45.  15  -  A1 | 60-  A1 | 75-  A1 | L-  11 | L-  12 | L-  12  -offset | 25-  A1 |  | 82-  A1 |  |  | 37-  A1 | HP1126-A1 | HP1179-A1 | HP1118-A1 | R4  -15-A1 | R4  -30-A1 | R5  -15-A1 | R5  -30-A1 | R7  -15-A1 | R7  -30-A1 | HP1096-A1 | 40  80  5    -  A1 | 40  80  5-  A2 | 41  00  1-  A1 | 41  00  3-  A1 |
| Goods  on | F  T-45 |  | FT  -6  0 | FT  -7  5 |  | FT  -9  0 |  | FT  -2  5 | FT  -7  0 | FT  -8  2 |  |  | FT  -3  7 |  |  |  | FT  -5  121  A  -  H  P |  |  |  |  |  | FT  -5  118  A  -  H  P |  |  | FT  -5  043  A  -  HD |  |
| K-line | KL-9  40  1-  48 |  | KL-9  40  1-  49 | KL-9  40  1-  50 |  | KL-9  40  1-  24 |  | KL-9  40  1-  46 | KL-9  40  1-  04 | KL-9  40  1-  51 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ne  we  n  # | A1  -0  04  5 | A1  -4  88  8 | A1  -0  06  0 | A1  -0  07  5 | A1  -90-  12 | A1  -90-  16 |  | A1  -0  02  5 | A1  -0  07  0 | A1  -0  08  2 | A1  -91-  16 |  | A1  -0  03  7 | A1  -5  07  4 | A1  -5  44  7 | A1  -5  07  3 | A1  -5  12  1 | A1  -5  16  8 | A1  -5  42  8 | A1  -5  07  9 | A1  -5  42  9 | A1  -5  43  0 | A1  -5  11  8 | A1  -4  49  6 | A2  -4  49  6 | A1  -5  04  3 | A1  -5  44  8 |
| Rottler  # | RCA  50  3 | RCA  50  4 | RCA  50  5 | RCA  50  7 | RCA  51  1 | RCA  51  2 | RCA  51  3 | RCA  52  1 | RCA  52  2 | RCA  52  4 | RCA  52  5 | RCA  52  6 | RCA  52  7 | RCA  61  1 | RCA  61  2 | RCA  61  3 | RCA  61  4 | RCA  61  5 | RCA  61  6 | RCA  61  7 | RCA  61  8 | RCA  61  9 | RCA  62  3 | RCA  62  4 | RCA  62  5 | RCA  62  6 | RCA  62  7 |







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