Application Selection Steps

1) Choose the Application

- Face milling
- Chamfer milling
- 0°/90 milling
- Die and mold milling
- Slotting
- High-temp alloy milling with ceramics
- Thread milling

2) Choose the Depth of Cut (AP1)

- Example: .200"

3) Find the Appropriate Application and AP1 in the Chart

Example: Face milling and .200" AP1.

Any milling tool located after your selected AP1 value in that application section is suitable for your operation.

Tools that come before the selected AP1 value in that application section are not applicable to your operation.

4) Choose the Material Group

Each tool has a material grid marked with a solid dot for the appropriate material for that tool.

Example: Cast iron 

When you select the proper tool from Step 3, you can apply that tool with confidence in any material group designated with a solid dot.

Face Mills

FIX-PERFECT — Cast Iron

k = 15°

4 cutting edges

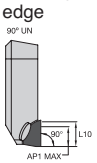
AP1 = .040 inch

Page 242 | Dia: 4.00 - 8.00 inch

KSCM PCD Shell Mills

k = 0°

1 cutting edge



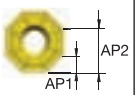
AP1 = .118 inch

Page 265 | Dia: 3.00 to 12.00 inch

NEW! KSOM Mini

k = 43°

8 cutting edges



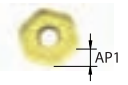
AP1 = .138 inch
AP2 = .461 inch

Page 215 | Dia: 1.25 - 6.00 inch

NEW! Dodeka KSHR

k = 45°

12 cutting edges



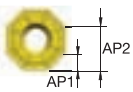
AP1 = .178 inch

Page [9803] | Dia: 1.26 - 6.00 inch

NEW! KSOM

k = 43°

8 cutting edges



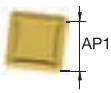
AP1 = .197 inch
AP2 = .461 inch

Page 221 | Dia: 2.50 - 6.00 inch

KSSR

k = 84°

8 cutting edges



AP1 = .200 inch

Page 261 | Dia: 2.50 - 10.00 inch

FIX-PERFECT 70° IC 12 — Cast Iron

k = 70°

8 cutting edges

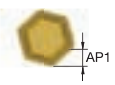
AP1 = .213 inch
AP1 = .275 inch

Page 235 | Dia: 2.00 - 10.00 inch

HexaCut 45° — Cast Iron

k = 45°

12 cutting edges



AP1 = .256 inch

Page 247 | Dia: 3.15 - 12.00 inch

FIX-PERFECT 70° IC 15 — Cast Iron

k = 70°

8 cutting edges

AP1 = .256 inch
AP1 = .472 inch

Page 237 | Dia: 4.00 - 8.00 inch

KSSM 45°

k = 45°

4 cutting edges

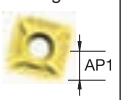
AP1 = .260 inch

Page 227 | Dia: 1.26 - 7.87 inch

KSSM 75°

k = 75°

4 cutting edges



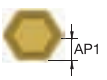
AP1 = .314 inch

Page 231 | Dia: 3.15 to 6.30 inch

HexaCut 30° — Cast Iron

k = 30°

12 cutting edges



AP1 = .315 inch

Page 251 | Dia: 3.15 - 12.00 inch

Chamfer Mills

Chamfer Mills 60°

k = 60°

4 cutting edges

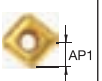
AP1 = .136 inch

Page 273 | Dia: .460 - .750 inch

Chamfer Mills 45°

k = 45°

4 cutting edges



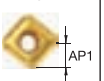
AP1 = .195 inch

Page 274 | Dia: .460 - 1.97 inch

Chamfer Mills 30°

k = 30°

4 cutting edges



AP1 = .260 inch

Page 273 | Dia: .460 - .750 inch

P Steel	M Stainless Steel	K Cast Iron	N Non-Ferrous Materials	S High-Temp Alloys	H Hardened Materials

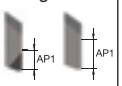
To place an order, contact Kennametal or your authorized Kennametal distributor, or visit www.kennametal.com.

0°/90° Milling

k = 90°

FIX-PERFECT — Aluminum HPM Line

2 cutting edges



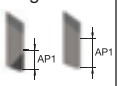
AP1 = .157 inch (PCD)
AP1 = .394 inch

Page 333 | Dia: 2.50 - 12.00 inch

k = 90°

FIX-PERFECT — Aluminum PM Line

2 cutting edges



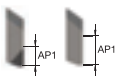
AP1 = .157 inch (PCD)
AP1 = .394 inch

Page 332 | Dia: 1.50 - 12.00 inch

k = 90°

FIX-PERFECT — Aluminum M-Line

2 cutting edges



AP1 = .157 inch (PCD)
AP1 = .394 inch

Page 331 | Dia: 1.50 - 12.00 inch

k = 90°

FIX-PERFECT 90° IC 12 — Cast Iron

4 cutting edges

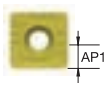
AP1 = .236 - .315 inch

Page 325 | Dia: 2.00 - 6.00 inch

k = 0°

KSSM 0° IC 10

4 cutting edges



AP1 = .259 inch

Page 309 | Dia: .750 - 3.00 inch

k = 0°

FIX-PERFECT 0° IC 15 — Cast Iron

8 cutting edges

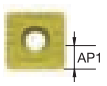
AP1= .314 - .531 inch

Page 317 | Dia: 50 to 200 mm

k = 0°

KSSM 0° IC 12

4 cutting edges



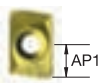
AP1 = .361 inch

Page 314 | Dia: 2.00 - 10.00 inch

k = 0°

NGE-A

2 cutting edges



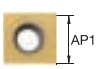
AP1 = .362 inch

Page 301 | Dia: .375 - 3.00 inch

k = 0°

KICR

4 cutting edges



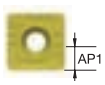
AP1 = .470 inch

Page 305 | Dia: .625 - 1.75 inch

k = 0°

KSSM 0° IC 15

4 cutting edges



AP1 = .484 inch

Page 317 | Dia: 2.00 - 10.00 inch

k = 90°

NEW!

Mill 1 (1-14)

2 cutting edges

AP1 = .580 inch

Page 281 | Dia: .625 - 4.00 inch

k = 0°

Mill 1 (1-18)

2 cutting edges

AP1 = .710 inch

Page 287 | Dia: .970 - 8.00 inch

k = 0°

NEW!

Mill 1 — MAX

2 cutting edges

AP1 = .980 inch

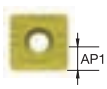
Page 295 | Dia: 1.50 - 5.00 inch

k =90°

NEW!

KSSM — KSSP Helical 0° IC 12

4 cutting edges



AP1 = 1.691 inch

Page 322 | Dia: 2.00 - 3.00 inch

P Steel	M Stainless Steel	K Cast Iron	N Non-Ferrous Materials	S High-Temp Alloys	H Hardened Materials

Application Selection Steps

(Continued from page 77.)

1) Choose the Application

- Face milling
- Chamfer milling
- 0°/90 milling
- Die and mold milling
- Slotting
- High-temp alloy milling with ceramics
- Thread milling

2) Choose the Depth of Cut (AP1)

- Example: .200"

3) Find the Appropriate Application and AP1 in the Chart

Example: Face milling and .200" AP1.

Any milling tool located after your selected AP1 value in that application section is suitable for your operation.

Tools that come before the selected AP1 value in that application section are not applicable to your operation.

4) Choose the Material Group

Each tool has a material grid marked with a solid dot for the appropriate material for that tool.

Example: Cast iron 

When you select the proper tool from Step 3, you can apply that tool with confidence in any material group designated with a solid dot.

Slotting

KVNS A2

k = 90°

W = .063 - .245 inch slot width

Page 339 | Dia: 2.50 - 10.00 inch

90° SN Slotting Cutters

k = 90°

4 cutting edges

W = .161 - .187 inch slot width

Page 345 | Dia: 3.00 - 6.00 inch

90° LN Slotting Cutters

k = 90°

2 cutting edges

W = .250 - .500 inch slot width

Page 347 | Dia: 3.00 - 8.00 inch

NEW! KSSM Fixed-Width Slotting Cutters 10 mm IC

k = 90°

4 cutting edges

W = .259 - .709 inch slot width

Page 353 | Dia: 4.00 - 12.00 inch

NEW! KSSM Slotters IC 12

k = 90°

4 cutting edges

W = .259 - .917 inch slot width

Page 365 | Dia: 5.00 - 12.00 inch

Die and Mold

NEW! KSWM KenFEED WP06

3 cutting edges

AP1 = .060 inch

Page 375 | Dia: 1.50 inch

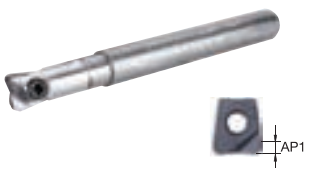
KSWM KenFEED WP08

3 cutting edges

AP1 = .060 inch

Page 375 | Dia: 2.0 - 3.00 inch

KDMT



AP1 = .118 - .236 inch

Page 404 | Dia: .500 - 1.000 inch

KDM End Mills RD...07...

AP1 = .138 inch

Page 379 | Dia: .224 -.724 inch

P Steel	M Stainless Steel	K Cast Iron	N Non-Ferrous Materials	S High-Temp Alloys	H Hardened Materials

Die and Mold

KDMB
Ball nose finisher end mills

AP1 = .188 - .625 inch

Page 393 | Dia: .312 - 1.25 inch

KDM End Mills RD.X10...

AP1 = .197 inch

Page 383 | Dia: .356 - 1.60 inch

KDM End Mills RD.X12...

AP1 = .236 inch

Page 387 | Dia: .528 - 3.528 inch

KDM End Mills RD.X16...

AP1 = .315 inch

Page 390 | Dia: .620 - 5.37 inch

KSRM RCGT 64

AP1 = .375 inch

Page 409 | Dia: 1.500 - 2.500 inch

KSRM RCGT 20 mm

AP1 = .394 inch

Page 406 | Dia: 2.787 inch

KSRM RCGT 86

AP1 = .500 inch

Page 412 | Dia: 2.000 - 8.000 inch

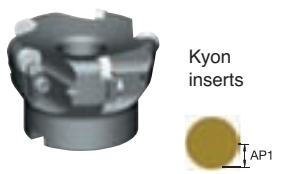
Ceramics

KDNR

AP1 = .249 inch

Page 420 | Dia: 1.50 - 3.50 inch

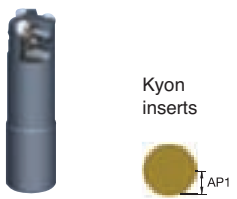
Ceramic KIPR RPG43



AP1 = .249 inch

Page 419 | Dia: 1.50 - 3.50 inch

KIPR



AP1 = .250 inch

Page 419 | Dia: .761 - 1.00 inch

Thread Milling

Thread Mills

Inserts:

Long STN 16, STN 27

Normal STN 11, STN 16, STN 27

Mini STN 10

Page 473 | Dia: .354 - 1.46 inch

Thread Mills — Tapered Thread

Inserts:

STN 11
STN 16
STN 27

Page 474 | Dia: .390 -1.654 inch

NEW! Thread Mills

Inserts:

TM25

Page 466 | Dia: .670 -1.18 inch

P Steel	M Stainless Steel	K Cast Iron	N Non-Ferrous Materials	S High-Temp Alloys	H Hardened Materials