



SSN11



PRAMET

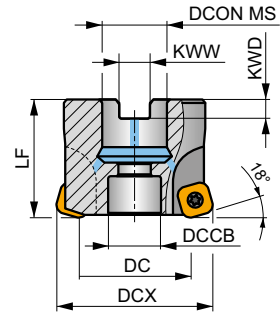
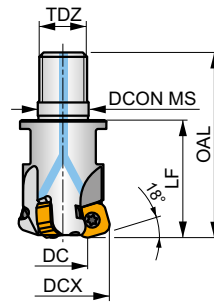
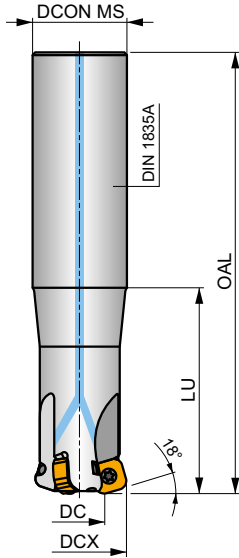
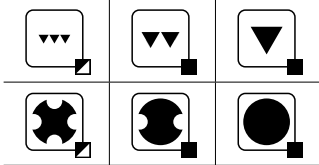
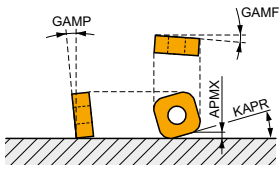
S



**High Feed Milling Cutter for SN.. 11 inserts with Internal Coolant, Next Generation**

High-feed milling cutter for bigger diameters utilising double-sided SNXG 11 inserts with eight cutting edges and APMX of 1.7 mm. Internal coolant. Suitable for a wide range of applications. Available in cylindrical, modular and arbor style in range of Ø32 up to Ø125 mm. Body treated for longer tool life.

|      |        |
|------|--------|
| KAPR | 18°    |
| APMX | 1.7 mm |



| Product             | DCX  | DC    | OAL  | DCON MS | DCCB | LU   | LF   | TDZ  | KWW  | KWD  | GAMF  | GAMP | ZNP  |      | max. | kg    | G339 |      |                   |
|---------------------|------|-------|------|---------|------|------|------|------|------|------|-------|------|------|------|------|-------|------|------|-------------------|
|                     | [mm] | [mm]  | [mm] | [mm]    | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [°]   | [°]  | [mm] | [mm] | [mm] | [mm]  | [mm] | [mm] | [mm]              |
| 32E3R070A32-SSN11-C | 32   | 18.3  | 150  | 32      | -    | 70   | -    | -    | -    | -    | -11.5 | -10  | 3    | -    | -    | 17500 | ✓    | 0.69 | G1339 C0314 -     |
| 32E3R120A32-SSN11-C | 32   | 18.3  | 200  | 32      | -    | 120  | -    | -    | -    | -    | -11.5 | -10  | 3    | -    | -    | 17500 | ✓    | 0.89 | G1339 C0314 -     |
| 35E3R050A32-SSN11-C | 35   | 21.2  | 200  | 32      | -    | 50   | -    | -    | -    | -    | -11   | -10  | 3    | -    | -    | 16800 | ✓    | 1.11 | G1339 C0314 -     |
| 32E3R040M16-SSN11-C | 32   | 18.3  | 63   | 17      | -    | -    | 40   | M16  | -    | -    | -11.5 | -10  | 3    | -    | -    | 17500 | ✓    | 0.17 | G1339 C0314 -     |
| 35E3R040M16-SSN11-C | 35   | 21.2  | 63   | 17      | -    | -    | 40   | M16  | -    | -    | -11   | -10  | 3    | -    | -    | 16800 | ✓    | 0.19 | G1339 C0314 -     |
| 40E4R043M16-SSN11-C | 40   | 26.2  | 66   | 17      | -    | -    | 43   | M16  | -    | -    | -10.5 | -10  | 4    | -    | ✓    | 15700 | ✓    | 0.23 | G1339 C0314 -     |
| 40A04R-SMOSN11-C    | 40   | 26.2  | -    | 16      | 12.4 | -    | 40   | -    | 8.4  | 5.6  | -10.5 | -10  | 4    | -    | ✓    | 15700 | ✓    | 0.19 | G1339 C0316 -     |
| 42A04R-SMOSN11-C    | 42   | 28.2  | -    | 16      | 14.1 | -    | 40   | -    | 8.4  | 5.6  | -10.5 | -10  | 4    | -    | ✓    | 15300 | ✓    | 0.21 | G1339 C0318 -     |
| 50A05R-SMOSN11-C    | 50   | 36.1  | -    | 22      | 18.1 | -    | 40   | -    | 10.4 | 6.3  | -10   | -10  | 5    | -    | ✓    | 14000 | ✓    | 0.31 | G1339 C0320 -     |
| 50A06R-SMOSN11-C    | 50   | 36.1  | -    | 22      | 18.1 | -    | 40   | -    | 10.4 | 6.3  | -10   | -10  | 6    | -    | ✓    | 14000 | ✓    | 0.31 | G1339 C0320 -     |
| 52A05R-SMOSN11-C    | 52   | 38.1  | -    | 22      | 18.1 | -    | 40   | -    | 10.4 | 6.3  | -10   | -10  | 5    | -    | ✓    | 13800 | ✓    | 0.34 | G1339 C0320 -     |
| 52A06R-SMOSN11-C    | 52   | 38.1  | -    | 22      | 18.1 | -    | 40   | -    | 10.4 | 6.3  | -10   | -10  | 6    | -    | ✓    | 13800 | ✓    | 0.33 | G1339 C0320 -     |
| 63A06R-SMOSN11-C    | 63   | 49.1  | -    | 22      | 18.1 | -    | 40   | -    | 10.4 | 6.3  | -10   | -10  | 6    | -    | ✓    | 12500 | ✓    | 0.46 | G1339 C0320 -     |
| 63A08R-SMOSN11-C    | 63   | 49.1  | -    | 22      | 18.1 | -    | 40   | -    | 10.4 | 6.3  | -10   | -10  | 8    | -    | ✓    | 12500 | ✓    | 0.47 | G1339 C0320 -     |
| 66A06R-SMOSN11-C    | 66   | 52.1  | -    | 27      | 18.1 | -    | 50   | -    | 12.4 | 7    | -10   | -10  | 6    | -    | ✓    | 12200 | ✓    | 0.74 | G1339 C0322 -     |
| 66A08R-SMOSN11-C    | 66   | 52.1  | -    | 27      | 18.1 | -    | 50   | -    | 12.4 | 7    | -10   | -10  | 8    | -    | ✓    | 12200 | ✓    | 0.75 | G1339 C0322 -     |
| 80A07R-SMOSN11-C    | 80   | 66.1  | -    | 27      | 38.1 | -    | 50   | -    | 12.4 | 7    | -10   | -10  | 7    | -    | ✓    | 11100 | ✓    | 0.95 | G1339 C0324 AC001 |
| 80A09R-SMOSN11-C    | 80   | 66.1  | -    | 27      | 38.1 | -    | 50   | -    | 12.4 | 7    | -10   | -10  | 9    | -    | ✓    | 11100 | ✓    | 1.04 | G1339 C0324 AC001 |
| 100A08R-SMOSN11-C   | 100  | 86.1  | -    | 32      | 45.1 | -    | 50   | -    | 14.4 | 8    | -10   | -10  | 8    | -    | ✓    | 9900  | ✓    | 1.63 | G1339 C0324 AC002 |
| 115A08R-SMOSN11-C   | 115  | 101.1 | -    | 32      | 45.1 | -    | 50   | -    | 14.4 | 8    | -10   | -10  | 8    | -    | ✓    | 9200  | ✓    | 2.34 | G1339 C0324 AC002 |
| 125A08R-SMOSN11-C   | 125  | 111.1 | -    | 40      | 56.1 | -    | 63   | -    | 16.4 | 9    | -10   | -10  | 8    | -    | ✓    | 8900  | ✓    | 3.39 | G1339 C0324 AC003 |



G1339



SNXG 1104..



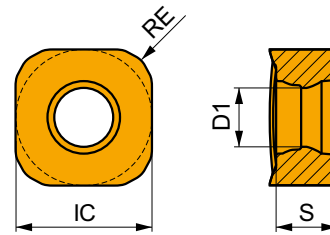
| C0314 | US 44012-T15P | 3.5 | M 4 | 12 | –           | –     | – | Flag T15P | –         |
|-------|---------------|-----|-----|----|-------------|-------|---|-----------|-----------|
| C0316 | US 44012-T15P | 3.5 | M 4 | 12 | D-T08P/T15P | FG-15 | – | –         | HCS 0840C |
| C0318 | US 44012-T15P | 3.5 | M 4 | 12 | D-T08P/T15P | FG-15 | – | –         | HS 90835  |
| C0320 | US 44012-T15P | 3.5 | M 4 | 12 | D-T08P/T15P | FG-15 | – | –         | HS 1030C  |
| C0322 | US 44012-T15P | 3.5 | M 4 | 12 | D-T08P/T15P | FG-15 | – | –         | HS 1230C  |
| C0324 | US 44012-T15P | 3.5 | M 4 | 12 | D-T08P/T15P | FG-15 | – | –         | –         |

| AC001 |  | KS 1230 | K.FMH27 |
|-------|--|---------|---------|
| AC002 |  | KS 1635 | K.FMH32 |
| AC003 |  | KS 2040 | K.FMH40 |

## SNGX 11

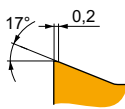


|      | IC     | D1   | S    |
|------|--------|------|------|
|      | [mm]   | [mm] | [mm] |
| 1104 | 10.600 | 4.56 | 4.76 |



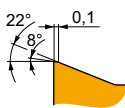
Suitability and starting values for cutting speed (vc), feed (f) and depth of cut (ap). Refer to our Machining Calculator app for further calculations.

| Product | RE   | P       |            |      | M       |            |      | K       |            |      | N       |            |      | S       |            |      | H       |            |      |
|---------|------|---------|------------|------|---------|------------|------|---------|------------|------|---------|------------|------|---------|------------|------|---------|------------|------|
|         |      | vc      | f          | ap   | vc      | f          | ap   | vc      | f          | ap   | vc      | f          | ap   | vc      | f          | ap   | vc      | f          | ap   |
|         | [mm] | [m/min] | [mm/tooth] | [mm] | [m/min] | [mm/tooth] | [mm] | [m/min] | [mm/tooth] | [mm] | [m/min] | [mm/tooth] | [mm] | [m/min] | [mm/tooth] | [mm] | [m/min] | [mm/tooth] | [mm] |



M geometry with positive design for high feed machining.

|                 |       |     |     |      |     |   |   |   |     |      |     |   |   |   |   |   |   |   |   |   |   |
|-----------------|-------|-----|-----|------|-----|---|---|---|-----|------|-----|---|---|---|---|---|---|---|---|---|---|
| SNGX 110416SR-M | 8215  | 1.6 | 260 | 0.60 | 1.0 | – | – | – | 245 | 0.60 | 1.0 | – | – | – | – | – | – | – | – | – |   |
|                 | M8310 | 1.6 | 275 | 0.60 | 1.0 | – | – | – | 260 | 0.60 | 1.0 | – | – | – | – | – | – | – | – | – |   |
|                 | M8330 | 1.6 | 260 | 0.60 | 1.0 | – | – | – | 245 | 0.60 | 1.0 | – | – | – | – | – | – | – | – | – |   |
|                 | M8340 | 1.6 | 245 | 0.60 | 1.0 | – | – | – | 230 | 0.60 | 1.0 | – | – | – | – | – | – | – | – | – |   |
|                 | M9325 | 1.6 | 305 | 0.60 | 1.0 | – | – | – | 285 | 0.60 | 1.0 | – | – | – | – | – | – | – | – | – | – |
|                 | M9340 | 1.6 | 270 | 0.60 | 1.0 | – | – | – | –   | –    | –   | – | – | – | – | – | – | – | – | – | – |



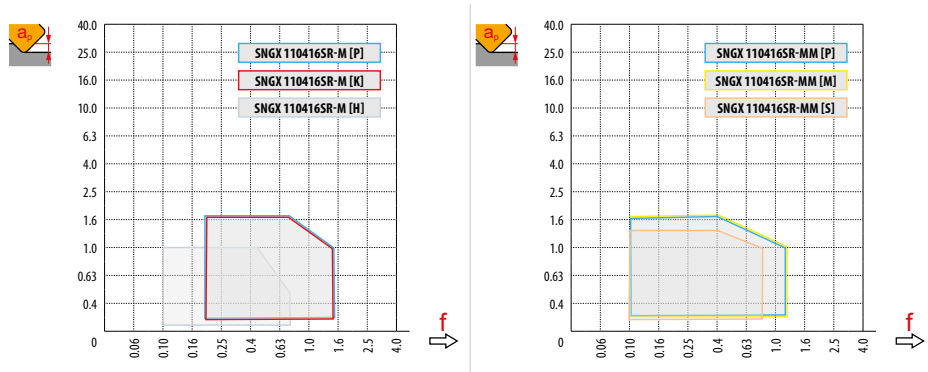
MM geometry with highly positive design for high feed machining.

|                  |       |     |     |      |     |     |      |     |   |   |   |   |   |    |      |      |     |   |   |   |
|------------------|-------|-----|-----|------|-----|-----|------|-----|---|---|---|---|---|----|------|------|-----|---|---|---|
| SNGX 110416SR-MM | M6330 | 1.6 | 175 | 0.60 | 1.0 | 125 | 0.54 | 1.0 | – | – | – | – | – | –  | 50   | 0.42 | 0.8 | – | – | – |
|                  | M8340 | 1.6 | 190 | 0.60 | 1.0 | 110 | 0.54 | 1.0 | – | – | – | – | – | 45 | 0.42 | 0.8  | –   | – | – | – |
|                  | M8345 | 1.6 | 150 | 0.60 | 1.0 | 90  | 0.54 | 1.0 | – | – | – | – | – | 35 | 0.42 | 0.8  | –   | – | – | – |
|                  | M9340 | 1.6 | 210 | 0.60 | 1.0 | 125 | 0.54 | 1.0 | – | – | – | – | – | 50 | 0.42 | 0.8  | –   | – | – | – |

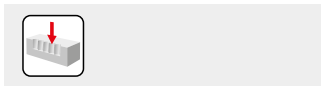


| $a_e$ /<br>DCX | 5 %  | 10 % | 15 % | 20 % | 25 % | 30 % | 40 % | 50 % | 60 % | 70 % | 75 % | 80 % | 90 % | 100 % |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                | 1.48 | 1.35 | 1.27 | 1.22 | 1.19 | 1.16 | 1.11 | 1.08 | 1.05 | 1.03 | 1.00 | 1.00 | 1.00 | 1.00  |
|                | 2.20 | 1.60 | 1.35 | 1.20 | 1.10 | 0.95 | 0.85 | 0.75 | 0.85 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00  |
|                | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.65 | 0.65 | 0.67 | 0.68 | 0.71 | 0.72 | 0.74 | 0.79 | 1.00  |

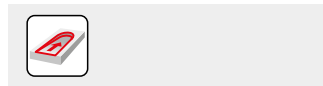
|  | SNGX 11 - M | SNGX 11 - MM |
|--|-------------|--------------|
|  | 1.6         | 1.6          |
|  | -           | -            |



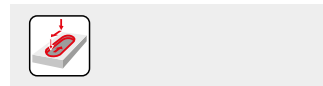
| HFC |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |        | 0.00   | 0.20   | 0.40   | 0.60   | 0.80   | 1.00   | 1.10   | 1.20   | 1.30   | 1.40   | 1.50   | 1.60   | 1.70   |
| 32  |        | 18.30  | 19.53  | 20.76  | 21.99  | 23.22  | 24.46  | 25.07  | 25.69  | 26.30  | 26.92  | 27.53  | 28.15  | 28.76  |
| 35  |        | 21.20  | 22.43  | 23.66  | 24.89  | 26.12  | 27.36  | 27.97  | 28.59  | 29.20  | 29.82  | 30.43  | 31.05  | 31.66  |
| 40  |        | 26.20  | 27.43  | 28.66  | 29.89  | 31.12  | 32.36  | 32.97  | 33.59  | 34.20  | 34.82  | 35.43  | 36.05  | 36.66  |
| 42  |        | 28.20  | 29.43  | 30.66  | 31.89  | 33.12  | 34.36  | 34.97  | 35.59  | 36.20  | 36.82  | 37.43  | 38.05  | 38.66  |
| 50  |        | 36.10  | 37.33  | 38.56  | 39.79  | 41.02  | 42.26  | 42.87  | 43.49  | 44.10  | 44.72  | 45.33  | 45.95  | 46.56  |
| 52  |        | 38.10  | 39.33  | 40.56  | 41.79  | 43.02  | 44.26  | 44.87  | 45.49  | 46.10  | 46.72  | 47.33  | 47.95  | 48.56  |
| 63  |        | 49.10  | 50.33  | 51.56  | 52.79  | 54.02  | 55.26  | 55.87  | 56.49  | 57.10  | 57.72  | 58.33  | 58.95  | 59.56  |
| 66  |        | 52.10  | 53.33  | 54.56  | 55.79  | 57.02  | 58.26  | 58.87  | 59.49  | 60.10  | 60.72  | 61.33  | 61.95  | 62.56  |
| 80  |        | 66.10  | 67.33  | 68.56  | 69.79  | 71.02  | 72.26  | 72.87  | 73.49  | 74.10  | 74.72  | 75.33  | 75.95  | 76.56  |
| 100 |        | 86.10  | 87.33  | 88.56  | 89.79  | 91.02  | 92.26  | 92.87  | 93.49  | 94.10  | 94.72  | 95.33  | 95.95  | 96.56  |
| 115 |        | 101.10 | 102.33 | 103.56 | 104.79 | 106.02 | 107.26 | 107.87 | 108.49 | 109.10 | 109.72 | 110.33 | 110.95 | 111.56 |
| 125 | 111.10 | 112.33 | 113.56 | 114.79 | 116.02 | 117.26 | 117.87 | 118.49 | 119.10 | 119.72 | 120.33 | 120.95 | 121.56 |        |
|     |        | -      | 0.20   | 0.40   | 0.60   | 0.80   | 1.00   | 1.10   | 1.20   | 1.30   | 1.40   | 1.50   | 1.60   | 1.70   |
|     |        | -      | 1.37   | 0.98   | 0.81   | 0.71   | 0.64   | 0.62   | 0.59   | 0.58   | 0.56   | 0.54   | 0.53   | 0.52   |



| SNGX |     |           |
|------|-----|-----------|
|      |     | $f_{max}$ |
| 32   | 5.0 | 0.25      |
| 35   | 5.0 | 0.25      |
| 40   | 5.2 | 0.30      |
| 42   | 5.2 | 0.30      |
| 50   | 5.3 | 0.30      |
| 52   | 5.3 | 0.30      |
| 63   | 5.4 | 0.30      |
| 66   | 5.4 | 0.30      |
| 80   | 5.5 | 0.35      |
| 100  | 5.5 | 0.35      |
| 115  | 5.5 | 0.35      |
| 125  | 5.5 | 0.35      |



| SNGX (HFC) |     |         |
|------------|-----|---------|
|            |     |         |
| 32         | 0.8 | 1.4/100 |
| 35         | 0.8 | 1.4/100 |
| 40         | 0.7 | 1.2/100 |
| 42         | 0.7 | 1.2/100 |
| 50         | 0.5 | 0.9/100 |
| 52         | 0.5 | 0.9/100 |
| 63         | 0.4 | 0.7/100 |
| 66         | 0.4 | 0.7/100 |
| 80         | 0.3 | 0.5/100 |
| 100        | 0.2 | 0.3/100 |
| 115        | 0.2 | 0.3/100 |
| 125        | 0.2 | 0.3/100 |



| SNGX (HFC) |     |           |
|------------|-----|-----------|
|            |     | $f_{max}$ |
| 32         | 0.2 | 0.3       |
| 35         | 0.2 | 0.3       |
| 40         | 0.2 | 0.3       |
| 42         | 0.2 | 0.3       |
| 50         | 0.3 | 0.4       |
| 52         | 0.3 | 0.4       |
| 63         | 0.3 | 0.4       |
| 66         | 0.3 | 0.4       |
| 80         | 0.3 | 0.4       |
| 100        | 0.3 | 0.4       |
| 115        | 0.3 | 0.4       |
| 125        | 0.3 | 0.4       |






|     |  | 3     | 5     | 10    | 15    | 20    | 30    | 40    | 50    | 60    | 80    | 100   |
|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 32  |  | 0.620 | 0.800 | 1.131 | 1.386 | 1.600 | 1.960 | 2.263 | 2.530 | 2.771 | 3.200 | 3.578 |
| 35  |  | 0.648 | 0.837 | 1.183 | 1.449 | 1.673 | 2.049 | 2.366 | 2.646 | 2.898 | 3.347 | 3.742 |
| 40  |  | 0.693 | 0.894 | 1.265 | 1.549 | 1.789 | 2.191 | 2.530 | 2.828 | 3.098 | 3.578 | 4.000 |
| 42  |  | 0.710 | 0.917 | 1.296 | 1.587 | 1.833 | 2.245 | 2.592 | 2.898 | 3.175 | 3.666 | 4.099 |
| 50  |  | 0.775 | 1.000 | 1.414 | 1.732 | 2.000 | 2.449 | 2.828 | 3.162 | 3.464 | 4.000 | 4.472 |
| 52  |  | 0.790 | 1.020 | 1.442 | 1.766 | 2.040 | 2.498 | 2.884 | 3.225 | 3.533 | 4.079 | 4.561 |
| 63  |  | 0.869 | 1.122 | 1.587 | 1.944 | 2.245 | 2.750 | 3.175 | 3.550 | 3.888 | 4.490 | 5.020 |
| 66  |  | 0.890 | 1.149 | 1.625 | 1.990 | 2.298 | 2.814 | 3.250 | 3.633 | 3.980 | 4.596 | 5.138 |
| 80  |  | 0.980 | 1.265 | 1.789 | 2.191 | 2.530 | 3.098 | 3.578 | 4.000 | 4.382 | 5.060 | 5.657 |
| 100 |  | 1.095 | 1.414 | 2.000 | 2.449 | 2.828 | 3.464 | 4.000 | 4.472 | 4.899 | 5.657 | 6.325 |
| 115 |  | 1.175 | 1.517 | 2.145 | 2.627 | 3.033 | 3.715 | 4.290 | 4.796 | 5.254 | 6.066 | 6.782 |
| 125 |  | 1.225 | 1.581 | 2.236 | 2.739 | 3.162 | 3.873 | 4.472 | 5.000 | 5.477 | 6.325 | 7.071 |

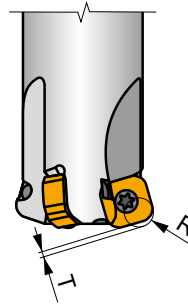


| SNGX |      |      |      |      |
|------|------|------|------|------|
|      | 0.2  | 0.5  | 1.0  | 1.7  |
|      | 1.20 | 1.00 | 0.50 | 0.25 |



### SNGX (HFC)

|  | DMIN  | DMAX  |  |  |
|---|-------|-------|---|---|
| <b>32</b>   | 48.0  | 63.8  | 0.7   | 1.4   |
| <b>35</b>   | 54.0  | 69.8  | 0.8   | 1.5   |
| <b>40</b>   | 64.0  | 79.8  | 0.9   | 1.5   |
| <b>42</b>   | 68.0  | 83.8  | 1.0   | 1.6   |
| <b>50</b>   | 84.0  | 99.8  | 0.9   | 1.4   |
| <b>52</b>   | 88.0  | 103.8 | 1.0   | 1.4   |
| <b>63</b>   | 109.0 | 125.8 | 1.0   | 1.4   |
| <b>66</b>   | 115.0 | 131.8 | 1.1   | 1.4   |
| <b>80</b>   | 143.0 | 159.8 | 1.0   | 1.3   |
| <b>100</b>  | 183.0 | 199.8 | 0.9   | 1.1   |
| <b>115</b>  | 213.0 | 229.8 | 1.1   | 1.3   |
| <b>125</b>  | 233.0 | 249.8 | 1.2   | 1.4   |



| SNGX               | R   | T    |
|--------------------|-----|------|
| <b>SNGX 110416</b> | 4.6 | 0.92 |