



TOOL FLO



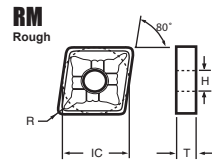
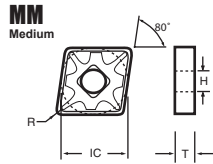
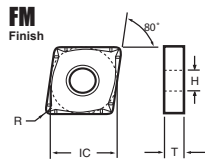
TURNING

TURNING



CNMG

80° General Purpose

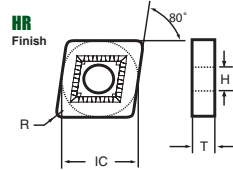


| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|----------|------|------|------|------|-------|-------|------|-------|
| CNMG-322 MM | CNMG-090308 MM | JBMGG2MM | .375 | .031 | .125 | .150 | ● | ● | | |
| CNMG-431 FM | CNMG-120404 FM | JBMGJ1FM | .500 | .016 | .187 | .203 | ● | ● | | |
| CNMG-431 MM | CNMG-120404 MM | JBMGJ1MM | .500 | .016 | .187 | .203 | ● | ● | | |
| CNMG-432 FM | CNMG-120408 FM | JBMGJ2FM | .500 | .031 | .187 | .203 | ● | ● | | |
| CNMG-432 MM | CNMG-120408 MM | JBMGJ2MM | .500 | .031 | .187 | .203 | ● | ● | | |
| CNMG-432 RM | CNMG-120408 RM | JBMGJ2RM | .500 | .031 | .187 | .203 | ● | ● | ● | |
| CNMG-433 MM | CNMG-120412 MM | JBMGJ3MM | .500 | .047 | .187 | .203 | ● | ● | | |
| CNMG-433 RM | CNMG-120412 RM | JBMGJ3RM | .500 | .047 | .187 | .203 | ● | ● | ● | |
| CNMG-543 RM | CNMG-160612 RM | JBMGO3RM | .625 | .047 | .250 | .253 | ● | ● | | |
| CNMG-643 RM | CNMG-190612 RM | JBMGR3RM | .750 | .047 | .250 | .313 | ● | ● | | |
| CNMG-644 RM | CNMG-190616 RM | JBMGR4RM | .750 | .063 | .250 | .313 | ● | ● | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| AGS50 | AGS54 | APS35 |

CNMM

80° Roughing

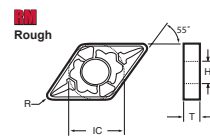
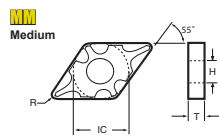
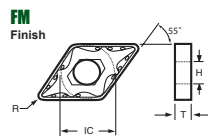


| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|----------|------|------|------|------|-------|-------|------|-------|
| CNMM-432 HR | CNMM-120408 HR | JBMMJ2HR | .500 | .031 | .187 | .203 | ● | ● | | |
| CNMM-433 HR | CNMM-120412 HR | JBMMJ3HR | .500 | .047 | .187 | .203 | ● | ● | | |
| CNMM-543 HR | CNMM-160612 HR | JBMMO3HR | .625 | .047 | .250 | .253 | ● | ● | | |
| CNMM-644 HR | CNMM-090616 HR | JBMMR4HR | .750 | .063 | .250 | .313 | ● | ● | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| AGS50 | AGS54 | APS35 |

DNMG

55° General Purpose



| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|----------|------|------|------|------|-------|-------|------|-------|
| DNMG-331 MM | DNMG-110404 MM | JEMGG1MM | .375 | .016 | .187 | .150 | | | | |
| DNMG-332 MM | DNMG-110408 MNS | JEMGG2MM | .375 | .031 | .187 | .150 | | | | |
| DNMG-431 FM | DNMG-150404 FM | JEMGJ1FM | .500 | .016 | .187 | .203 | ● | ● | | |
| DNMG-431 MM | DNMG-150404 MM | JEMGJ1MM | .500 | .016 | .187 | .203 | ● | ● | | |
| DNMG-432 FM | DNMG-150408 FM | JEMGJ2FM | .500 | .031 | .187 | .203 | ● | ● | | |
| DNMG-432 MM | DNMG-150408 MM | JEMGJ2MM | .500 | .031 | .187 | .203 | ● | ● | | |
| DNMG-432 RM | DNMG-150408 RM | JEMGJ2RM | .500 | .031 | .187 | .203 | ● | ● | | |
| DNMG-433 MM | DNMG-150412 MM | JEMGJ3MM | .500 | .047 | .187 | .203 | ● | ● | | |
| DNMG-433 RM | DNMG-150412 RM | JEMGJ3RM | .500 | .047 | .187 | .203 | ● | ● | | |
| DNMG-441 FM | DNMG-150604 FM | JEMGN1FM | .500 | .016 | .250 | .203 | ● | ● | | |
| DNMG-442 FM | DNMG-150608 FM | JEMGN2FM | .500 | .031 | .250 | .203 | ● | ● | | |
| DNMG-442 MM | DNMG-150608 MM | JEMGN2MM | .500 | .031 | .250 | .203 | ● | ● | | |
| DNMG-442 RM | DNMG-150608 RM | JEMGN2RM | .500 | .031 | .250 | .203 | ● | ● | | |
| DNMG-443 MM | DNMG-150612 MM | JEMGN2MM | .500 | .047 | .250 | .203 | ● | ● | | |
| DNMG-443 RM | DNMG-150612 RM | JEMGN3RM | .500 | .047 | .250 | .203 | ● | ● | | |
| DNMG-444 RM | DNMG-150616 RM | JEMGN3RM | .500 | .063 | .250 | .203 | ● | ● | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| AGS50 | AGS54 | APS35 |

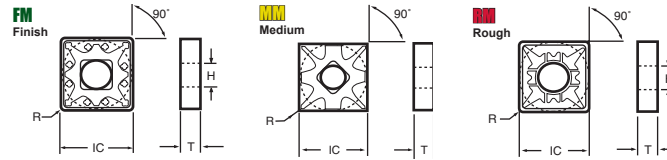
In an effort to improve our stock standard grade offering, there are periodic changes. Please see current price list for up to date grade offering.



TURNING

SNMG

90° General Purpose

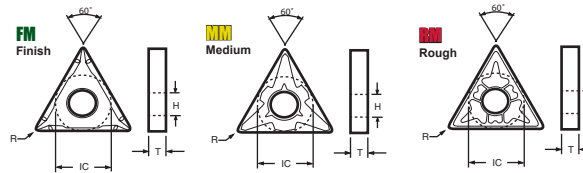


| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|----------|------|------|------|------|-------|-------|------|-------|
| SNMG-431 FM | SNMG-120404 FM | JNMGJ1FM | .500 | .016 | .187 | .203 | | | | |
| SNMG-432 FM | SNMG-120408 FM | JNMGJ2FM | .500 | .031 | .187 | .203 | ● | ● | | |
| SNMG-432 MM | SNMG-120408 MM | JNMGJ2MM | .500 | .031 | .187 | .203 | ● | ● | | |
| SNMG-432 RM | SNMG-120408 RM | JNMGJ2RM | .500 | .031 | .187 | .203 | ● | ● | | |
| SNMG-433 RM | SNMG-120412 RM | JNMGJ3RM | .500 | .047 | .187 | .203 | ● | ● | | ● |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| AGS50 | AGS54 | APS35 |

TNMG

60° General Purpose

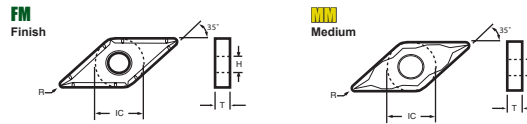


| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|-----------|------|------|------|------|-------|-------|------|-------|
| TNMG-331 FM | TNMG-160404 MNS | JTMGH1MNS | .375 | .016 | .187 | .150 | | | | |
| TNMG-331 MM | TNMG-160408 FNC | JTMGH2FNC | .375 | .031 | .187 | .150 | ● | | | |
| TNMG-332 FM | TNMG-160408 FNS | JTMGH2FNS | .375 | .031 | .187 | .150 | | ● | ● | |
| TNMG-332 MM | TNMG-160408 MNS | JTMGH2MNS | .375 | .031 | .187 | .150 | | | | |
| TNMG-332 RM | TNMG-160408 RNS | JTMGH2RNS | .375 | .031 | .187 | .150 | ● | | | |
| TNMG-333 MM | TNMG-160412 MNS | JTMGH3MNS | .375 | .047 | .187 | .150 | | | | |
| TNMG-333 RM | TNMG-160412 RNS | JTMGH3RNS | .375 | .047 | .187 | .150 | ● | | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| AGS50 | AGS54 | APS35 |

VNMG

35° General Purpose

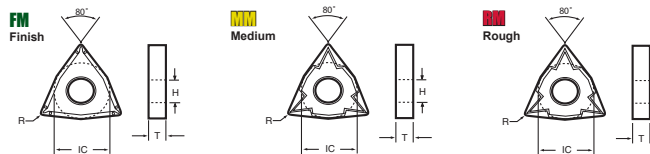


| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|----------|------|------|------|------|-------|-------|------|-------|
| VNMG-331 FM | VNMG-160404 FM | JXMGH1FM | .375 | .016 | .187 | .150 | | | | |
| VNMG-331 MM | VNMG-160404 MM | JXMGH1MM | .375 | .016 | .187 | .150 | ● | | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| AGS50 | AGS54 | APS35 |

WNMG

80° General Purpose



| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|----------|------|------|------|------|-------|-------|------|-------|
| WNMG-332 MM | WNMG-060408 MM | JZMAH2MM | .375 | .031 | .187 | .150 | | | | |
| WNMG-431 FM | WNMG-080404 FM | JZMAJ1FM | .500 | .016 | .187 | .203 | ● | | | |
| WNMG-431 MM | WNMG-080404 MM | JZMAJ1MM | .500 | .016 | .187 | .203 | | | | |
| WNMG-432 FM | WNMG-080408 FM | JZMAJ2FM | .500 | .031 | .187 | .203 | ● | | | |
| WNMG-432 MM | WNMG-080408 MM | JZMAJ2MM | .500 | .031 | .187 | .203 | ● | | | |
| WNMG-432 RM | WNMG-080408 RM | JZMAJ2RM | .500 | .031 | .187 | .203 | ● | | | |
| WNMG-433 MM | WNMG-080412 MM | JZMAJ3MM | .500 | .047 | .187 | .203 | | | | |
| WNMG-433 RM | WNMG-080412 RM | JZMAJ2RM | .500 | .047 | .187 | .203 | ● | | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| AGS50 | AGS54 | APS35 |

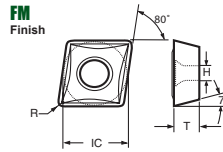
In an effort to improve our stock standard grade offering, there are periodic changes. Please see current price list for up to date grade offering.

TURNING



CCMT

80° Screwdown

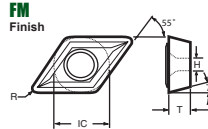


| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|----------|------|------|------|------|-------|-------|------|-------|
| CCMT-21.51 FM | CCMT-060204 FM | JAMTD1FM | .250 | .016 | .094 | .114 | | | | |
| CCMT-32.51 FM | CCMT-09T304 FM | JAMTG1FM | .375 | .016 | .156 | .177 | | | | |
| CCMT-32.52 FM | CCMT-09T308 FM | JAMTG2FM | .375 | .031 | .156 | .177 | | | | |
| CCMT-431 FM | CCMT-120404 FM | JAMTJ1FM | .500 | .016 | .187 | .203 | | | | |
| CCMT-432 FM | CCMT-120408 FM | JAMTJ2FM | .500 | .031 | .187 | .203 | | | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| | | APS35 |

DCMT

55° Screwdown

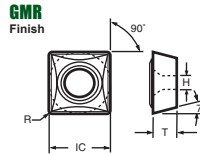


| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|----------|------|------|------|------|-------|-------|------|-------|
| DCMT-21.51 FM | DCMT-070204 FM | JDMTD1FM | .250 | .016 | .094 | .114 | | | | |
| DCMT-21.52 FM | DCMT-070208 FM | JDMTD2FM | .250 | .031 | .094 | .114 | | | | |
| DCMT-32.51 FM | DCMT-11T302 FM | JDMTG0FM | .375 | .016 | .156 | .177 | | | | |
| DCMT-32.52 FM | DCMT-11T304 FM | JDMTG2FM | .375 | .031 | .156 | .177 | | | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| | | APS35 |

SCMT

90° Screwdown

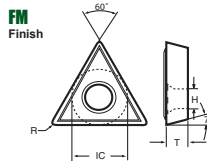


| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|-----------|------|------|------|------|-------|-------|------|-------|
| SCMT-32.51 GMR | SCMT-09T304 GMR | JLMTG1GMR | .375 | .016 | .156 | .117 | | | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| | | APS35 |

TCMT

60° Screwdown

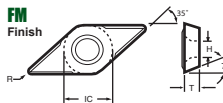


| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|----------|------|------|------|------|-------|-------|------|-------|
| TCMT-21.51 FM | TCMT-110204 FM | JQMTD1FM | .250 | .016 | .094 | .114 | | | | |
| TCMT-21.52 FM | TCMT-110208 FM | JQMTD2FM | .250 | .031 | .094 | .114 | | | | |
| TCMT-32.51 FM | TCMT-16T304 FM | JQMTG1FM | .375 | .016 | .156 | .177 | | | | |
| TCMT-32.52 FM | TCMT-16T308 FM | JQMTG2FM | .375 | .031 | .156 | .177 | | | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| | | APS35 |

VCMT

35° Screwdown



| ANSI Description | ISO Description | EDP Code | IC | R | T | H | AGS50 | AGS54 | AS20 | APS35 |
|------------------|-----------------|----------|------|------|------|------|-------|-------|------|-------|
| VCMT-331 FM | VCMT-160404 FM | JWMTH1FM | .375 | .016 | .187 | .173 | | | | |
| VCMT-332 FM | VCMT-160408 FM | JWMTH2FM | .375 | .031 | .187 | .173 | | | | |

| Steel grades | Cast iron grades | Stainless/Exotic |
|--------------|------------------|------------------|
| AGS50 | AGS54 | AS20 |
| | | APS35 |

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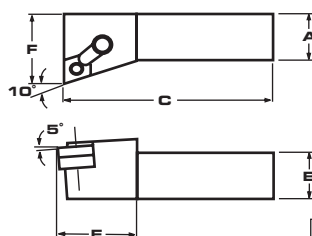


TURNING

MCFNL/R

10° Holder for 80° Diamond

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

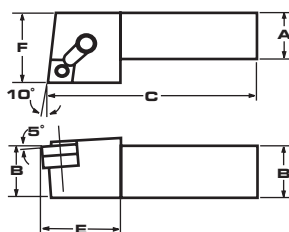
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|---------|-------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw | |
| MCFNR-164D | 9T2521656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 | |
| MCFNL-164D | 9T2501656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 | |
| MCFNR-165D | 9T2521664D | CN_-54 | 1.000 | 1.000 | 6.000 | 1.380 | 1.250 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | |
| MCFNL-165D | 9T2501664D | CN_-54 | 1.000 | 1.000 | 6.000 | 1.380 | 1.250 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | |
| MCFNR-205D | 9T2522064D | CN_-54 | 1.250 | 1.250 | 6.000 | 1.380 | 1.500 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | |
| MCFNL-205D | 9T2502064D | CN_-54 | 1.250 | 1.250 | 6.000 | 1.380 | 1.500 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | |
| MCFNR-166D | 9T2521672D | CN_-64 | 1.000 | 1.000 | 6.000 | 1.500 | 1.250 | ICSN-633 | NL-68 | CL-9 | XNS-510 | S-68 | |
| MCFNL-166D | 9T2501672D | CN_-64 | 1.000 | 1.000 | 6.000 | 1.500 | 1.250 | ICSN-633 | NL-68 | CL-9 | XNS-510 | S-68 | |
| MCFNR-206D | 9T2522072D | CN_-64 | 1.250 | 1.250 | 6.000 | 1.500 | 1.500 | ICSN-633 | NL-68 | CL-9 | XNS-510 | S-68 | |
| MCFNL-206D | 9T2502072D | CN_-64 | 1.250 | 1.250 | 6.000 | 1.500 | 1.500 | ICSN-633 | NL-68 | CL-9 | XNS-510 | S-68 | |

MCGNL/R

10° Holder for 80° Diamond

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

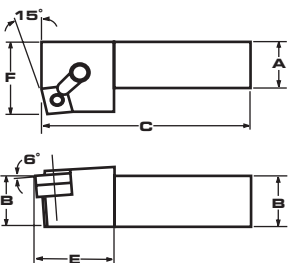
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|---------|-------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw | |
| MCGNR-164D | 9T2581656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 | |
| MCGNL-164D | 9T2561656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 | |
| MCGNR-165D | 9T2581664D | CN_-54 | 1.000 | 1.000 | 6.000 | 1.380 | 1.250 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | |
| MCGNL-165D | 9T2561664D | CN_-54 | 1.000 | 1.000 | 6.000 | 1.380 | 1.250 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | |
| MCGNR-205D | 9T2582064D | CN_-54 | 1.250 | 1.250 | 6.000 | 1.380 | 1.500 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | |
| MCGNL-205D | 9T2562064D | CN_-54 | 1.250 | 1.250 | 6.000 | 1.380 | 1.500 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | |
| MCGNR-166D | 9T2581672D | CN_-64 | 1.000 | 1.000 | 6.000 | 1.500 | 1.250 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 | |
| MCGNL-166D | 9T2561672D | CN_-64 | 1.000 | 1.000 | 6.000 | 1.500 | 1.250 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 | |
| MCGNR-206D | 9T2582072D | CN_-64 | 1.250 | 1.250 | 6.000 | 1.500 | 1.500 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 | |
| MCGNL-206D | 9T2562072D | CN_-64 | 1.250 | 1.250 | 6.000 | 1.500 | 1.500 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 | |

MCKNL/R

15° Holder for 80° Diamond

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|---------|-------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw | |
| MCKNR-124B | 9T2641256B | CN_-43 | 0.750 | 0.750 | 4.500 | 1.210 | 1.000 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 | |
| MCKNL-124B | 9T2621256B | CN_-43 | 0.750 | 0.750 | 4.500 | 1.210 | 1.000 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 | |
| MCKNR-164D | 9T2641656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 | |
| MCKNL-164D | 9T2621656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 | |
| MCKNR-204D | 9T2642056D | CN_-43 | 1.250 | 1.250 | 6.000 | 1.250 | 1.500 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 | |
| MCKNL-204D | 9T2622056D | CN_-43 | 1.250 | 1.250 | 6.000 | 1.250 | 1.500 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 | |
| MCKNR-165D | 9T2641664D | CN_-54 | 1.000 | 1.000 | 6.000 | 1.500 | 1.250 | ICSN-533 | NL-58 | CL-9 | XNS-58 | S-58 | |
| MCKNL-165D | 9T2621664D | CN_-54 | 1.000 | 1.000 | 6.000 | 1.500 | 1.250 | ICSN-533 | NL-58 | CL-9 | XNS-58 | S-58 | |
| MCKNR-205D | 9T2642064D | CN_-54 | 1.250 | 1.250 | 6.000 | 1.500 | 1.500 | ICSN-533 | NL-58 | CL-9 | XNS-58 | S-58 | |
| MCKNL-205D | 9T2622064D | CN_-54 | 1.250 | 1.250 | 6.000 | 1.500 | 1.500 | ICSN-533 | NL-58 | CL-9 | XNS-58 | S-58 | |
| MCKNR-166D | 9T2641672D | CN_-64 | 1.000 | 1.000 | 6.000 | 1.470 | 1.250 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 | |
| MCKNL-166D | 9T2621672D | CN_-64 | 1.000 | 1.000 | 6.000 | 1.470 | 1.250 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 | |
| MCKNR-206D | 9T2642072D | CN_-64 | 1.250 | 1.250 | 6.000 | 1.470 | 1.500 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 | |
| MCKNL-206D | 9T2622072D | CN_-64 | 1.250 | 1.250 | 6.000 | 1.470 | 1.500 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 | |
| MCKNR-246E | 9T2642472E | CN_-64 | 1.500 | 1.500 | 7.000 | 1.470 | 2.000 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 | |
| MCKNL-246E | 9T2622472E | CN_-64 | 1.500 | 1.500 | 7.000 | 1.470 | 2.000 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 | |

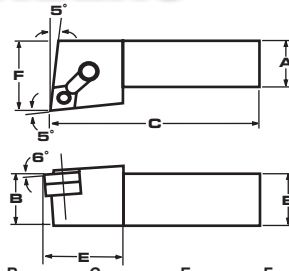
TURNING



MCLNL/R

5° Holder for 80° Diamond

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

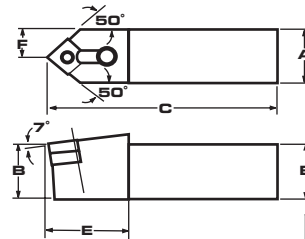
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|---------|-------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| MCLNR-104A | 9T2801056A | CN_-43 | 0.625 | 0.625 | 4.000 | 1.200 | 1.000 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNL-104A | 9T2781056A | CN_-43 | 0.625 | 0.625 | 4.000 | 1.200 | 1.000 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNR-124B | 9T2801256B | CN_-43 | 0.750 | 0.750 | 4.500 | 1.200 | 1.000 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNL-124B | 9T2781256B | CN_-43 | 0.750 | 0.750 | 4.500 | 1.200 | 1.000 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNR-164C | 9T2801656C | CN_-43 | 1.000 | 1.000 | 5.000 | 1.200 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNL-164C | 9T2781656C | CN_-43 | 1.000 | 1.000 | 5.000 | 1.200 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNR-164D | 9T2801656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.200 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNL-164D | 9T2781656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.200 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNR-204D | 9T2802056D | CN_-43 | 1.250 | 1.250 | 6.000 | 1.200 | 1.500 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNL-204D | 9T2782056D | CN_-43 | 1.250 | 1.250 | 6.000 | 1.200 | 1.500 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNR-854D | 9T2804456D | CN_-43 | 1.000 | 1.250 | 6.000 | 1.200 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNL-854D | 9T2784456D | CN_-43 | 1.000 | 1.250 | 6.000 | 1.200 | 1.250 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCLNR-165D | 9T2801664D | CN_-54 | 1.000 | 1.000 | 6.000 | 1.370 | 1.250 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MCLNL-165D | 9T2781664D | CN_-54 | 1.000 | 1.000 | 6.000 | 1.370 | 1.250 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MCLNR-205D | 9T2802064D | CN_-54 | 1.250 | 1.250 | 6.000 | 1.370 | 1.500 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MCLNL-205D | 9T2782064D | CN_-54 | 1.250 | 1.250 | 6.000 | 1.370 | 1.500 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MCLNR-855D | 9T2804464D | CN_-54 | 1.000 | 1.250 | 6.000 | 1.370 | 1.250 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MCLNL-855D | 9T2784464D | CN_-54 | 1.000 | 1.250 | 6.000 | 1.370 | 1.250 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MCLNR-865E | 9T2804664E | CN_-54 | 1.000 | 1.500 | 7.000 | 1.370 | 1.250 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MCLNL-865E | 9T2784664E | CN_-54 | 1.000 | 1.500 | 7.000 | 1.370 | 1.250 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MCLNR-166D | 9T2801672D | CN_-64 | 1.000 | 1.000 | 6.000 | 1.490 | 1.250 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCLNL-166D | 9T2781672D | CN_-64 | 1.000 | 1.000 | 6.000 | 1.490 | 1.250 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCLNR-206D | 9T2802072D | CN_-64 | 1.250 | 1.250 | 6.000 | 1.490 | 1.500 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCLNL-206D | 9T2782072D | CN_-64 | 1.250 | 1.250 | 6.000 | 1.490 | 1.500 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCLNR-246E | 9T2802472E | CN_-64 | 1.500 | 1.500 | 7.000 | 1.490 | 2.000 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCLNL-246E | 9T2782472E | CN_-64 | 1.500 | 1.500 | 7.000 | 1.490 | 2.000 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCLNR-856D | 9T2804472D | CN_-64 | 1.000 | 1.250 | 6.000 | 1.490 | 2.000 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCLNL-856D | 9T2784472D | CN_-64 | 1.000 | 1.250 | 6.000 | 1.490 | 2.000 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCLNR-866E | 9T2804672E | CN_-64 | 1.000 | 1.500 | 7.000 | 1.490 | 2.000 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCLNL-866E | 9T2784672E | CN_-64 | 1.000 | 1.500 | 7.000 | 1.490 | 2.000 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |

MCMNN

50° Holder for 80° Diamond

Most holders available with coolant port
(ie: Add CP to end of description)



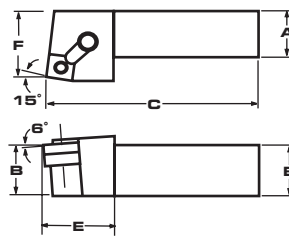
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|---------|-------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| MCMNN-164D | 9T2821656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.390 | 0.500 | ICSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MCMNN-206E | 9T2822072E | CN_-64 | 1.250 | 1.250 | 7.000 | 1.670 | 0.625 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |

MCRNL/R

15° Holder for 80° Diamond

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|---------|-------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| MCRNR-124B | 9T2521256B | CN_-43 | 0.750 | 0.750 | 4.500 | 1.240 | 0.750 | ICSN-433 | NL-46 | CL-9 | XNS-58 | S-46 |
| MCRNL-124B | 9T2501256B | CN_-43 | 0.750 | 0.750 | 4.500 | 1.240 | 0.755 | ICSN-433 | NL-46 | CL-9 | XNS-58 | S-46 |
| MCRNR-164D | 9T2521656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.240 | 1.250 | ICSN-433 | NL-46 | CL-9 | XNS-58 | S-46 |
| MCRNL-164D | 9T2501656D | CN_-43 | 1.000 | 1.000 | 6.000 | 1.240 | 1.250 | ICSN-433 | NL-46 | CL-9 | XNS-58 | S-46 |
| MCRNR-165D | 9T2521664D | CN_-54 | 1.000 | 1.000 | 6.000 | 1.340 | 1.250 | ICSN-533 | NL-58 | CL-9 | XNS-510 | S-58 |
| MCRNL-165D | 9T2501664D | CN_-54 | 1.000 | 1.000 | 6.000 | 1.340 | 1.250 | ICSN-533 | NL-58 | CL-9 | XNS-510 | S-58 |
| MCRNR-205D | 9T2522064D | CN_-54 | 1.250 | 1.250 | 6.000 | 1.340 | 1.500 | ICSN-533 | NL-58 | CL-9 | XNS-510 | S-58 |
| MCRNL-205D | 9T2502064D | CN_-54 | 1.250 | 1.250 | 6.000 | 1.340 | 1.500 | ICSN-533 | NL-58 | CL-9 | XNS-510 | S-58 |
| MCRNR-206D | 9T2522072D | CN_-64 | 1.250 | 1.250 | 6.000 | 1.490 | 1.500 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCRNL-206D | 9T2502072D | CN_-64 | 1.250 | 1.250 | 6.000 | 1.490 | 1.500 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCRNR-246E | 9T2522472E | CN_-64 | 1.500 | 1.500 | 7.000 | 1.490 | 2.000 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MCRNL-246E | 9T2502472E | CN_-64 | 1.500 | 1.500 | 7.000 | 1.490 | 2.000 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |

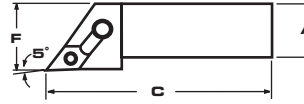
TURNING



TURNING

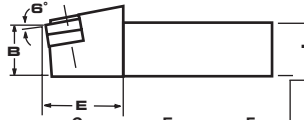
MDJNL/R

5° Holder for 55° Diamond



RH SHOWN

Most holders available with coolant port
(ie: Add CP to end of description)

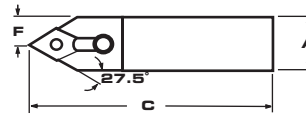


PARTS

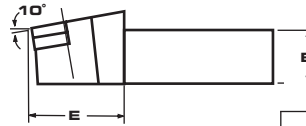
| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|--------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MDJNR-124B | 9T2921256B | DN_-43 | 0.750 | 0.750 | 4.500 | 1.380 | 1.000 | IDSN-433 | NL-46 | TC-250 | STC-11 | S-46 |
| MDJNL-124B | 9T2901256B | DN_-43 | 0.750 | 0.750 | 4.500 | 1.380 | 1.000 | IDSN-433 | NL-46 | TC-250 | STC-11 | S-46 |
| MDJNR-164D | 9T2921656D | DN_-43 | 1.000 | 1.000 | 6.000 | 1.240 | 1.250 | IDSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MDJNL-164D | 9T2901656D | DN_-43 | 1.000 | 1.000 | 6.000 | 1.240 | 1.250 | IDSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MDJNR-204D | 9T2922056D | DN_-43 | 1.250 | 1.250 | 6.000 | 1.240 | 1.500 | IDSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MDJNL-204D | 9T2902056D | DN_-43 | 1.250 | 1.250 | 6.000 | 1.240 | 1.500 | IDSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MDJNR-854D | 9T2924456D | DN_-43 | 1.000 | 1.250 | 6.000 | 1.240 | 1.250 | IDSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MDJNL-854D | 9T2904456D | DN_-43 | 1.000 | 1.250 | 6.000 | 1.240 | 1.250 | IDSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MDJNR-165D | 9T2921664D | DN_-54 | 1.000 | 1.000 | 6.000 | 1.470 | 1.250 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MDJNL-165D | 9T2901664D | DN_-54 | 1.000 | 1.000 | 6.000 | 1.470 | 1.250 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MDJNR-205D | 9T2922064D | DN_-54 | 1.250 | 1.250 | 6.000 | 1.470 | 1.250 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MDJNL-205D | 9T2902064D | DN_-54 | 1.250 | 1.250 | 6.000 | 1.470 | 1.250 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MDJNR-855D | 9T2924464D | DN_-54 | 1.000 | 1.250 | 6.000 | 1.470 | 1.500 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MDJNL-855D | 9T2904464D | DN_-54 | 1.000 | 1.250 | 6.000 | 1.470 | 1.500 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MDJNR-865E | 9T2924664E | DN_-54 | 1.000 | 1.500 | 7.000 | 1.470 | 1.250 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MDJNL-865E | 9T2904664E | DN_-54 | 1.000 | 1.500 | 7.000 | 1.470 | 1.250 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |

MDPNN

27.5° Holder for 55° Diamond



Most holders available with coolant port
(ie: Add CP to end of description)

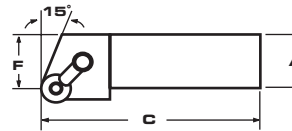


PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MDPNN-164D | 9T2961656D | DN_-43 | 1.000 | 1.000 | 6.000 | 1.630 | 0.519 | IDSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| MDPNN-204D | 9T2962056D | DN_-43 | 1.250 | 1.250 | 6.000 | 1.630 | 0.750 | IDSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| MDPNN-165D | 9T2961664D | DN_-54 | 1.000 | 1.000 | 6.000 | 1.920 | 0.528 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MDPNN-205D | 9T2962064D | DN_-54 | 1.250 | 1.250 | 6.000 | 1.920 | 0.653 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MDPNN-855D | 9T2964464D | DN_-54 | 1.000 | 1.250 | 6.000 | 1.920 | 0.528 | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |

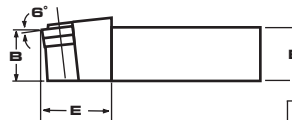
MRGNL/R

15° Holder for Round Insert



RH SHOWN

Most holders available with coolant port
(ie: Add CP to end of description)



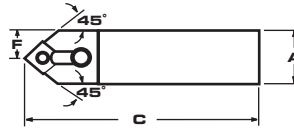
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MRGNR-164D | 9T3141656D | RN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.250 | IRSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MRGNL-164D | 9T3121656D | RN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.250 | IRSN-433 | NL-46 | CL-20 | XNS-48 | S-46 |
| MRGNR-165D | 9T3141664D | RN_-54 | 1.000 | 1.000 | 6.000 | 1.380 | 1.250 | IRSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MRGNL-165D | 9T3121664D | RN_-54 | 1.000 | 1.000 | 6.000 | 1.380 | 1.250 | IRSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MRGNR-205D | 9T3142064D | RN_-54 | 1.250 | 1.250 | 6.000 | 1.380 | 1.500 | IRSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MRGNL-205D | 9T3122064D | RN_-54 | 1.250 | 1.250 | 6.000 | 1.380 | 1.500 | IRSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MRGNR-166D | 9T3141672D | RN_-64 | 1.000 | 1.000 | 6.000 | 1.500 | 1.250 | IRSN-633 | NL-68 | CL-9 | XNS-510 | S-68 |
| MRGNL-166D | 9T3121672D | RN_-64 | 1.000 | 1.000 | 6.000 | 1.500 | 1.250 | IRSN-633 | NL-68 | CL-9 | XNS-510 | S-68 |
| MRGNR-206D | 9T3142072D | RN_-64 | 1.250 | 1.250 | 6.000 | 1.500 | 1.500 | IRSN-633 | NL-68 | CL-9 | XNS-510 | S-68 |
| MRGNL-206D | 9T3122072D | RN_-64 | 1.250 | 1.250 | 6.000 | 1.500 | 1.500 | IRSN-633 | NL-68 | CL-9 | XNS-510 | S-68 |

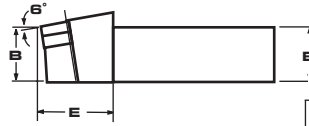


MSDNN

45° Holder for 90° Square



Most holders available with coolant port
(ie: Add CP to end of description)

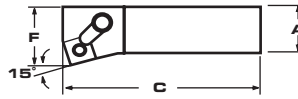


PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|--------|-------|-------|----------|--------|-------|---------|-------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| MSDNN-103B | 9T3301048B | SN_-32 | 0.625 | 0.625 | 4.500 | 1.140 | 0.312 | ISSN-322 | NL-34 | CL-6 | XNS-36 | S-34 |
| MSDNN-123B | 9T3301248B | SN_-32 | 0.750 | 0.750 | 4.500 | 1.140 | 0.375 | ISSN-322 | NL-34 | CL-6 | XNS-36 | S-34 |
| MSDNN-124B | 9T3301256B | SN_-43 | 0.750 | 0.750 | 4.500 | 1.340 | 0.375 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSDNN-164D | 9T3301656D | SN_-43 | 1.000 | 1.000 | 6.000 | 1.340 | 0.500 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSDNN-165D | 9T3301664D | SN_-54 | 1.000 | 1.000 | 6.000 | 1.610 | 0.500 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSDNN-205D | 9T3302064D | SN_-54 | 1.250 | 1.250 | 6.000 | 1.610 | 0.625 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSDNN-855D | 9T3304464D | SN_-54 | 1.000 | 1.250 | 6.000 | 1.610 | 0.500 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSDNN-206E | 9T3302072E | SN_-64 | 1.250 | 1.250 | 7.000 | 1.620 | 0.625 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-69 |
| MSDNN-856D | 9T3304472D | SN_-64 | 1.000 | 1.500 | 6.000 | 1.730 | 0.500 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-69 |
| MSDNN-248E | 9T3302483E | SN_-86 | 1.500 | 1.500 | 7.000 | 2.240 | 0.750 | ISSN-844 | NL-810 | CL-24 | XNS-610 | S-810 |
| MSDNN-328K | 9T3303283K | SN_-86 | 2.000 | 2.000 | 14.000 | 2.240 | 1.000 | ISSN-844 | NL-810 | CL-24 | XNS-610 | S-810 |

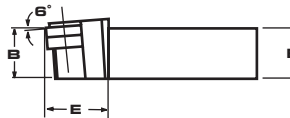
MSKNL/R

15° Holder for 90° Square



RH SHOWN

Most holders available with coolant port
(ie: Add CP to end of description)



PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|---------|-------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| MSKNR-123B | 9T3361248B | SN_-32 | 0.750 | 0.750 | 4.500 | 1.210 | 1.000 | ISSN-322 | NL-34 | CL-6 | XNS-56 | S-34 |
| MSKNL-123B | 9T3341248B | SN_-32 | 0.750 | 0.750 | 4.500 | 1.210 | 1.000 | ISSN-322 | NL-34 | CL-6 | XNS-56 | S-34 |
| MSKNR-124B | 9T3361256B | SN_-43 | 0.750 | 0.750 | 4.500 | 1.210 | 1.000 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSKNL-124B | 9T3341256B | SN_-43 | 0.750 | 0.750 | 4.500 | 1.210 | 1.000 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSKNR-164D | 9T3361656D | SN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.250 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSKNL-164D | 9T3341656D | SN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.250 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSKNR-165D | 9T3361664D | SN_-54 | 1.000 | 1.000 | 6.000 | 1.500 | 1.250 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSKNL-165D | 9T3341664D | SN_-54 | 1.000 | 1.000 | 6.000 | 1.500 | 1.250 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSKNR-205D | 9T3362064D | SN_-54 | 1.250 | 1.250 | 6.000 | 1.500 | 1.500 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSKNL-205D | 9T3342064D | SN_-54 | 1.250 | 1.250 | 6.000 | 1.500 | 1.500 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSKNR-206D | 9T3362072D | SN_-64 | 1.250 | 1.250 | 6.000 | 1.470 | 1.500 | ISSN-633 | NL-68 | CL-24 | XNS-610 | S-69 |
| MSKNL-206D | 9T3342072D | SN_-64 | 1.250 | 1.250 | 6.000 | 1.470 | 1.500 | ISSN-633 | NL-68 | CL-24 | XNS-610 | S-69 |
| MSKNR-246E | 9T3362472E | SN_-64 | 1.500 | 1.500 | 7.000 | 1.470 | 2.000 | ISSN-633 | NL-68 | CL-24 | XNS-610 | S-69 |
| MSKNL-246E | 9T3342472E | SN_-64 | 1.500 | 1.500 | 7.000 | 1.470 | 2.000 | ISSN-633 | NL-68 | CL-24 | XNS-610 | S-69 |

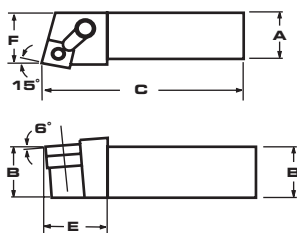


TURNING

MSRNL/R

15° Holder for 90° Square

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

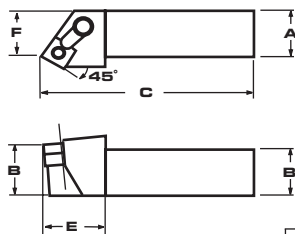
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|--------|-------|-------|----------|--------|-------|---------|-------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MSRNR-83B | 9T3420848B | SN_-32 | 0.500 | 0.500 | 4.500 | 1.030 | 0.658 | ISSN-322 | NL-34 | CL-6 | XNS-36 | S-46 |
| MSRNL-83B | 9T3400848B | SN_-32 | 0.500 | 0.500 | 4.500 | 1.030 | 0.658 | ISSN-322 | NL-34 | CL-6 | XNS-36 | S-46 |
| MSRNR-124B | 9T3421256B | SN_-43 | 0.750 | 0.750 | 4.500 | 1.250 | 0.878 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSRNL-124B | 9T3401256B | SN_-43 | 0.750 | 0.750 | 4.500 | 1.250 | 0.878 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSRNR-164D | 9T3421656D | SN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.128 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSRNL-164D | 9T3401656D | SN_-43 | 1.000 | 1.000 | 6.000 | 1.250 | 1.128 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| MSRNR-165D | 9T3421664D | SN_-54 | 1.000 | 1.000 | 6.000 | 1.440 | 1.100 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSRNL-165D | 9T3401664D | SN_-54 | 1.000 | 1.000 | 6.000 | 1.440 | 1.100 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSRNR-205D | 9T3422064D | SN_-54 | 1.250 | 1.250 | 6.000 | 1.440 | 1.350 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSRNL-205D | 9T3402064D | SN_-54 | 1.250 | 1.250 | 6.000 | 1.440 | 1.350 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSRNR-855D | 9T3424464D | SN_-54 | 1.000 | 1.250 | 6.000 | 1.460 | 1.100 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSRNL-855D | 9T3404464D | SN_-54 | 1.000 | 1.250 | 6.000 | 1.460 | 1.100 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSRNR-206D | 9T3422072D | SN_-64 | 1.250 | 1.250 | 6.000 | 1.560 | 1.318 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSRNL-206D | 9T3402072D | SN_-64 | 1.250 | 1.250 | 6.000 | 1.560 | 1.318 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSRNR-246E | 9T3422472E | SN_-64 | 1.500 | 1.500 | 7.000 | 1.560 | 1.818 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSRNL-246E | 9T3402472E | SN_-64 | 1.500 | 1.500 | 7.000 | 1.560 | 1.818 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSRNR-856D | 9T3422472E | SN_-64 | 1.000 | 1.250 | 6.000 | 1.500 | 1.068 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSRNL-856D | 9T3402472E | SN_-64 | 1.000 | 1.250 | 6.000 | 1.500 | 1.068 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSRNR-328K | 9T3423283K | SN_-86 | 2.000 | 2.000 | 14.000 | 1.620 | 2.262 | ISSN-844 | NL-810 | CL-24 | XNS-610 | S-810 |
| MSRNL-328K | 9T3403283K | SN_-86 | 2.000 | 2.000 | 14.000 | 1.620 | 2.262 | ISSN-844 | NL-810 | CL-24 | XNS-610 | S-810 |

MSSNL/R

45° Holder for 90° Square

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|--------|-------|-------|----------|--------|-------|---------|-------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MSSNR-83B | 9T3480848B | SN_-32 | 0.500 | 0.500 | 4.500 | 1.030 | 0.658 | ISSN-322 | NL-34 | CL-6 | XNS-46 | S-46 |
| MSSNL-83B | 9T3460848B | SN_-32 | 0.500 | 0.500 | 4.500 | 1.030 | 0.658 | ISSN-322 | NL-34 | CL-6 | XNS-46 | S-46 |
| MSSNR-124B | 9T3481256B | SN_-43 | 0.750 | 0.750 | 4.500 | 1.240 | 0.662 | ISSN-433 | NL-46 | CL-9 | XNS-49 | S-46 |
| MSSNL-124B | 9T3461256B | SN_-43 | 0.750 | 0.750 | 4.500 | 1.240 | 0.662 | ISSN-433 | NL-46 | CL-9 | XNS-49 | S-46 |
| MSSNR-164D | 9T3481656D | SN_-43 | 1.000 | 1.000 | 6.000 | 1.240 | 0.912 | ISSN-433 | NL-46 | CL-9 | XNS-49 | S-46 |
| MSSNL-164D | 9T3461656D | SN_-43 | 1.000 | 1.000 | 6.000 | 1.240 | 0.912 | ISSN-433 | NL-46 | CL-9 | XNS-49 | S-46 |
| MSSNR-165D | 9T3481664D | SN_-54 | 1.000 | 1.000 | 6.000 | 1.370 | 0.912 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSSNL-165D | 9T3461664D | SN_-54 | 1.000 | 1.000 | 6.000 | 1.370 | 0.912 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSSNR-205D | 9T3482064D | SN_-54 | 1.250 | 1.250 | 6.000 | 1.370 | 1.500 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSSNL-205D | 9T3462064D | SN_-54 | 1.250 | 1.250 | 6.000 | 1.370 | 1.500 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSSNR-855D | 9T3484464D | SN_-54 | 1.000 | 1.250 | 6.000 | 1.370 | 1.250 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSSNL-855D | 9T3464464D | SN_-54 | 1.000 | 1.250 | 6.000 | 1.370 | 1.250 | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MSSNR-206D | 9T3482072D | SN_-64 | 1.250 | 1.250 | 6.000 | 1.490 | 1.500 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSSNL-206D | 9T3462072D | SN_-64 | 1.250 | 1.250 | 6.000 | 1.490 | 1.500 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSSNR-246E | 9T3482472E | SN_-64 | 1.500 | 1.500 | 7.000 | 1.490 | 2.000 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSSNL-246E | 9T3462472E | SN_-64 | 1.500 | 1.500 | 7.000 | 1.490 | 2.000 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSSNR-856D | 9T3482472E | SN_-64 | 1.000 | 1.250 | 6.000 | 1.490 | 2.000 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSSNL-856D | 9T3462472E | SN_-64 | 1.000 | 1.250 | 6.000 | 1.490 | 2.000 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| MSSNR-328K | 9T3483283K | SN_-86 | 2.000 | 2.000 | 14.000 | 1.620 | 2.262 | ISSN-844 | NL-810 | CL-24 | XNS-610 | S-810 |
| MSSNL-328K | 9T3463283K | SN_-86 | 2.000 | 2.000 | 14.000 | 1.620 | 2.262 | ISSN-844 | NL-810 | CL-24 | XNS-610 | S-810 |

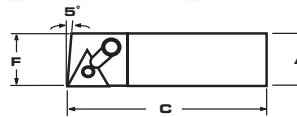
TURNING

TURNING



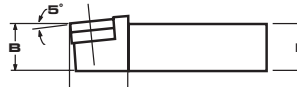
MTANL/R

5° Holder for 60° Triangle



RH SHOWN

Most holders available with coolant port
(ie: Add CP to end of description)

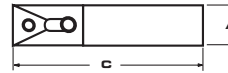


PARTS

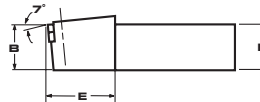
| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|--------|-------|------|
| | | | | | | | | Pin | Clamp | Screw | Screw | Screw | |
| MTANR-123A | 9T3541248B | TN_-32 | 0.750 | 0.750 | 4.000 | 1.060 | 0.750 | ITSN-322 | NL-34 | CL-6 | XNS-36 | S-34 | S-34 |
| MTANL-123A | 9T3521248B | TN_-32 | 0.750 | 0.750 | 4.000 | 1.060 | 0.750 | ITSN-322 | NL-34 | CL-6 | XNS-36 | S-34 | S-34 |
| MTANR-164D | 9T3541656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.220 | 1.000 | ITSN-433 | NL-46 | CL-9 | XNS-49 | S-46 | S-46 |
| MTANL-164D | 9T3521656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.220 | 1.000 | ITSN-433 | NL-46 | CL-9 | XNS-49 | S-46 | S-46 |

MTCNN

0° Holder for 60° Triangle



Most holders available with coolant port
(ie: Add CP to end of description)



PARTS

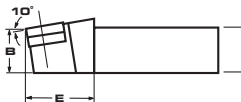
| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-----|----------|--------|-------|--------|-------|------|
| | | | | | | | | Pin | Clamp | Screw | Screw | Screw | |
| MTCNN-443F | 9T3640949F | TN_-33 | 0.500 | 0.500 | 8.000 | 1.130 | N/A | ITSN-323 | NL-34L | CL-7 | XNS-36 | S-46 | S-46 |
| MTCNN-124D | 9T3641256D | TN_-43 | 0.750 | 0.750 | 6.000 | 1.430 | N/A | ITSN-433 | NL-46 | CL-12 | XNS-59 | S-46 | S-46 |
| MTCNN-644F | 9T3641456F | TN_-43 | 0.750 | 1.000 | 8.000 | 1.430 | N/A | ITSN-433 | NL-46 | CL-12 | XNS-59 | S-46 | S-46 |

MTENNS

60° Holder for 60° Triangle



Most holders available with coolant port
(ie: Add CP to end of description)

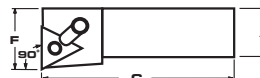


PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|---------|-------|------|
| | | | | | | | | Pin | Clamp | Screw | Screw | Screw | |
| MTENNS-103B | 9T3681049B | TN_-33 | 0.625 | 0.625 | 4.500 | 1.160 | 0.312 | ITSN-323 | NL-34L | CL-6 | XNS-36 | N/A | N/A |
| MTENNS-123B | 9T3681249B | TN_-33 | 0.750 | 0.750 | 4.500 | 1.160 | 0.375 | ITSN-323 | NL-34L | CL-6 | XNS-36 | N/A | N/A |
| MTENNS-853D | 9T3684449D | TN_-33 | 1.000 | 1.250 | 6.000 | 1.160 | 0.500 | ITSN-323 | NL-34L | CL-6 | XNS-36 | N/A | N/A |
| MTENNS-104B | 9T3681056B | TN_-43 | 0.625 | 0.625 | 4.500 | 1.140 | 0.312 | ITSN-433 | NL-46 | CL-9 | XNS-59 | N/A | N/A |
| MTENNS-124B | 9T3681256B | TN_-43 | 0.750 | 0.750 | 4.500 | 1.500 | 0.375 | ITSN-433 | NL-46 | CL-9 | XNS-59 | N/A | N/A |
| MTENNS-164D | 9T3681656B | TN_-43 | 1.000 | 1.000 | 6.000 | 1.500 | 0.500 | ITSN-433 | NL-46 | CL-9 | XNS-59 | N/A | N/A |
| MTENNS-854D | 9T3684456D | TN_-43 | 1.000 | 1.250 | 6.000 | 1.500 | 0.500 | ITSN-433 | NL-46 | CL-9 | XNS-59 | N/A | N/A |
| MTENNS-864E | 9T3684656E | TN_-43 | 1.000 | 1.500 | 7.000 | 1.500 | 0.500 | ITSN-433 | NL-46 | CL-9 | XNS-59 | N/A | N/A |
| MTENNS-205D | 9T3682064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.640 | 0.625 | ITSN-533 | NL-58 | CL-9 | XNS-510 | N/A | N/A |
| MTENNS-246E | 9T3682476E | TN_-64 | 1.500 | 1.500 | 7.000 | 1.950 | 0.750 | ITSN-637 | NL-68L | CL-12 | XNS-510 | N/A | N/A |

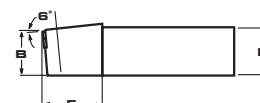
MTFNL/R

90° Holder for 60° Triangle



RH SHOWN

Most holders available with coolant port
(ie: Add CP to end of description)



PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|---------|-------|------|
| | | | | | | | | Pin | Clamp | Screw | Screw | Screw | |
| MTFNR-123B | 9T3741249B | TN_-33 | 0.750 | 0.750 | 4.500 | 0.940 | 1.000 | ITSN-323 | NL-34L | CL-6 | XNS-36 | S-46 | S-46 |
| MTFNL-123B | 9T3721249B | TN_-33 | 0.750 | 0.750 | 4.500 | 0.940 | 1.000 | ITSN-323 | NL-34L | CL-6 | XNS-36 | S-46 | S-46 |
| MTFNR-163C | 9T3741649C | TN_-33 | 1.000 | 1.000 | 5.000 | 0.940 | 1.250 | ITSN-323 | NL-34L | CL-6 | XNS-36 | S-46 | S-46 |
| MTFNL-163C | 9T3721649C | TN_-33 | 1.000 | 1.000 | 5.000 | 0.940 | 1.250 | ITSN-323 | NL-34L | CL-6 | XNS-36 | S-46 | S-46 |
| MTFNR-164D | 9T3741656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.220 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 | S-46 |
| MTFNL-164D | 9T3721656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.220 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 | S-46 |
| MTFNR-204D | 9T3742056D | TN_-43 | 1.250 | 1.250 | 6.000 | 1.220 | 1.500 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 | S-46 |
| MTFNL-204D | 9T3722056D | TN_-43 | 1.250 | 1.250 | 6.000 | 1.220 | 1.500 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 | S-46 |
| MTFNR-854D | 9T3744456D | TN_-43 | 1.000 | 1.250 | 6.000 | 1.220 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 | S-46 |
| MTFNL-854D | 9T3724456D | TN_-43 | 1.000 | 1.250 | 6.000 | 1.220 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 | S-46 |
| MTFNL-165D | 9T3741664D | TN_-54 | 1.000 | 1.000 | 6.000 | 1.430 | 1.250 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | S-58 |
| MTFNL-165D | 9T3721664D | TN_-54 | 1.000 | 1.000 | 6.000 | 1.430 | 1.250 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | S-58 |
| MTFNR-205D | 9T3742064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.430 | 1.500 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | S-58 |
| MTFNL-205D | 9T3722064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.430 | 1.500 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | S-58 |
| MTFNR-855D | 9T3744464D | TN_-54 | 1.000 | 1.250 | 6.000 | 1.430 | 1.250 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | S-58 |
| MTFNL-855D | 9T3724464D | TN_-54 | 1.000 | 1.250 | 6.000 | 1.430 | 1.250 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 | S-58 |
| MTFNR-246E | 9T3742476E | TN_-66 | 1.500 | 1.500 | 7.000 | 1.490 | 1.250 | ITSN-633 | NL-68L | CL-12 | XNS-510 | S-68 | S-68 |
| MTFNL-246E | 9T3722476E | TN_-66 | 1.500 | 1.500 | 7.000 | 1.490 | 2.000 | ITSN-633 | NL-68L | CL-12 | XNS-510 | S-68 | S-68 |

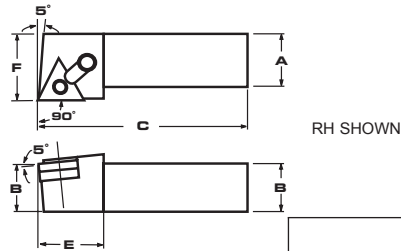


TURNING

MTGNL/R

90° Holder for 60° Triangle

Most holders available with coolant port
(ie: Add CP to end of description)



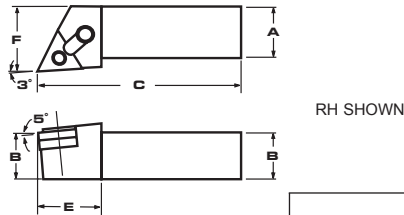
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MTGNR-123B | 9T3801249B | TN_-33 | 0.750 | 0.750 | 4.500 | 1.120 | 1.000 | ITSN-323 | NL-34L | CL-6 | XNS-36 | S-34 |
| MTGNL-123B | 9T3781249B | TN_-33 | 0.750 | 0.750 | 4.500 | 1.120 | 1.000 | ITSN-323 | NL-34L | CL-6 | XNS-36 | S-34 |
| MTGNR-163C | 9T3801649C | TN_-33 | 1.000 | 1.000 | 5.000 | 1.120 | 1.250 | ITSN-323 | NL-34L | CL-6 | XNS-36 | S-46 |
| MTGNL-163C | 9T3781649C | TN_-33 | 1.000 | 1.000 | 5.000 | 1.120 | 1.250 | ITSN-323 | NL-34L | CL-6 | XNS-36 | S-46 |
| MTGNR-164D | 9T3801656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.220 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTGNL-164D | 9T3781656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.220 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTGNR-204D | 9T3802056D | TN_-43 | 1.250 | 1.250 | 6.000 | 1.220 | 1.500 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTGNL-204D | 9T3782056D | TN_-43 | 1.250 | 1.250 | 6.000 | 1.220 | 1.500 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTGNR-854D | 9T3804456D | TN_-43 | 1.000 | 1.250 | 6.000 | 1.220 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTGNL-854D | 9T3784456D | TN_-43 | 1.000 | 1.250 | 6.000 | 1.220 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTGNR-165D | 9T3801664D | TN_-54 | 1.000 | 1.000 | 6.000 | 1.430 | 1.250 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MTGNL-165D | 9T3781664D | TN_-54 | 1.000 | 1.000 | 6.000 | 1.430 | 1.250 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MTGNR-205D | 9T3802064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.430 | 1.500 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MTGNL-205D | 9T3782064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.430 | 1.500 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MTGNR-855D | 9T3804464D | TN_-54 | 1.000 | 1.250 | 6.000 | 1.430 | 1.250 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MTGNL-855D | 9T3784464D | TN_-54 | 1.000 | 1.250 | 6.000 | 1.430 | 1.250 | ITSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| MTGNR-246E | 9T3802472E | TN_-66 | 1.500 | 1.500 | 7.000 | 1.490 | 1.250 | ITSN-633 | NL-68L | CL-12 | XNS-510 | S-68 |
| MTGNL-246E | 9T3782472E | TN_-66 | 1.500 | 1.500 | 7.000 | 1.490 | 2.000 | ITSN-633 | NL-68L | CL-12 | XNS-510 | S-68 |

MTJNLS/RS

3° Holder for 60° Triangle

Most holders available with coolant port
(ie: Add CP to end of description)



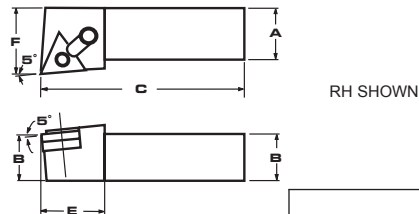
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MTJNRS-123B | 9T3861249B | TN_-33 | 0.750 | 0.750 | 4.500 | 1.120 | 1.000 | ITSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MTJNLS-123B | 9T3841249B | TN_-33 | 0.750 | 0.750 | 4.500 | 1.120 | 1.000 | ITSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MTJNRS-164D | 9T3861656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.190 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | N/A |
| MTJNLS-164D | 9T3841656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.190 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | N/A |
| MTJNRS-204D | 9T3862056D | TN_-43 | 1.250 | 1.250 | 6.000 | 1.190 | 1.500 | ITSN-433 | NL-46 | CL-9 | XNS-510 | N/A |
| MTJNLS-204D | 9T3842056D | TN_-43 | 1.250 | 1.250 | 6.000 | 1.190 | 1.500 | ITSN-433 | NL-46 | CL-9 | XNS-510 | N/A |
| MTJNRS-854D | 9T3864456D | TN_-43 | 1.000 | 1.250 | 6.000 | 1.190 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | N/A |
| MTJNLS-854D | 9T3844456D | TN_-43 | 1.000 | 1.250 | 6.000 | 1.190 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | N/A |
| MTJNRS-864E | 9T3864656E | TN_-43 | 1.000 | 1.500 | 7.000 | 1.190 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | N/A |
| MTJNLS-864E | 9T3844656E | TN_-43 | 1.000 | 1.500 | 7.000 | 1.190 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | N/A |
| MTJNRS-205D | 9T3862064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.440 | 1.500 | ITSN-533 | NL-58 | CL-9 | XNS-510 | N/A |
| MTJNLS-205D | 9T3842064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.440 | 1.500 | ITSN-533 | NL-58 | CL-9 | XNS-510 | N/A |
| MTJNRS-865D | 9T3864664D | TN_-54 | 1.000 | 1.500 | 6.000 | 1.440 | 1.250 | ITSN-533 | NL-58 | CL-9 | XNS-510 | N/A |
| MTJNLS-865D | 9T3844664D | TN_-54 | 1.000 | 1.500 | 6.000 | 1.440 | 1.250 | ITSN-533 | NL-58 | CL-9 | XNS-510 | N/A |
| MTJNRS-246E | 9T3862472E | TN_-66 | 1.500 | 1.500 | 7.000 | 1.670 | 2.000 | ITSN-633 | NL-68L | CL-12 | XNS-510 | N/A |
| MTJNLS-246E | 9T3842472E | TN_-66 | 1.500 | 1.500 | 7.000 | 1.670 | 2.000 | ITSN-633 | NL-68L | CL-12 | XNS-510 | N/A |

MTLNL/R

5° Holder for 60° Triangle

Most holders available with coolant port
(ie: Add CP to end of description)



PARTS

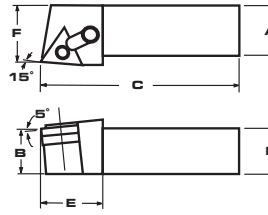
| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MTLNR-123B | 9T3921249B | TN_-33 | 0.750 | 0.750 | 4.500 | 1.120 | 1.000 | ITSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MTLNL-123B | 9T3901249B | TN_-33 | 0.750 | 0.750 | 4.500 | 1.120 | 1.000 | ITSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MTLNR-163D | 9T3921649D | TN_-33 | 1.000 | 1.000 | 6.000 | 1.120 | 1.250 | ITSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MTLNL-163D | 9T3901649D | TN_-33 | 1.000 | 1.000 | 6.000 | 1.120 | 1.250 | ITSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MTLNR-164D | 9T3921656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.240 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTLNL-164D | 9T3901656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.240 | 1.250 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTLNR-204D | 9T3922056D | TN_-43 | 1.250 | 1.250 | 6.000 | 1.280 | 1.500 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTLNL-204D | 9T3902056D | TN_-43 | 1.250 | 1.250 | 6.000 | 1.280 | 1.500 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 |
| MTLNR-205D | 9T3922064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.400 | 1.500 | ITSN-533 | NL-58 | CL-9 | XNS-510 | S-58 |
| MTLNL-205D | 9T3902064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.400 | 1.500 | ITSN-533 | NL-58 | CL-9 | XNS-510 | S-58 |



MTRNL/R

15° Holder for 60° Triangle

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

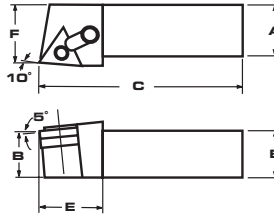
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|---------|-------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw | |
| MTRNR-123B | 9T3981249B | TN_-33 | 0.750 | 0.750 | 4.500 | 1.200 | 0.847 | ITSN-323 | NL-34L | CL-20 | XNS-46 | S-34 | |
| MTRNL-123B | 9T3961249B | TN_-33 | 0.750 | 0.750 | 4.500 | 1.200 | 0.847 | ITSN-323 | NL-34L | CL-20 | XNS-46 | S-34 | |
| MTRNR-163D | 9T3981649D | TN_-33 | 1.000 | 1.000 | 6.000 | 1.200 | 1.097 | ITSN-323 | NL-34L | CL-20 | XNS-46 | S-34 | |
| MTRNL-163D | 9T3961649D | TN_-33 | 1.000 | 1.000 | 6.000 | 1.200 | 1.097 | ITSN-323 | NL-34L | CL-20 | XNS-46 | S-34 | |
| MTRNR-164D | 9T3981656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.240 | 1.040 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 | |
| MTRNL-164D | 9T3961656D | TN_-43 | 1.000 | 1.000 | 6.000 | 1.240 | 1.040 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 | |
| MTRNR-165D | 9T3981664D | TN_-54 | 1.000 | 1.000 | 6.000 | 1.620 | 0.990 | ITSN-533 | NL-58 | CL-9 | XNS-510 | S-58 | |
| MTRNL-165D | 9T3961664D | TN_-54 | 1.000 | 1.000 | 6.000 | 1.620 | 0.990 | ITSN-533 | NL-58 | CL-9 | XNS-510 | S-58 | |
| MTRNR-205D | 9T3982064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.620 | 1.240 | ITSN-533 | NL-58 | CL-9 | XNS-510 | S-58 | |
| MTRNL-205D | 9T3962064D | TN_-54 | 1.250 | 1.250 | 6.000 | 1.620 | 1.240 | ITSN-533 | NL-58 | CL-9 | XNS-510 | S-58 | |
| MTRNR-246E | 9T3982072E | TN_-66 | 1.500 | 1.500 | 7.000 | 1.680 | 1.685 | ITSN-633 | NL-68L | CL-12 | XNS-510 | S-68 | |
| MTRNL-246E | 9T3962072E | TN_-66 | 1.500 | 1.500 | 7.000 | 1.680 | 1.685 | ITSN-633 | NL-68L | CL-12 | XNS-510 | S-68 | |

MTWNL/R

10° Holder for 60° Triangle

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

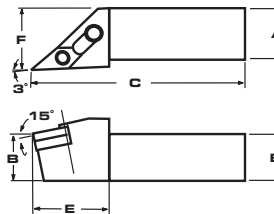
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|---------|-------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw | |
| MTWNR-123D | 9T4141249D | TN_-33 | 0.750 | 0.750 | 6.000 | 1.350 | 0.875 | ITSN-323 | NL-34L | CL-6 | XNS-36 | S-34 | |
| MTWNL-123D | 9T4101249D | TN_-33 | 0.750 | 0.750 | 6.000 | 1.350 | 0.875 | ITSN-323 | NL-34L | CL-6 | XNS-36 | S-34 | |
| MTWNR-164E | 9T4141656E | TN_-43 | 1.000 | 1.000 | 7.000 | 1.750 | 1.094 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 | |
| MTWNL-164E | 9T4101656E | TN_-43 | 1.000 | 1.000 | 7.000 | 1.750 | 1.094 | ITSN-433 | NL-46 | CL-9 | XNS-510 | S-46 | |
| MTWNR-205F | 9T4142064F | TN_-54 | 1.250 | 1.250 | 8.000 | 1.840 | 1.312 | ITSN-533 | NL-58 | CL-9 | XNS-510 | S-58 | |
| MTWNL-205F | 9T4102064F | TN_-54 | 1.250 | 1.250 | 8.000 | 1.840 | 1.312 | ITSN-533 | NL-58 | CL-9 | XNS-510 | S-58 | |

MVJNL/R

3° Holder for 35° Diamond

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | Clamp | | Seat |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|---------|-------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw | |
| MVJNR-123B | 9T4221249B | VN_-33 | 0.750 | 0.750 | 4.500 | 1.660 | 1.000 | IVSN-324 | NL-34L | CL-30 | XNS-36 | S-34 | |
| MVJNL-123B | 9T4181249B | VN_-33 | 0.750 | 0.750 | 4.500 | 1.660 | 1.000 | IVSN-324 | NL-34L | CL-30 | XNS-36 | S-34 | |
| MVJNR-163C | 9T4221649C | VN_-33 | 1.000 | 1.000 | 5.000 | 1.660 | 1.250 | IVSN-324 | NL-34L | CL-30 | XNS-36 | S-34 | |
| MVJNL-163C | 9T4181649C | VN_-33 | 1.000 | 1.000 | 5.000 | 1.660 | 1.250 | IVSN-324 | NL-34L | CL-30 | XNS-36 | S-34 | |
| MVJNR-203D | 9T4222049D | VN_-33 | 1.250 | 1.250 | 6.000 | 1.660 | 1.500 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 | |
| MVJNL-203D | 9T4182049D | VN_-33 | 1.250 | 1.250 | 6.000 | 1.660 | 1.500 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 | |
| MVJNR-853D | 9T4224449D | VN_-33 | 1.000 | 1.250 | 6.000 | 1.660 | 1.250 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 | |
| MVJNL-853D | 9T4184449D | VN_-33 | 1.000 | 1.250 | 6.000 | 1.660 | 1.250 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 | |
| MVJNR-164D | 9T4221656D | VN_-43 | 1.000 | 1.000 | 6.000 | 2.000 | 1.250 | IVSN-433 | NL-46 | CL-30 | XNS-510 | S-46 | |
| MVJNL-164D | 9T4181656D | VN_-43 | 1.000 | 1.000 | 6.000 | 2.000 | 1.250 | IVSN-433 | NL-46 | CL-30 | XNS-510 | S-46 | |
| MVJNR-204D | 9T4222056D | VN_-43 | 1.250 | 1.250 | 6.000 | 2.000 | 1.500 | IVSN-433 | NL-46 | CL-30 | XNS-510 | S-46 | |
| MVJNL-204D | 9T4182056D | VN_-43 | 1.250 | 1.250 | 6.000 | 2.000 | 1.500 | IVSN-433 | NL-46 | CL-30 | XNS-510 | S-46 | |
| MVJNR-864E | 9T4224656E | VN_-43 | 1.000 | 1.500 | 8.000 | 2.000 | 1.250 | IVSN-433 | NL-46 | CL-30 | XNS-510 | S-46 | |
| MVJNL-864E | 9T4184656E | VN_-43 | 1.000 | 1.500 | 8.000 | 2.000 | 1.250 | IVSN-433 | NL-46 | CL-30 | XNS-510 | S-46 | |

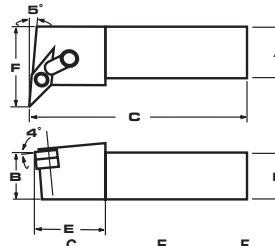


TURNING

MVLNL/R

5° Holder for 35° Diamond

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

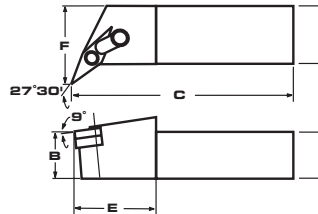
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|-------|-------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MVLNR-164D | 9T4281656D | VN_-43 | 1.000 | 1.000 | 6.000 | 1.500 | 1.750 | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| MVLNL-164D | 9T4261656D | VN_-43 | 1.000 | 1.000 | 6.000 | 1.500 | 1.750 | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| MVLNR-204D | 9T4282056D | VN_-43 | 1.250 | 1.250 | 6.000 | 1.500 | 2.000 | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| MVLNL-204D | 9T4262056D | VN_-43 | 1.250 | 1.250 | 6.000 | 1.500 | 2.000 | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |

MVNNL/R

27.5° Holder for 35° Diamond

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

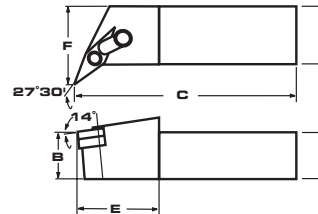
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|--------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MVNNR-123B | 9T4341249B | VN_-33 | 0.750 | 0.750 | 4.500 | 0.940 | 1.000 | IVSN-323 | NL-34L | CL-6 | XNS-36 | S-34 |
| MVNNL-123B | 9T4321249B | VN_-33 | 0.750 | 0.750 | 4.500 | 0.940 | 1.000 | IVSN-323 | NL-34L | CL-6 | XNS-36 | S-34 |
| MVNNR-163D | 9T4341649D | VN_-33 | 1.000 | 1.000 | 6.000 | 1.220 | 1.250 | IVSN-323 | NL-34L | CL-6 | XNS-36 | S-34 |
| MVNNL-163D | 9T4321649D | VN_-33 | 1.000 | 1.000 | 6.000 | 1.220 | 1.250 | IVSN-323 | NL-34L | CL-6 | XNS-36 | S-34 |
| MVNNR-203D | 9T4342049D | VN_-33 | 1.250 | 1.250 | 6.000 | 1.220 | 1.500 | IVSN-323 | NL-34L | CL-6 | XNS-36 | S-34 |
| MVNNL-203D | 9T4322049D | VN_-33 | 1.250 | 1.250 | 6.000 | 1.220 | 1.500 | IVSN-323 | NL-34L | CL-6 | XNS-36 | S-34 |

MVTNL/R

27.5° Holder for 35° Diamond

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

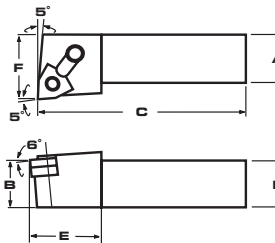
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | | | |
|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MVTNR-123B | 9T4461249B | VN_-33 | 0.750 | 0.750 | 4.500 | 1.710 | 1.000 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| MVTNL-123B | 9T4441249B | VN_-33 | 0.750 | 0.750 | 4.500 | 1.710 | 1.000 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| MVTNR-163D | 9T4461649D | VN_-33 | 1.000 | 1.000 | 6.000 | 1.710 | 1.250 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| MVTNL-163D | 9T4441649D | VN_-33 | 1.000 | 1.000 | 6.000 | 1.710 | 1.250 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| MVTNR-203D | 9T4462049D | VN_-33 | 1.250 | 1.250 | 6.000 | 1.710 | 1.500 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| MVTNL-203D | 9T4442049D | VN_-33 | 1.250 | 1.250 | 6.000 | 1.710 | 1.500 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| MVTNR-243E | 9T4462449E | VN_-33 | 1.500 | 1.500 | 7.000 | 1.710 | 1.750 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| MVTNL-243E | 9T4442449E | VN_-33 | 1.500 | 1.500 | 7.000 | 1.710 | 1.750 | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |

MWLNL/R

5° Holder for 80° Trigon

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

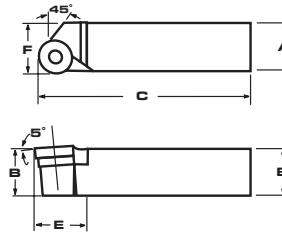
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|-------------|------------|--------|-------|-------|-------|-------|-------|----------|--------|-------|--------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| MWLNR-123B | 9T4561249B | WN_-33 | 0.750 | 0.750 | 4.500 | 1.200 | 1.000 | IWSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MWLNL-123B | 9T4541249B | WN_-33 | 0.750 | 0.750 | 4.500 | 1.200 | 1.000 | IWSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MWLNR-163D | 9T4561649D | WN_-33 | 1.000 | 1.000 | 6.000 | 1.200 | 1.250 | IWSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MWLNL-163D | 9T4541649D | WN_-33 | 1.000 | 1.000 | 6.000 | 1.200 | 1.250 | IWSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MWLNR-203D | 9T4562049D | WN_-33 | 1.250 | 1.250 | 6.000 | 1.200 | 1.500 | IWSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MWLNL-203D | 9T4542049D | WN_-33 | 1.250 | 1.250 | 6.000 | 1.200 | 1.500 | IWSN-323 | NL-34L | CL-6 | XNS-36 | N/A |
| MWLNR-124B | 9T4561256B | WN_-43 | 0.750 | 0.750 | 4.500 | 1.200 | 1.000 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A |
| MWLNL-124B | 9T4541256B | WN_-43 | 0.750 | 0.750 | 4.500 | 1.200 | 1.000 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A |
| MWLNR-164D | 9T4561656D | WN_-43 | 1.000 | 1.000 | 6.000 | 1.200 | 1.250 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A |
| MWLNL-164D | 9T4541656D | WN_-43 | 1.000 | 1.000 | 6.000 | 1.200 | 1.250 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A |
| MWLNR-204D | 9T4562056D | WN_-43 | 1.250 | 1.250 | 6.000 | 1.200 | 1.500 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A |
| MWLNL-204D | 9T4542056D | WN_-43 | 1.250 | 1.250 | 6.000 | 1.200 | 1.500 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A |



RAL/R

45° Holder for Round Insert

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

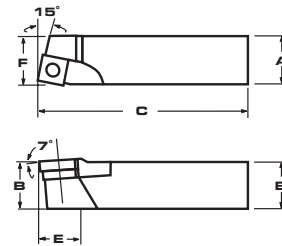
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | |
|-------------|-----------|--------|-------|-------|-------|-------|-------|---------|---------|-------|
| | | | | | | | | Seat | Pin | Screw |
| RAR-164 | 9T5121656 | RN_-43 | 1.000 | 1.000 | 6.000 | 0.690 | 1.000 | IRSN-43 | CLP-38 | N/A |
| RAL-164 | 9T5111656 | RN_-43 | 1.000 | 1.000 | 6.000 | 0.690 | 1.000 | IRSN-43 | CLP-38 | N/A |
| RAR-854 | 9T5124456 | RN_-43 | 1.000 | 1.250 | 6.000 | 0.690 | 1.000 | IRSN-43 | CLP-310 | N/A |
| RAL-854 | 9T5114456 | RN_-43 | 1.000 | 1.250 | 6.000 | 0.690 | 1.000 | IRSN-43 | CLP-310 | N/A |
| RAR-864 | 9T5124656 | RN_-43 | 1.000 | 1.500 | 7.000 | 0.690 | 1.000 | IRSN-43 | CLP-312 | N/A |
| RAL-864 | 9T5114656 | RN_-43 | 1.000 | 1.500 | 7.000 | 0.690 | 1.000 | IRSN-43 | CLP-312 | N/A |
| RAR-166 | 9T5121672 | RN_-64 | 1.000 | 1.000 | 6.000 | 0.950 | 1.000 | IRSN-63 | CLP-58 | N/A |
| RAL-166 | 9T5111672 | RN_-64 | 1.000 | 1.000 | 6.000 | 0.950 | 1.000 | IRSN-63 | CLP-58 | N/A |
| RAR-856 | 9T5124472 | RN_-64 | 1.000 | 1.250 | 6.000 | 0.950 | 1.000 | IRSN-63 | CLP-510 | N/A |
| RAL-856 | 9T5114472 | RN_-64 | 1.000 | 1.250 | 6.000 | 0.950 | 1.000 | IRSN-63 | CLP-510 | N/A |
| RAR-248 | 9T5122483 | RN_-86 | 1.500 | 1.500 | 7.000 | 1.200 | 1.500 | IRSN-84 | CLP-612 | N/A |
| RAL-248 | 9T5112483 | RN_-86 | 1.500 | 1.500 | 7.000 | 1.200 | 1.500 | IRSN-84 | CLP-612 | N/A |

SBL/R

15° Holder for 90° Square

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

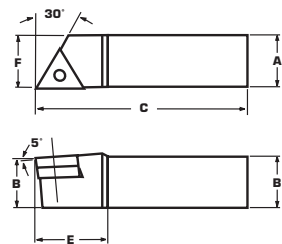
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | |
|-------------|-----------|--------|-------|-------|-------|-------|-------|----------|---------|-------|
| | | | | | | | | Seat | Pin | Screw |
| SBR-124 | 9T5171256 | SN_-43 | 0.750 | 0.750 | 4.500 | 0.870 | 0.630 | ISSN-432 | CLP-36 | N/A |
| SBL-124 | 9T5161256 | SN_-43 | 0.750 | 0.750 | 4.500 | 0.870 | 0.630 | ISSN-432 | CLP-36 | N/A |
| SBR-164 | 9T5171656 | SN_-43 | 1.000 | 1.000 | 6.000 | 0.870 | 0.780 | ISSN-432 | CLP-38 | N/A |
| SBL-164 | 9T5161656 | SN_-43 | 1.000 | 1.000 | 6.000 | 0.870 | 0.780 | ISSN-432 | CLP-38 | N/A |
| SBR-206 | 9T5172072 | SN_-64 | 1.250 | 1.250 | 7.000 | 1.250 | 1.030 | ISSN-632 | CLP-510 | N/A |
| SBL-206 | 9T5162072 | SN_-64 | 1.250 | 1.250 | 7.000 | 1.250 | 1.030 | ISSN-632 | CLP-510 | N/A |

TAL/R

30° Holder for 60° Triangle

Most holders available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | |
|-------------|-----------|--------|-------|-------|-------|-------|-------|----------|---------|-------|
| | | | | | | | | Seat | Pin | Screw |
| TAR-103 | 9T8521048 | TN_-32 | 0.625 | 0.625 | 4.500 | 0.780 | 0.640 | ITSN-324 | CLP-25 | N/A |
| TAL-103 | 9T8501048 | TN_-32 | 0.625 | 0.625 | 4.500 | 0.780 | 0.640 | ITSN-324 | CLP-25 | N/A |
| TAR-123 | 9T8521248 | TN_-32 | 0.750 | 0.750 | 4.500 | 0.780 | 0.770 | ITSN-324 | CLP-25 | N/A |
| TAL-123 | 9T8501248 | TN_-32 | 0.750 | 0.750 | 4.500 | 0.780 | 0.770 | ITSN-324 | CLP-25 | N/A |
| TAR-164 | 9T8521656 | TN_-43 | 1.000 | 1.000 | 6.000 | 1.000 | 1.030 | ITSN-435 | CLP-38 | N/A |
| TAL-164 | 9T8501656 | TN_-43 | 1.000 | 1.000 | 6.000 | 1.000 | 1.030 | ITSN-435 | CLP-38 | N/A |
| TAR-854 | 9T8524456 | TN_-43 | 1.000 | 1.250 | 6.000 | 1.000 | 1.030 | ITSN-435 | CLP-310 | N/A |
| TAL-854 | 9T8504456 | TN_-43 | 1.000 | 1.250 | 6.000 | 1.000 | 1.030 | ITSN-435 | CLP-310 | N/A |
| TAR-165 | 9T8521664 | TN_-54 | 1.000 | 1.000 | 6.000 | 1.190 | 1.030 | ITSN-535 | CLP-48 | N/A |
| TAL-165 | 9T8501664 | TN_-54 | 1.000 | 1.000 | 6.000 | 1.190 | 1.030 | ITSN-535 | CLP-48 | N/A |
| TAR-205 | 9T8522064 | TN_-54 | 1.250 | 1.250 | 7.000 | 1.190 | 1.280 | ITSN-535 | CLP-410 | N/A |
| TAL-205 | 9T8502064 | TN_-54 | 1.250 | 1.250 | 7.000 | 1.190 | 1.280 | ITSN-535 | CLP-410 | N/A |
| TAR-855 | 9T8524464 | TN_-54 | 1.000 | 1.250 | 6.000 | 1.190 | 1.030 | ITSN-535 | CLP-410 | N/A |
| TAL-855 | 9T8504464 | TN_-54 | 1.000 | 1.250 | 6.000 | 1.190 | 1.030 | ITSN-535 | CLP-410 | N/A |

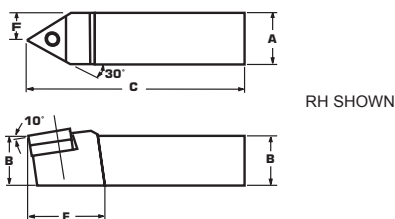


TURNING

TE

30° Holder for 60° Triangle

Most holders available with coolant port
(ie: Add CP to end of description)



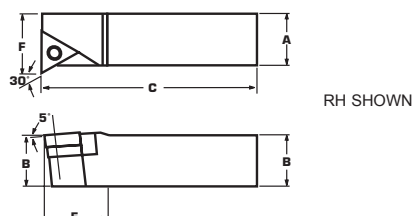
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | |
|-------------|-----------|--------|-------|-------|-------|-------|-------|----------|----------|------------|
| | | | | | | | | Seat | Pin | Seat Screw |
| TE-103 | 9T8621048 | TN_-32 | 0.625 | 0.625 | 4.500 | 0.730 | 0.375 | ITSN-324 | CLP-25 | N/A |
| TE-124 | 9T8621248 | TN_-43 | 0.750 | 0.750 | 4.500 | 1.020 | 0.375 | ITSN-434 | CLP-36 | N/A |
| TE-164 | 9T8621656 | TN_-43 | 1.000 | 1.000 | 6.000 | 1.020 | 0.500 | ITSN-434 | CLP-38 | N/A |
| TE-205 | 9T8622064 | TN_-54 | 1.250 | 1.250 | 7.000 | 1.150 | 0.625 | ITSN-534 | CLP-410 | N/A |
| TE-246 | 9T8622476 | TN_-66 | 1.500 | 1.500 | 8.000 | 1.340 | 0.750 | ITSN-637 | CLP-512T | N/A |

TFL/R

30° Holder for 60° Triangle

Most holders available with coolant port
(ie: Add CP to end of description)



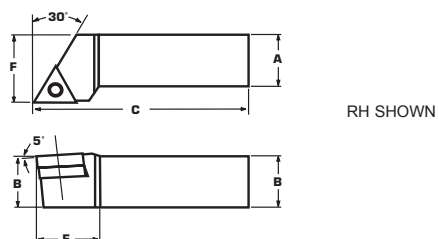
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | |
|-------------|-----------|--------|-------|-------|-------|-------|-------|----------|----------|------------|
| | | | | | | | | Seat | Pin | Seat Screw |
| TFR-164 | 9T8681656 | TN_-43 | 1.000 | 1.000 | 6.000 | 1.000 | 1.240 | ITSN-434 | CLP-38 | N/A |
| TFL-164 | 9T8661656 | TN_-43 | 1.000 | 1.000 | 6.000 | 1.000 | 1.240 | ITSN-434 | CLP-38 | N/A |
| TFR-205 | 9T8682064 | TN_-54 | 1.250 | 1.250 | 7.000 | 1.190 | 1.470 | ITSN-534 | CLP-410 | N/A |
| TFL-205 | 9T8662064 | TN_-54 | 1.250 | 1.250 | 7.000 | 1.190 | 1.470 | ITSN-534 | CLP-410 | N/A |
| TFR-245 | 9T8682464 | TN_-54 | 1.500 | 1.500 | 7.000 | 1.190 | 1.720 | ITSN-537 | CLP-412T | N/A |
| TFL-245 | 9T8662464 | TN_-54 | 1.500 | 1.500 | 7.000 | 1.190 | 1.720 | ITSN-537 | CLP-412T | N/A |
| TFR-246 | 9T8682476 | TN_-66 | 1.500 | 1.500 | 7.000 | N/A | 1.730 | ITSN-637 | CLP-512T | N/A |
| TFL-246 | 9T8662476 | TN_-66 | 1.500 | 1.500 | 7.000 | N/A | 1.730 | ITSN-637 | CLP-512T | N/A |

TGL/R

30° Holder for 60° Triangle

Most holders available with coolant port
(ie: Add CP to end of description)



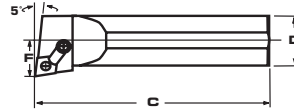
PARTS

| Description | EDP Code | Insert | A | B | C | E | F | Lock | | |
|-------------|-----------|--------|-------|-------|-------|-------|-------|----------|----------|------------|
| | | | | | | | | Seat | Pin | Seat Screw |
| TGR-123 | 9T8741248 | TN_-32 | 0.750 | 0.750 | 4.500 | 0.900 | 1.020 | ITSN-324 | CLP-25 | N/A |
| TGL-123 | 9T8721248 | TN_-32 | 0.750 | 0.750 | 4.500 | 0.900 | 1.020 | ITSN-324 | CLP-25 | N/A |
| TGR-164 | 9T8741656 | TN_-43 | 1.000 | 1.000 | 6.000 | 1.140 | 1.280 | ITSN-435 | CLP-38 | N/A |
| TGL-164 | 9T8721656 | TN_-43 | 1.000 | 1.000 | 6.000 | 1.140 | 1.280 | ITSN-435 | CLP-38 | N/A |
| TGR-854 | 9T8744456 | TN_-43 | 1.000 | 1.250 | 6.000 | 1.140 | 1.280 | ITSN-435 | CLP-310 | N/A |
| TGL-854 | 9T8724456 | TN_-43 | 1.000 | 1.250 | 6.000 | 1.140 | 1.280 | ITSN-435 | CLP-310 | N/A |
| TGR-165 | 9T8741664 | TN_-54 | 1.000 | 1.000 | 6.000 | 1.310 | 1.280 | ITSN-535 | CLP-48 | N/A |
| TGL-165 | 9T8721664 | TN_-54 | 1.000 | 1.000 | 6.000 | 1.310 | 1.280 | ITSN-535 | CLP-48 | N/A |
| TGR-205 | 9T8742064 | TN_-54 | 1.250 | 1.250 | 7.000 | 1.310 | 1.530 | ITSN-535 | CLP-410 | N/A |
| TGL-205 | 9T8722064 | TN_-54 | 1.250 | 1.250 | 7.000 | 1.310 | 1.530 | ITSN-535 | CLP-410 | N/A |
| TGR-245 | 9T8742464 | TN_-54 | 1.500 | 1.500 | 7.000 | 1.310 | 1.780 | ITSN-535 | CLP-412 | N/A |
| TGL-245 | 9T8722464 | TN_-54 | 1.500 | 1.500 | 7.000 | 1.310 | 1.780 | ITSN-535 | CLP-412 | N/A |
| TGR-246 | 9T8742476 | TN_-66 | 1.500 | 1.500 | 7.000 | 1.480 | 1.790 | ITSN-637 | CLP-512T | N/A |
| TGL-246 | 9T8722476 | TN_-66 | 1.500 | 1.500 | 7.000 | 1.480 | 1.790 | ITSN-637 | CLP-512T | N/A |



SI-MCLNL/R

5° Bar for 80° Diamond



RH SHOWN

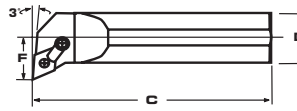
Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

| Description | EDP Code | Insert | A | C | D | F | R | Lock | | | | |
|--------------|-----------|--------|-------|--------|-------|-------|-----|----------|-------|-------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| SI-MCLNR-164 | 9T6761656 | CN_-43 | 1.280 | 12.000 | 1.000 | 0.640 | 14° | N/A | NL-44 | CL-20 | XNS-47 | N/A |
| SI-MCLNL-164 | 9T6741656 | CN_-43 | 1.280 | 12.000 | 1.000 | 0.640 | 14° | N/A | NL-44 | CL-20 | XNS-47 | N/A |
| SI-MCLNR-204 | 9T6762056 | CN_-43 | 1.530 | 14.000 | 1.250 | 0.765 | 14° | N/A | NL-44 | CL-20 | XNS-47 | N/A |
| SI-MCLNL-204 | 9T6742056 | CN_-43 | 1.530 | 14.000 | 1.250 | 0.765 | 14° | N/A | NL-44 | CL-20 | XNS-47 | N/A |
| SI-MCLNR-244 | 9T6762456 | CN_-43 | 1.780 | 14.000 | 1.500 | 0.890 | 14° | ICSN-432 | NL-46 | CL-20 | XNS-47 | S-46 |
| SI-MCLNL-244 | 9T6742456 | CN_-43 | 1.780 | 14.000 | 1.500 | 0.890 | 14° | ICSN-432 | NL-46 | CL-20 | XNS-47 | S-46 |
| SI-MCLNR-284 | 9T6762856 | CN_-43 | 2.030 | 14.000 | 1.750 | 1.015 | 12° | ICSN-432 | NL-46 | CL-20 | XNS-47 | S-46 |
| SI-MCLNL-284 | 9T6742856 | CN_-43 | 2.030 | 14.000 | 1.750 | 1.015 | 12° | ICSN-432 | NL-46 | CL-20 | XNS-47 | S-46 |
| SI-MCLNR-325 | 9T6763264 | CN_-54 | 2.562 | 16.000 | 2.000 | 1.281 | 12° | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| SI-MCLNL-325 | 9T6743264 | CN_-54 | 2.562 | 16.000 | 2.000 | 1.281 | 12° | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| SI-MCLNR-326 | 9T6763272 | CN_-64 | 2.562 | 16.000 | 2.000 | 1.281 | 12° | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| SI-MCLNL-326 | 9T6743272 | CN_-64 | 2.562 | 16.000 | 2.000 | 1.281 | 12° | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| SI-MCLNR-406 | 9T6764072 | CN_-64 | 3.062 | 16.000 | 2.500 | 1.531 | 10° | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| SI-MCLNL-406 | 9T6744072 | CN_-64 | 3.062 | 16.000 | 2.500 | 1.531 | 10° | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |

SI-MDJNL/R

3° Bar for 55° Diamond



RH SHOWN

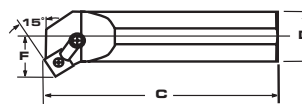
Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

| Description | EDP Code | Insert | A | C | D | F | R | Lock | | | | |
|--------------|-----------|--------|-------|--------|-------|-------|-----|----------|-------|-------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| SI-MDJNR-204 | 9T6822056 | DN_-43 | 2.000 | 14.000 | 1.250 | 1.000 | 10° | IDSN-433 | NL-46 | CL-20 | XNS-59 | S-46 |
| SI-MDJNL-204 | 9T6802056 | DN_-43 | 2.000 | 14.000 | 1.250 | 1.000 | 10° | IDSN-433 | NL-46 | CL-20 | XNS-59 | S-46 |
| SI-MDJNR-244 | 9T6822456 | DN_-43 | 2.250 | 14.000 | 1.500 | 1.125 | 10° | IDSN-433 | NL-46 | CL-12 | XNS-59 | S-46 |
| SI-MDJNL-244 | 9T6802456 | DN_-43 | 2.250 | 14.000 | 1.500 | 1.125 | 10° | IDSN-433 | NL-46 | CL-12 | XNS-59 | S-46 |
| SI-MDJNR-324 | 9T6823256 | DN_-43 | 3.000 | 16.000 | 2.000 | 1.500 | 10° | IDSN-433 | NL-46 | CL-12 | XNS-59 | S-46 |
| SI-MDJNL-324 | 9T6803256 | DN_-43 | 3.000 | 16.000 | 2.000 | 1.500 | 10° | IDSN-433 | NL-46 | CL-12 | XNS-59 | S-46 |
| SI-MDJNR-325 | 9T6823264 | DN_-54 | 3.000 | 16.000 | 2.000 | 1.500 | 10° | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| SI-MDJNL-325 | 9T6803264 | DN_-54 | 3.000 | 16.000 | 2.000 | 1.500 | 10° | IDSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |

SI-MSKNL/R

15° Bar for 90° Square



RH SHOWN

Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

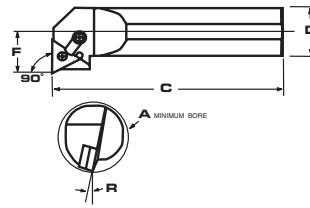
| Description | EDP Code | Insert | A | C | D | F | R | Lock | | | | |
|--------------|-----------|--------|-------|--------|-------|-------|-----|----------|-------|-------|---------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| SI-MSKNR-204 | 9T7002056 | SN_-43 | 1.530 | 14.000 | 1.250 | 0.765 | 12° | N/A | NL-44 | CL-9 | XNS-59 | N/A |
| SI-MSKNL-204 | 9T6982056 | SN_-43 | 1.530 | 14.000 | 1.250 | 0.765 | 12° | N/A | NL-44 | CL-9 | XNS-59 | N/A |
| SI-MSKNR-244 | 9T7002456 | SN_-43 | 1.780 | 14.000 | 1.500 | 0.890 | 12° | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MSKNL-244 | 9T6982456 | SN_-43 | 1.780 | 14.000 | 1.500 | 0.890 | 12° | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MSKNR-284 | 9T7002856 | SN_-43 | 2.030 | 14.000 | 1.750 | 1.015 | 12° | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MSKNL-284 | 9T6982856 | SN_-43 | 2.030 | 14.000 | 1.750 | 1.015 | 12° | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MSKNR-325 | 9T7003264 | SN_-54 | 2.562 | 16.000 | 2.000 | 1.281 | 12° | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| SI-MSKNL-325 | 9T6983264 | SN_-54 | 2.562 | 16.000 | 2.000 | 1.281 | 12° | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| SI-MSKNR-405 | 9T7004064 | SN_-54 | 3.062 | 16.000 | 2.500 | 1.531 | 10° | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| SI-MSKNL-405 | 9T6984064 | SN_-54 | 3.062 | 16.000 | 2.500 | 1.531 | 10° | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| SI-MSKNR-485 | 9T7004864 | SN_-54 | 3.562 | 22.000 | 3.000 | 1.781 | 10° | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| SI-MSKNL-485 | 9T6984864 | SN_-54 | 3.562 | 22.000 | 3.000 | 1.781 | 10° | ISSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |



TURNING

SI-MTFNL/R

90° Bar for 60° Triangle



RH SHOWN

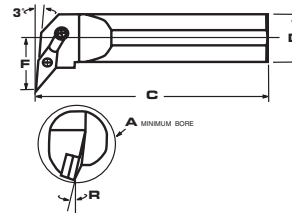
Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

| Description | EDP Code | Insert | A | C | D | F | R | Lock | | Clamp | | Seat |
|--------------|-----------|--------|-------|--------|-------|-------|-----|----------|--------|-------|--------|-------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| SI-MTFNR-163 | 9T7061649 | TN_-33 | 1.280 | 12.000 | 1.000 | 0.640 | 12° | N/A | NL-33L | CL-9 | XNS-59 | N/A |
| SI-MTFNL-163 | 9T7041649 | TN_-33 | 1.280 | 12.000 | 1.000 | 0.640 | 12° | N/A | NL-33L | CL-9 | XNS-59 | N/A |
| SI-MTFNR-203 | 9T7062049 | TN_-33 | 1.530 | 14.000 | 1.250 | 0.765 | 12° | N/A | NL-33L | CL-9 | XNS-59 | N/A |
| SI-MTFNL-203 | 9T7042049 | TN_-33 | 1.530 | 14.000 | 1.250 | 0.765 | 12° | N/A | NL-33L | CL-9 | XNS-59 | N/A |
| SI-MTFNR-244 | 9T7062456 | TN_-43 | 2.062 | 14.000 | 1.500 | 1.031 | 10° | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MTFNL-244 | 9T7042456 | TN_-43 | 2.062 | 14.000 | 1.500 | 1.031 | 10° | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MTFNR-284 | 9T7062856 | TN_-43 | 2.312 | 14.000 | 1.750 | 1.156 | 10° | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MTFNL-284 | 9T7042856 | TN_-43 | 2.312 | 14.000 | 1.750 | 1.156 | 10° | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MTFNR-324 | 9T7063256 | TN_-43 | 2.562 | 16.000 | 2.000 | 1.281 | 8° | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MTFNL-324 | 9T7043256 | TN_-43 | 2.562 | 16.000 | 2.000 | 1.281 | 8° | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MTFNR-404 | 9T7064056 | TN_-43 | 3.062 | 16.000 | 2.500 | 1.531 | 8° | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| SI-MTFNL-404 | 9T7044056 | TN_-43 | 3.062 | 16.000 | 2.500 | 1.531 | 8° | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |

SI-MVJNL/R

3° Bar for 35° Diamond



RH SHOWN

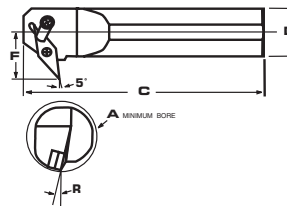
Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

| Description | EDP Code | Insert | A | C | D | F | R | Lock | | Clamp | | Seat |
|--------------|-----------|--------|-------|--------|-------|-------|-----|----------|--------|-------|---------|-------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| SI-MVJNR-203 | 9T7122049 | VN_-33 | 2.250 | 14.000 | 1.250 | 1.125 | 12° | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| SI-MVJNL-203 | 9T7102049 | VN_-33 | 2.250 | 14.000 | 1.250 | 1.125 | 12° | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| SI-MVJNR-243 | 9T7122449 | VN_-33 | 2.500 | 14.000 | 1.500 | 1.250 | 12° | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| SI-MVJNL-243 | 9T7102449 | VN_-33 | 2.500 | 14.000 | 1.500 | 1.250 | 12° | IVSN-324 | NL-34L | CL-30 | XNS-510 | S-34 |
| SI-MVJNR-284 | 9T7122856 | VN_-43 | 3.000 | 14.000 | 1.750 | 1.500 | 12° | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| SI-MVJNL-284 | 9T7102856 | VN_-43 | 3.000 | 14.000 | 1.750 | 1.500 | 12° | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| SI-MVJNR-324 | 9T7123256 | VN_-43 | 3.250 | 16.000 | 2.000 | 1.625 | 12° | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| SI-MVJNL-324 | 9T7103256 | VN_-43 | 3.250 | 16.000 | 2.000 | 1.625 | 12° | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| SI-MVJNR-404 | 9T7124056 | VN_-43 | 3.750 | 16.000 | 2.500 | 1.875 | 12° | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| SI-MVJNL-404 | 9T7104056 | VN_-43 | 3.750 | 16.000 | 2.500 | 1.875 | 12° | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |

SI-MVLNL/R

5° Bar for 35° Diamond



RH SHOWN

Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

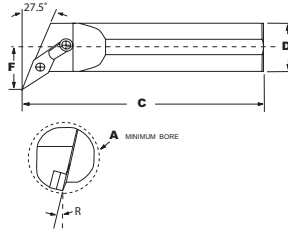
| Description | EDP Code | Insert | A | C | D | F | R | Lock | | Clamp | | Seat |
|--------------|-----------|--------|-------|--------|-------|-------|-----|----------|--------|-------|---------|-------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| SI-MVLNR-243 | 9T7162449 | VN_-33 | 2.250 | 14.000 | 1.500 | 1.125 | 12° | IVSN-324 | NL-34L | CL-20 | XNS-47 | S-34 |
| SI-MVLNL-243 | 9T7142449 | VN_-33 | 2.250 | 14.000 | 1.500 | 1.125 | 12° | IVSN-324 | NL-34L | CL-20 | XNS-47 | S-34 |
| SI-MVLNR-283 | 9T7162849 | VN_-33 | 2.500 | 14.000 | 1.750 | 1.375 | 12° | IVSN-324 | NL-34L | CL-12 | XNS-47 | S-34 |
| SI-MVLNL-283 | 9T7142849 | VN_-33 | 2.500 | 14.000 | 1.750 | 1.250 | 12° | IVSN-324 | NL-34L | CL-12 | XNS-47 | S-34 |
| SI-MVLNR-324 | 9T7163256 | VN_-43 | 3.000 | 16.000 | 2.000 | 1.375 | 12° | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| SI-MVLNL-324 | 9T7143256 | VN_-43 | 3.000 | 16.000 | 2.000 | 1.500 | 12° | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| SI-MVLNR-364 | 9T7163656 | VN_-43 | 3.250 | 16.000 | 2.250 | 1.500 | 12° | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| SI-MVLNL-364 | 9T7143656 | VN_-43 | 3.250 | 16.000 | 2.250 | 1.500 | 12° | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |

TURNING



SI-MVPNL/R

27.5° Bar for 35° Diamond



RH SHOWN

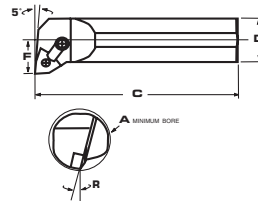
Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

| Description | EDP Code | Insert | A | C | D | F | R | Lock | | | Clamp | | Seat |
|--------------|-----------|---------|-------|--------|-------|-------|-----|----------|--------|-------|--------|-------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw | |
| SI-MVPNR-203 | 9T7222049 | VN__-33 | 1.750 | 14.000 | 1.250 | 0.875 | 12° | IVSN-324 | NL-34L | CL-30 | XNS-58 | S-34 | |
| SI-MVPNL-203 | 9T7202049 | VN__-33 | 1.750 | 14.000 | 1.250 | 0.875 | 12° | IVSN-324 | NL-34L | CL-30 | XNS-58 | S-34 | |
| SI-MVPNR-323 | 9T7223249 | VN__-33 | 2.500 | 16.000 | 2.000 | 1.250 | 12° | IVSN-324 | NL-34L | CL-30 | XNS-58 | S-34 | |
| SI-MVPNL-323 | 9T7203249 | VN__-33 | 2.500 | 16.000 | 2.000 | 1.250 | 12° | IVSN-324 | NL-34L | CL-30 | XNS-58 | S-34 | |

SI-MWLNL/R

5° Bar for 80° Trigon



RH SHOWN

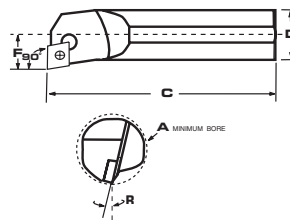
Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

| Description | EDP Code | Insert | A | C | D | F | R | Lock | | | Clamp | | Seat |
|-------------|-----------|---------|-------|--------|-------|-------|-----|----------|--------|-------|--------|-------|------|
| | | | | | | | | Seat | Pin | Clamp | Screw | Screw | |
| SI-MWLN-123 | 9T7301249 | WN__-33 | 0.930 | 10.000 | 0.750 | 0.500 | 14° | N/A | NL-33L | CL-6 | XNS-36 | N/A | |
| SI-MWLN-123 | 9T7281249 | WN__-33 | 0.930 | 10.000 | 0.750 | 0.500 | 14° | N/A | NL-33L | CL-6 | XNS-36 | N/A | |
| SI-MWLN-163 | 9T7301649 | WN__-33 | 1.200 | 12.000 | 1.000 | 0.640 | 14° | N/A | NL-33L | CL-6 | XNS-36 | N/A | |
| SI-MWLN-163 | 9T7281649 | WN__-33 | 1.200 | 12.000 | 1.000 | 0.640 | 14° | N/A | NL-33L | CL-6 | XNS-36 | N/A | |
| SI-MWLN-203 | 9T7302049 | WN__-33 | 1.470 | 14.000 | 1.250 | 0.765 | 14° | IWSN-323 | NL-34L | CL-6 | XNS-36 | N/A | |
| SI-MWLN-203 | 9T7282049 | WN__-33 | 1.470 | 14.000 | 1.250 | 0.765 | 14° | IWSN-323 | NL-34L | CL-6 | XNS-36 | N/A | |
| SI-MWLN-164 | 9T7301656 | WN__-43 | 1.280 | 12.000 | 1.000 | 0.640 | 14° | N/A | NL-44 | CL-20 | XNS-47 | N/A | |
| SI-MWLN-164 | 9T7281656 | WN__-43 | 1.280 | 12.000 | 1.000 | 0.640 | 14° | N/A | NL-44 | CL-20 | XNS-47 | N/A | |
| SI-MWLN-204 | 9T7302056 | WN__-43 | 1.530 | 14.000 | 1.250 | 0.765 | 14° | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A | |
| SI-MWLN-204 | 9T7282056 | WN__-43 | 1.530 | 14.000 | 1.250 | 0.765 | 14° | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A | |

S-SCFCL/R

90° Bar for 80° Diamond



RH SHOWN

Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

| Description | EDP Code | Insert | A | C | D | F | R | Insert Screw |
|-------------|-----------|-----------|-------|-------|-------|-------|-----|--------------|
| | | | | | | | | |
| S06-SCFCR-2 | 9T5220640 | CC__-21.5 | 0.510 | 6.000 | 0.375 | 0.250 | 11° | C02506 |
| S06-SCFCL-2 | 9T5230640 | CC__-21.5 | 0.510 | 6.000 | 0.375 | 0.250 | 11° | C02506 |
| S08-SCFCR-3 | 9T5220848 | CC__-32.5 | 0.625 | 8.000 | 0.500 | 0.313 | 9° | C04008 |
| S08-SCFCL-3 | 9T5230848 | CC__-32.5 | 0.625 | 8.000 | 0.500 | 0.313 | 9° | C04008 |

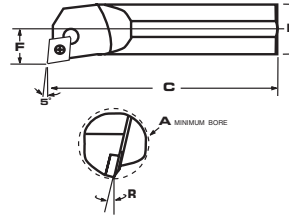
TURNING



TURNING

S_-SCLCL/R

5° Bar for 80° Diamond



RH SHOWN

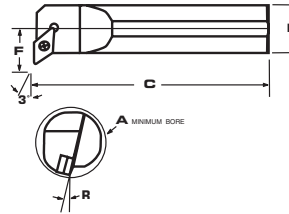
Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

| Description | EDP Code | Insert | A | C | D | F | R | Insert Screw |
|-------------|-----------|----------|-------|--------|-------|-------|-----|--------------|
| S06-SCLCR-2 | 9T5320640 | CC_-21.5 | 0.500 | 6.000 | 0.375 | 0.250 | 11° | C02506 |
| S06-SCLCL-2 | 9T5300640 | CC_-21.5 | 0.500 | 6.000 | 0.375 | 0.250 | 11° | C02506 |
| S08-SCLCR-2 | 9T5320840 | CC_-21.5 | 0.625 | 8.000 | 0.500 | 0.313 | 9° | C02506 |
| S08-SCLCL-2 | 9T5300840 | CC_-21.5 | 0.625 | 8.000 | 0.500 | 0.313 | 9° | C02506 |
| S10-SCLCR-2 | 9T5321040 | CC_-21.5 | 0.812 | 10.000 | 0.625 | 0.406 | 7° | C02506 |
| S10-SCLCL-2 | 9T5301040 | CC_-21.5 | 0.812 | 10.000 | 0.625 | 0.406 | 7° | C02506 |
| S08-SCLCR-3 | 9T5320848 | CC_-32.5 | 0.625 | 8.000 | 0.500 | 0.313 | 9° | C04008 |
| S08-SCLCL-3 | 9T5300848 | CC_-32.5 | 0.625 | 8.000 | 0.500 | 0.313 | 9° | C04008 |
| S10-SCLCR-3 | 9T5321048 | CC_-32.5 | 0.812 | 10.000 | 0.625 | 0.406 | 7° | C04008 |
| S10-SCLCL-3 | 9T5301048 | CC_-32.5 | 0.812 | 10.000 | 0.625 | 0.406 | 7° | C04008 |
| S12-SCLCR-3 | 9T5321248 | CC_-32.5 | 1.000 | 10.000 | 0.750 | 0.500 | 10° | C04008 |
| S12-SCLCL-3 | 9T5301248 | CC_-32.5 | 1.000 | 10.000 | 0.750 | 0.500 | 10° | C04008 |
| S16-SCLCR-3 | 9T5321648 | CC_-32.5 | 1.250 | 12.000 | 1.000 | 0.625 | 5° | C04008 |
| S16-SCLCL-3 | 9T5301648 | CC_-32.5 | 1.250 | 12.000 | 1.000 | 0.625 | 5° | C04008 |

S_-SDUCL/R

3° Bar for 55° Diamond



RH SHOWN

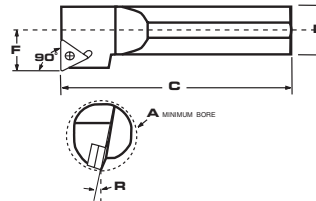
Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

| Description | EDP Code | Insert | A | C | D | F | R | Insert Screw |
|-------------|-----------|----------|-------|--------|-------|-------|-----|--------------|
| S08-SDUCR-2 | 9T5350840 | DC_-21.5 | 0.780 | 8.000 | 0.500 | 0.437 | 11° | C02506 |
| S08-SDUCL-2 | 9T5340840 | DC_-21.5 | 0.780 | 8.000 | 0.500 | 0.437 | 11° | C02506 |
| S10-SDUCR-2 | 9T5351040 | DC_-21.5 | 0.840 | 10.000 | 0.625 | 0.500 | 5° | C02506 |
| S10-SDUCL-2 | 9T5341040 | DC_-21.5 | 0.840 | 10.000 | 0.625 | 0.500 | 5° | C02506 |
| S12-SDUCR-3 | 9T5351248 | DC_-32.5 | 1.125 | 10.000 | 0.750 | 0.562 | 6° | C04008 |
| S12-SDUCL-3 | 9T5341248 | DC_-32.5 | 1.125 | 10.000 | 0.750 | 0.562 | 6° | C04008 |
| S16-SDUCR-3 | 9T5351648 | DC_-32.5 | 1.500 | 12.000 | 1.000 | 0.750 | 4° | C04008 |
| S16-SDUCL-3 | 9T5341648 | DC_-32.5 | 1.500 | 12.000 | 1.000 | 0.750 | 4° | C04008 |

S_-STFCL/R

90° Bar for 60° Triangle



RH SHOWN

Most bars available with coolant port
(ie: Add CP to end of description)

PARTS

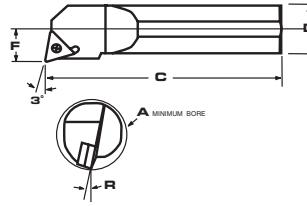
| Description | EDP Code | Insert | A | C | D | F | R | Insert Screw |
|-------------|-----------|----------|-------|--------|-------|-------|-----|--------------|
| S06-STFCR-2 | 9T5400640 | TC_-21.5 | 0.500 | 6.000 | 0.375 | 0.250 | 11° | C02506 |
| S06-STFCL-2 | 9T5390640 | TC_-21.5 | 0.500 | 6.000 | 0.375 | 0.250 | 11° | C02506 |
| S08-STFCR-2 | 9T5400840 | TC_-21.5 | 0.625 | 8.000 | 0.500 | 0.313 | 9° | C02506 |
| S08-STFCL-2 | 9T5390840 | TC_-21.5 | 0.625 | 8.000 | 0.500 | 0.313 | 9° | C02506 |
| S10-STFCR-2 | 9T5401040 | TC_-21.5 | 0.812 | 10.000 | 0.625 | 0.406 | 7° | C02506 |
| S10-STFCL-2 | 9T5391040 | TC_-21.5 | 0.812 | 10.000 | 0.625 | 0.406 | 7° | C02506 |
| S12-STFCR-2 | 9T5401240 | TC_-21.5 | 1.000 | 10.000 | 0.750 | 0.500 | 6° | C02506 |
| S12-STFCL-2 | 9T5391240 | TC_-21.5 | 1.000 | 10.000 | 0.750 | 0.500 | 6° | C02506 |



S-STUCL/R

3° Bar for 60° Triangle

Most bars available with coolant port
(ie: Add CP to end of description)



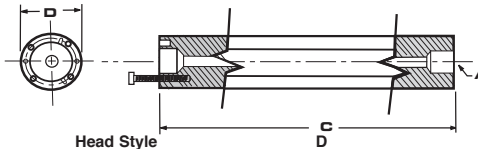
RH SHOWN

PARTS

| Description | EDP Code | Insert | A | C | D | F | R | Insert Screw |
|-------------|-----------|----------|-------|--------|-------|-------|-----|--------------|
| S06-STUCR-2 | 9T5430640 | TC_-21.5 | 0.500 | 6.000 | 0.375 | 0.250 | 11° | C02506 |
| S06-STUCL-2 | 9T5420640 | TC_-21.5 | 0.500 | 6.000 | 0.375 | 0.250 | 11° | C02506 |
| S08-STUCR-2 | 9T5430840 | TC_-21.5 | 0.625 | 8.000 | 0.500 | 0.313 | 9° | C02506 |
| S08-STUCL-2 | 9T5420840 | TC_-21.5 | 0.625 | 8.000 | 0.500 | 0.313 | 9° | C02506 |
| S10-STUCR-2 | 9T5431040 | TC_-21.5 | 0.812 | 10.000 | 0.625 | 0.406 | 7° | C02506 |
| S10-STUCL-2 | 9T5421040 | TC_-21.5 | 0.812 | 10.000 | 0.625 | 0.406 | 7° | C02506 |
| S12-STUCR-3 | 9T5431248 | TC_-32.5 | 1.000 | 10.000 | 0.750 | 0.500 | 6° | C04008 |
| S12-STUCL-3 | 9T5421248 | TC_-32.5 | 1.000 | 10.000 | 0.750 | 0.500 | 6° | C04008 |
| S16-STUCR-3 | 9T5431648 | TC_-32.5 | 1.280 | 12.000 | 1.000 | 0.640 | 4° | C04008 |
| S16-STUCL-3 | 9T5421648 | TC_-32.5 | 1.280 | 12.000 | 1.000 | 0.640 | 4° | C04008 |

S-4400W

Steel Shank with Through Coolant

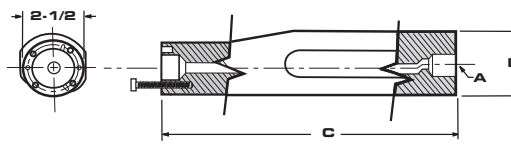


PARTS

| Description | EDP Code | Head Style | D | C | A | Screw (4 req'd) |
|-------------|-----------|------------|-------|--------|-------------|-----------------|
| S-4416W | 9IBS4416W | H16- | 1.000 | 9.000 | 1/4 - 18NPT | SS61 |
| S-4420W | 9IBS4420W | H20- | 1.250 | 9.000 | 3/8 - 18NPT | SS81 |
| S-4424W | 9IBS4424W | H24- | 1.500 | 10.000 | 3/8 - 18NPT | SS85 |
| S-4428W | 9IBS4428W | H28- | 1.750 | 12.000 | 3/8 - 18NPT | SS100 |
| S-4432W | 9IBS4432W | H32- | 2.000 | 13.000 | 3/8 - 18NPT | SS100 |
| S-4436W | 9IBS4436W | H36- | 2.250 | 15.000 | 3/8 - 18NPT | SS100 |
| S-4440W | 9IBS4440W | H40- | 2.500 | 17.000 | 3/8 - 18NPT | SS83 |

S-4400W48

Steel Shank with Through Coolant

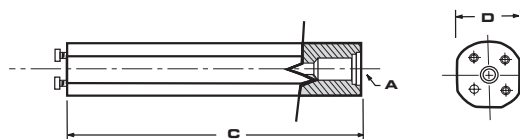


PARTS

| Description | EDP Code | Head Style | D | C | A | Screw (4 req'd) |
|-------------|-------------|------------|-------|--------|-------------|-----------------|
| S-4440W48 | 9IBS4440W48 | H40- | 3.000 | 18.000 | 3/8 - 18NPT | SS89 |

S-570

Steel Shank with Through Coolant



PARTS

| Description | EDP Code | Head Style | D | C | A | Screw (4 req'd) |
|-------------|-------------|------------|-------|--------|-------------|-----------------|
| S-570-10-16 | 9IBS5701016 | HS16- | 0.625 | 4.210 | 1/8 - 27NPT | SS62 |
| S-570-12-20 | 9IBS5701220 | HS20- | 0.750 | 5.200 | 1/4 - 18NPT | SS63 |
| S-570-16-25 | 9IBS5701625 | HS25- | 1.000 | 7.200 | 1/4 - 18NPT | SS64 |
| S-570-20-32 | 9IBS5702032 | HS32- | 1.250 | 8.740 | 3/8 - 18NPT | SS81 |
| S-570-24-40 | 9IBS5702440 | HS40- | 1.500 | 10.750 | 1/2 - 14NPT | SS100 |
| S-570-32-50 | 9IBS5703250 | HS50- | 2.000 | 14.410 | 1/2 - 14NPT | SS94 |
| S-570-40-60 | 9IBS5704060 | HS60- | 2.500 | 18.430 | 1/2 - 14NPT | SS95 |

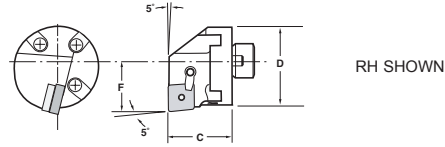


TURNING

H-MCLNL/R*

5° Head for 80° Diamond

Most heads available with coolant port
(ie: Add CP to end of description)



PARTS

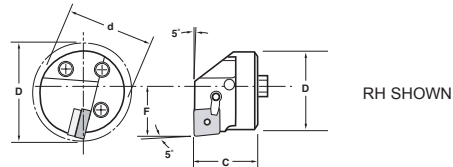
| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | Clamp | | Seat |
|-------------|-------------|--------|-------|-------|-------|-----------|----------|-------|-------|---------|-------|
| | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| H16-MCLNR-4 | 9IHT2801656 | CN_-43 | 1.000 | 1.625 | 0.640 | 1.200 | N/A | NL-44 | CL-20 | XNS-47 | N/A |
| H20-MCLNR-4 | 9IHT2802056 | CN_-43 | 1.250 | 1.625 | 0.765 | 1.470 | ICSN-433 | NL-46 | CL-20 | XNS-47 | S-46 |
| H24-MCLNR-4 | 9IHT2802456 | CN_-43 | 1.500 | 1.625 | 0.890 | 1.760 | ICSN-433 | NL-46 | CL-20 | XNS-47 | S-46 |
| H28-MCLNR-4 | 9IHT2802856 | CN_-43 | 1.750 | 1.625 | 1.015 | 2.010 | ICSN-433 | NL-46 | CL-20 | XNS-47 | S-46 |
| H32-MCLNR-5 | 9IHT2803264 | CN_-54 | 2.000 | 1.625 | 1.281 | 2.400 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| H32-MCLNR-6 | 9IHT2803272 | CN_-64 | 2.000 | 1.625 | 1.281 | 2.400 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| H40-MCLNR-6 | 9IHT2804072 | CN_-64 | 2.500 | 1.625 | 1.531 | 3.030 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |

*Left hand quoted on request.

HS-MCLNL/R*

5° Head for 80° Diamond (570 Type)

Most heads available with coolant port
(ie: Add CP to end of description)



PARTS

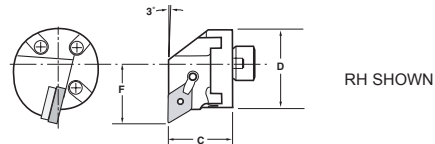
| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | Clamp | | Seat |
|--------------|---------------|--------|-------|-------|-------|-----------|----------|-------|-------|---------|-------|
| | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| HS32-MCLNR-4 | 9IHST28032M56 | CN_-43 | 1.260 | 1.260 | 0.866 | 1.570 | ICSN-433 | NL-46 | CL-20 | XNS-47 | S-46 |
| HS40-MCLNR-4 | 9IHST28040M56 | CN_-43 | 1.575 | 1.260 | 1.063 | 1.970 | ICSN-433 | NL-46 | CL-20 | XNS-47 | S-46 |
| HS50-MCLNR-5 | 9IHST28050M64 | CN_-54 | 1.969 | 1.570 | 1.378 | 2.480 | ICSN-533 | NL-58 | CL-12 | XNS-510 | S-58 |
| HS50-MCLNR-6 | 9IHST28050M72 | CN_-64 | 1.969 | 1.570 | 1.378 | 2.480 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |
| HS60-MCLNR-6 | 9IHST28060M72 | CN_-64 | 2.362 | 1.570 | 1.693 | 3.150 | ICSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |

*Left hand quoted on request.

H-MDUNL/R*

3° Head for 55° Diamond

Most heads available with coolant port
(ie: Add CP to end of description)



PARTS

| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | Clamp | | Seat |
|-------------|-------------|--------|-------|-------|-------|-----------|----------|--------|-------|--------|-------|
| | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| H16-MDUNR-3 | 9IHT6821648 | DN_-33 | 1.000 | 1.625 | 0.750 | 1.300 | N/A | NL-33L | CL-7 | XNS-47 | N/A |
| H24-MDUNR-3 | 9IHT6822448 | DN_-33 | 1.500 | 1.625 | 1.125 | 2.000 | IDSN-322 | NL-34L | CL-7 | XNS-47 | S-34 |
| H32-MDUNR-3 | 9IHT6823248 | DN_-33 | 2.000 | 1.625 | 1.320 | 2.500 | IDSN-322 | NL-34L | CL-7 | XNS-47 | S-34 |
| H40-MDUNR-3 | 9IHT6824048 | DN_-33 | 2.500 | 1.625 | 1.750 | 3.250 | IDSN-322 | NL-34L | CL-7 | XNS-47 | S-34 |
| H20-MDUNR-4 | 9IHT6822056 | DN_-43 | 1.250 | 1.625 | 1.000 | 1.705 | IDSN-443 | NL-46L | CL-20 | XNS-59 | S-46 |
| H24-MDUNR-4 | 9IHT6822456 | DN_-43 | 1.500 | 1.625 | 1.125 | 2.000 | IDSN-443 | NL-46L | CL-12 | XNS-59 | S-46 |
| H28-MDUNR-4 | 9IHT6822856 | DN_-43 | 1.750 | 1.625 | 1.250 | 2.250 | IDSN-443 | NL-46L | CL-12 | XNS-59 | S-46 |
| H32-MDUNR-4 | 9IHT6823256 | DN_-43 | 2.000 | 1.625 | 1.370 | 2.500 | IDSN-443 | NL-46L | CL-12 | XNS-59 | S-46 |
| H36-MDUNR-4 | 9IHT6823656 | DN_-43 | 2.250 | 1.625 | 1.495 | 2.870 | IDSN-443 | NL-46L | CL-12 | XNS-59 | S-46 |
| H40-MDUNR-4 | 9IHT6824056 | DN_-43 | 2.500 | 1.625 | 1.750 | 3.250 | IDSN-443 | NL-46L | CL-12 | XNS-59 | S-46 |

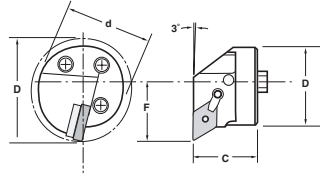
*Left hand quoted on request.



HS-MDUNL/R*

3° Head for 55° Diamond (570 Type)

Most heads available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

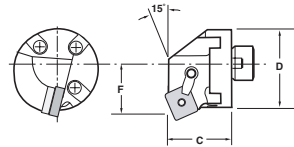
| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | Clamp | | Seat |
|--------------|---------------|--------|-------|-------|-------|-----------|----------|-------|-------|--------|-------|
| | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| HS40-MDUNR-4 | 9IHST68240M56 | DN_-43 | 1.575 | 1.260 | 1.063 | 1.970 | IDSN-433 | NL-46 | CL-12 | XNS-59 | S-46 |
| HS50-MDUNR-4 | 9IHST68240M56 | DN_-43 | 1.969 | 1.570 | 1.378 | 2.480 | IDSN-433 | NL-46 | CL-12 | XNS-59 | S-46 |
| HS60-MDUNR-4 | 9IHST68240M56 | DN_-43 | 2.362 | 1.570 | 1.683 | 2.480 | IDSN-433 | NL-46 | CL-12 | XNS-59 | S-46 |

*Left hand quoted on request.

H-MSKNL/R*

15° Head for 90° Square

Most heads available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

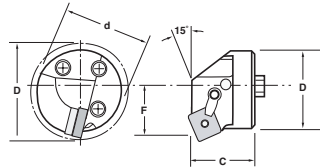
| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | Clamp | | Seat |
|-------------|-------------|--------|-------|-------|-------|-----------|----------|-------|-------|---------|-------|
| | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| H20-MSKNR-4 | 9IHT7002056 | SN_-43 | 1.250 | 1.625 | 0.765 | 1.470 | N/A | NL-44 | CL-9 | XNS-59 | N/A |
| H24-MSKNR-4 | 9IHT7002456 | SN_-43 | 1.500 | 1.625 | 0.890 | 1.760 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| H28-MSKNR-4 | 9IHT7002856 | SN_-43 | 1.750 | 1.625 | 1.015 | 2.010 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| H32-MSKNR-4 | 9IHT7003256 | SN_-43 | 2.000 | 1.625 | 1.281 | 2.400 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| H40-MSKNR-6 | 9IHT7004064 | SN_-64 | 2.500 | 1.625 | 1.625 | 3.030 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |

*Left hand quoted on request.

HS-MSKNL/R*

15° Head for 90° Square (570 Type)

Most heads available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

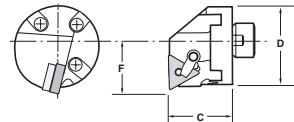
| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | Clamp | | Seat |
|--------------|---------------|--------|-------|-------|-------|-----------|----------|-------|-------|---------|-------|
| | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| HS32-MSKNR-4 | 9IHST70032M56 | SN_-43 | 1.260 | 1.260 | 0.669 | 1.470 | N/A | NL-44 | CL-9 | XNS-59 | N/A |
| HS40-MSKNR-4 | 9IHST70040M56 | SN_-43 | 1.575 | 1.260 | 0.866 | 1.760 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| HS50-MSKNR-4 | 9IHST70050M56 | SN_-43 | 1.969 | 1.570 | 1.063 | 2.400 | ISSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| HS60-MSKNR-6 | 9IHST70060M64 | SN_-64 | 2.362 | 1.570 | 1.378 | 3.030 | ISSN-633 | NL-68 | CL-12 | XNS-510 | S-68 |

*Left hand quoted on request.

H-MTFNL/R*

90° Head for 60° Triangle

Most heads available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | Clamp | | Seat |
|-------------|-------------|--------|-------|-------|-------|-----------|----------|--------|-------|--------|-------|
| | | | | | | | Seat | Pin | Clamp | Screw | Screw |
| H16-MTFNR-3 | 9IHT7062048 | TN_-33 | 1.000 | 1.625 | 0.640 | 1.220 | N/A | NL-33L | CL-7 | XNS-47 | N/A |
| H24-MTFNR-3 | 9IHT7062448 | TN_-33 | 1.500 | 1.625 | 0.890 | 1.760 | ITSN-323 | NL-34L | CL-7 | XNS-47 | S-34 |
| H28-MTFNR-3 | 9IHT7062848 | TN_-33 | 1.750 | 1.625 | 1.015 | 2.010 | ITSN-323 | NL-34L | CL-7 | XNS-47 | S-34 |
| H32-MTFNR-4 | 9IHT7063256 | TN_-43 | 2.000 | 1.625 | 1.281 | 2.400 | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| H40-MTFNR-4 | 9IHT7064056 | TN_-43 | 2.500 | 1.625 | 1.531 | 3.030 | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |

*Left hand quoted on request.

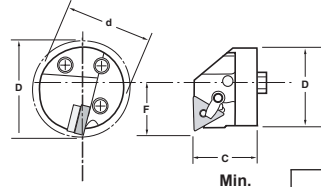


TURNING

HS-MTFNL/R*

90° Head for 60° Triangle (570 Type)

Most heads available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

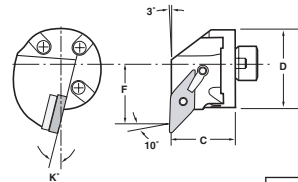
| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | | | |
|--------------|---------------|--------|-------|-------|-------|-----------|----------|--------|-------|--------|------|
| | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| HS25-MTFNR-3 | 9IHST70625M48 | TN_-33 | 0.984 | 1.260 | 0.866 | 1.570 | N/A | NL-33L | CL-7 | XNS-47 | N/A |
| HS40-MTFNR-3 | 9IHST70640M48 | TN_-33 | 1.575 | 1.260 | 1.062 | 1.970 | ITSN-323 | NL-34L | CL-7 | XNS-47 | S-34 |
| HS50-MTFNR-4 | 9IHST70650M56 | TN_-43 | 1.969 | 1.570 | 1.380 | 2.480 | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |
| HS60-MTFNR-4 | 9IHST70660M56 | TN_-43 | 2.362 | 1.570 | 1.693 | 3.150 | ITSN-433 | NL-46 | CL-9 | XNS-59 | S-46 |

*Left hand quoted on request.

H-MVUNL/R*

3° Head for 35° Diamond

Most heads available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

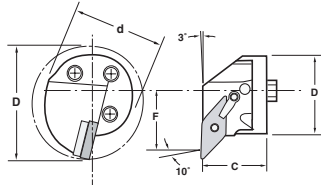
| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | | | |
|-------------|-------------|--------|-------|-------|-------|-----------|----------|--------|-------|---------|------|
| | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| H20-MVUNR-3 | 9IHT7122049 | VN_-33 | 1.000 | 1.625 | 1.000 | 1.705 | IVSN-322 | NL-34L | CL-30 | XNS-510 | S-34 |
| H24-MVUNR-3 | 9IHT7122449 | VN_-33 | 1.500 | 1.625 | 1.125 | 2.000 | IVSN-322 | NL-34L | CL-30 | XNS-510 | S-34 |
| H32-MVUNR-3 | 9IHT7123249 | VN_-33 | 2.000 | 1.625 | 1.325 | 2.500 | IVSN-322 | NL-34L | CL-30 | XNS-510 | S-34 |
| H40-MVUNR-3 | 9IHT7124049 | VN_-43 | 2.500 | 1.625 | 1.750 | 3.250 | IVSN-322 | NL-34L | CL-30 | XNS-510 | S-34 |
| H32-MVUNR-4 | 9IHT7123256 | VN_-43 | 2.000 | 1.625 | 1.375 | 2.500 | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| H40-MVUNR-4 | 9IHT7124056 | VN_-43 | 2.500 | 1.625 | 1.750 | 3.250 | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |

*Left hand quoted on request.

HS-MVUNL/R*

3° Head for 35° Diamond (570 Type)

Most heads available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

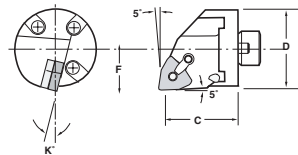
| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | | | |
|--------------|--------------|--------|-------|-------|-------|-----------|----------|--------|-------|---------|------|
| | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| HS32-MVUNR-3 | 9IHT71232M49 | VN_-33 | 1.259 | 1.260 | 1.000 | 1.705 | IVSN-322 | NL-34L | CL-30 | XNS-510 | S-34 |
| HS40-MVUNR-3 | 9IHT71240M49 | VN_-33 | 1.575 | 1.260 | 1.125 | 2.000 | IVSN-322 | NL-34L | CL-30 | XNS-510 | S-34 |
| HS50-MVUNR-3 | 9IHT71250M49 | VN_-33 | 1.969 | 1.570 | 1.750 | 3.250 | IVSN-322 | NL-34L | CL-30 | XNS-510 | S-34 |
| HS60-MVUNR-3 | 9IHT71260M49 | VN_-33 | 2.362 | 1.570 | 1.375 | 2.500 | IVSN-322 | NL-34L | CL-30 | XNS-510 | S-34 |
| HS50-MVUNR-4 | 9IHT71250M56 | VN_-43 | 1.969 | 1.570 | 1.750 | 3.250 | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |
| HS60-MVUNR-4 | 9IHT71260M56 | VN_-43 | 2.362 | 1.570 | 1.375 | 2.500 | IVSN-433 | NL-46 | CL-12 | XNS-510 | S-46 |

*Left hand quoted on request.

H-MWLNL/R*

5° Head for 80° Trigon

Most heads available with coolant port
(ie: Add CP to end of description)



RH SHOWN

PARTS

| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | | | |
|-------------|-------------|--------|-------|-------|-------|-----------|----------|--------|-------|--------|------|
| | | | | | | | Seat | Pin | Clamp | Screw | Seat |
| H16-MWLNR-3 | 9IHT7301649 | WN_-33 | 1.000 | 1.625 | 0.640 | 1.200 | IWSN-322 | NL-33L | CL-6 | XNS-36 | N/A |
| H20-MWLNR-3 | 9IHT7302049 | WN_-33 | 1.250 | 1.625 | 0.765 | 1.470 | IWSN-322 | NL-34L | CL-6 | XNS-36 | N/A |
| H24-MWLNR-3 | 9IHT7302449 | WN_-33 | 1.500 | 1.625 | 0.890 | 1.760 | IWSN-322 | NL-34L | CL-6 | XNS-36 | N/A |
| H32-MWLNR-3 | 9IHT7303249 | WN_-33 | 2.000 | 1.625 | 1.281 | 2.400 | IWSN-322 | NL-34L | CL-6 | XNS-36 | N/A |
| H20-MWLNR-4 | 9IHT7302056 | WN_-43 | 1.250 | 1.625 | 0.765 | 1.470 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A |
| H24-MWLNR-4 | 9IHT7302456 | WN_-43 | 1.500 | 1.625 | 0.890 | 1.760 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A |
| H28-MWLNR-4 | 9IHT7302856 | WN_-43 | 1.750 | 1.625 | 1.015 | 2.010 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A |
| H32-MWLNR-4 | 9IHT7303256 | WN_-43 | 2.000 | 1.625 | 1.281 | 2.400 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A |

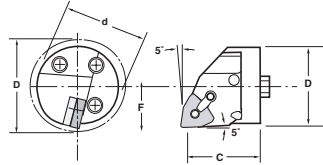
*Left hand quoted on request.

TURNING



HS-MWLNL/R*

5° Head for 80° Trigon (570 Type)



RH SHOWN

Most heads available with coolant port
(ie: Add CP to end of description)

PARTS

| Description | EDP Code | Insert | D | C | F | Min. Bore | Lock | | | Clamp | | Seat | |
|--------------|---------------|---------|-------|-------|-------|-----------|----------|--------|-------|--------|-------|------|-------|
| | | | | | | | Seat | Pin | Clamp | Screw | Screw | Seat | Screw |
| HS25-MWLNR-3 | 9IHST73025M49 | WN__-33 | .984 | 1.260 | 0.640 | 1.200 | IWSN-322 | NL-33L | CL-6 | XNS-36 | N/A | | |
| HS32-MWLNR-3 | 9IHST73032M49 | WN__-33 | 1.259 | 1.260 | 0.765 | 1.470 | IWSN-322 | NL-34L | CL-6 | XNS-36 | N/A | | |
| HS40-MWLNR-3 | 9IHST73040M49 | WN__-33 | 1.575 | 1.260 | 0.890 | 1.760 | IWSN-322 | NL-34L | CL-6 | XNS-36 | N/A | | |
| HS50-MWLNR-3 | 9IHST73050M49 | WN__-33 | 1.969 | 1.570 | 1.281 | 2.400 | IWSN-322 | NL-34L | CL-6 | XNS-36 | N/A | | |
| HS32-MWLNR-4 | 9IHST73032M56 | WN__-43 | 1.259 | 1.260 | 0.765 | 1.470 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A | | |
| HS40-MWLNR-4 | 9IHST73040M56 | WN__-43 | 1.575 | 1.260 | 0.890 | 1.760 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A | | |
| HS50-MWLNR-4 | 9IHST73050M56 | WN__-43 | 1.969 | 1.570 | 1.281 | 2.400 | IWSN-433 | NL-46 | CL-20 | XNS-47 | N/A | | |

*Left hand quoted on request.



TURNING

| Material | | | Chipbreaker | Depth of Cut | Feed Rate |
|---|-----------------|---------------------------------|-------------|--------------|-------------|
| Low Carbon Steels BHN 100-225 | STEEL | NEGATIVE ↑ FINISH ↓ ROUGH | FM | .020 - .080 | .004 - .008 |
| Carbon Steels BHN 200-300 | | | MM | .040 - .160 | .008 - .016 |
| Alloy Steels BHN 225-275 | | | RM | .080 - .200 | .012 - .020 |
| Alloy Steels BHN 275-400 | | | HR | .120 - .260 | .014 - .024 |
| Alloy Steels BHN Over 400 | | POSITIVE ↑ FINISH ↓ ROUGH | FM | .020 - .060 | .004 - .008 |
| Tool Steels Hot & Cold Worked | | | MM | .040 - .140 | .004 - .010 |
| Martensitic Stainless Steel 400 Series | | | RM | .040 - .160 | .008 - .014 |
| Austenitic Stainless Steel 300 Series | STAINLESS STEEL | NEGATIVE ↑ FINISH ↓ ROUGH | FM | .040 - .120 | .006 - .012 |
| | | | MM | .040 - .140 | .008 - .016 |
| | | | RM | .060 - .160 | .010 - .018 |
| PH Duplex | | POSITIVE ↑ FINISH ↓ ROUGH | FM | .020 - .080 | .002 - .006 |
| | | | MM | .020 - .120 | .002 - .008 |
| | | | RM | .040 - .140 | .004 - .010 |
| Gray Iron | CAST IRON | NEGATIVE ↑ FINISH ↓ ROUGH | FM | .040 - .140 | .008 - .014 |
| Ductile Iron BHN 140-180 | | | RM | .060 - .160 | .010 - .016 |
| Ductile Iron BHN 190-250 | | | FLAT TOP | .040 - .200 | .008 - .020 |
| Spheroidal Iron BHN 190-250 | NON-FERROUS | NEG ↑ FINISH ↓ ROUGH | FM | .020 - .100 | .004 - .010 |
| Aluminum > 5% Silicon | | | RM | .060 - .140 | .010 - .016 |
| Aluminum < 5% Silicon | | POSITIVE ↑ FINISH ↓ ROUGH | FM | .020 - .080 | .002 - .006 |
| | | | MM | .060 - .280 | .008 - .022 |
| Copper / Zinc / Brass | | | RM | .080 - .300 | .012 - .022 |

TURNING

TURNING



Cutting Data - Surface feet per minute (meters per minute)

| | | | AGS50 | | AGS54 | |
|-------|------------------------------|-------|-------|-----|-------|-----|
| | | | F | R | F | R |
| STEEL | Free Machining Carbon Steels | m/min | 500 | 250 | 250 | 150 |
| | | sfm | 1600 | 640 | 800 | 480 |
| | Plain Carbon Steels | m/min | 400 | 200 | 180 | 50 |
| | | sfm | 1280 | 640 | 576 | 160 |
| | Alloy Steels 190-330 HB | m/min | 300 | 140 | | |
| | | sfm | 960 | 400 | | |
| | Alloy Steels 330-450 HB | m/min | 180 | 120 | | |
| | | sfm | 576 | 384 | | |

| | | | APS35 | |
|-----------------|------------------------|-------|-------|-----|
| | | | F | R |
| STAINLESS STEEL | Martensitic 400 Series | m/min | 165 | 80 |
| | | sfm | 540 | 260 |
| | 300 Series | m/min | 165 | 80 |
| | | sfm | 540 | 260 |

| | | | AS20 | |
|-----------|----------------------|-------|------|-----|
| | | | F | R |
| CAST IRON | Grey Cast 190-330 HB | m/min | 500 | 250 |
| | | sfm | 1600 | 640 |
| | Grey Cast 330-450 HB | m/min | 300 | 140 |
| | | sfm | 876 | 448 |
| | Alloy/Ductile | m/min | 250 | 120 |
| | | sfm | 800 | 384 |

| | | | APS35 | |
|-------------|------------------------------|-------|-------|-----|
| | | | F | R |
| NON-FERROUS | Free Machining Aluminum | m/min | 180 | 100 |
| | | sfm | 540 | 260 |
| | High Silicon Aluminum Alloys | m/min | 95 | 50 |
| | | sfm | 304 | 160 |
| | Copper Zinc Brass | m/min | 180 | 100 |
| | | sfm | 576 | 330 |
| | Non-Metallics | m/min | 180 | 100 |
| | | sfm | 576 | 330 |

| | | | APS35 | |
|------------------|-----------------------------|-------|-------|-----|
| | | | F | R |
| HIGH TEMP ALLOYS | High Temp Alloys 200-260 HB | m/min | 200 | 60 |
| | | sfm | 650 | 200 |
| | High Temp Alloys 260-450 HB | m/min | 65 | 35 |
| | | sfm | 215 | 115 |
| | Titanium Alloys (Ti 6Al-4V) | m/min | 180 | 110 |
| | | sfm | 525 | 345 |

NOTE: Decrease Vc if interrupted cut, roughing, unstable conditions and/or uncoated grade