

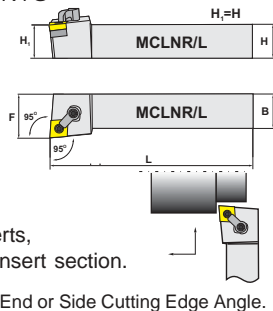
CARBIDE INSERT TOOLHOLDERS

SERIES 804:



MCLN R/L TOOLHOLDER SYSTEM M & C FOR NEGATIVE 80° DIAMOND CNM... INSERTS

Sets include
RH HOLDER
&
10TiN Coated Inserts

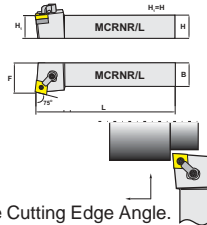


For a full list of available inserts,
please refer to our Carbide Insert section.

5° End or Side Cutting Edge Angle.

| Description | Shank H=B | OAL L | Head F | CNM Insert | Order No. | | Price | Order No. RH Sets | Price |
|---------------|--------------|----------|-----------|---------------|-----------|---------|-------|----------------------|-------|
| | | | | | RH | LH | | | |
| MCLNR/L 12-4B | 3/4 | 4 1/2 | 1.0 | 432 | 7100121 | 7100122 | | 7105121 | |
| MCLNR/L 16-4D | 1 | 6 | 1.25 | | 7100161 | 7100162 | | | |
| MCLNR/L 20-4D | 1-1/4 | 6 | 1.50 | | 7100201 | 7100202 | | | |
| MCLNR/L 24-4D | 1-1/2 | 6 | 2 | | 7100241 | 7100242 | | | |
| MCLNR/L 16-5D | 1 | 6 | 1.25 | 543 | 7101161 | 7101162 | | - | |
| MCLNR/L 20-5D | 1-1/4 | 6 | 1.50 | | 7101201 | 7101202 | | | |
| MCLNR/L 24-5D | 1-1/2 | 6 | 2 | 643 | 7101241 | 7101242 | | - | |
| MCLNR/L 16-6D | 1 | 6 | 1.25 | | 7102161 | 7102162 | | | |
| MCLNR/L 20-6D | 1-1/4 | 6 | 1.50 | | 7102201 | 7102202 | | | |
| MCLNR/L 24-6E | 1-1/2 | 7 | 2 | | 7102241 | 7102242 | | | |

MCRN R/L TOOLHOLDERS SYSTEM M & C FOR NEGATIVE 80° DIAMOND CNM... INSERTS

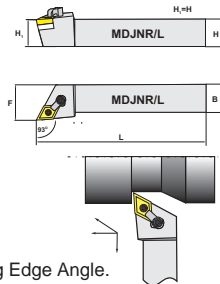


For a full list of available inserts,
please refer to our Carbide Insert section.

15° Side Cutting Edge Angle.

| Description | Shank H=B | OAL L | Head F | CNM Insert | Order Number | | Price |
|---------------|--------------|----------|-----------|---------------|--------------|---------|-------|
| | | | | | RH | LH | |
| MCRNR/L 16-4D | 1 | 6 | 1.25 | 432 | 7120161 | 7120162 | |
| MCRNR/L 20-5D | 1-1/4 | | 1.50 | 543 | 7121201 | 7121202 | |
| MCRNR/L 20-6D | 1-1/4 | | 1.50 | 643 | 7122201 | 7122202 | |

MDJN R/L TOOLHOLDERS SYSTEM M & C FOR NEGATIVE 55° DIAMOND DNM... INSERTS



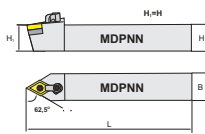
For a full list of available inserts,
please refer to our Carbide Insert section.

3° Side Cutting Edge Angle.

| Description | Shank | | OAL L | Head F | DNM Insert | Order Number | | Price |
|---------------|-------|-------|----------|-----------|---------------|--------------|---------|-------|
| | H | B | | | | RH | LH | |
| MDJNR/L 12-4B | 3/4 | 3/4 | 4 1/2 | 1 | 432 | 7151241 | 7151242 | |
| MDJNR/L 16-4D | 1 | 1 | 6 | 1-1/4 | | 7151651 | 7151652 | |
| MDJNR/L 20-4D | 1-1/4 | 1-1/4 | 6 | 1-1/2 | | 7152041 | 7152042 | |
| MDJNR/L 24-4D | 1-1/2 | 1-1/2 | 6 | 2 | | 7152441 | 7152442 | |
| MDJNR/L 85-4D | 1-1/4 | 1 | 6 | 1-1/4 | 543 | 7152851 | 7152852 | |
| MDJNR/L 16-5D | 1 | 1 | 6 | 1-1/4 | | 7154161 | 7154162 | |
| MDJNR/L 20-5D | 1-1/4 | 1-1/4 | 6 | 1-1/2 | | 7154201 | 7154202 | |
| MDJNR/L 24-5D | 1-1/2 | 1-1/2 | 6 | 2 | | 7154241 | 7154242 | |
| MDJNR/L 86-5E | 1-1/2 | 1 | 7 | 1-1/4 | | 7154861 | 7154862 | |

MDPNN TOOLHOLDERS

System M & C for negative 55°
Diamond DNM... INSERTS

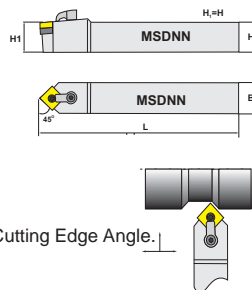


For a full list of available inserts,
please refer to our Carbide Insert section.

27.5° Side Cutting Edge Angle.

| Description | Shank H = B | OAL L | DNM Insert | Order No. | Price |
|-------------|----------------|----------|---------------|-----------|-------|
| MDPNN 16-4D | 1 | 6 | 432 | 6714165 | |
| MDPNN 20-4D | 1-1/4 | | 6714204 | | |
| MDPNN 20-5D | 1-1/4 | 6 | 543 | 6714320 | |
| MDPNN 24-5D | 1-1/2 | | 6714324 | | |

MSDNN TOOLHOLDERS SYSTEM M & C FOR NEGATIVE SQUARE SNM... INSERTS

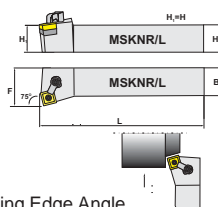


For a full list of available inserts,
please refer to our Carbide Insert section.

45° Side Cutting Edge Angle.

| Description | Shank | | OAL L | SNM... Insert | Order No. | Price |
|-------------|-------|-------|----------|------------------|--------------|-------|
| | B | H | | | | |
| MSDNN 12-4B | 3/4 | 3/4 | 4-1/2 | 432 | 6734412 | |
| MSDNN 16-4D | 1 | 1 | 6 | | 6734416 | |
| MSDNN 85-4D | 1 | 1-1/4 | 6 | | 6734485 | |
| MSDNN 16-5D | 1 | 1 | 6 | 543 | 6734516 | |
| MSDNN 20-5D | 1-1/4 | 1-1/4 | 6 | | 6734520 | |
| MSDNN 85-5D | 1 | 1-1/4 | 6 | | 6734585 | |
| MSDNN 86-5E | 1 | 1-1/2 | 7 | 643 | 6734586 | |
| MSDNN 16-6D | 1 | 1 | 6 | | 6734616 | |
| MSDNN 20-6D | 1-1/4 | 1-1/4 | 6 | | 6734620 | |
| MSDNN 24-6E | 1-1/2 | 1-1/2 | 7 | | 6734624 | |
| MSDNN 85-6D | 1 | 1-1/4 | 6 | | 6734685 | |
| MSDNN 86-6E | 1 | 1-1/2 | 7 | | 6734686 | |

MSKN R/L TOOLHOLDERS SYSTEM M & C FOR NEGATIVE SQUARE SNM... INSERTS



For a full list of available inserts,
please refer to our Carbide Insert section.

15° End Cutting Edge Angle.

| Description | Shank H=B | OAL L | Head F | SNM... Insert | Order Number | | Price |
|---------------|--------------|----------|-----------|------------------|--------------|---------|-------|
| | | | | | RH | LH | |
| MSKNR/L 12-4B | 3/4 | 4-1/2 | 1 | 432 | 7370121 | 7370122 | |
| MSKNR/L 16-4D | 1 | 6 | 1-1/4 | | 7370161 | 7370162 | |
| MSKNR/L 16-5D | 1 | 6 | 1-1/4 | 543 | 7371161 | 7371162 | |
| MSKNR/L 20-5D | 1-1/4 | 6 | 1-1/2 | | 7371201 | 7371202 | |
| MSKNR/L 20-6D | 1-1/4 | 6 | 1-1/2 | 643 | 7372201 | 9372202 | |
| MSKNR/L 24-6E | 1-1/2 | 7 | 2 | | 7372241 | 9372242 | |

CARBIDE INSERT TOOLHOLDERS

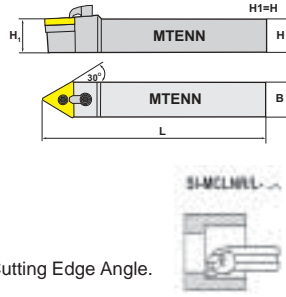
SERIES 804:



CUTTING TOOLS - INDEXABLE

MTENN TOOLHOLDERS

SYSTEM M & C FOR NEGATIVE 60° TRIANGLE **TNM...** INSERTS



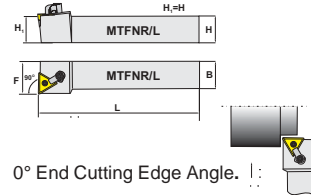
For a full list of available inserts, please refer to our Carbide Insert section.

30° Side Cutting Edge Angle.

| Description | Shank H=B | OAL L | Head F | TNM Insert | RH | | Price |
|-------------|-----------|-------|--------|------------|---------|--|-------|
| | | | | | | | |
| MTENN 10-3B | 5/8 | 5/8 | 4-1/2 | | 6741310 | | |
| MTENN 12-3B | 3/4 | 3/4 | 4-1/2 | 332 | 6741312 | | |
| MTENN 64-3D | 3/4 | 1 | 6 | | 6741364 | | |
| MTENN 12-4B | 3/4 | 3/4 | 4-1/2 | | 6741412 | | |
| MTENN 16-4D | 1 | 1 | 6 | 432 | 6741416 | | |
| MTENN 85-4D | 1 | 1-1/4 | 6 | | 6741485 | | |
| MTENN 86-4E | 1 | 1-1/2 | 7 | | 6741486 | | |
| MTENN 16-5D | 1 | 1 | 6 | | 6741516 | | |
| MTENN 20-5D | 1-1/4 | 1-1/4 | 6 | 543 | 6741520 | | |
| MTENN 24-5E | 1-1/2 | 1-1/2 | 7 | | 6741524 | | |
| MTENN 86-5E | 1 | 1-1/2 | 7 | | 6741585 | | |

MTFN R/L TOOLHOLDERS

SYSTEM M & C FOR NEGATIVE 60° TRIANGLE **TNM...** INSERTS.



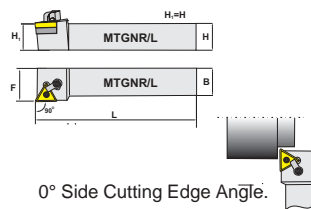
For a full list of available inserts, please refer to our Carbide Insert section.

0° End Cutting Edge Angle.

| Description | Shank H=B | OAL L | Head F | TNM Insert | Order Number | | Price |
|---------------|-----------|-------|--------|------------|--------------|---------|-------|
| | | | | | RH | LH | |
| MTFNR/L 12-3B | 3/4 | 4-1/2 | 1 | 332 | 7460121 | 7460122 | |
| MTFNR/L 16-3D | 1 | 6 | 1-1/4 | | 7460161 | 7460162 | |
| MTFNR/L 16-4D | 1 | 6 | 1-1/4 | 432 | 7462161 | 7462162 | |
| MTFNR/L 20-4D | 1-1/4 | 6 | 1-1/2 | | 7462201 | 7462202 | |
| MTFNR/L 20-5D | 1-1/4 | 6 | 1-1/2 | 543 | 7463201 | 7463202 | |

MTGN R/L TOOLHOLDERS

SYSTEM M & C FOR NEGATIVE 60° TRIANGLE **TNM...** INSERTS



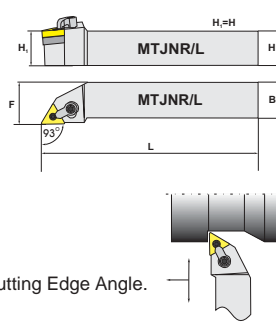
For a full list of available inserts, please refer to our Carbide Insert section.

0° Side Cutting Edge Angle.

| Description | Shank H=B | OAL L | Head F | TNM Insert | Order Number | | Price |
|---------------|-----------|-------|--------|------------|--------------|---------|-------|
| | | | | | RH | LH | |
| MTGNR/L 12-3B | 3/4 | 4-1/2 | 1 | 332 | 7420121 | 7420122 | |
| MTGNR/L 16-3D | 1 | 6 | 1-1/4 | | 7420161 | 7420162 | |
| MTGNR/L 16-4D | 1 | 6 | 1-1/4 | 432 | 7422161 | 7422162 | |
| MTGNR/L 20-4D | 1-1/4 | 6 | 1-1/2 | | 7422201 | 7422202 | |
| MTGNR/L 20-5D | 1-1/4 | 6 | 1-1/2 | 543 | 7423201 | 7423202 | |

MTJN R/L TOOLHOLDERS

SYSTEM M & C FOR NEGATIVE 60° TRIANGLE **TNM...** INSERTS



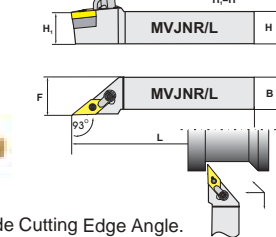
For a full list of available inserts, please refer to our Carbide Insert section.

3° Side Cutting Edge Angle.

| Description | Shank | | OAL L | Head F | TNM Insert | Order Number | | Price |
|---------------|-------|-------|-------|--------|------------|--------------|---------|-------|
| | H | B | | | | RH | LH | |
| MTJNR/L 10-3B | 5/8 | 5/8 | 4-1/2 | 5/8 | | 7400101 | 7400102 | |
| MTJNR/L 12-3B | 3/4 | 3/4 | 4-1/2 | 1 | 332 | 7400121 | 7400122 | |
| MTJNR/L 16-3D | 1 | 1 | 6 | 1-1/4 | | 7400161 | 7400162 | |
| MTJNR/L 16-4D | 1 | 1 | 6 | 1-1/4 | 432 | 7401161 | 7401162 | |
| MTJNR/L 20-4D | 1-1/4 | 1-1/4 | 6 | 1-1/4 | | 7401201 | 7401202 | |
| MTJNR/L 16-5D | 1 | 1 | 6 | 1-1/4 | | 7402161 | 7402162 | |
| MTJNR/L 20-5D | 1-1/4 | 1-1/4 | 6 | 1-1/2 | 543 | 7402201 | 7402202 | |
| MTJNR/L 24-5D | 1-1/2 | 1-1/2 | 6 | 2 | | 7402241 | 7402242 | |
| MTJNR/L 24-5E | 1-1/2 | 1-1/2 | 7 | 2 | | 7402261 | 7402262 | |
| MTJNR/L 85-5D | 1 | 1-1/4 | 6 | 1-1/4 | | 7402301 | 7402302 | |
| MTJNR/L 86-5E | 1 | 1-1/2 | 7 | 1-1/4 | | 7402351 | 7402352 | |

MVJN R/L TOOLHOLDERS

SYSTEM M & C FOR NEGATIVE 35° DIAMOND **VNM...** INSERTS



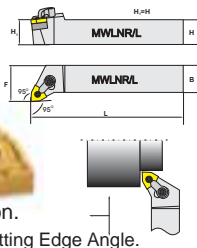
For a full list of available inserts, please refer to our Carbide Insert section.

3° Side Cutting Edge Angle.

| Description | Shank H=B | OAL L | Head F | TNM Insert | Order Number | | Price |
|---------------|-----------|-------|--------|------------|--------------|---------|-------|
| | | | | | RH | LH | |
| MVJNR/L 12-3B | 3/4 | 4-1/2 | 1 | | 7550121 | 7550122 | |
| MVJNR/L 16-3D | 1 | 6 | 1-1/4 | 332 | 7550161 | 7550162 | |
| MVJNR/L 20-3D | 1-1/4 | 6 | 1-1/2 | | 7550201 | 7550202 | |
| MVJNR/L 16-4D | 1 | 6 | 1-1/4 | | 7551161 | 7551162 | |
| MVJNR/L 20-4D | 1-1/4 | 6 | 1-1/2 | 432 | 7552201 | 7552202 | |
| MVJNR/L 24-4E | 1-1/2 | 7 | 2 | | 7552241 | 7552242 | |

MWLN R/L TOOLHOLDERS

SYSTEM M & C FOR NEGATIVE 80° TRIGON **WNM...** INSERTS



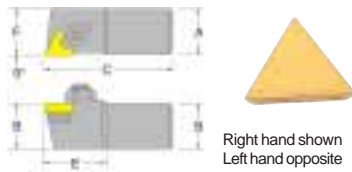
***Sets include RH HOLDER and 10 TiN Coated Inserts.**

For a full list of available inserts, please refer to our Carbide Insert section.

5° End or Side Cutting Edge Angle.

| Description | Shank H=B | OAL L | Head F | WNM Insert | Order No. | | Price | Ord. No RH Set | Price |
|----------------|-----------|-------|--------|------------|-----------|---------|-------|----------------|-------|
| | | | | | RH | LH | | | |
| MWLN R/L 12-3B | 3/4 | 4-1/2 | 1 | 332 | 7500121 | 7500122 | | - | |
| MWLN R/L 12-4B | 3/4 | 4-1/2 | 1 | | 7501121 | 7501122 | | 7505121 | |
| MWLN R/L 16-4D | 1 | 6 | 1-1/4 | 432 | 9551161 | 7501162 | | 7505161 | |
| MWLN R/L 20-4D | 1-1/4 | 6 | 1-1/2 | | 7501201 | 7501202 | | - | |
| MWLN R/L 24-4E | 1-1/2 | 7 | 2 | | 7501241 | 7501242 | | - | |
| MWLN R/L 16-5D | 1 | 6 | 1-1/4 | | 7502161 | 7502162 | | - | |
| MWLN R/L 20-5D | 1-1/4 | 6 | 1-1/2 | 543 | 7502201 | 7502202 | | - | |
| MWLN R/L 24-5E | 1-1/2 | 7 | 2 | | 7502241 | 7502242 | | - | |

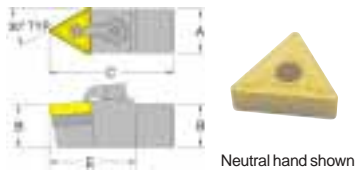
CTAP R/L Toolholder



Style A - 0° Side Cutting Edge Angle for positive triangle TPG inserts

| Description | Order No. | | Price | A | B | C | E | F | TPG Gage Insert | Seat | Seat Screw | Clamp | Clip | Clamp Screw |
|--------------|-----------|---------|-------|-------|-------|-----|-------|-------|-----------------|-------|------------|-------|--------|-------------|
| | RH | LH | | | | | | | | | | | | |
| CTAPR/L12-3B | 6151398 | 6151399 | | 0.750 | 0.750 | 4.5 | 1.125 | 0.765 | 322 | SM-41 | S-4 | HC-12 | CLP-12 | CS-126 |
| CTAPR/L16-3D | 6151402 | 6151403 | | 1.000 | 1.000 | 6.0 | 1.125 | 1.015 | | | | | | |
| CTAPR/L16-4D | 6151410 | 6151411 | | 1.000 | 1.000 | 6.0 | 1.250 | 1.015 | 432 | SM-37 | S-6 | HC-12 | CLP-12 | CS-126 |

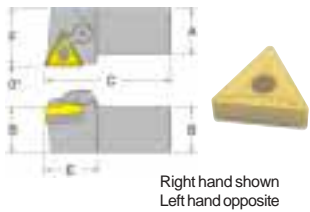
MTENN Toolholder



Style E - 30° Side Cutting Edge Angle for negative triangle TNMG inserts

| Description | Order No. | Price | A | B | C | E | TNM Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw | Seat Screw |
|-------------|-----------|-------|-------|-------|-----|-------|-----------------|----------|----------|-------|-------------|------------|
| | | | | | | | | | | | | |
| MTENN12-3B | 6150694 | | 0.750 | 0.750 | 4.5 | 1.125 | 332 | ITSN-322 | | | | |
| MTENN12-4B | 6150698 | | 0.750 | 0.750 | 4.5 | 1.500 | 432 | ITSN-432 | NL-46 | CL-9 | XNS-59 | — |
| MTENN16-4D | 6150700 | | 1.000 | 1.000 | 6.0 | 1.500 | | | | | | |

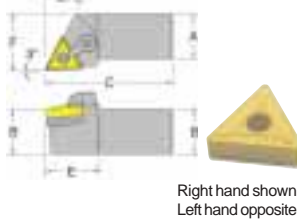
MTGN R/L Toolholder



Style G - 0° Side Cutting Edge Angle for negative triangle TNMG inserts

| Description | Order No. | | Price | A | B | C | E | F | TNM Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw | Seat Screw |
|--------------|-----------|---------|-------|-------|-------|-----|-------|-------|-----------------|----------|----------|-------|-------------|------------|
| | RH | LH | | | | | | | | | | | | |
| MTGNR/L10-3B | 9150810 | 6150811 | | 0.625 | 0.825 | 4.5 | 1.000 | 0.875 | 322 | ITSN-333 | | | | |
| MTGNR/L12-3B | 6150814 | 6150815 | | 0.750 | 0.750 | 4.5 | 1.000 | 1.000 | 332 | ITSN-322 | NL-34L | CL-6 | XNS-36 | S-34 |
| MTGNR/L16-3D | 6150822 | 6150823 | | 1.000 | 1.000 | 6.0 | 1.000 | 1.250 | | | | | | |
| MTGNR/L16-4D | 6150830 | 6150831 | | 1.000 | 1.000 | 6.0 | 1.375 | 1.250 | 432 | ITSN-432 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTGNR/L20-4D | 6150834 | 6150835 | | 1.250 | 1.250 | 6.0 | 1.375 | 1.500 | | | | | | |

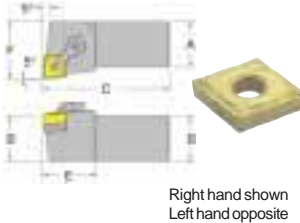
MTJN R/L Toolholder



Style J - 3° Side Cutting Edge Angle for negative triangle TNMG inserts

| Description | Order No. | | Price | A | B | C | E | F | TNM Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw | Seat Screw |
|--------------|-----------|---------|-------|-------|-------|-----|-------|-------|-----------------|----------|----------|-------|-------------|------------|
| | RH | LH | | | | | | | | | | | | |
| MTJNR/L10-3B | 6150890 | 6150891 | | 0.625 | 0.625 | 4.5 | 1.000 | 0.875 | 322 | ITSN-333 | NL-34L | CL-8 | XNS-38 | - |
| MTJNR/L12-3B | 6150894 | 6150895 | | 0.750 | 0.750 | 4.5 | 1.000 | 1.000 | 332 | ITSN-322 | | | | |
| MTJNR/L16-3D | 6150898 | 6150899 | | 1.000 | 1.000 | 6.0 | 1.000 | 1.250 | | | | | | |
| MTJNR/L16-4D | 6150902 | 6150903 | | 1.000 | 1.000 | 6.0 | 1.250 | 1.250 | 432 | ITSN-432 | NL-46 | CL-9 | XNS-510 | - |
| MTJNR/L20-4D | 6150906 | 6150907 | | 1.250 | 1.250 | 6.0 | 1.250 | 1.500 | | | | | | |

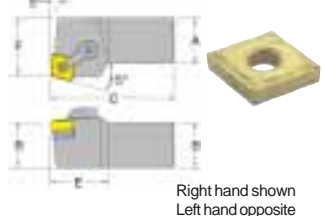
MCLN R/L Toolholder



Style L - Negative 5° End or Side Cutting Edge Angle for negative 80° diamond CNMG inserts

| Description | Order No. | | Price | A | B | C | E | F | CNM Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw | Seat Screw |
|--------------|-----------|---------|-------|-------|-------|-----|-------|-------|-----------------|----------|----------|-------|-------------|------------|
| | RH | LH | | | | | | | | | | | | |
| MCLNR/L10-4B | 6150116 | 6150117 | | 0.625 | 0.625 | 4.5 | 1.250 | 1.000 | | | | | | |
| MCLNR/L12-4B | 6150120 | 6150121 | | 0.750 | 0.750 | 4.5 | 1.250 | 1.000 | | | | | | |
| MCLNR/L16-4D | 6150128 | 6150129 | | 1.000 | 1.000 | 6.0 | 1.250 | 1.250 | 432 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNR/L20-4D | 6150132 | 6150133 | | 1.250 | 1.250 | 6.0 | 1.250 | 1.500 | | | | | | |

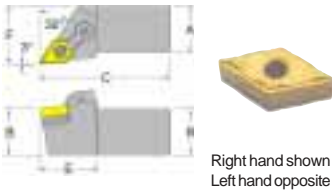
MCRN R/L Toolholder



Style R - 15° Side Cutting Edge Angle for negative 80° diamond CNMG inserts

| Description | Order No. | | Price | A | B | C | E | F | CNM Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw | Seat Screw |
|--------------|-----------|---------|-------|------|------|-----|------|------|-----------------|---------|----------|-------|-------------|------------|
| | RH | LH | | | | | | | | | | | | |
| MCRNR/L12-4B | 6150220 | 6150221 | | 0.75 | 0.75 | 4.5 | 1.25 | 0.75 | | | | | | |
| MCRNR/L16-4D | 6150228 | 6150229 | | 1.00 | 1.00 | 6.0 | 1.25 | 1.25 | 432 | ICSN-43 | NL-46 | CL-9 | XNS-58 | S-46 |
| MCRNR/L20-4D | 6150232 | 6150233 | | 1.25 | 1.25 | 6.0 | 1.25 | 1.50 | | | | | | |

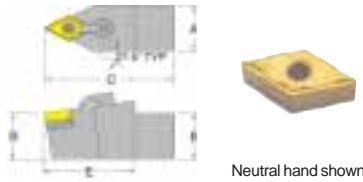
MDJN R/L Toolholder



Style J - 3° Side Cutting Edge Angle
for negative 55° diamond DNMG inserts

| Description | Order No. | | Price | A | B | C | E | F | DNM_Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw | Seat Screw |
|--------------|-----------|---------|-------|-------|-------|-----|------|-------|-----------------|----------|----------|-------|-------------|------------|
| | RH | LH | | | | | | | | | | | | |
| MDJNR/L12-4B | 6150324 | 6150325 | | 0.750 | 0.750 | 4.5 | 1.25 | 1.000 | 432 | IDSN-433 | NL-46 | CL-6 | XNS-36 | S-46 |
| MDJNR/L16-4D | 6150332 | 6150333 | | 1.000 | 1.000 | 6.0 | 1.25 | 1.250 | 432 | IDSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MDJNR/L20-4D | 6150336 | 6150337 | | 1.250 | 1.250 | 6.0 | 1.25 | 1.500 | | | | | | |

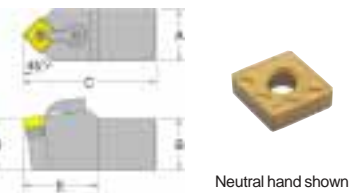
MDPNN Toolholder



Style P - 27.5° Side Cutting Edge Angle
for negative 55° diamond DNMG inserts

| Description | Order No. | Price | A | B | C | E | DNM_Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw | Seat Screw |
|-------------|-----------|-------|------|------|-----|------|-----------------|----------|----------|-------|-------------|------------|
| MDPNN12-4B | 6150370 | | 0.75 | 0.75 | 4.5 | 1.75 | | | | | | |
| MDPNN16-4D | 6150372 | | 1.00 | 1.00 | 6.0 | 1.75 | 432 | IDSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| MDPNN20-4D | 6150374 | | 1.25 | 1.25 | 6.0 | 1.75 | | | | | | |

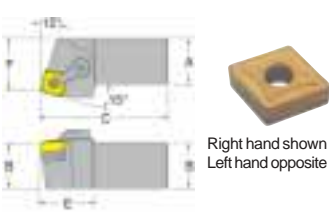
MSDNN Toolholder



Style D - 45° Side Cutting Edge Angle
for negative square SNMG inserts

| Description | Order No. | Price | A | B | C | E | SNM_Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw | Seat Screw |
|-------------|-----------|-------|------|------|-----|-------|-----------------|----------|----------|-------|-------------|------------|
| MSDNN12-4B | 6150400 | | 0.75 | 0.75 | 4.5 | 1.375 | | | | | | |
| MSDNN16-4D | 6150402 | | 1.00 | 1.00 | 6.0 | 1.375 | 432 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |

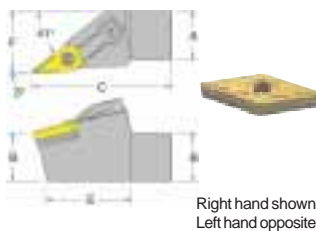
MSRN R/L Toolholder



Style R - 15° Side Cutting Edge Angle
for negative square SNMG inserts

| Description | Order No. | | Price | A | B | C | E | F | SNM_Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw | Seat Screw |
|--------------|-----------|---------|-------|------|------|-----|------|------|-----------------|----------|----------|-------|-------------|------------|
| | RH | LH | | | | | | | | | | | | |
| MSRNR/L12-4B | 9150506 | 6150507 | | 0.75 | 0.75 | 4.5 | 1.25 | 0.88 | | | | | | |
| MSRNR/L16-4D | 6150514 | 6150515 | | 1.00 | 1.00 | 6.0 | 1.25 | 1.13 | 432 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSRNR/L20-4D | 6150518 | 6150519 | | 1.25 | 1.25 | 6.0 | 1.25 | 1.35 | | | | | | |

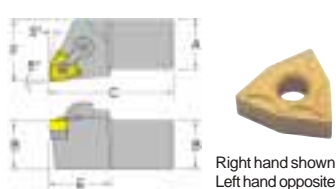
MVJN R/L Toolholder



Style J - Negative 3° Side Cutting Edge Angle
for negative 35° diamond VNMG inserts

| Description | Order No. | | Price | A | B | C | E | F | VNM_Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw | Seat Screw |
|--------------|-----------|---------|-------|------|------|-----|-------|------|-----------------|----------|----------|-------|-------------|------------|
| | RH | LH | | | | | | | | | | | | |
| MVJNR/L12-3B | 6151062 | 6151063 | | 0.75 | 0.75 | 4.5 | 1.687 | 1.00 | | | | | | |
| MVJNR/L16-3D | 6151070 | 6151071 | | 1.00 | 1.00 | 6.0 | 1.687 | 1.25 | 332 | IVSN-322 | NL-34L | CL-30 | XNS-510 | S-34 |
| MVJNR/L20-3D | 6151074 | 6151075 | | 1.25 | 1.25 | 6.0 | 1.687 | 1.50 | | | | | | |

MWLN R/L Toolholder



Style L - Negative 5° End or Side Cutting Edge Angle
for negative 80° trigon WNMG inserts

| Description | Order No. | | Price | A | B | C | E | F | WNM_Gage Insert | Seat | Lock Pin | Clamp | Clamp Screw |
|-------------|-----------|---------|-------|------|------|-----|------|------|-----------------|----------|----------|-------|-------------|
| | RH | LH | | | | | | | | | | | |
| MWLNRL12-3B | 6151262 | 6151263 | | 0.75 | 0.75 | 4.5 | 1.00 | 1.00 | 332 | IWSN-322 | NL-34L | CL-6 | XNS-36 |
| MWLNRL12-4B | 6151266 | 6151267 | | 0.75 | 0.75 | 4.5 | 1.25 | 1.00 | | | | | |
| MWLNRL16-4D | 6151270 | 6151271 | | 1.00 | 1.00 | 6.0 | 1.25 | 1.25 | 432 | IWSN-432 | NL-46 | CL-9 | XNS-59 |
| MWLNRL20-4D | 6151274 | 6151275 | | 1.25 | 1.25 | 6.0 | 1.25 | 1.50 | | | | | |



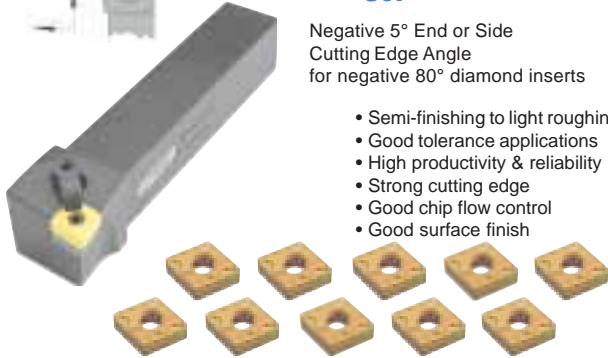
INDEXABLE TOOLING SETS
SERIES 915:



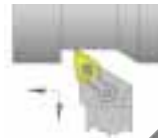
MEDIUM
CNMG Turning Set

Negative 5° End or Side Cutting Edge Angle for negative 80° diamond inserts

- Semi-finishing to light roughing
- Good tolerance applications
- High productivity & reliability
- Strong cutting edge
- Good chip flow control
- Good surface finish



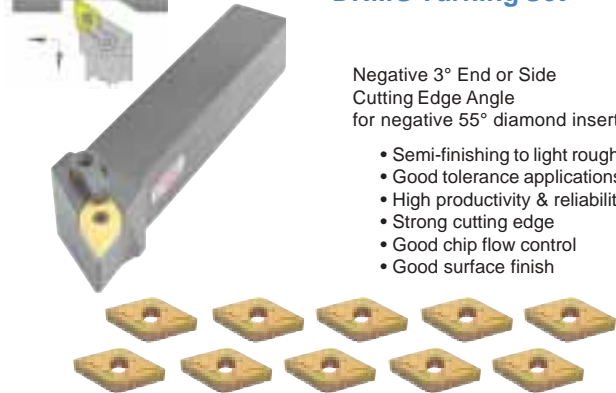
| Order No. | Price | Shank Size | Tool Lgth | 12 pc. Set Includes | | |
|-----------|-------|------------|-----------|---------------------|--------------------|-------------|
| | | | | (1) Tool holders | (10) Inserts | (1) |
| 6185196 | | 0.75 | 4.50 | MCLNR12-4B | CNMG-432-PM-DHCP25 | Storage Box |
| 6185197 | | 1.00 | 6.00 | MCLNR16-4D | CNMG-432-PM-DHCP25 | Storage Box |



MEDIUM
DNMG Turning Set

Negative 3° End or Side Cutting Edge Angle for negative 55° diamond inserts

- Semi-finishing to light roughing
- Good tolerance applications
- High productivity & reliability
- Strong cutting edge
- Good chip flow control
- Good surface finish



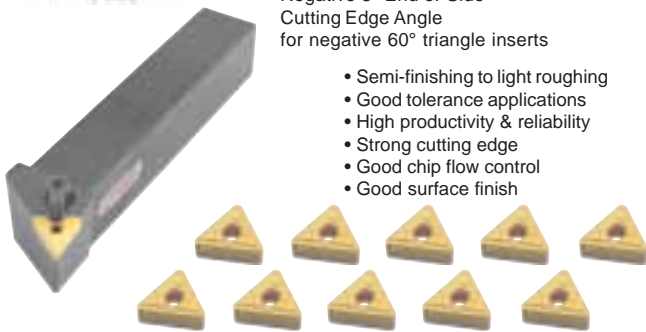
| Order No. | Price | Shank Size | Tool Lgth | 12 pc. Set Includes | | |
|-----------|-------|------------|-----------|---------------------|--------------------|-------------|
| | | | | (1) Tool holders | (10) Inserts | (1) |
| 6185204 | | 0.75 | 4.50 | MDJNR12-4B | DNMG-432-PM-DHCP25 | Storage Box |
| 6185205 | | 1.00 | 6.00 | MDJNR16-4D | DNMG-432-PM-DHCP25 | Storage Box |



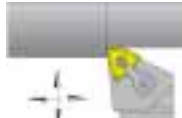
MEDIUM
TNMG Turning Set

Negative 3° End or Side Cutting Edge Angle for negative 60° triangle inserts

- Semi-finishing to light roughing
- Good tolerance applications
- High productivity & reliability
- Strong cutting edge
- Good chip flow control
- Good surface finish



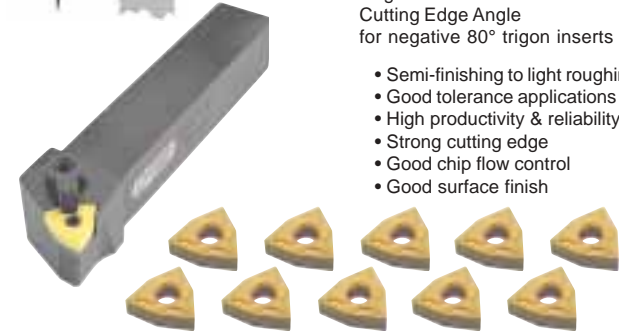
| Order No. | Price | Shank Size | Tool Lgth | 12 pc. Set Includes | | |
|-----------|-------|------------|-----------|---------------------|--------------------|-------------|
| | | | | (1) Tool holders | (10) Inserts | (1) |
| 6185212 | | 0.75 | 4.50 | MTJNR12-3B | TNMG-332-PM-DHCP25 | Storage Box |
| 6185213 | | 1.00 | 6.00 | MTJNR16-3D | TNMG-332-PM-DHCP25 | Storage Box |



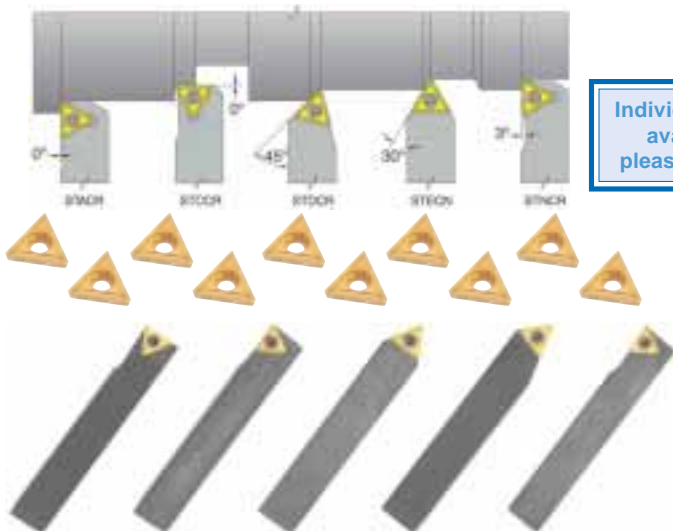
MEDIUM
WNMG Turning Set

Negative 5° End or Side Cutting Edge Angle for negative 80° trigon inserts

- Semi-finishing to light roughing
- Good tolerance applications
- High productivity & reliability
- Strong cutting edge
- Good chip flow control
- Good surface finish



| Order No. | Price | Shank Size | Tool Lgth | 12 pc. Set Includes | | |
|-----------|-------|------------|-----------|---------------------|--------------------|-------------|
| | | | | (1) Tool holders | (10) Inserts | (1) |
| 6185220 | | 0.75 | 4.50 | MWLNR12-4B | WNMG-432-PM-DHCP25 | Storage Box |
| 6185221 | | 1.00 | 6.00 | MWLNR16-4D | WNMG-432-PM-DHCP25 | Storage Box |



For Turning, Facing & Chamfering
We Are Making Turning Simple For You!

Individual tools available; please inquire.

High Performance - Positive rake for fast material removal, as well as finishing with low cutting force.

Rigidity - Holder made of heat treated, precision ground alloy steel.

Each set contains 1 each of 5 different styles of Tool Holders.

| Order No. | Price | Index. Tool Set | Shank Size | Tool Length | 17 pc. Set includes | | | |
|-----------|-------|-----------------|------------|-------------|-----------------------|--------------|--------------|-------------|
| | | | | | (5) Tool holders | (10) Inserts | (1) Torx Key | (1) |
| 6185092 | | 3/8 | 0.375 | 2.5 | Holders Shown on Left | TCMT-21.51 | | Storage Box |
| 6185096 | | 1/2 | 0.500 | 3.5 | | -UM-DC525 | T-7 | Storage Box |
| 6185100 | | 5/8 | 0.625 | 4.0 | | | | |
| 6185104 | | 3/4 | 0.750 | 4.5 | Holders Shown on Left | TCMT-32.52 | | Storage Box |
| 6185108 | | 1 | 1.000 | 6.0 | | -UM-DC525 | T-15 | Storage Box |
| 6185112 | | 1-1/4 | 1.250 | 6.0 | Holders Shown on Left | TCMT-432 | | Storage Box |
| 6185116 | | 1-1/2 | 1.500 | 6.0 | | -EG-DC656 | T-20 | Storage Box |

5-PC MINI TOOLHOLDER AND BORING BAR SET

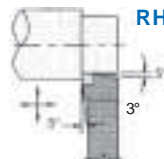
(ALSO AVAILABLE INDIVIDUALLY)

SERIES 804:

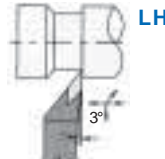


• EUROPEAN MADE •

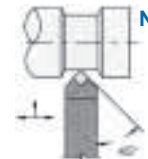
Ideal for precision turning and boring



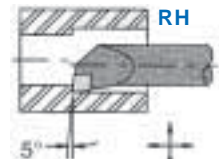
6800042



8050422



6810042



8700421



Torx Key



Screw

| Toolholder Style | Square Shank | Lgth. | Insert Style | Right Hand Order No. | Left Hand Order No. | Neutral Order No. | Price |
|------------------|--------------|-------|--------------|----------------------|---------------------|-------------------|-------|
| SCLCR 4-2 | .315 | 2.36 | CCMT 21.51 | 6800042 | - | - | |
| SDJCR/L 4-2 | .315 | 2.36 | DCMT 21.51 | 8050421 | 8050422 | - | |
| SSDCN 4-2 | .315 | 2.36 | SCMT 21.51 | - | - | 6810042 | |

Complete Set

| Order No. | Description | Price |
|-----------|---------------------|-------|
| 6890500 | Without inserts | |
| 6890510 | 10 Inserts included | |

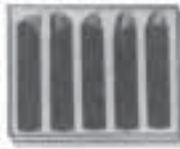
| Boring Bar Style | Dia. | Min. Bore | Lgth. | Insert Style | Boring Bar Order No. | Price |
|------------------|------|-----------|-------|--------------|----------------------|-------|
| SI-SCLCR 4-2 | .315 | .354 | 3.98 | CCMT 21.51 | 8700421 | |

Quality storage case includes 1 wrench and 2 spare screws.

INDEXABLE TOOL BITS AND SETS

SERIES 619:

Hardened and ground steel shanks for maximum rigidity. Sets include inserts and wrenches in a fitted case. Individual tools are supplied without wrenches or inserts.



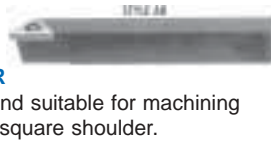
Usage Applications:
Right Hand cuts from right to left.
Left Hand cuts from left to right.



DURABLE
Indexable Tool Bits also available; please inquire

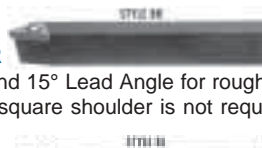
Style AR

Right Hand suitable for machining to a 90° square shoulder.



Style BR

Right Hand 15° Lead Angle for rough turning where a square shoulder is not required.



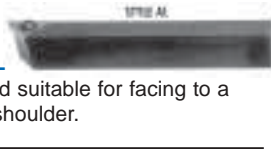
Style E

Neutral Threading Tool 60° included angle; used for U.S. Standard universal threading, V-grooving, Chamfering, turning, boring and facing.



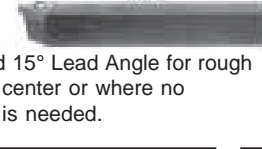
Style AL

Left Hand suitable for facing to a square shoulder.



Style BL

Left Hand 15° Lead Angle for rough facing to center or where no shoulder is needed.



Replacement Screw

| For Size | Order No. | Price |
|---------------|-----------|-------|
| 3/8 | 6190005 | |
| 1/2, 5/8, 3/4 | 6190010 | |

| SIZE : 3/8 Square x 2-1/2 OL INSERT I.C. : 1/4 | | |
|---|--------------|-------|
| Style | Order Number | Price |
| AR-6 | 6190061 | |
| AL-6 | 6190062 | |
| BR-6 | 6190063 | |
| BL-6 | 6190064 | |
| E-6 | 6190067 | |
| 5 pc. 3/8 Sk. Set | 6190060 | |

| SIZE : 1/2 Square x 3-1/2 OL INSERT I.C. : 3/8 | | |
|---|--------------|-------|
| Style | Order Number | Price |
| AR-8 | 6190081 | |
| AL-8 | 6190082 | |
| BR-8 | 6190083 | |
| BL-8 | 6190084 | |
| E-8 | 6190087 | |
| 5 pc. 1/2 Sk. Set | 6190080 | |

| SIZE : 5/8 Square x 4 OL INSERT I.C. : 3/8 | | |
|---|--------------|-------|
| Style | Order Number | Price |
| AR-10 | 6190101 | |
| AL-10 | 6190102 | |
| BR-10 | 6190103 | |
| BL-10 | 6190104 | |
| E-10 | 6190107 | |
| 5 pc. 5/8 Sk. Set | 6190100 | |

| SIZE : 3/4 Square x 4-1/2 OL INSERT I.C. : 3/8 | | |
|---|--------------|-------|
| Style | Order Number | Price |
| AR-12 | 6190121 | |
| AL-12 | 6190122 | |
| BR-12 | 6190123 | |
| BL-12 | 6190124 | |
| E-12 | 6190127 | |
| 5 pc. 3/4 Sk. Set | 6190120 | |

INSERTS FOR INDEXABLE TOOL BITS

| Style of Insert | Insert I.C. | General Purpose | | Steel | | Gold (TN) Coated | |
|-----------------|-------------|-----------------|-------|-----------|-------|------------------|-------|
| | | Order No. | Price | Order No. | Price | Order No. | Price |
| TBI-221 | 1/4 | 6190150 | | 6190151 | | 6190152 | |
| TBI-222 | 1/4 | 6190160 | | 6190161 | | 6190162 | |
| TBI-321 | 3/8 | 6190230 | | 6190231 | | 6190232 | |
| TBI-322 | 3/8 | 6190240 | | 6190241 | | 6190242 | |



MCLNR/L STYLE
-5° Lead Turning & Facing
Negative Rake
Common Hardware



Right-hand shown, left-hand opposite.

Uses 80° Diamond Inserts

- CNFM CNG CNGA
- CNGM CNGP CNMA
- CNMG CNMM CNMP

| Part No. | | Dimensions | | | | | | Insert Size | Shim Seat | Lock Pin | Clamp | Clamp Screw | Order No. | | Price |
|-------------|-------------|------------|------|-------|------|------|-----|-------------|-----------|----------|---------|-------------|-----------|--|-------|
| Right Hand | Left Hand | A | B | F | C | D | RH | | | | | | LH | | |
| MCLNR 12-4B | MCLNL 12-4B | .75 | .75 | 1.000 | 4.50 | 1.19 | 432 | CSN-433 | NL-46 | CLI-20 | XNS-48 | 4860417 | 4860391 | | |
| MCLNR 16-4C | MCLNL 16-4C | 1.00 | 1.00 | 1.250 | 5.00 | 1.19 | 432 | CSN-433 | NL-46 | CLI-20 | XNS-48 | 4860420 | 4860394 | | |
| MCLNR 16-4D | MCLNL 16-4D | 1.00 | 1.00 | 1.250 | 6.00 | 1.19 | 432 | CSN-433 | NL-46 | CLI-20 | XNS-48 | 4860421 | 4860395 | | |
| MCLNR 16-5D | MCLNL 16-5D | 1.00 | 1.00 | 1.250 | 6.00 | 1.38 | 543 | CSN-533 | NL-58 | CLI-12 | XNS-510 | 4860423 | 4860397 | | |
| MCLNR 16-6D | MCLNL 16-6D | 1.00 | 1.00 | 1.250 | 6.00 | 1.50 | 643 | CSN-633 | NL-68 | CLI-12 | XNS-510 | 4860425 | 4860399 | | |
| MCLNR 20-4D | MCLNL 20-4D | 1.25 | 1.25 | 1.500 | 6.00 | 1.19 | 432 | CSN-433 | NL-46 | CLI-20 | XNS-48 | 4860427 | 4860401 | | |
| MCLNR 20-5D | MCLNL 20-5D | 1.25 | 1.25 | 1.500 | 6.00 | 1.38 | 543 | CSN-533 | NL-58 | CLI-12 | XNS-510 | 4860459 | 4860402 | | |
| MCLNR 20-6D | MCLNL 20-6D | 1.25 | 1.25 | 1.500 | 6.00 | 1.50 | 643 | CSN-633 | NL-68 | CLI-12 | XNS-510 | 4860460 | 4860403 | | |

Tool includes holder, lock pin, clamp, clamp screw and shim seat, less insert.

MDJNR/L STYLE
-3° Lead Turning & Profiling
Negative Rake
Common Hardware



Right-hand shown, left-hand opposite.

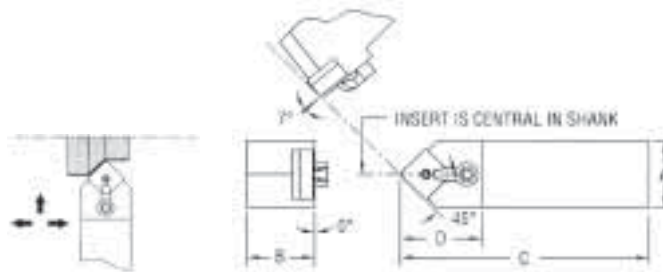
Uses 55° Diamond Inserts

- DNFM DNGA DNGN
- DNGM DNGP DNMG
- DNMM DNMP

| Part No. | | Dimensions | | | | | | Insert Size | Shim Seat | Lock Pin | Clamp | Clamp Screw | Order No. | | Price |
|-------------|-------------|------------|------|-------|------|-----|-----|-------------|-----------|----------|--------|-------------|-----------|--|-------|
| Right Hand | Left Hand | A | B | F | C | D | RH | | | | | | LH | | |
| MDJNR 12-4B | MDJNL 12-4B | .75 | .75 | 1.000 | 4.50 | .42 | 432 | DSN-433 | NL-46L | CLI-20 | XNS-48 | 4860497 | 4860480 | | |
| MDJNR 16-4C | MDJNL 16-4C | 1.00 | 1.00 | 1.250 | 6.00 | .29 | 432 | DSN-443 | NL-46L | CLI-20 | XNS-48 | 4860500 | 4860483 | | |
| MDJNR 20-4D | MDJNL 20-4D | 1.25 | 1.25 | 1.500 | 6.00 | .29 | 432 | DSN-633 | NL-68L | CLI-20 | XNS-48 | 4860504 | 4860487 | | |

Tool includes holder, lock pin, clamp, clamp screw and shim seat, less insert.

MSDNN STYLE
45° Lead Turning & Chamfering
Negative Rake
Common Hardware



| Part No. | Dimensions | | | | | Insert Size | Shim Seat | Lock Pin | Clamp | Clamp Screw | Order No. | Price |
|-------------|------------|------|---|------|------|-------------|-----------|----------|--------|-------------|-----------|-------|
| Neutral | A | B | F | C | D | | | | | | | |
| MSDNN 08-3B | .50 | .50 | - | 4.50 | 1.04 | 322 | ISSN-322 | NL-34 | CLI-6 | XNS-36 | 4860593 | |
| MSDNN 12-4B | .75 | .75 | - | 4.50 | 1.38 | 432 | ISSN-433 | NL-46 | CLI-9 | XNS-59 | 4860596 | |
| MSDNN 16-4D | 1.00 | 1.00 | - | 6.00 | 1.38 | 432 | ISSN-433 | NL-46 | CLI-9 | XNS-59 | 4860599 | |
| MSDNN 16-5D | 1.00 | 1.00 | - | 6.00 | 1.63 | 543 | ISSN-533 | NL-58 | CLI-12 | XNS-510 | 4860600 | |
| MSDNN 20-6D | 1.25 | 1.25 | - | 6.00 | 1.75 | 643 | ISSN-633 | NL-68 | CLI-12 | XNS-510 | 4860603 | |

Uses Square Inserts

- SNEA SNG SNGM
- SNMA SNMG SNMM
- SNMN

Tool includes holder, lock pin, clamp, clamp screw and shim seat, less insert.

MTJNRS/LS STYLE
3° Lead Turning & Profiling
Negative Rake
Common Hardware



Uses Triangular Inserts
TNEA TNFM TNG
TNGM TNMA TNMG
TNMM

| Part No. | | Dimensions | | | | | Insert Size | Shim Seat | Lock Pin | Clamp | Clamp Screw | Order No. | | Price |
|--------------|--------------|------------|------|-------|------|------|-------------|-----------|----------|-------|-------------|-----------|---------|-------|
| Right Hand | Left Hand | A | B | F | C | D | | | | | | RH | LH | |
| MTJNRS 12-3B | MTJNLS 12-3B | .75 | .75 | 1.000 | 4.50 | 1.04 | 322 | ITSN-333 | NL-34L | CLI-6 | XNS-36 | 4860812 | 4860806 | |
| MTJNRS 16-3D | MTJNLS 16-3D | 1.00 | 1.00 | 1.250 | 6.00 | 1.04 | 322 | ITSN-333 | NL-34L | CLI-6 | XNS-36 | 4860813 | 4860807 | |
| MTJNRS 16-4D | MTJNLS 16-4D | 1.00 | 1.00 | 1.250 | 6.00 | 1.38 | 432 | ITSN-433 | NL-46 | CLI-9 | XNS-510 | 4860814 | 4860808 | |

Tool includes holder, lock pin, clamp, clamp screw and shim seat, less insert.

MVJNR/L STYLE
-3° Lead Turning & Profiling
Negative Rake
Common Hardware



Uses 35° Diamond Inserts
VNFM VNGA VNGM
VNGP VNMA VNMG
VNMP

| Part No. | | Dimensions | | | | | Insert Size | Shim Seat | Lock Pin | Clamp | Clamp Screw | Order No. | | Price |
|-------------|-------------|------------|------|-------|------|------|-------------|-----------|----------|--------|-------------|-----------|---------|-------|
| Right Hand | Left Hand | A | B | F | C | D | | | | | | RH | LH | |
| MVJNR 12-3B | MVJNL 12-3B | .75 | .75 | 1.000 | 4.50 | 1.73 | 332 | IVSN-324 | NL-34L | CLI-30 | XNS-510 | 4860847 | 4860836 | |
| MVJNR 16-3D | MVJNL 16-3D | 1.00 | 1.00 | 1.250 | 6.00 | 1.73 | 332 | IVSN-324 | NL-34L | CLI-30 | XNS-510 | 4860849 | 4860838 | |

Tool includes holder, lock pin, clamp, clamp screw and shim seat, less insert.

MWLNR/L STYLE
-5° Lead Turning & Facing
Negative Rake
Common Hardware



Uses Trigon Inserts
WNMG WNMM

| Part No. | | Dimensions | | | | | Insert Size | Shim Seat | Lock Pin | Clamp | Clamp Screw | Order No. | | Price |
|-------------|-------------|------------|-----|-------|------|------|-------------|-----------|----------|--------|-------------|-----------|---------|-------|
| Right Hand | Left Hand | A | B | F | C | D | | | | | | RH | LH | |
| MWLNR 12-4B | MWLNL 12-4B | .75 | .75 | 1.000 | 4.50 | 1.13 | 432 | IWSN-433 | NL-46 | CLI-20 | XNS-48 | 4860888 | 4860877 | |
| MWLNR 16-4D | MWLNL 16-4D | 1.00 | .00 | 1.250 | 6.00 | 1.13 | 432 | IWSN-433 | NL-46 | CLI-20 | XNS-48 | 4860892 | 4860881 | |

Tool includes holder, lock pin, clamp, clamp screw and shim seat, less insert.

