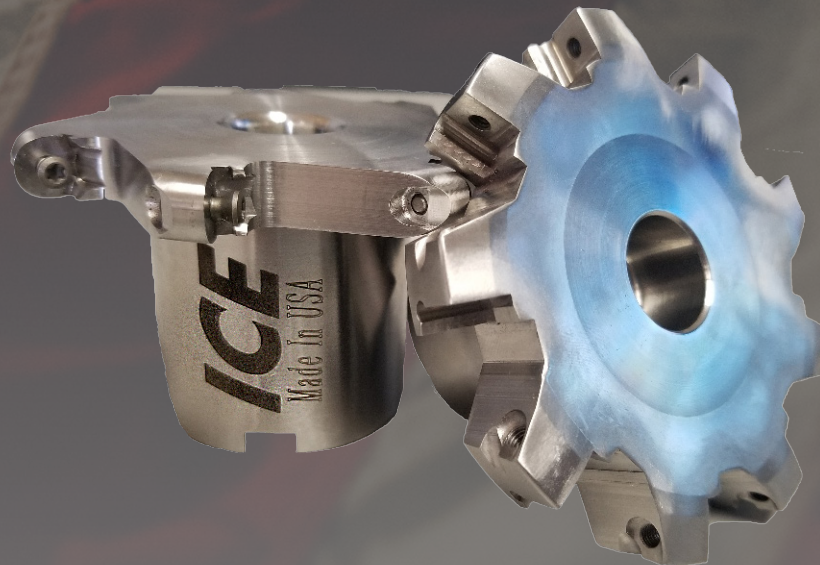
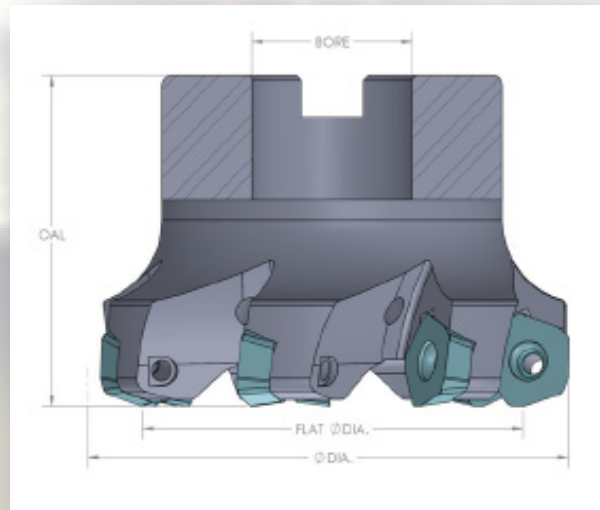


**ICE**

INNOVATIVE CUSTOM ENGINEERING



# MILLING PRODUCT CATALOG



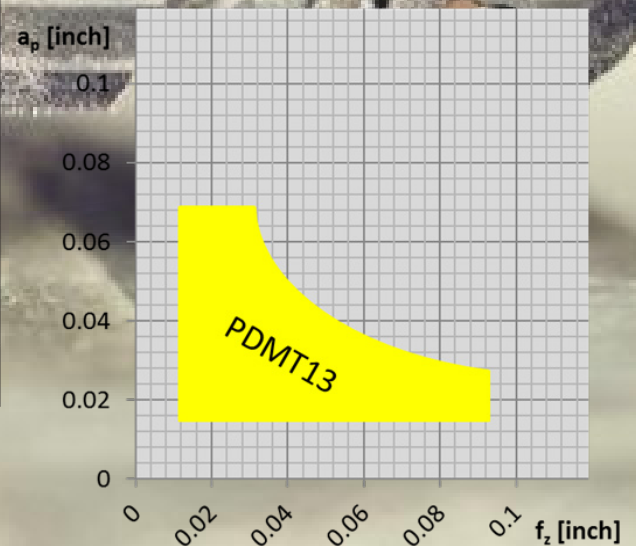
## CUTTERS

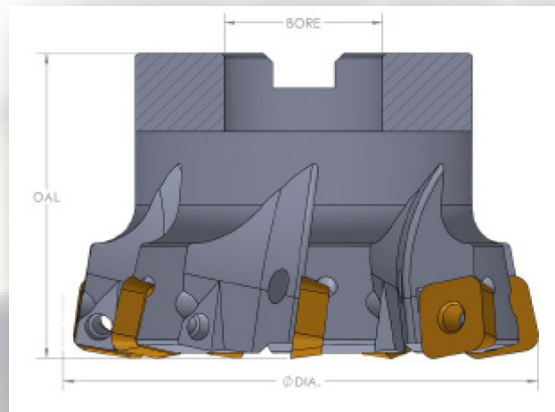
ICE PART NO.	ØDIA	BORE	OAL	NO. OF INSERTS
HF 1.50 PD13 3 0.50 2.00 C	1.50	0.50	2.00	3
HF 2.00 PD13 4 0.75 2.00 C	2.00	0.75	2.00	4
HF 2.00 PD13 5 0.75 2.00 C	2.00	0.75	2.00	5
HF 2.50 PD13 5 1.00 2.00 C	2.50	0.75	2.00	5
HF 3.00 PD13 5 1.00 2.00 C	3.00	1.00	2.00	5
HF 3.00 PD13 7 1.00 2.00 C	3.00	1.00	2.00	7
HF 4.00 PD13 6 1.25 2.00 C	4.00	1.25	2.00	6
HF 4.00 PD13 9 1.25 2.00 C	4.00	1.25	2.00	9

**SCREW REQUIRED: T15 M4 x 12mm: \$1.50 LIST PRICE**

## INSERTS

INSERT	GRADE	LIST PRICE
PDMT 1305ZDSR-SAM	IC4225	\$7.50
PDMT 1305ZDSR-SAM	IP1030	\$7.50
PDMT 1305ZDSR-SAM	IP1215	\$7.50
PDMT 1305ZDSR-SAM	IP315	\$7.50





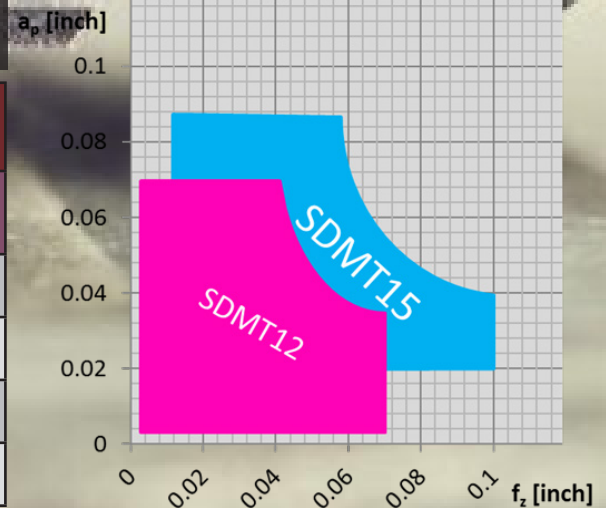
## CUTTERS

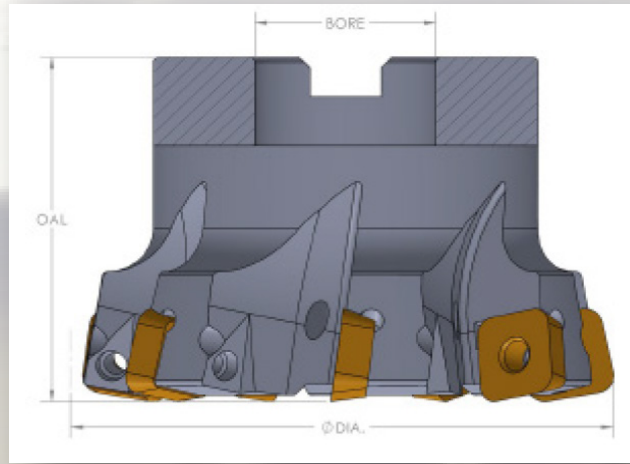
ICE PART NO.	ØDIA	BORE	OAL	NO. OF INSERTS
HF 1.50 SD12 3 0.50 2.00 C	1.50	0.50	2.00	3
HF 2.00 SD12 4 0.75 2.00 C	2.00	0.75	2.00	4
HF 2.00 SD12 5 0.75 2.00 C	2.00	0.75	2.00	5
HF 2.50 SD12 5 0.75 2.00 C	2.50	0.75	2.00	5
HF 2.50 SD12 5 1.00 2.00 C	2.50	1.00	2.00	5
HF 3.00 SD12 5 1.00 2.00 C	3.00	1.00	2.00	5
HF 3.00 SD12 7 1.00 2.00 C	3.00	1.00	2.00	7
HF 3.00 SD12 5 1.25 2.00 C	3.00	1.25	2.00	5
HF 3.00 SD12 7 1.25 2.00 C	3.00	1.25	2.00	7
HF 4.00 SD12 6 1.25 2.00 C	4.00	1.25	2.00	6
HF 4.00 SD12 9 1.25 2.00 C	4.00	1.25	2.00	9
HF 4.00 SD12 6 1.50 2.50 C	4.00	1.50	2.50	6
HF 4.00 SD12 9 1.50 2.50 C	4.00	1.50	2.50	9
HF 5.00 SD12 9 1.50 2.50 NC	5.00	1.50	2.50	9
HF 6.00 SD12 12 1.50 2.50 NC	6.00	1.50	2.50	12
FDML D6.00 B2.00 L2.50 FL12 SD12	6.00	2.00	2.50	12

**SCREW REQUIRED: T15 M4 x 12mm: \$1.50 LIST PRICE**

## INSERTS

INSERT	GRADE	LIST PRICE
SDMT120420-ST	ICE 20	\$6.50
SDMT120412-OPM	IP1205H	\$6.50
SDMT120412-OPM	IP1215	\$6.50
SDMT120412-OSM	IP1215	\$6.50





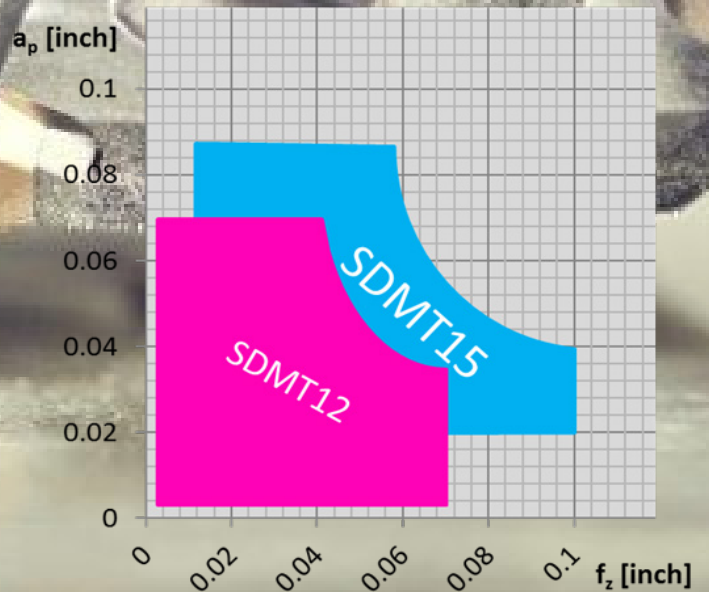
## CUTTERS

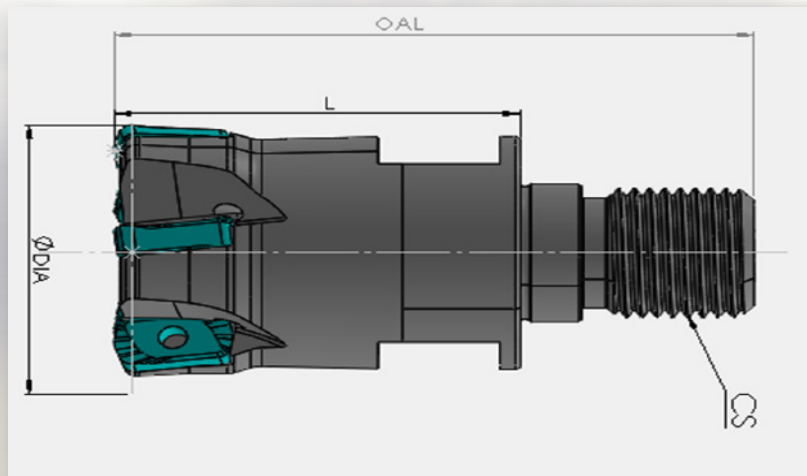
ICE PART NO.	ØDIA	BORE	OAL	NO. OF INSERTS	AP MAX
HF 3.00 SD15 5 1.00 2.00 C	3.00	1.00	2.00	5	0.085
HF 4.00 SD15 7 1.25 2.00 C	4.00	1.25	2.00	7	0.085
HF 5.00 SD15 9 1.50 2.50 NC	5.00	1.50	2.50	9	0.085
HF 6.00 SD15 10 1.50 2.50 NC	6.00	1.50	2.50	10	0.085

**SCREW REQUIRED: T15 M5 x 13mm: \$3.00 LIST PRICE**

## INSERTS

INSERT	GRADE	LIST PRICE
SDMT150512-HF	IP2202	\$9.00
SDMT150512-HF	IP2212	\$9.00



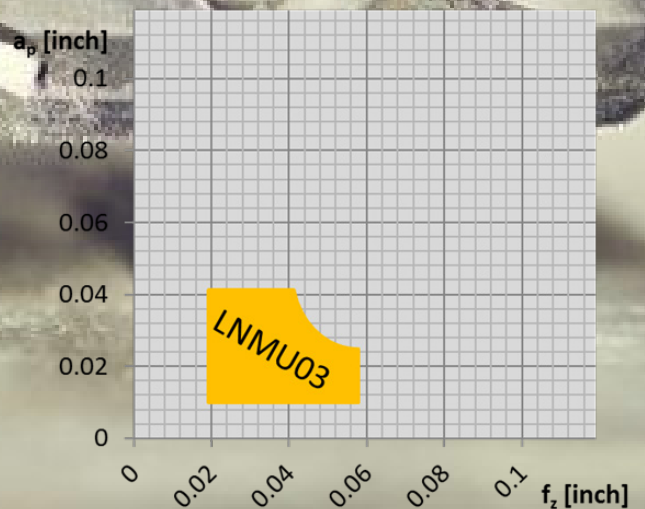


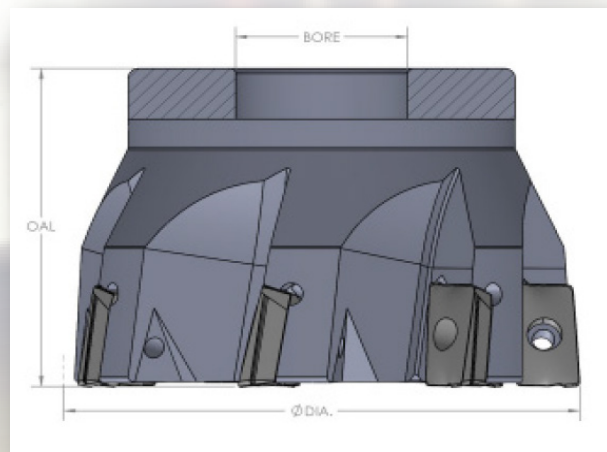
## CUTTERS

ICE PART NO.	ØDIA	L	CS	NO. OF INSERTS
HF 0.75 LN03 2 CSM10 1.50 C	0.75	1.50	M10	2
HF 0.75 LN03 3 CSM10 1.50 C	0.75	1.50	M10	3
HF 1.00 LN03 4 CSM12 1.50 C	1.00	1.50	M12	4
HF 1.00 LN03 5 CSM12 1.50 C	1.00	1.50	M12	5
HF 1.25 LN03 5 CSM16 1.50 C	1.25	1.50	M16	5
HF 1.50 LN03 6 CSM16 1.50 C	1.50	1.50	M16	6

## INSERTS

INSERT	GRADE	LIST PRICE
LNMU0303ZER-MJ	IP1130	\$6.50
LNMU0303ZER-MJ	IP1215	\$6.50
LNMU0303ZER-MJ	IP1305	\$6.50
LNMU0303ZER-MJ	IP315	\$6.50
LNMU0303ZER-ML	IP215	\$6.50
LNMU0303ZER-ML	IP315	\$6.50





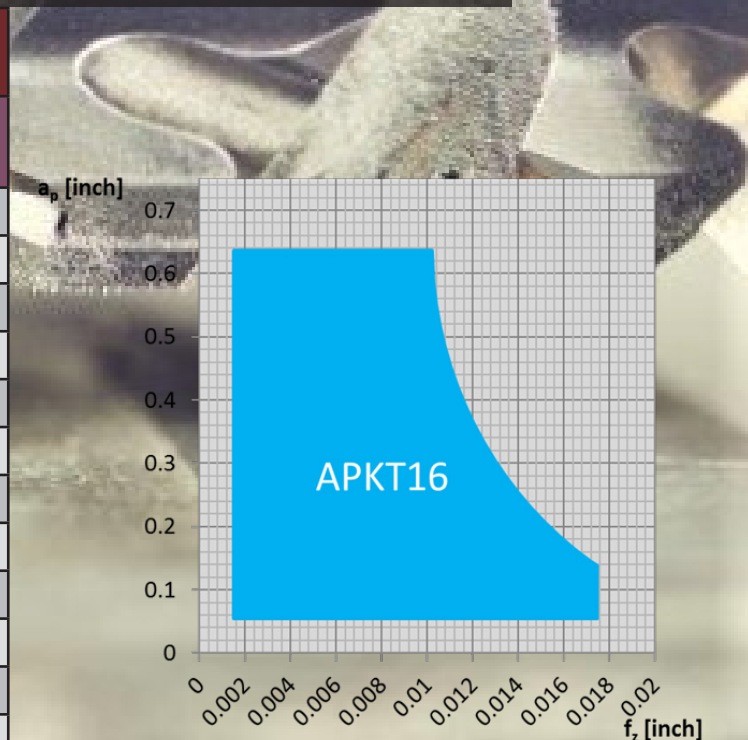
## CUTTERS

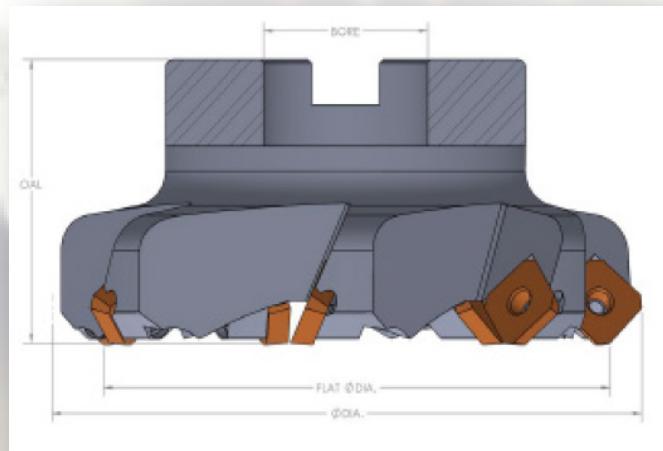
ICE PART NO.	Ø DIA.	BORE	OAL	NO. OF INSERTS	AP MAX
SM 1.50 AP16 3 0.50 1.50 C	1.50	0.50	1.50	3	16
SM 2.00 AP16 4 0.75 1.50 C	2.00	0.75	1.50	4	16
SM 2.00 AP16 5 0.75 1.50 C	2.00	0.75	1.50	5	16
SM 2.50 AP16 6 1.00 2.00 C	2.50	1.00	2.00	6	16
SM 3.00 AP16 7 1.00 2.00 C	3.00	1.00	2.00	7	16
SM 4.00 AP16 8 1.25 2.00 C	4.00	1.25	2.00	8	16

**SCREW REQUIRED: T15 M4 x 12mm: \$1.50 LIST PRICE**

## INSERTS

INSERT	GRADE	LIST PRICE
APKT160404	IPC1000	\$7.00
APKT160408-ZPM	IP1030	\$7.00
APKT160408-ZPM	IP1205H	\$7.00
APKT160408-ZPM	IP1215	\$7.00
APKT160408-ZPM	IP2202	\$7.00
APKT 1604PDER-HCT	ITC1225	\$7.00
APKT 1604PDER-HCT	ITP2235	\$7.00
APKT 1604PDER-HCT	ITC3215	\$7.00
APKT 1604PDER-HCT	ITP1235	\$7.00
APKT 1604PDER-SCT	ITP2235	\$7.00
APKT 1604PDER-SCT	CTP1235	\$7.00
APKT 1604PDER-SCT	CTC5235	\$7.00





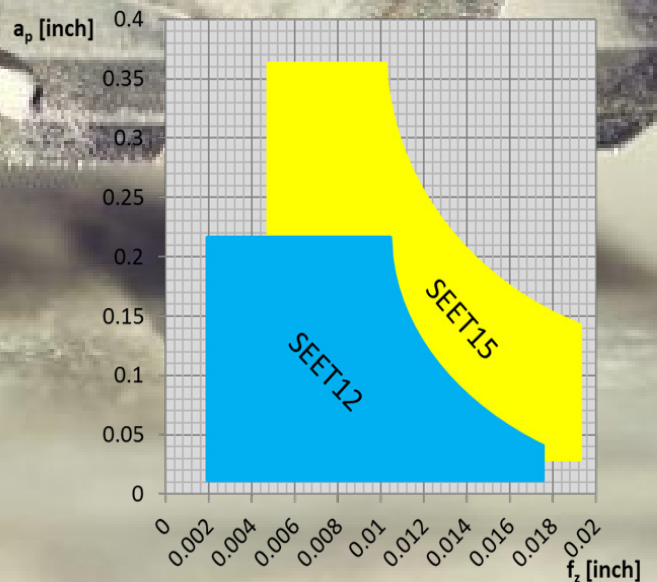
## CUTTERS

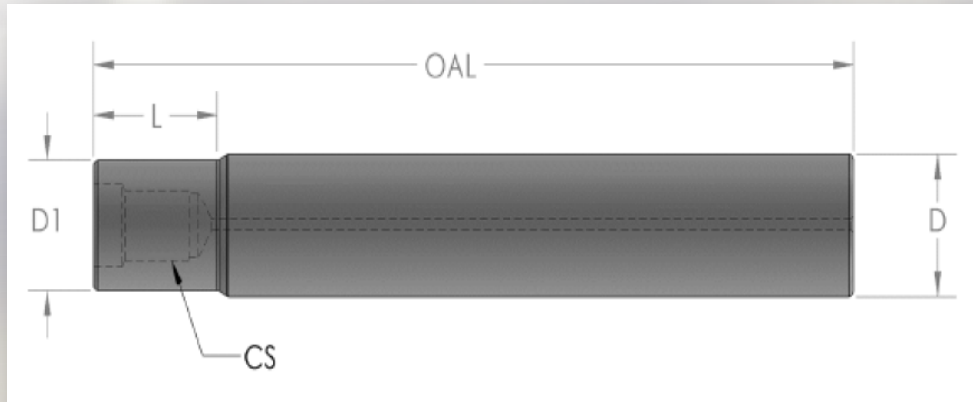
ICE PART NO.	FLAT Ø DIA	Ø DIA	BORE	NO. OF INSERTS
FM 2.00 SE12 3 0.50 1.50 C	2.00	1.50	0.50	3
FM 2.50 SE12 4 0.75 1.50 C	2.50	1.50	0.75	4
FM 3.00 SE12 5 0.75 1.50 C	3.00	1.50	1.00	5
FM 4.00 SE12 6 1.00 2.00 C	4.00	2.00	1.25	6

**SCREW REQUIRED: T15 M4 x 12mm: \$1.50 LIST PRICE**

## INSERTS

INSERT	GRADE	LIST PRICE
SEET12T3-IPM	IC4035	\$7.00
SEET12T3-IPR	IC4235	\$7.00
SEET12T3-OPM	IC3105	\$7.00
SEET12T3-OPM	IC4025	\$7.00
SEET12T3-OPM	IP1030	\$7.00
SEET12T3-OPM	IP1202	\$7.00
SEET12T3-IPM	IP1215	\$7.00
SEET12T3-IPM	IC4025	\$7.00
SEET12T3-IPR	IC4225	\$7.00
SEET12T3-IPR	IP1215	\$7.00
SEET12T3-IPM	IP2302	\$7.00



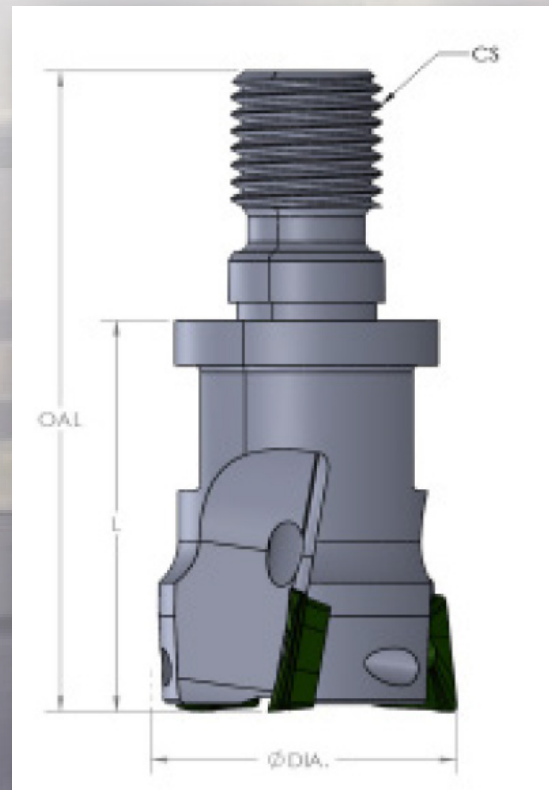
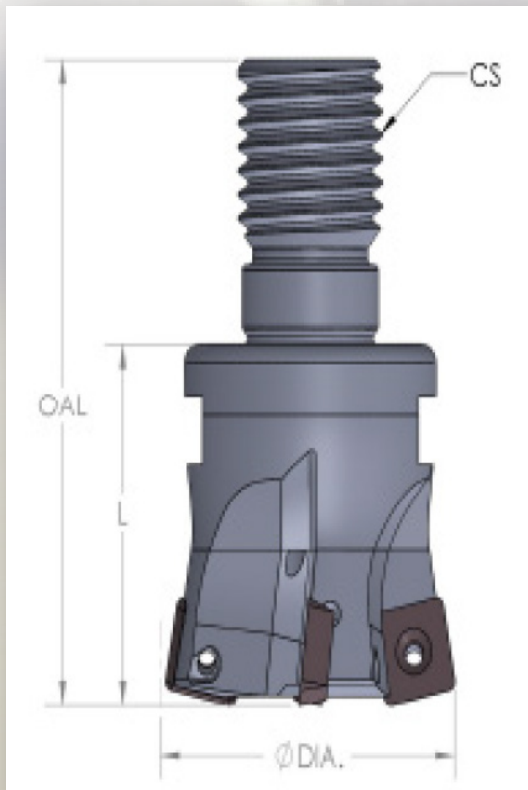


## CUTTERS

ICE PART NO.	D1	L	OAL	D	CS
CSS 0.75 CSM10 0.73 1.50 4.00 SS	0.73	1.50	4.00	0.75	M10
CSS 0.75 CSM10 0.73 1.50 6.00 SS	0.73	1.50	6.00	0.75	M10
CSS 0.75 CSM10 0.73 1.50 8.00 SS	0.73	1.50	8.00	0.75	M10
CSS 1.00 CSM12 0.95 1.50 4.00 SS	0.95	1.50	4.00	1.00	M12
CSS 1.00 CSM12 0.95 3.50 6.00 SS	0.95	3.50	6.00	1.00	M12
CSS 1.00 CSM12 0.95 3.50 8.00 SS	0.95	3.50	8.00	1.00	M12
CSS 1.25 CSM16 1.14 1.50 4.00 SS	1.14	1.50	4.00	1.25	M16
CSS 1.25 CSM16 1.14 5.50 6.00 SS	1.14	5.50	6.00	1.25	M16
CSS 1.25 CSM16 1.14 5.50 8.00 SS	1.14	5.50	8.00	1.25	M16



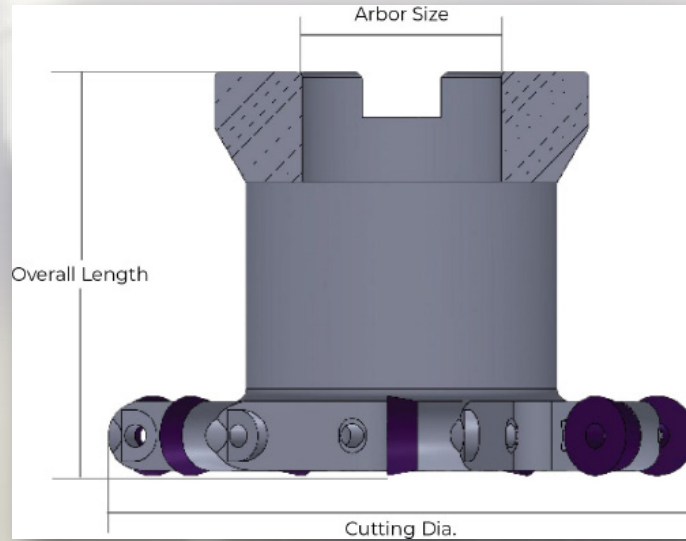




## CUTTERS

ICE PART NO.	ØDIA	L	CS	ANGLE	INSERT	NO. OF INSERTS
HF 1.25 SD12 2 CSM16 1.50 C	1.25	1.50	M16	10°	SDMT12	2
HF 1.50 SD12 3 CSM16 1.50 C	1.50	1.50	M16	10°	SDMT12	3
SM 1.00 AP16 2 CSM12 1.50 C	1.00	1.50	M12	90°	APKT16	2
SM 1.25 AP16 3 CSM16 1.50 C	1.25	1.50	M16	90°	APKT16	3
SM 1.50 AP16 3 CSM16 1.50 C	1.50	1.50	M16	90°	APKT16	3
FM 1.25 SC12 2 CSM16 1.50 C	1.25	1.50	M16	45°	SCMJ	2





## CUTTERS

ICE PART NO.	CUTTING DIA	ARBOR SIZE	OVERALL LENGTH	INSERT IC	NO OF INSERTS
BMS 3.00 10MM 7 0.75 1.50 C	3.00	0.75	1.50	0.394	7
BMS 3.60 10MM 3 0.75 1.50 C	3.60	0.75	1.50	0.394	3
BMS 3.00 0.500 4 1.00 1.50 C	3.00	1.00	1.50	0.50	4
BMS 4.00 0.500 7 1.00 1.50 NC	4.00	1.00	1.50	0.787	7
BMS 4.00 0.500 7 1.00 1.50 C	4.00	1.00	1.50	0.50	7



## CUTTERS

ICE PART NO.	FLAT ØDIA	ØDIA	BORE	OAL	NO. OF INSERTS
45DBMIL D1.50 B0.50 L1.772 FL4 SO12	1.50	1.988	0.50	1.772	4
45DBMIL D2.00 B0.75 L1.772 FL5 SO12	2.00	2.488	0.75	1.772	5
45DBMIL D2.50 B0.75 L1.772 FL6 SO12	2.50	2.988	0.75	1.772	6
45DBMIL D3.00 B1.00 L1.968 FL8 SO12	3.00	3.488	1.00	1.968	8
45DBMIL D4.00 B1.50 L2.488 FL10 SO12	4.00	4.488	1.50	2.488	10
45DBMIL D5.00 B1.50 L2.488 FL12 SO12	5.00	5.488	1.50	2.488	12

**SCREW REQUIRED: T15 M4 x 11mm: \$3.50 LIST PRICE**

## INSERTS

INSERT	GRADE	LIST PRICE
SOKU 1205AZER-SCM	ITP1235	\$10.00
SOKU 1205AZER-SCM	ITP2235	\$10.00
SOKU 1205AZER-SCM	ITC5235	<b>\$13.00</b>
SOKU 1205AZER-HCM	ITC3215	\$10.00
SOKU 1205AZER-SCM	ITPM240	\$10.00
SOKU 1205AZER-SCM	ITPP235	\$10.00
SOKU 1205AZER-SCM	ITCP230	\$10.00
SOKU 1205AZER-HCM	ITCP230	\$10.00
SOKU 1205AZER-HCM	ITPP235	\$10.00
SOKU 1205AZER-SCM	ITPM235HP	\$10.00





## CUTTERS

C-SSM-S09-100.R.03-B100-150-380-I
C-SSM-S09-125.R.04-B125-200-450-I
A-SSM-S09-150.R.05-A050-150-I
A-SSM-S09-200.R.06-A075-150-I
A-SSM-S09-250.R.07-A075-150-I
A-SSM-S09-300.R.09-A100-200-I

## INSERTS

INSERT	GRADE	LIST PRICE
SDKT 09T308SR-HCM	ITP1235	\$6.00
SDKT 09T308SR-SCM	ITP2235	\$6.00
SDKT 09T308SR-SCM	ITC5235	<b>\$7.00</b>
SDKT 09T308SR-CCM	ITC3215	\$6.00
SDKT 09T308SR-SCM	ITC5240	<b>\$7.00</b>
SDKT 09T308SR-HCM	ITCP230	\$6.00
SDKT 09T308SR-HCM	ITPP235	\$6.00
SDKT 09T308SR-SCM	ITPM240	\$6.00
SDKT 09T308SR-SCM	ITPM235	\$6.00
SDKT 09T308SR-CCM	ITCK215	\$6.00





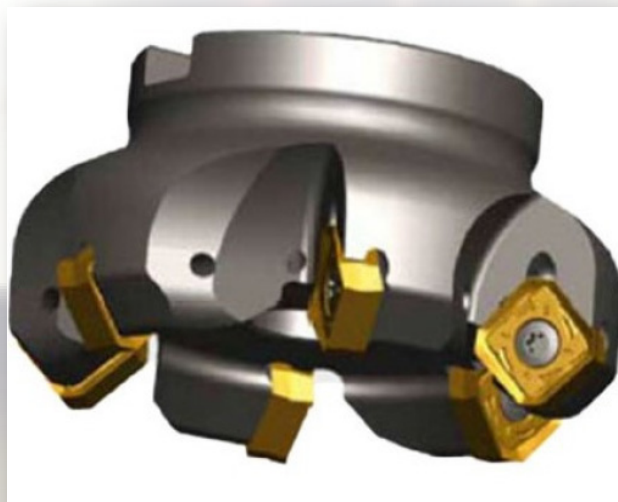
## CUTTERS

A-SSM-H06-150.R.04-A050-150-I
A-SSM-H06-200.R.05-A075-150-I
A-SSM-H06-250.R.06-A075-150-I
A-SSM-H06-300.R.07-A100-200-I
A-SSM-H06-300.R.07-A100-200-I

## INSERTS

INSERT	GRADE	LIST PRICE
HOKT 0604AZER-HCM	ITP1235	\$9.00
HOKT 0604AZER-HCM	ITP2235	\$9.00
HOKT 0604AZER-HCM	ITC3215	\$9.00
HOKT 0604AZER-SCM	ITP2235	\$9.00
HOKT 0604AZER-SCM	ITP1235	\$9.00
HOKT 0604AZER-SCM	ITC5235	<b>\$12.00</b>
HOKT 0604AZER-HCM	ITC5235	\$9.00
HOKT 0604AZER-HCM	ITPP235	\$9.00
HOKT 0604AZER-SCM	ITPM235HP	\$9.00
HOCT 0604AZFR-LMM	IH216T	<b>\$12.00</b>
HOCT 0604AZER-SCM	ITPM235	<b>\$12.00</b>
HOCT 0604AZER-SCM	ITC5235	<b>\$12.00</b>





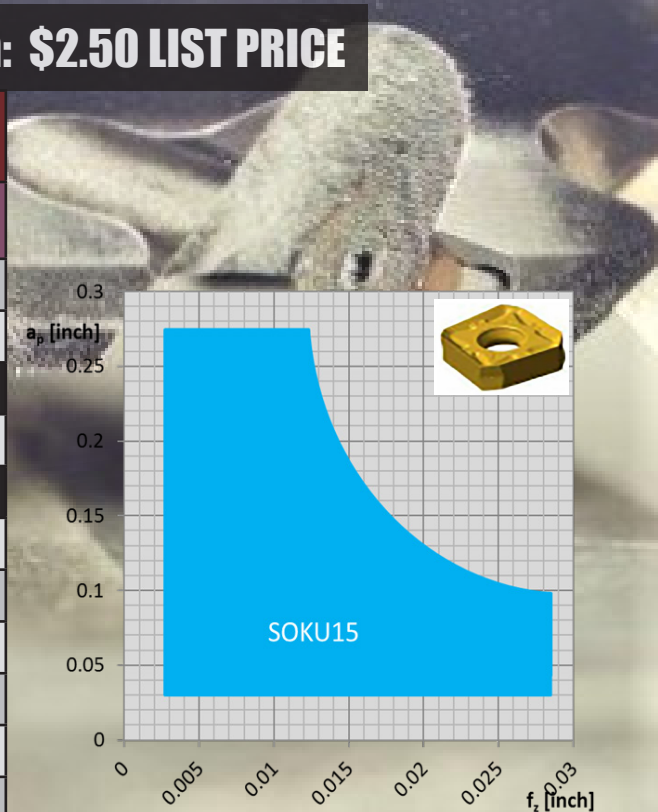
## CUTTERS

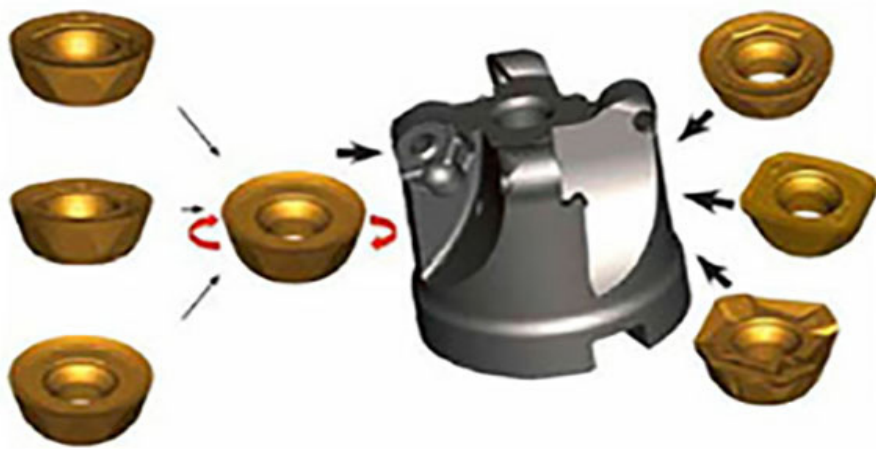
ICE PART NO.	FLAT ØDIA	ØDIA	BORE	OAL	NO. OF INSERTS
45DBMIL D1.50 B0.50 L1.772 FL4 SO15	1.50	2.091	0.50	1.772	4
45DBMIL D2.00 B0.75 L1.772 FL4 SO15	2.00	2.591	0.75	1.772	4
45DBMIL D2.50 B0.75 L1.772 FL5 SO15	2.50	3.091	0.75	1.772	5
45DBMIL D3.00 B1.00 L1.968 FL6 SO15	3.00	3.591	1.00	1.968	6
45DBMIL D4.00 B1.50 L2.480 FL7 SO15	4.00	4.591	1.50	2.480	7
45DBMIL D5.00 B1.50 L2.480 FL8 SO15	5.00	5.591	1.50	2.480	8

**SCREW REQUIRED: T20 M4 x 13mm: \$2.50 LIST PRICE**

## INSERTS

INSERT	GRADE	LIST PRICE
SOKU 1505AZER-SCM	ITP1235	\$13.00
SOKU 1505AZER-SCM	ITP2235	\$13.00
SOKU 1505AZER-SCM	ITC5235	<b>\$15.00</b>
SOKU 1505AZER-HCM	ITC3215	\$13.00
SOKU 1505AZER-SCM	ITC5240	<b>\$15.00</b>
SOKU 1505AZER-SCM	ITCP230	\$13.00
SOKU 1505AZER-SCM	ITPP235	\$13.00
SOKU 1505AZER-SCM	ITPM240	\$13.00
SOKU 1505AZER-HCM	ITPP235	\$13.00
SOKU 1505AZER-SCM	ITPM235HP	\$13.00
SOKU 1505AZER-HCM	ITCP230	\$13.00



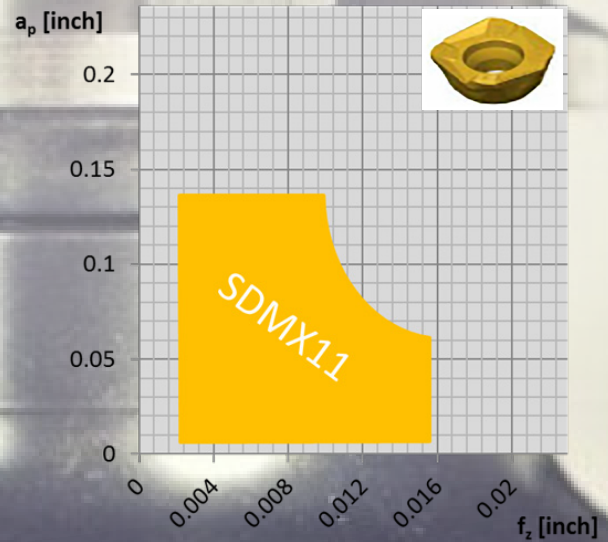


## CUTTERS

A-SSM-R12-150.R.04-A050-150-I
A-SSM-R12-200.R.05-A075-150-I
A-SSM-R12-250.R.06-A075-150-I
A-SSM-R12-300.R.08-A100-200-I
A-SSM-R12-400.R.10-B150-200-I

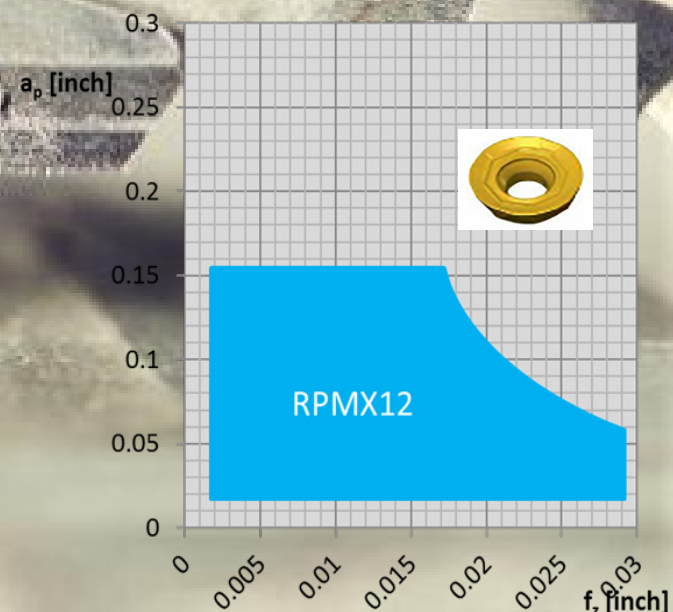
## INSERTS

INSERTS	GRADE	45° LIST PRICE
SDMX 1105AEER-HCM	ITP1235	\$7.00
SDMX 1105AEER-XCM	ITC5235	\$7.00
SDMX 1105AEER-XCM	ITC5240	\$7.00
SDMX 1105AEER-HCM	ITCP230	\$7.00
SDMX 1105AEER-HCM	ITPP235	\$7.00
SDMX 1105AEER-SCM	ITC5235	\$7.00
SDMX 1105AEER-SCM	ITPM235HP	\$7.00



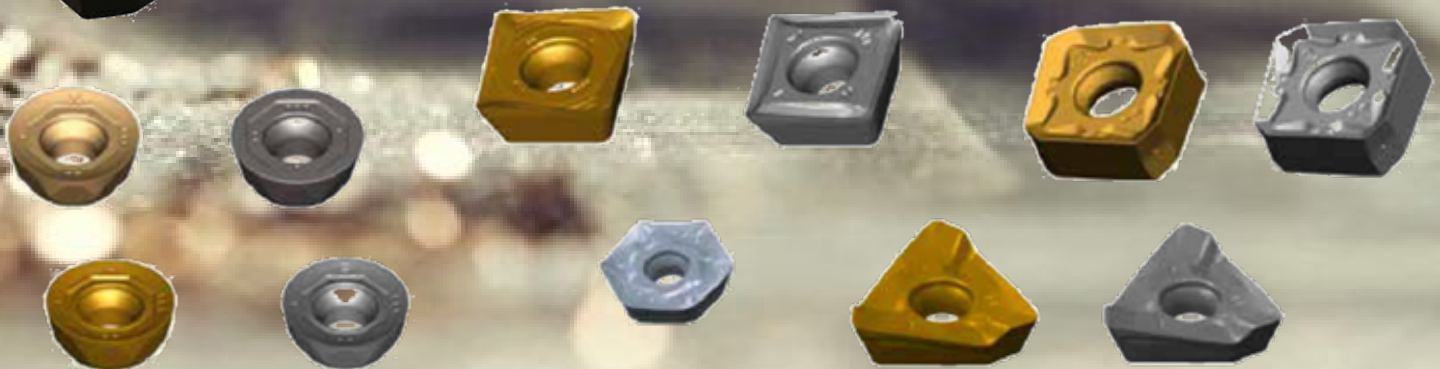
## ROUND INSERTS

INSERT	GRADE	LIST PRICE
RPMX 1204MO-SCM	ITP2235	\$7.00
RPMX 1204MO-HCM	ITP1235	\$7.00
RPMX 1204MO-HCM	ITC3215	\$7.00
RPMX 1204MO-MFHCM	ITP1235	\$7.00
RPMX 1204MO-MFHCM	ITC3215	\$7.00
RPMX 1204MO-HCM	ITCP230	\$7.00
RPMX 1204MO-HCM	ITPP235	\$7.00
RPMX 1204MO-SCM	ITPM240	\$7.00
RPMX 1204MO-MFSCM	ITPM240	\$7.00
RPMX 1204MO-MFHCM	ITPP235	\$7.00
RPMX 1204MO-MFHCM	ITCP230	\$7.00
RPMX 1204MO-SCM	ITC5235	<b>\$9.00</b>
RPMX 1204MO-MFSCM	ITC5235	<b>\$9.00</b>



# ISO MILLING INSERTS

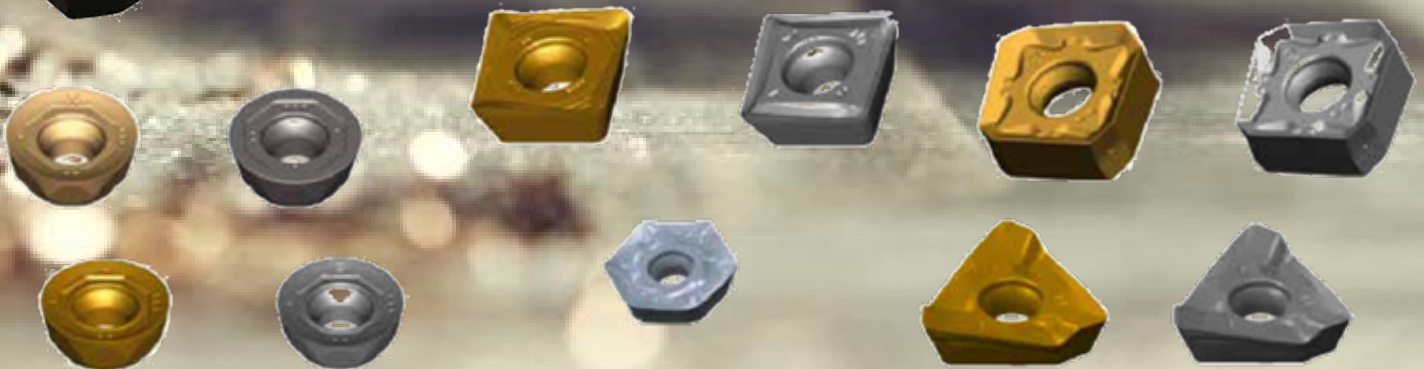
INSERT	GRADE
APMT1135PDER-M2	IP1215
APMT1135PDER-M2	IP1030
APMT160408PDER-M2	IP1030
APMT160408PDER-M2	IP1205
APMT160408PDER-M2	IP1315
APMT1604PDER-2	IP1315
3PKT100408R-M	IP1215
3PKT150508R-M	IP1215
APKT170516R-EM	IP1030
APKT170516R-EM	IP1215
APKT170516R-EM	IP1312
APKT1705PER-EM	IP1215
R39011T308-SP	IP1215
R39011T308-SP	IP1305
R39011T308-SP	IP1315
R390-180612M-PM	IP1215
R390-180612M-PM	IP1312
LNMU0303ZER-MJ	IP1215
LNMU0303ZER-MJ	IP1215
WNMX130520ZNN-MM	IC4225
WNMX130520ZNN-MM	IP1305
EPMT0603TN-8-1	LATUMA
EPNW0603TN-8	IP2202
SDMT 1205-XZ	IP1315





# ISO MILLING INSERTS

INSERT	GRADE
JDMW080320ZZSR-FT	IP1215
JDMW120420ZDSR-FT	IP1215
SNMT13T6ANER-H	IP1215
SEMT13T3AGSR-G	IP1315
SEMT12T320	IC4225
SEMT12T320	IP1215
SEMT12T312	IP1202
SEET120308PER-OPM	IP1215
SEET12T3-OPM	IP1215
SEKN1203AFTN	IP1215
SEKR1203AZ-YM	IP1215
SEHT1204AFSN	IP1215
WDGT06T320ZTR	IP1315
WDGT080520ZSR	IP1215
WDMT10X620ZER	IP1215
ODMT0605APEN-44	IC4035
RPHX10T3MO	IP1312
RPKT10T3MOT10-Q	IP1215
TPKN1603PDSR	IP1215
TPKN2204PDTR	IP1215
SPMW120408	IP2202
SOMT11T308-ODP	IP1215
SOMT09T308-ODP	IP1215
SOEX07T308	IP2212
SOEX060306	IP2212



# MILLING



We are able to make any specialized sizes and/or styles of tool upon your request

We are proud to introduce our American made tooling line. These tools have extreme value points as well as huge material benefits.

## VALUE

1. Up front lower investment with great starting price point.
2. Our never rebuild offer on all American made tools. Just hand in your broken tool and we replace it with new one for half price for life.
3. Our customs for less program. Many of our customs are priced at standard pricing.
4. Our initial swap out of competition program.

## INSERT BENEFITS

1. Many of our inserts are pressed to our specifications.
2. Our inserts come from several suppliers based on price, geometric technology and quality.
3. ISO replacements for almost all major brands. Our inserts work well in their cutters but even better in ours.
4. New coating technologies come to market faster due to the utilizing of multiple vendors with varieties of coating vessels.

## CUTTER MATERIAL BENEFITS

1. Made from Stainless Steel base metal which gives greater toughness and abrasion resistance.
2. Harder base material 45 HRC. in many cases much harder than competition.
3. Better dampening principles causing less vibrations, leading to a better tool life. In many cases this material has improved insert life by 25%.
4. Higher tensile strength leading to less pocket micro fracturing and pocket pinging.
5. Heat displacement up to 10 times faster than any other cutter on the market today. Safer for operators changing inserts.
6. Cutter fatigue due to thermal displacement prevents pockets from over-heating and plastic deformation to occur.
7. Pocket repeatability after use. We tested almost all our competitors feed mills and can confidently state our pocket takes at the least 3 times longer to deform from cutting. This combination of hardness, toughness, tensile strength and grain structure create the perfect cutting tool properties.

Please contact a participating ICE dealer for information on how to get a free test. This is just a beginning, as we are looking to have a full line by the end of 2020.