

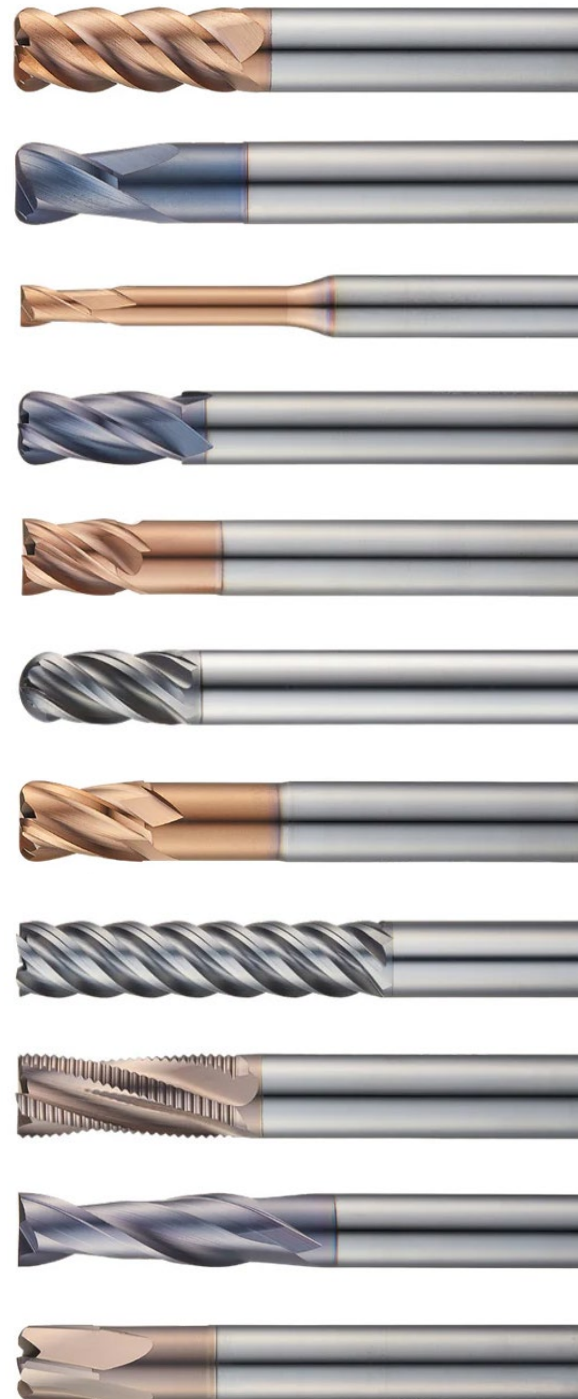


Exclusively Available at

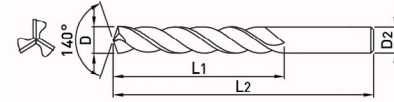
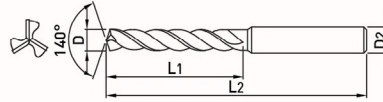


EXTENDED!
Valid Thru Feb 28, 2025

** PROMO CODE:PRE25 **

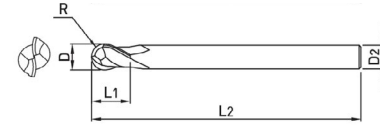
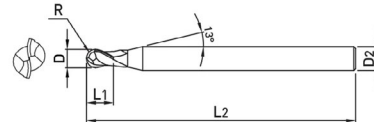


Please note that item quantities for this promotion are limited, so make sure you order quickly and make your selections before they are sold out!



3 FLUTE, 5XD CUT LENGTH- SOLID CARBIDE DRILLS with DLC COATING - INCH & METRIC

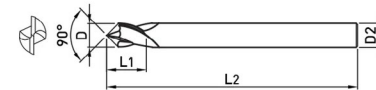
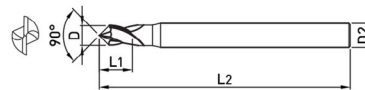
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|-------|--------------------|-----------------------|------|----------|-----------------|
| APF505127 | DRILL | SOLID SPIRAL DRILL | D12.7x77.79/136.53-13 | 20 | \$255.86 | \$156.97 |



BALL END - STANDARD LENGTH - 4 FLUTE, BRIGHT, GENERAL PURPOSE END MILL - INCH

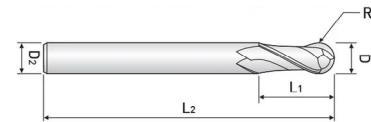
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|-----------------|-------------------------------|------|---------|----------------|
| BA302020 | END MILL | GENERAL PURPOSE | 2F D5/16"x13/16"/2-1/2"-5/16" | 30 | \$17.24 | \$10.57 |
| BA302036 | END MILL | GENERAL PURPOSE | 2F D9/16"x1-1/8"/3-1/2"-9/16" | 23 | \$52.10 | \$31.96 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|----------|-------------------|------|---------|----------------|
| BL422030 | END MILL | STANDARD | 2F R1.5 x 30/75-3 | 5 | \$28.61 | \$17.55 |

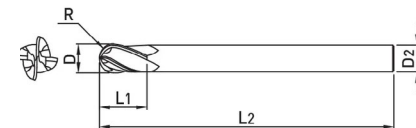
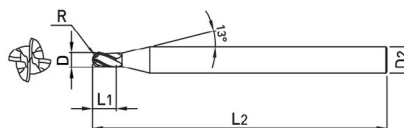


2 FLUTE - SINGLE END DRILL MILL - SOLID CARBIDE - BRIGHT - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|-----------|---------------------|--------------------|------|----------|----------------|
| CES302030 | CENT-TOOL | CENT END MILL-SOLID | D3.0x6/50-6-90° | 1 | \$53.32 | \$32.72 |
| CES302120 | CENT-TOOL | CENT END MILL-SOLID | D12.0x20/75-12 90° | 14 | \$120.37 | \$73.84 |

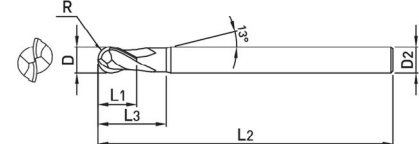
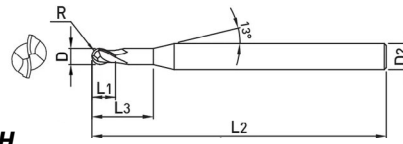


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|---------------|---------------------------|------|---------|----------------|
| DA302008 | END MILL | ZAMUS THUNDER | 2F D1/4"x1/2"/2-1/2"-1/4" | 36 | \$23.72 | \$14.56 |



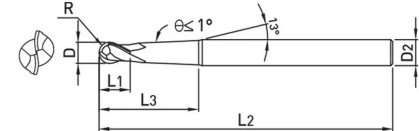
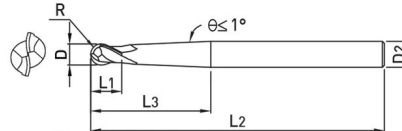
BALL NOSE - 4 FLUTE - STUB LENGTH - 2XD CUT LENGTH, ALTiN COATING - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------------------|-----------------------------|------|----------|-----------------|
| DA514020 | END MILL | ZAMUS CLASSIC-INCH | 4F D5/8"x1-1/4"/5-1/2"-5/8" | 56 | \$284.05 | \$174.27 |



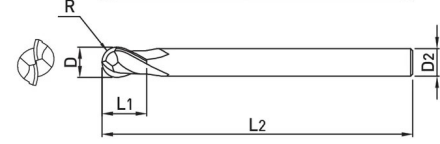
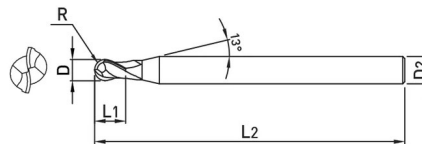
BALL NOSE - 2 FLUTE - SHORT CUT LENGTH, ALTiN COATING - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------------------|------------------------------------|------|----------|-----------------|
| DA522024 | END MILL | ZAMUS CLASSIC-INCH | 2F D3/4"x1-1/2"/2-1/4"/6-1/4"-3/4" | 17 | \$467.99 | \$287.10 |

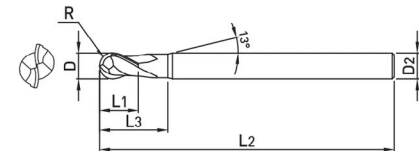
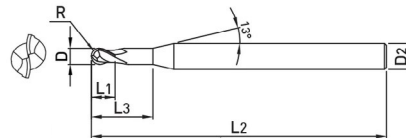


BALL NOSE - 2 FLUTE with PENCIL NECK - SHORT CUT LENGTH, ALTiN COATING - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------------------|------------------------------------|------|----------|-----------------|
| DA542012 | END MILL | ZAMUS CLASSIC-INCH | 2FD3/8"x11/16"/13/16"/5-1/16"-1/2" | 10 | \$194.01 | \$119.01 |

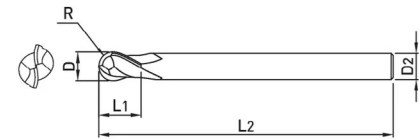
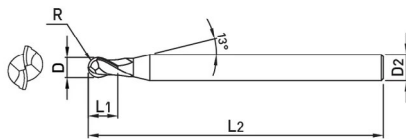


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|---------------|---------------------|------|----------|----------------|
| DB312010S4 | END MILL | ZAMUS THUNDER | 2F R0.5 x 2.5/50-4 | 8 | \$35.28 | \$21.64 |
| DB312030S3 | END MILL | ZAMUS THUNDER | 2F R1.5 x 8/60-3 | 10 | \$35.28 | \$21.64 |
| DB312140 | END MILL | ZAMUS THUNDER | 2F R7.0 x 26/110-14 | 4 | \$153.42 | \$94.13 |



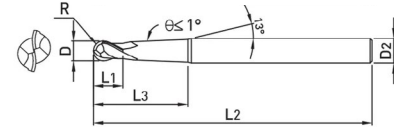
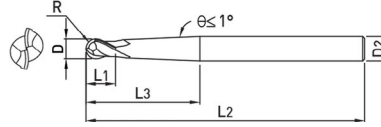
BALL NOSE - 2 FLUTE - LONG CUT LENGTH, ALTiN COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|----------------------|-------------------|------|---------|----------------|
| DB502040 | END MILL | ZAMUS CLASSIC-METRIC | 2F R2.0x5/12/70-6 | 10 | \$41.65 | \$25.56 |



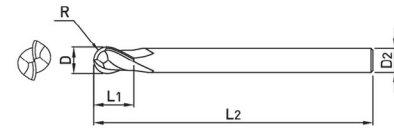
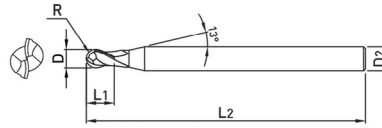
BALL NOSE - 2 FLUTE with NECK - LONG CUT LENGTH, ALTiN COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|----------------------|---------------------|------|----------|----------------|
| DB512101 | END MILL | ZAMUS CLASSIC-METRIC | 2F R5.0 x 25/150-10 | 18 | \$141.74 | \$86.95 |



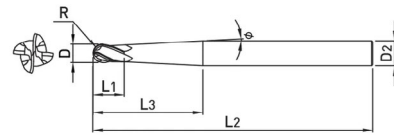
SQUARE - 4 FLUTE - REGULAR LENGTH, ALTiN COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|----------------------|---------------------|------|---------|----------------|
| DB542010 | END MILL | ZAMUS CLASSIC-METRIC | 2F R0.5x1.5/40/70-6 | 1 | \$92.25 | \$56.60 |



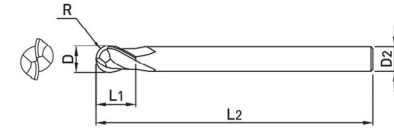
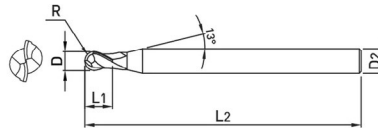
BALL NOSE - 2 FLUTE, REGULAR CUT LENGTH - ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|------------|--------------------|------|---------|----------------|
| DB712010S | END MILL | ZAMUS STAR | 2F R0.5 x 1.5/40-6 | 14 | \$66.64 | \$40.88 |
| DB712080S | END MILL | ZAMUS STAR | 2F R4.0 x 12/50-8 | 15 | \$91.64 | \$56.21 |



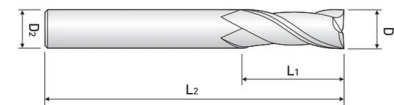
BALL NOSE - 4 FLUTE, TAPERED NECK with 1XD CUT LENGTH - ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|------------|-------------------|------|---------|----------------|
| DB734030-2.0 | END MILL | ZAMUS STAR | 4F R1.5x3/46/70-6 | 10 | \$95.80 | \$58.77 |



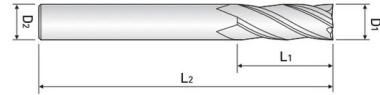
BALL NOSE - 2 FLUTE with NECK - REGULAR & LONG LENGTHS - TiALN+SH - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|----------|-----------------|------|---------|----------------|
| DS502060 | END MILL | SUS-WAVE | 2F R3.0x13/50-6 | 64 | \$58.58 | \$35.93 |



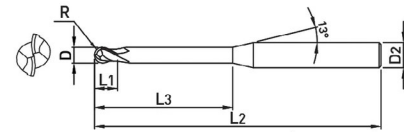
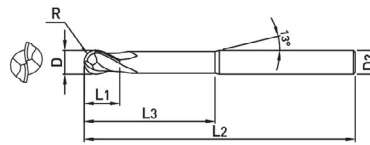
SQUARE-VARIOUS LENGTHS - 2 FLUTE , BRIGHT, GENERAL PURPOSE END MILL - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|-----------------|---------------------------|------|----------|-----------------|
| EA302008L | END MILL | GENERAL PURPOSE | 2F D1/8"x3/4"/2-1/4"-1/8" | 66 | \$8.62 | \$10.57 |
| EA302020X | END MILL | GENERAL PURPOSE | 2F D5/16"x1-5/8"/4"-5/16" | 56 | \$24.79 | \$30.41 |
| EA302048 | END MILL | GENERAL PURPOSE | 2F D3/4"x1-1/2"/4"-3/4" | 12 | \$74.30 | \$91.16 |
| EA302048L | END MILL | GENERAL PURPOSE | 2F D3/4"x2-1/4"/5"-3/4" | 32 | \$118.78 | \$145.74 |



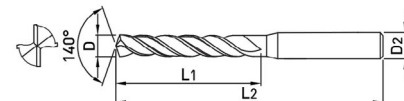
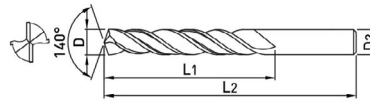
SQUARE-VARIOUS LENGTH - 4 FLUTE, BRIGHT, GENERAL PURPOSE END MILL - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|-----------------|-------------------------------|------|----------|-----------------|
| EA304004S | END MILL | GENERAL PURPOSE | 4F D1/16"x1/4"/1-1/2"-1/8" | 122 | \$5.57 | \$6.83 |
| EA304010S | END MILL | GENERAL PURPOSE | 4F D5/32"x5/16"/2"-3/16" | 64 | \$8.06 | \$9.90 |
| EA304011 | END MILL | GENERAL PURPOSE | 4F D11/64"x9/16"/2"-3/16" | 131 | \$7.13 | \$8.75 |
| EA304015 | END MILL | GENERAL PURPOSE | 4F D15/64"x3/4"/2-1/2"-1/4" | 127 | \$10.82 | \$13.27 |
| EA304028S | END MILL | GENERAL PURPOSE | 4F D7/16"x9/16"/2-1/2"-7/16" | 80 | \$22.64 | \$27.77 |
| EA304030 | END MILL | GENERAL PURPOSE | 4F D15/32"x1"/3"-1/2" | 78 | \$28.45 | \$34.91 |
| EA304036 | END MILL | GENERAL PURPOSE | 4F D9/16"x1-1/8"/3-1/2"-9/16" | 76 | \$40.12 | \$49.22 |
| EA304064L | END MILL | GENERAL PURPOSE | 4F D1"x2-1/4"/5"-1" | 25 | \$194.14 | \$238.19 |



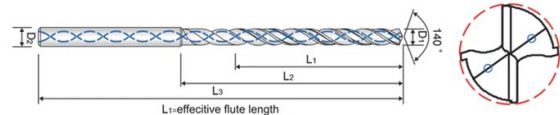
Ball Nose 2 Flute Endmill With & Without Reach - Metric

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|----------|----------------------|------|----------|-----------------|
| G0301230 | END MILL | GRA-MATE | 2F R1.5x12/30/80-6 | 4 | \$150.33 | \$92.22 |
| G08025S | END MILL | GRA-MATE | 2F R4.0x25/70-8 | 18 | \$238.49 | \$146.31 |
| GE0301016S6 | END MILL | GRA-MATE | 2F D3.0 x 10/16/60-6 | 2 | \$197.89 | \$121.41 |



2 FLUTE - 3XD CUT LENGTH - SOLID CARBIDE - TiAlN+HH COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|-------|-----------|-----------------------|------|----------|-----------------|
| HP503035 | DRILL | POWER MAX | D3.5 x 20/62-6,3XD | 4 | \$68.26 | \$41.88 |
| HP503068 | DRILL | POWER MAX | D6.8 x 34/79-8,3XD | 8 | \$89.51 | \$54.91 |
| HP503069 | DRILL | POWER MAX | D6.9 x 34/79-8,3XD | 5 | \$89.51 | \$54.91 |
| HP503088 | DRILL | POWER MAX | D8.8 x 47/89-10,3XD | 8 | \$116.37 | \$71.39 |
| HP503096 | DRILL | POWER MAX | D9.6 x 47/89-10,3XD | 2 | \$112.98 | \$69.30 |
| HP503103 | DRILL | POWER MAX | D10.3 x 55/102-12,3XD | 2 | \$152.08 | \$93.29 |
| HP503132 | DRILL | POWER MAX | D13.2 x 60/107-14,3XD | 5 | \$216.16 | \$132.61 |

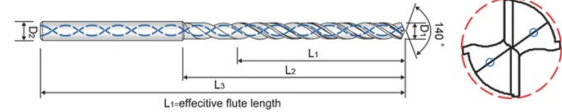


2 FLUTE - 3XD CUT LENGTH - SOLID CARBIDE - TiAlN+HH COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|-------|-----------|-----------------------|------|----------|-----------------|
| HPI503031 | DRILL | POWER MAX | D3.1 x 20/62-6,3XD | 7 | \$83.45 | \$51.20 |
| HPI503056 | DRILL | POWER MAX | D5.6 x 28/66-6,3XD | 7 | \$84.22 | \$51.67 |
| HPI503059 | DRILL | POWER MAX | D5.9 x 28/66-6,3XD | 21 | \$83.45 | \$51.20 |
| HPI503104 | DRILL | POWER MAX | D10.4 x 55/105-12,3XD | 3 | \$221.16 | \$135.68 |
| HPI503106 | DRILL | POWER MAX | D10.6 x 55/105-12,3XD | 4 | \$221.16 | \$135.68 |
| HPI503111 | DRILL | POWER MAX | D11.1 x 55/105-12,3XD | 5 | \$221.16 | \$135.68 |
| HPI503113 | DRILL | POWER MAX | D11.3 x 55/105-12,3XD | 2 | \$221.16 | \$135.68 |
| HPI503128 | DRILL | POWER MAX | D12.8 x 60/107-14,3XD | 4 | \$299.81 | \$183.92 |
| HPI503200 | DRILL | POWER MAX | D20.0 x 79/131-20,3XD | 9 | \$597.46 | \$366.53 |



2 FLUTE - 8XD CUT LENGTH - INTERNAL COOLANT - TiAlN+HH COATING - METRIC



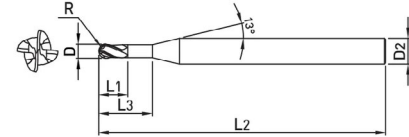
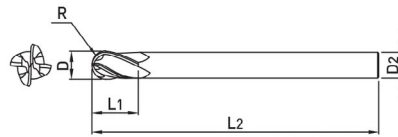
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|-------|-----------|------------------------|------|----------|-----------------|
| HPI508030N | DRILL | POWER MAX | D3.0 x 43/80-6,8XD | 0 | \$122.06 | \$74.88 |
| HPI508033N | DRILL | POWER MAX | D3.3 x 43/80-6,8XD | 6 | \$125.19 | \$76.81 |
| HPI508045N | DRILL | POWER MAX | D4.5 x 49/87-6,8XD | 5 | \$125.19 | \$76.81 |
| HPI508047N | DRILL | POWER MAX | D4.7 x 49/87-6,8XD | 46 | \$125.19 | \$76.81 |
| HPI508055N | DRILL | POWER MAX | D5.5 x 56/94-6,8XD | 15 | \$122.06 | \$74.88 |
| HPI508067N | DRILL | POWER MAX | D6.7 x 67/105-8,8XD | 42 | \$162.74 | \$99.83 |
| HPI508070N | DRILL | POWER MAX | D7.0x76/116-8,8XD | 9 | \$162.74 | \$99.83 |
| HPI508116N | DRILL | POWER MAX | D11.6 x 114/163-12,8XD | 9 | \$389.33 | \$238.84 |
| HPI508150N | DRILL | POWER MAX | D15.0 x 152/204-16,8XD | 6 | \$700.28 | \$429.59 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|-------|-----------|---------------------|------|----------|-----------------|
| HPI510018SG1 | DRILL | POWER MAX | D1.8X23.4X68X3,10XD | 4 | \$178.41 | \$109.44 |

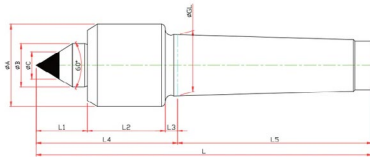
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|---------------|-----------------------------|------|----------|-----------------|
| HSCS404048LF | END MILL | ZAMUS THUNDER | 4F D3/4"x1-1/2"/4-3/4"-3/4" | 4 | \$229.28 | \$140.65 |



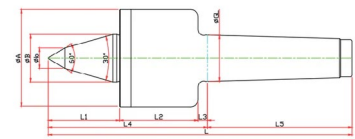
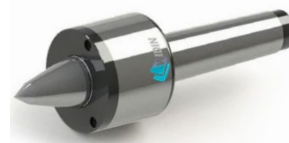
CORNER RADIUS 4 FLUTE END MILL WITHOUT REACH - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------------|----------|----------|-----------------------|------|----------|----------------|
| IM-WGB5040102060SP | END MILL | GRA-MATE | 4F R0.5 X 3/20/60 - 4 | 21 | \$106.98 | \$65.62 |

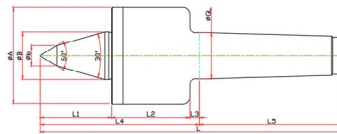


CNC STANDARD - LIVE CENTER

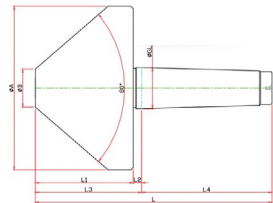


NC HIGH SPEED ROTATIONAL- MINIMIZES BITE INTERFERENCE- LIVE CENTER

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|-------------|-------------|-----------------------------------|------|----------|-----------------|
| LC-3D50C | LIVE CENTER | LIVE CENTER | LC MT#3,LC-D50C TYPE,Carbide type | 2 | \$352.98 | \$216.53 |
| LC-4SMB | LIVE CENTER | LIVE CENTER | LC MT#4, LC-SMB TYPE | 1 | \$891.11 | \$546.66 |



C HIGH SPEED ROTATIONAL - LIVE CENTERS

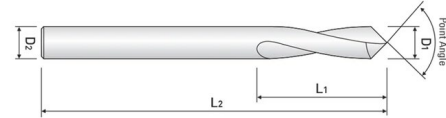


PT-80 - PIPE MACHINING - HOLLOW NOSE - LIVE CENTER

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|-------------|-------------|-----------------------|------|------------|-----------------|
| LC-5SM | LIVE CENTER | LIVE CENTER | LC MT#5, LC-SM TYPE | 1 | \$1,099.42 | \$674.47 |
| LC-6PT-80 | LIVE CENTER | LIVE CENTER | LC MT#6,LC-PT-80 TYPE | 1 | \$1,228.00 | \$753.34 |



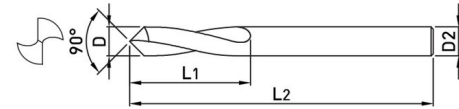
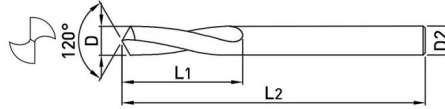
2 FLUTE - SINGLE END SPOT DRILL - SOLID CARBIDE - TiAlN COATING - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------|-----------|-------------------|----------------------|------|---------|----------------|
| LDA028B | CENT-TOOL | NC SPOTTING DRILL | D7/16"x1"-7/16" 120° | 138 | \$65.16 | \$39.98 |



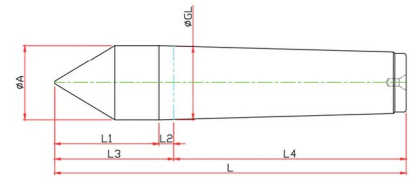
2 FLUTE - SINGLE END SPOT DRILL - SOLID CARBIDE - TiAlN COATING - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------|-----------|-------------------|---------------------|------|----------|-----------------|
| LDS050A | CENT-TOOL | NC SPOTTING DRILL | D5.0x12/50-5-120° | 5 | \$38.19 | \$23.43 |
| LDS100L | CENT-TOOL | NC SPOTTING DRILL | D10.0x24/150-10 90° | 10 | \$171.09 | \$104.96 |
| LDS120L | CENT-TOOL | NC SPOTTING DRILL | D12.0x24/150-12 90° | 10 | \$202.39 | \$124.17 |
| LDS200 | CENT-TOOL | NC SPOTTING DRILL | D20.0x35/100-20 90° | 10 | \$343.22 | \$210.56 |



FULL TIPPED DEAD CENTER

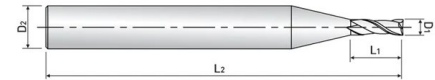


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|-------------|-------------|--|------|----------|-----------------|
| LM-4A-305L | LIVE CENTER | LIVE CENTER | LM MT#4,LM-CENTER TYPE,OAL of 305mm,Specia | 1 | \$369.59 | \$226.74 |
| LM-5A | LIVE CENTER | LIVE CENTER | LM MT#5,LM-CENTER TYPE,standard type | 1 | \$227.31 | \$139.44 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|-------|--------------------|--|------|---------|----------------|
| MD10X008 | DRILL | SOLID SPIRAL DRILL | 0.8X8X38X3, X-Long .Uncoated,10XD, 135 Degree,Spiral Drill | 17 | \$39.92 | \$24.50 |



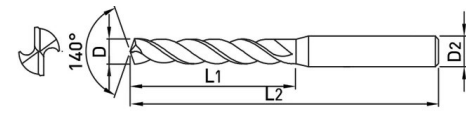
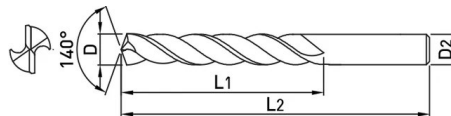
SQUARE END - 2 FLUTE - MICRO DIAMETER, REGULAR CUT LENGTH, ALTiN COATING - INCH



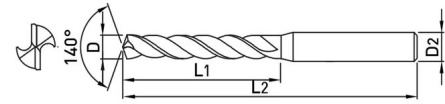
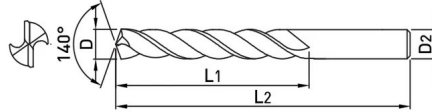
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------------------|------------------------------|------|---------|----------------|
| MZ502010 | END MILL | ZAMUS CLASSIC-INCH | 2F 0.010"x0.010"x1-1/2"x1/8" | 9 | \$81.84 | \$50.20 |
| MZ502015 | END MILL | ZAMUS CLASSIC-INCH | 2F 0.020"x0.015"x1-1/2"x1/8" | 7 | \$81.84 | \$50.20 |
| MZ502016 | END MILL | ZAMUS CLASSIC-INCH | 2F D.016"x.031"/1-1/2"-1/8" | 71 | \$26.59 | \$16.32 |



2 FLUTE - 6XD CUT LENGTH - SOLID CARBIDE - ALTiN COATING - METRIC



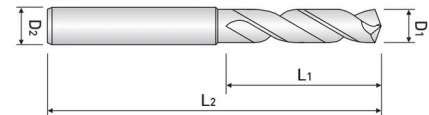
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------|-------|--------|------------------|------|----------|-----------------|
| NDPL030 | DRILL | POWER | D3.0x45/80-3 | 5 | \$40.93 | \$25.11 |
| NDPL071 | DRILL | POWER | D7.1x53/85-8 | 15 | \$82.54 | \$50.63 |
| NDPL087 | DRILL | POWER | D8.7x64/98-9 | 10 | \$93.71 | \$57.48 |
| NDPL114 | DRILL | POWER | D11.4x80/120-12 | 5 | \$142.91 | \$87.66 |
| NDPL135 | DRILL | POWER | D13.5x96/147-14 | 8 | \$218.37 | \$133.96 |
| NDPL160 | DRILL | POWER | D16.0x112/160-16 | 4 | \$318.37 | \$195.31 |



2 FLUTE - 4XD CUT LENGTH - SOLID CARBIDE - ALTiN COATING - METRIC

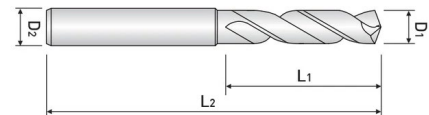
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------|-------|--------|----------------|------|----------|----------------|
| NDPR020 | DRILL | POWER | D2.0x18/50-3 | 21 | \$34.05 | \$20.90 |
| NDPR022 | DRILL | POWER | D2.2x18/50-3 | 20 | \$34.05 | \$20.90 |
| NDPR023 | DRILL | POWER | D2.3x18/50-3 | 43 | \$34.05 | \$20.90 |
| NDPR043 | DRILL | POWER | D4.3x33/63-5 | 15 | \$38.77 | \$23.78 |
| NDPR044 | DRILL | POWER | D4.4x33/63-5 | 5 | \$38.77 | \$23.78 |
| NDPR051 | DRILL | POWER | D5.1x33/63-6 | 22 | \$47.29 | \$29.02 |
| NDPR056 | DRILL | POWER | D5.6x36/66-6 | 4 | \$47.29 | \$29.02 |
| NDPR061 | DRILL | POWER | D6.1x36/66-7 | 5 | \$58.63 | \$35.97 |
| NDPR067 | DRILL | POWER | D6.7x42/75-7 | 9 | \$58.63 | \$35.97 |
| NDPR073 | DRILL | POWER | D7.3x46/80-8 | 10 | \$65.27 | \$40.04 |
| NDPR074 | DRILL | POWER | D7.4x46/80-8 | 5 | \$65.27 | \$40.04 |
| NDPR093 | DRILL | POWER | D9.3x55/90-10 | 10 | \$85.12 | \$52.23 |
| NDPR102 | DRILL | POWER | D10.2x57/95-11 | 5 | \$95.50 | \$58.59 |
| NDPR111 | DRILL | POWER | D11.1x57/95-12 | 2 | \$110.19 | \$67.60 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|-------|--------|-------------------|------|----------|-----------------|
| P503A128 | DRILL | POWER | D12.8 x 60/107-14 | 1 | \$182.89 | \$112.20 |



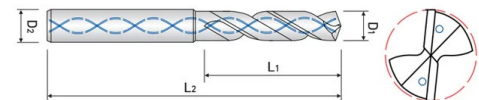
2 FLUTE - 5XD CUT LENGTH - SOLID CARBIDE - TiAlN COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|-------|--------|------------------------------|------|----------|-----------------|
| PDM020SG1 | DRILL | POWER | 2x14x68x2, 3XD Med L.SPECIAL | 5 | \$116.93 | \$71.74 |
| PDM068 | DRILL | POWER | D6.8 x 47/87-7 | 5 | \$86.28 | \$52.92 |
| PDM088 | DRILL | POWER | D8.8 x 56/96-9 | 8 | \$109.34 | \$67.07 |
| PDMIO20SG1 | DRILL | POWER | 2x14x68x2, 3XD,SPECIAL | 5 | \$185.71 | \$113.92 |



2 FLUTE - 3XD CUT LENGTH - SOLID CARBIDE - TiAlN COATING - METRIC

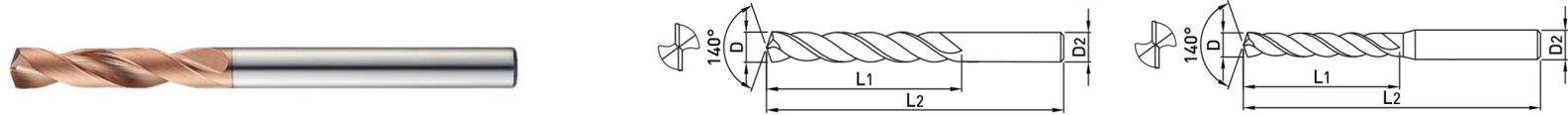
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------|-------|--------|------------------|------|----------|----------------|
| PDS047 | DRILL | POWER | D4.7 x 26/62-5 | 8 | \$45.23 | \$27.75 |
| PDS051 | DRILL | POWER | D5.1 x 28/66-6 | 5 | \$55.16 | \$33.84 |
| PDS072 | DRILL | POWER | D7.2 x 40/79-8 | 7 | \$76.14 | \$46.71 |
| PDS076 | DRILL | POWER | D7.6 x 40/79-8 | 3 | \$76.14 | \$46.71 |
| PDS104 | DRILL | POWER | D10.4 x 51/95-11 | 2 | \$114.76 | \$70.41 |



2 FLUTE - 3XD CUT LENGTH - INTERNAL COOLANT - TiAlN COATING - METRIC

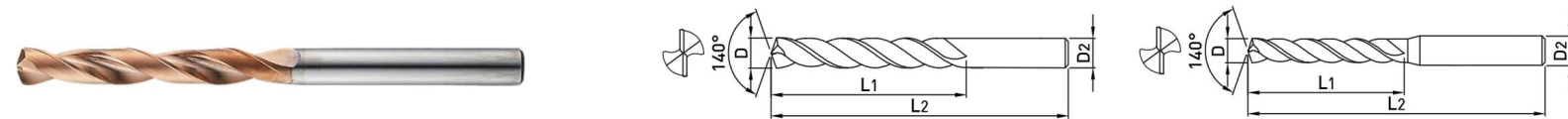
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------|-------|--------|----------------|------|---------|----------------|
| PDSIO33 | DRILL | POWER | D3.3 x 20/60-4 | 10 | \$67.72 | \$41.55 |
| PDSIO44 | DRILL | POWER | D4.4 x 26/62-5 | 1 | \$67.72 | \$41.55 |
| PDSIO57 | DRILL | POWER | D5.7x30/66-6 | 1 | \$67.72 | \$41.55 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|-----------|-----------|--|------|------------|-----------------|
| PEF10238 | CENT-TOOL | CENT-TOOL | 3/32'X3/16''X1-1/2''X1/8'' 1FL.,SQ.,PCD Flat Endmill | 1 | \$154.50 | \$94.78 |
| PEF20476 | CENT-TOOL | CENT-TOOL | 3/16'X1/4'X2'X3/16' 2FL., 1FL.,SQ.,PCD Flat Endmill | 1 | \$154.50 | \$94.78 |
| PEF21270 | CENT-TOOL | CENT-TOOL | 1/2'X1/4''X3''X1/2'' 2FL.,SQ.,PCD Flat Endmill | 1 | \$110.92 | \$68.05 |
| PEF21905 | CENT-TOOL | CENT-TOOL | IN 3/4'X3/8'X4'X3/4' 2FL.,SQ.,PCD Flat Endmill | 1 | \$1,014.00 | \$622.06 |



2 FLUTE - 3XD CUT LENGTH - SOLID CARBIDE - TiAlN+HH COATING - METRIC & INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|-------|-----------|---------------------|------|----------|-----------------|
| PF503037 | DRILL | POWER MAX | D3.7 x 22/60-4 | 14 | \$45.05 | \$27.65 |
| PF503040 | DRILL | POWER MAX | D4.0 x 24/60-4 | 16 | \$45.05 | \$27.65 |
| PF50305558 | DRILL | POWER MAX | D5.558 x 30/66-6 | 13 | \$62.66 | \$38.44 |
| PF503056 | DRILL | POWER MAX | D5.6 x 30/66-6 | 6 | \$62.66 | \$38.44 |
| PF50305953 | DRILL | POWER MAX | D5.953x 30/66-6 | 10 | \$62.66 | \$38.44 |
| PF503062 | DRILL | POWER MAX | D6.2 x 34/74-7 | 5 | \$77.70 | \$47.67 |
| PF503063 | DRILL | POWER MAX | D6.3 x 34/74-7 | 11 | \$77.70 | \$47.67 |
| PF503084 | DRILL | POWER MAX | D8.4 x 43/84-9 | 8 | \$91.47 | \$56.11 |
| PF503088 | DRILL | POWER MAX | D8.8 x 43/84-9 | 21 | \$91.47 | \$56.11 |
| PF503105 | DRILL | POWER MAX | D10.5 x 51/95-11 | 3 | \$126.54 | \$77.62 |
| PF50313494 | DRILL | POWER MAX | D13.494 x 60/107-14 | 6 | \$204.39 | \$125.39 |



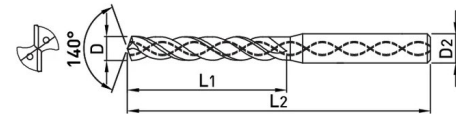
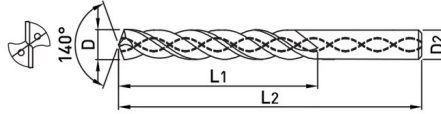
2 FLUTE - 5XD CUT LENGTH - SOLID CARBIDE - TiAlN+HH COATING - METRIC & INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|-------|-----------|---------------------|------|----------|-----------------|
| PF505049 | DRILL | POWER MAX | D4.9 x 39/71-5 | 6 | \$65.16 | \$39.98 |
| PF505064 | DRILL | POWER MAX | D6.4 x 47/87-7 | 12 | \$98.00 | \$60.12 |
| PF505065 | DRILL | POWER MAX | D6.5x 47/87-7 | 3 | \$98.00 | \$60.12 |
| PF505071 | DRILL | POWER MAX | D7.1 x 52/92-8 | 5 | \$109.29 | \$67.05 |
| PF505073 | DRILL | POWER MAX | D7.3x 52/92-8 | 5 | \$109.29 | \$67.05 |
| PF50507541 | DRILL | POWER MAX | D7.541x 52/92-8 | 13 | \$109.29 | \$67.05 |
| PF505088 | DRILL | POWER MAX | D8.8 x 56/96-9 | 6 | \$124.07 | \$76.11 |
| PF505100 | DRILL | POWER MAX | D10.0 x 62/105-10 | 3 | \$138.44 | \$84.92 |
| PF505108 | DRILL | POWER MAX | D10.8 x 68/115-11 | 7 | \$160.11 | \$98.22 |
| PF50511908 | DRILL | POWER MAX | D11.908x 71/121-12 | 9 | \$188.83 | \$115.84 |
| PF50513891 | DRILL | POWER MAX | D13.891 x 80/134-14 | 10 | \$289.33 | \$177.50 |



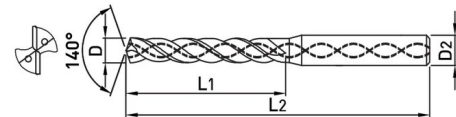
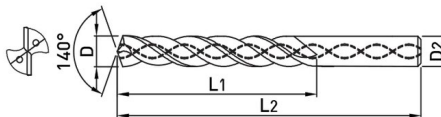
2 FLUTE - 5XD CUT LENGTH - SOLID CARBIDE - TiAlN+HH COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|-------|-----------|----------------------------|------|----------|-----------------|
| HPI505033 | DRILL | POWER MAX | D3.3x30/66-6,5XD | 8 | \$104.32 | \$64.01 |
| HPI505038 | DRILL | POWER MAX | D3.8 x 36/74-6,5XD | 9 | \$104.32 | \$64.01 |
| HPI505090 | DRILL | POWER MAX | D9.0 x 61/103-10,5XD | 23 | \$189.07 | \$115.99 |
| HPI50509703 | DRILL | POWER MAX | D9.703 x 61/103-10,5XD | 4 | \$183.57 | \$112.61 |
| HPI505175 | DRILL | POWER MAX | D17.5 x 93/143-18,5XD | 14 | \$493.76 | \$302.91 |
| HPI505189 | DRILL | POWER MAX | D18.9 x 101/153-20,5XD,5XD | 1 | \$648.21 | \$397.65 |



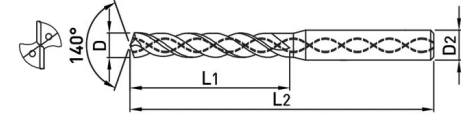
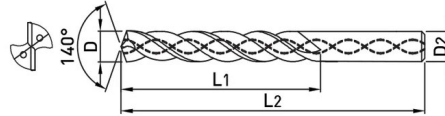
2 FLUTE - 3XD CUT LENGTH - SOLID CARBIDE - TiAlN+HH COATING - METRIC & INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|-------|-----------|---------------------|------|----------|-----------------|
| SF503031 | DRILL | POWER MAX | D3.1 x 20/60-4 | 34 | \$73.25 | \$44.95 |
| SF503032 | DRILL | POWER MAX | D3.2 x 20/60-4 | 4 | \$73.25 | \$44.95 |
| SF503033 | DRILL | POWER MAX | D3.3 x 20/60-4 | 5 | \$73.25 | \$44.95 |
| SF503034 | DRILL | POWER MAX | D3.4 x 22/60-4 | 8 | \$73.25 | \$44.95 |
| SF503044 | DRILL | POWER MAX | D4.4 x 26/62-5 | 8 | \$73.25 | \$44.95 |
| SF503055 | DRILL | POWER MAX | D5.5 x 28/66-6 | 509 | \$73.25 | \$44.95 |
| SF503056 | DRILL | POWER MAX | D5.6 x 30/66-6 | 16 | \$73.25 | \$44.95 |
| SF50305953 | DRILL | POWER MAX | D5.953 x 30/66-6 | 15 | \$73.25 | \$44.95 |
| SF503082 | DRILL | POWER MAX | D8.2 x 43/84-9 | 10 | \$128.16 | \$78.63 |
| SF503086 | DRILL | POWER MAX | D8.6 x 43/84-9 | 28 | \$128.16 | \$78.63 |
| SF503090 | DRILL | POWER MAX | D9.0 x 43/84-9 | 89 | \$128.16 | \$78.63 |
| SF503092 | DRILL | POWER MAX | D9.2 x 47/89-10 | 3 | \$146.46 | \$89.85 |
| SF50309921 | DRILL | POWER MAX | D9.921 x 47/89-10 | 6 | \$142.20 | \$87.24 |
| SF503103 | DRILL | POWER MAX | D10.3 x 51/95-11 | 7 | \$171.83 | \$105.41 |
| SF5031032 | DRILL | POWER MAX | D10.32 x 51/95-11 | 22 | \$171.83 | \$105.41 |
| SF503111 | DRILL | POWER MAX | D11.1 x 54/102-12 | 3 | \$191.57 | \$117.52 |
| SF503115 | DRILL | POWER MAX | D11.5 x 54/102-12 | 12 | \$191.57 | \$117.52 |
| SF503118 | DRILL | POWER MAX | D11.8 x 54/102-12 | 8 | \$191.57 | \$117.52 |
| SF503119 | DRILL | POWER MAX | D11.9 x 54/102-12 | 3 | \$191.57 | \$117.52 |
| SF503129 | DRILL | POWER MAX | D12.9 x 57/102-13 | 4 | \$225.16 | \$138.13 |
| SF503139 | DRILL | POWER MAX | D13.9 x 60/107-14 | 6 | \$272.56 | \$167.21 |
| SF50314288 | DRILL | POWER MAX | D14.288 x 62/111-15 | 3 | \$312.06 | \$191.44 |
| SF503147 | DRILL | POWER MAX | D14.7 x 62/111-15 | 4 | \$312.06 | \$191.44 |
| SF50316667 | DRILL | POWER MAX | D16.667 x 66/119-17 | 7 | \$404.88 | \$248.37 |
| SF503170 | DRILL | POWER MAX | D17.0x66/119-17 | 3 | \$404.88 | \$248.37 |



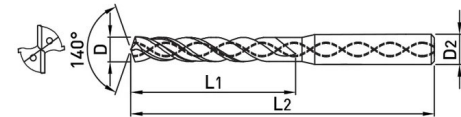
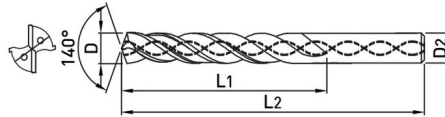
2 FLUTE - 5XD CUT LENGTH - INTERNAL COOLANT - TiAlN+HH COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|-------|-----------|---|------|----------|-----------------|
| SF505034 | DRILL | POWER MAX | D3.4 x 30/74-4 | 3 | \$81.38 | \$49.92 |
| SF50503572 | DRILL | POWER MAX | D3.572 x 30/74-4 | 14 | \$81.38 | \$49.92 |
| SF505044 | DRILL | POWER MAX | D4.4 x 36/80-5 | 8 | \$81.38 | \$49.92 |
| SF505078 | DRILL | POWER MAX | D7.8 x 52/103-8 | 54 | \$134.26 | \$82.37 |
| SF50512304 | DRILL | POWER MAX | D12.304 x 75/137-13 | 5 | \$316.01 | \$193.86 |
| SF505168-18 | DRILL | POWER MAX | MM 16.8x95x155x18, 5XD Med L. Oil Hole, SPECIAL | 2 | \$553.48 | \$339.54 |



2 FLUTE - 3XD CUT LENGTH - SOLID CARBIDE - TiALN+HH COATING - METRIC & INCH

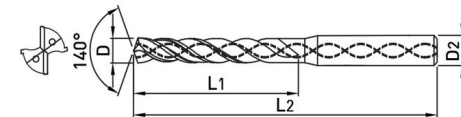
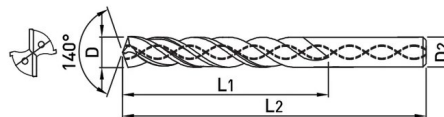
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|-------|-----------|--------------------|------|----------|-----------------|
| SF508035 | DRILL | POWER MAX | D3.5x43/80-4 | 7 | \$117.57 | \$72.12 |
| SF508047 | DRILL | POWER MAX | D4.7x49/87-5 | 19 | \$120.37 | \$73.84 |
| SF508050 | DRILL | POWER MAX | D5.0x56/94-5 | 19 | \$127.20 | \$78.03 |
| SF508051 | DRILL | POWER MAX | D5.1x56/94-6 | 18 | \$132.42 | \$81.24 |
| SF50805159 | DRILL | POWER MAX | D5.159x56/94-6 | 23 | \$132.42 | \$81.24 |
| SF508057 | DRILL | POWER MAX | D5.7x56/94-6 | 4 | \$132.42 | \$81.24 |
| SF508058 | DRILL | POWER MAX | D5.8x56/94-6 | 7 | \$132.42 | \$81.24 |
| SF508059 | DRILL | POWER MAX | D5.9x56/94-6 | 2 | \$132.42 | \$81.24 |
| SF508068 | DRILL | POWER MAX | D6.8x67/105-7 | 12 | \$160.09 | \$98.22 |
| SF50807541 | DRILL | POWER MAX | D7.541x76/116-8 | 12 | \$176.55 | \$108.32 |
| SF508081 | DRILL | POWER MAX | D8.1x87/131-9 | 2 | \$283.03 | \$173.63 |
| SF508088 | DRILL | POWER MAX | D8.8x87/131-9 | 4 | \$283.03 | \$173.63 |
| SF50809921 | DRILL | POWER MAX | D9.921x95/139-10 | 10 | \$296.80 | \$182.08 |
| SF508107 | DRILL | POWER MAX | D10.7x106/155-11 | 8 | \$337.13 | \$206.82 |
| SF508110 | DRILL | POWER MAX | D11.0x106/155-11 | 8 | \$337.13 | \$206.82 |
| SF508129 | DRILL | POWER MAX | D12.9x133/182-13 | 2 | \$436.68 | \$267.88 |
| SF50814288 | DRILL | POWER MAX | D14.288x152/204-15 | 22 | \$611.00 | \$374.83 |
| SF508175 | DRILL | POWER MAX | D17.5x171/223-18 | 4 | \$878.18 | \$538.73 |



2 FLUTE - 10XD CUT LENGTH - INTERNAL COOLANT - TiALN+HH COATING - METRIC

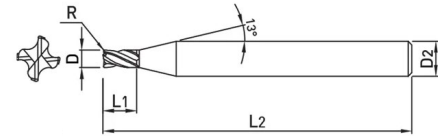
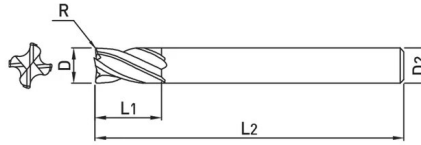
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|-------|-----------|------------------|------|----------|-----------------|
| SF510031 | DRILL | POWER MAX | D3.1 x 46/94-4 | 14 | \$122.06 | \$74.88 |
| SF510032 | DRILL | POWER MAX | D3.2 x 46/94-4 | 3 | \$122.06 | \$74.88 |
| SF510048 | DRILL | POWER MAX | D4.8 x 66/117-5 | 1 | \$152.57 | \$93.60 |
| SF510062 | DRILL | POWER MAX | D6.2 x 85/138-7 | 1 | \$231.91 | \$142.26 |
| SF510087 | DRILL | POWER MAX | D8.7 x 118/173-9 | 1 | \$382.45 | \$234.63 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|-------|-----------|--|------|----------|-----------------|
| SF516060SG1 | DRILL | POWER MAX | D6.0x120/160-6 | 10 | \$662.46 | \$406.40 |
| SF5160635 | DRILL | POWER MAX | 6.35X124X175X8 ,2FLUTE,Tialn-HH,16XD DRILL | 4 | \$303.14 | \$185.96 |
| SF516080 | DRILL | POWER MAX | 8X140X192X8 ,2FLUTE,Tialn-HH,16XD DRILL | 6 | \$369.82 | \$226.88 |
| SF51609525 | DRILL | POWER MAX | 9.525X165X224X10 ,2FLUTE,Tialn-HH,16XD DRILL | 2 | \$458.10 | \$281.03 |
| SF516100 | DRILL | POWER MAX | 10X165X224X10 ,2FLUTE,Tialn-HH,16XD DRILL | 4 | \$490.90 | \$301.15 |



2 FLUTE - 20XD CUT LENGTH - INTERNAL COOLANT - TiALN+HH COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|-------|-----------|------------------|------|----------|-----------------|
| SF520044 | DRILL | POWER MAX | D4.4 x 104/155-5 | 2 | \$244.11 | \$149.75 |
| SF520050 | DRILL | POWER MAX | D5.0 x 116/167-5 | 4 | \$260.39 | \$159.75 |
| SF520054 | DRILL | POWER MAX | D5.4 x 127/178-6 | 1 | \$335.64 | \$205.90 |
| SF520088 | DRILL | POWER MAX | D8.8 x 208/263-9 | 2 | \$484.17 | \$297.02 |



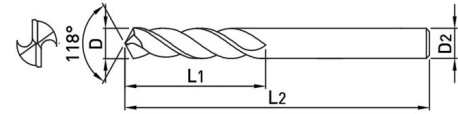
CHAMFER - 4 FLUTE with RADIUS - REGULAR LENGTH - TiALN+SH - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|----------|--------------------------|------|---------|----------------|
| SM504070 | END MILL | SUS-WAVE | 4F D7.0 x R0.2 x 16/60-8 | 2 | \$84.10 | \$51.59 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|--------------------------|------|---------|----------------|
| SR50206005SE1 | END MILL | S-WING | 2F D0.6xR0.05x0.7/2/50-6 | 1 | \$75.66 | \$46.42 |



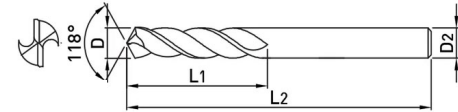
2 FLUTE - JOBBER LENGTH - SOLID CARBIDE - BRIGHT - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------|-------|--------------------|----------------|------|---------|----------------|
| SSD022 | DRILL | SOLID SPIRAL DRILL | D2.2x16/45-2.2 | 3 | \$16.36 | \$10.04 |
| SSD034 | DRILL | SOLID SPIRAL DRILL | D3.4x25/50-3.4 | 22 | \$17.55 | \$10.78 |
| SSD056 | DRILL | SOLID SPIRAL DRILL | D5.6x38/75-5.6 | 10 | \$40.61 | \$24.91 |
| SSD057 | DRILL | SOLID SPIRAL DRILL | D5.7x38/75-5.7 | 4 | \$40.61 | \$24.91 |
| SSD070 | DRILL | SOLID SPIRAL DRILL | D7.0x45/80-7 | 5 | \$51.48 | \$31.57 |
| SSD085 | DRILL | SOLID SPIRAL DRILL | D8.5x50/85-8.5 | 9 | \$68.08 | \$41.76 |
| SSD086 | DRILL | SOLID SPIRAL DRILL | D8.6x50/95-8.6 | 5 | \$73.90 | \$45.34 |



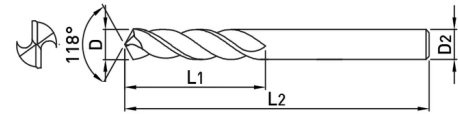
2 FLUTE - 8XD CUT LENGTH - SOLID CARBIDE - BRIGHT - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------|-------|--------------------|------------------|------|----------|----------------|
| SSDL027 | DRILL | SOLID SPIRAL DRILL | D2.7 x 35/70-2.7 | 16 | \$35.45 | \$21.76 |
| SSDL028 | DRILL | SOLID SPIRAL DRILL | D2.8 x 35/70-2.8 | 5 | \$35.45 | \$21.76 |
| SSDL035 | DRILL | SOLID SPIRAL DRILL | D3.5x42/73-3.5 | 10 | \$35.45 | \$21.76 |
| SSDL044 | DRILL | SOLID SPIRAL DRILL | D4.4x54/85-4.4 | 5 | \$39.77 | \$24.40 |
| SSDL058 | DRILL | SOLID SPIRAL DRILL | D5.8x66/100-5.8 | 5 | \$58.47 | \$35.87 |
| SSDL096 | DRILL | SOLID SPIRAL DRILL | D9.6x90/130-9.6 | 3 | \$116.04 | \$71.18 |

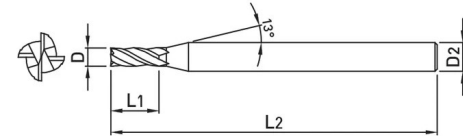
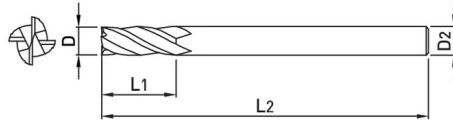


2 FLUTE - JOBBER LENGTH CUT LENGTH - SOLID CARBIDE - TIN COATING - METRIC

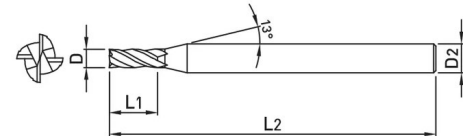
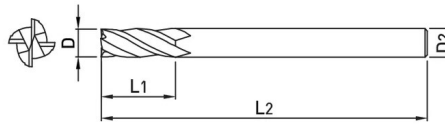


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------|-------|--------------------|----------------|------|---------|----------------|
| SSTD073 | DRILL | SOLID SPIRAL DRILL | D7.3x45/80-7.3 | 4 | \$57.19 | \$35.09 |
| SSTD090 | DRILL | SOLID SPIRAL DRILL | D9.0x50/95-9 | 2 | \$73.90 | \$45.34 |

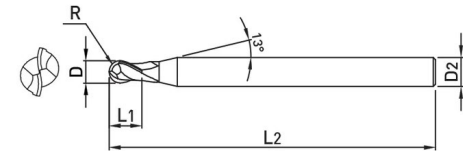
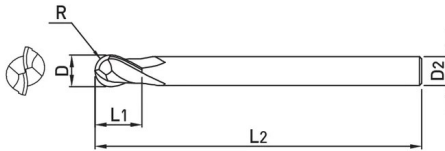
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------------|----------|----------------------|-------------------------------|------|----------|----------------|
| TPRB4025-16-100 | END MILL | ZAMUS CLASSIC-METRIC | 4F R1.25x16/50-4 1° | 15 | \$106.07 | \$65.07 |
| TPRB604A-0060-05 | END MILL | ZAMUS CLASSIC-METRIC | 4F D.060"x.420"/3"-3/16" 0.5° | 19 | \$134.67 | \$82.61 |



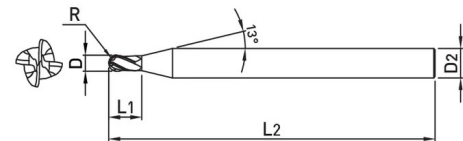
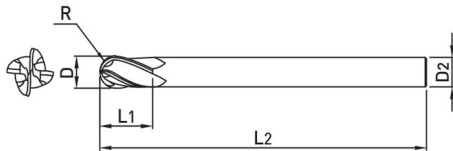
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|---------------|---------------------|------|----------|-----------------|
| TX204160 | END MILL | ZAMUS THUNDER | 4F D16.0 x 32/89-16 | 5 | \$166.88 | \$102.37 |



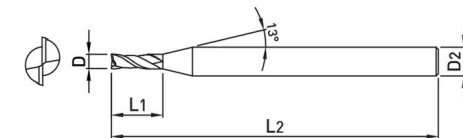
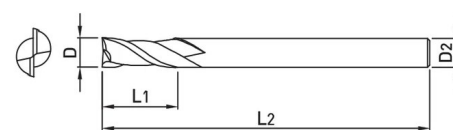
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|---------------|-------------------|------|---------|----------------|
| TX224040 | END MILL | ZAMUS THUNDER | 4F D4.0 x 20/60-4 | 6 | \$33.39 | \$20.49 |



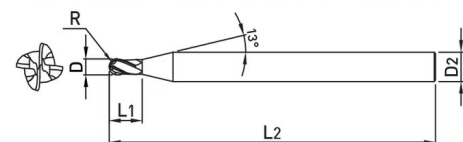
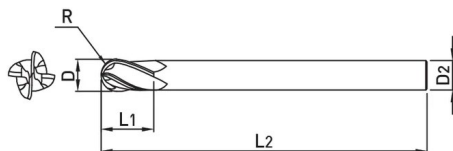
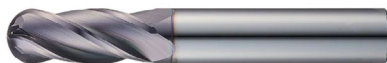
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|---------------|-------------------|------|---------|----------------|
| TXB202050 | END MILL | ZAMUS THUNDER | 2F R2.5 x 16/51-5 | 21 | \$31.66 | \$19.43 |



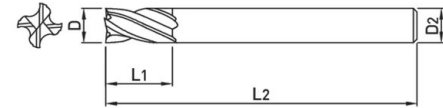
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|---------------|-------------------|------|---------|----------------|
| TXB204050 | END MILL | ZAMUS THUNDER | 4F R2.5 x 16/51-5 | 5 | \$33.10 | \$20.31 |



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|---------------|------------------|------|---------|----------------|
| TXB302020 | END MILL | ZAMUS THUNDER | 2F R1.0 x 4/50-4 | 5 | \$22.00 | \$13.50 |

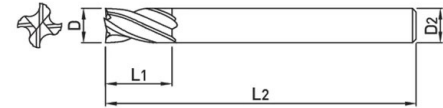


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|---------------|--------------------|------|---------|----------------|
| TXB304020 | END MILL | ZAMUS THUNDER | 4F R1.0 x 4/50-4 | 15 | \$25.27 | \$15.50 |
| TXB304120F | END MILL | ZAMUS THUNDER | 4F R6.0 x 22/75-12 | 55 | \$99.99 | \$61.35 |



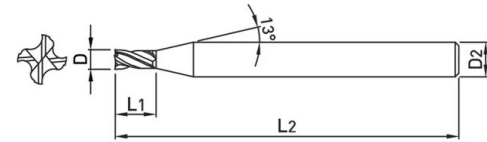
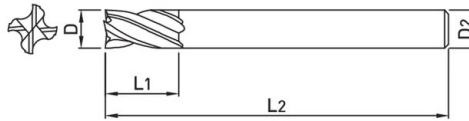
BALL NOSE - 4 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|------------------------------|------|----------|----------------|
| VXB504A018 | END MILL | V-STAR | 4F D9/32"x5/8"/2-1/2"-5/16" | 13 | \$71.45 | \$43.84 |
| VXB504A028 | END MILL | V-STAR | 4F D7/16"x5/8"/2-1/2"-7/16" | 10 | \$109.87 | \$67.40 |
| VXB504A032N | END MILL | V-STAR | 4F D1/2"x5/8"/1-1/8"/4"-1/2" | 29 | \$160.53 | \$98.48 |



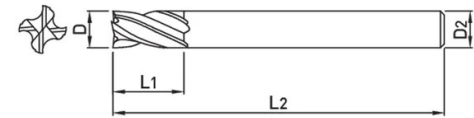
BALL NOSE - 4 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|--------|-----------------------------|------|----------|-----------------|
| VXB514A012 | END MILL | V-STAR | 4F D3/16"x5/16"/2"-3/16" | 26 | \$45.27 | \$27.77 |
| VXB514A014 | END MILL | V-STAR | 4F D7/32"x7/16"/2-1/2"-1/4" | 16 | \$56.17 | \$34.46 |
| VXB514A048 | END MILL | V-STAR | 4F D3/4"x1-1/2"/4"-3/4" | 13 | \$415.86 | \$255.12 |



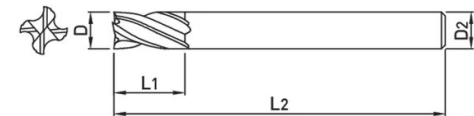
SQUARE - 4 FLUTE - STANDARD & LONG LENGTH END MILLS WITHOUT REACH - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|------------------------------|------|----------|-----------------|
| VXE504035 | END MILL | V-STAR | 4F D3.5x10/55-6 | 15 | \$39.86 | \$24.46 |
| VXE504055 | END MILL | V-STAR | 4F D5.5x15/60-6 | 10 | \$40.76 | \$25.01 |
| VXE504A040N | END MILL | V-STAR | 4F D5/8"x3/4"/1-5/8"/4"-5/8" | 17 | \$212.83 | \$130.57 |



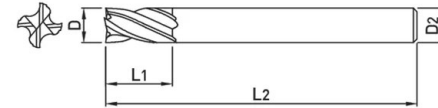
SQUARE - 6 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|--------|-----------------------------|------|---------|----------------|
| VXE506A020 | END MILL | V-STAR | 6F D5/16"x3/4"/2-1/2"-5/16" | 53 | \$64.88 | \$39.79 |



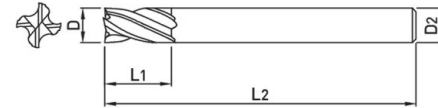
SQUARE - 6 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|--------|---------------------------|------|----------|-----------------|
| VXE516A020 | END MILL | V-STAR | 6F D5/16"x1-1/4"/3"-5/16" | 52 | \$78.65 | \$48.26 |
| VXE516A048 | END MILL | V-STAR | 6F D3/4"x1-1/2"/4"-3/4" | 18 | \$366.71 | \$224.96 |



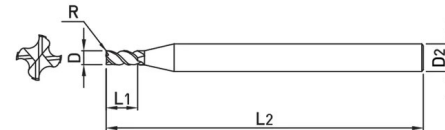
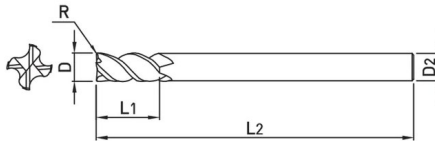
SQUARE - 6 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|--------|-----------------------------|------|----------|-----------------|
| VXE526A032S | END MILL | V-STAR | 6F D1/2"x1-1/4"/3-1/2"-1/2" | 72 | \$157.96 | \$96.91 |
| VXE526A032SF | END MILL | V-STAR | 6F D1/2"x1-1/4"/3-1/2"-1/2" | 50 | \$160.41 | \$98.40 |
| VXE526A048 | END MILL | V-STAR | 6F D3/4"x1-7/8"/5"-3/4" | 18 | \$440.30 | \$270.11 |



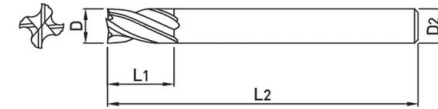
SQUARE - 6 FLUTE WITH WELDON FLAT - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|---------------------|------|------------|-----------------|
| VXE546A064F | END MILL | V-STAR | 6F D1"x4-1/4"/7"-1" | 9 | \$1,200.90 | \$736.72 |



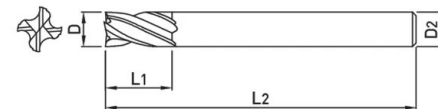
CORNER RADIUS - 4 FLUTE - STANDARD & LONG LENGTH END MILLS WITHOUT REACH - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|------------------------|------|----------|----------------|
| VXR504050 | END MILL | V-STAR | 4F D5.0xR0.2x15/55-6 | 8 | \$49.86 | \$30.59 |
| VXR50412010 | END MILL | V-STAR | 4F D12.0xR1.0x30/80-12 | 19 | \$105.36 | \$64.64 |



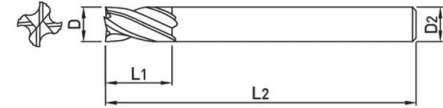
CORNER RADIUS - 4 FLUTE - EXTENDED LENGTH END MILLS - NECKED WITH REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|--------|-------------------------------------|------|---------|----------------|
| VXR504A024060N | END MILL | V-STAR | 4F D3/8"xR.060"x1/2"/1-1/8"/4"-3/8" | 10 | \$93.77 | \$57.52 |



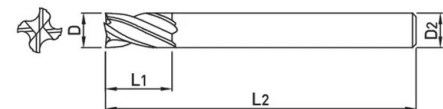
CORNER RADIUS - 4 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|----------------------------------|------|----------|-----------------|
| VXR504A032015 | END MILL | V-STAR | 4F D1/2"xR.015"x5/8"/2-1/2"-1/2" | 71 | \$110.00 | \$67.48 |
| VXR504A032030 | END MILL | V-STAR | 4F D1/2"xR.030"x5/8"/2-1/2"-1/2" | 119 | \$110.00 | \$67.48 |
| VXR504A040015 | END MILL | V-STAR | 4F D5/8"xR.015"x3/4"/3"-5/8" | 39 | \$185.48 | \$113.78 |
| VXR504A040030 | END MILL | V-STAR | 4F D5/8"xR.030"x3/4"/3"-5/8" | 22 | \$185.48 | \$113.78 |
| VXR504A048015 | END MILL | V-STAR | 4F D3/4"xR.015"x3/4"/3"-3/4" | 8 | \$243.34 | \$149.28 |



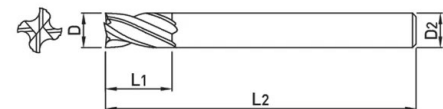
CORNER RADIUS - 6 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|----------------------------------|------|----------|-----------------|
| VXR506A024030 | END MILL | V-STAR | 6F D3/8"xR.030"x5/8"/2-1/2"-3/8" | 14 | \$84.97 | \$52.12 |
| VXR506A032015 | END MILL | V-STAR | 6F D1/2"xR.015"x5/8"/3"-1/2" | 29 | \$144.21 | \$88.46 |
| VXR506A032030 | END MILL | V-STAR | 6F D1/2"xR.030"x5/8"/3"-1/2" | 14 | \$144.21 | \$88.46 |
| VXR506A048060 | END MILL | V-STAR | 6F D3/4"xR.060"x1"/3-1/2"-3/4" | 21 | \$340.43 | \$208.85 |
| VXR506A048090 | END MILL | V-STAR | 6F D3/4"xR.090"x1"/3-1/2"-3/4" | 20 | \$340.43 | \$208.85 |
| VXR506A048250 | END MILL | V-STAR | 6F D3/4"xR.250"x1"/3-1/2"-3/4" | 15 | \$340.43 | \$208.85 |
| VXR506A064015 | END MILL | V-STAR | 6F D1"xR.015"x1-1/2"/4"-1" | 4 | \$683.24 | \$419.14 |
| VXR506A064030 | END MILL | V-STAR | 6F D1"xR.030"x1-1/2"/4"-1" | 5 | \$683.24 | \$419.14 |
| VXR506A064060 | END MILL | V-STAR | 6F D1"xR.060"x1-1/2"/4"-1" | 4 | \$683.24 | \$419.14 |
| VXR506A064090 | END MILL | V-STAR | 6F D1"xR.090"x1-1/2"/4"-1" | 4 | \$683.24 | \$419.14 |
| VXR506A064125 | END MILL | V-STAR | 6F D1"xR.125"x1-1/2"/4"-1" | 6 | \$683.24 | \$419.14 |
| VXR506A064190 | END MILL | V-STAR | 6F D1"xR.190"x1-1/2"/4"-1" | 5 | \$683.24 | \$419.14 |
| VXR506A064250 | END MILL | V-STAR | 6F D1"xR.250"x1-1/2"/4"-1" | 5 | \$683.24 | \$419.14 |



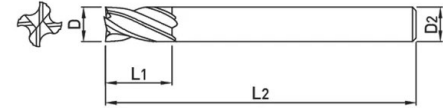
CORNER RADIUS - 4 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|--------|--------------------------------------|------|----------|-----------------|
| VXR514A010010 | END MILL | V-STAR | 4F D5/32"xR.010"x7/16"/2"-3/16" | 18 | \$36.77 | \$22.56 |
| VXR514A012010N | END MILL | V-STAR | 4F D3/16"xR.010"x7/32"/3/4"/3"-3/16" | 25 | \$40.10 | \$24.60 |
| VXR514A018015 | END MILL | V-STAR | 4F D9/32"xR.015"x1"/3"-5/16" | 49 | \$65.56 | \$40.22 |
| VXR514A020060 | END MILL | V-STAR | 4F D5/16"xR.060"x13/16"/2-1/2"-5/16" | 11 | \$56.77 | \$34.82 |
| VXR514A032010F | END MILL | V-STAR | 4F D1/2"xR.010"x1"/3"-1/2" | 22 | \$127.05 | \$77.95 |
| VXR514A040125N | END MILL | V-STAR | 4F D5/8"xR.125"x3/4"/2-3/8"/5"-5/8" | 10 | \$273.54 | \$167.80 |
| VXR514A048030F | END MILL | V-STAR | 4F D3/4"xR.030"x1-1/2"/4"-3/4" | 9 | \$331.25 | \$203.22 |
| VXR514A048060 | END MILL | V-STAR | 4F D3/4"xR.060"x1-1/2"/4"-3/4" | 24 | \$328.30 | \$201.40 |



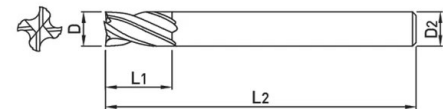
CORNER RADIUS - 6 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|--------|--------------------------------|------|----------|-----------------|
| VXR516A032030F | END MILL | V-STAR | 6F D1/2"xR.030"x1"/3"-1/2" | 48 | \$151.91 | \$93.19 |
| VXR516A048250 | END MILL | V-STAR | 6F D3/4"xR.250"x1-1/2"/4"-3/4" | 15 | \$393.97 | \$241.69 |
| VXR516A064015 | END MILL | V-STAR | 6F D1"xR.015"x2"/5"-1" | 13 | \$835.02 | \$512.27 |
| VXR516A064030 | END MILL | V-STAR | 6F D1"xR.030"x2"/5"-1" | 17 | \$835.02 | \$512.27 |
| VXR516A064060 | END MILL | V-STAR | 6F D1"xR.060"x2"/5"-1" | 14 | \$835.02 | \$512.27 |
| VXR516A064090 | END MILL | V-STAR | 6F D1"xR.090"x2"/5"-1" | 18 | \$835.02 | \$512.27 |
| VXR516A064125 | END MILL | V-STAR | 6F D1"xR.125"x2"/5"-1" | 18 | \$835.02 | \$512.27 |
| VXR516A064190 | END MILL | V-STAR | 6F D1"xR.190"x2"/5"-1" | 4 | \$835.02 | \$512.27 |
| VXR516A064250 | END MILL | V-STAR | 6F D1"xR.250"x2"/5"-1" | 5 | \$835.02 | \$512.27 |



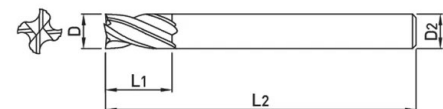
CORNER RADIUS - 4 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|--------|------------------------------------|------|----------|-----------------|
| VXR524A020015 | END MILL | V-STAR | 4F D5/16"xR.015"x1-1/4"/3"-5/16" | 27 | \$68.82 | \$42.23 |
| VXR524A024060 | END MILL | V-STAR | 4F D3/8"xR.060"x1"/3"-3/8" | 49 | \$81.47 | \$49.98 |
| VXR524A032030F | END MILL | V-STAR | 4F D1/2"xR.030"x1-1/4"/3-1/4"-1/2" | 57 | \$139.39 | \$85.52 |
| VXR524A032090 | END MILL | V-STAR | 4F D1/2"xR.090"x1-1/4"/3-1/4"-1/2" | 35 | \$136.64 | \$83.82 |
| VXR524A040015 | END MILL | V-STAR | 4F D5/8"xR.015"x1-5/8"/4"-5/8" | 30 | \$251.82 | \$154.49 |
| VXR524A040030 | END MILL | V-STAR | 4F D5/8"xR.030"x1-5/8"/4"-5/8" | 47 | \$251.82 | \$154.49 |
| VXR524A040060 | END MILL | V-STAR | 4F D5/8"xR.060"x1-5/8"/4"-5/8" | 24 | \$251.82 | \$154.49 |
| VXR524A064030F | END MILL | V-STAR | 4F D1"xR.030"x2"/5"-1" | 28 | \$698.86 | \$428.73 |



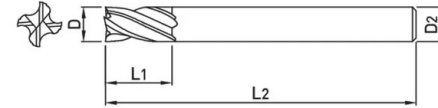
CORNER RADIUS - 6 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------------|----------|--------|------------------------------------|------|----------|-----------------|
| VXR526A016030 | END MILL | V-STAR | 6F D1/4"xR.030"x1"/3"-1/4" | 28 | \$63.07 | \$38.69 |
| VXR526A016060 | END MILL | V-STAR | 6F D1/4"xR.060"x1"/3"-1/4" | 28 | \$63.07 | \$38.69 |
| VXR526A032015S | END MILL | V-STAR | 6F D1/2"xR.015"x1-1/4"/3-1/2"-1/2" | 68 | \$169.90 | \$104.23 |
| VXR526A032030S | END MILL | V-STAR | 6F D1/2"xR.030"x1-1/4"/3-1/2"-1/2" | 16 | \$169.90 | \$104.23 |
| VXR526A032030SF | END MILL | V-STAR | 6F D1/2"xR.030"x1-1/4"/3-1/2"-1/2" | 35 | \$172.53 | \$105.84 |
| VXR526A032060S | END MILL | V-STAR | 6F D1/2"xR.060"x1-1/4"/3-1/2"-1/2" | 30 | \$169.90 | \$104.23 |
| VXR526A032090S | END MILL | V-STAR | 6F D1/2"xR.090"x1-1/4"/3-1/2"-1/2" | 30 | \$169.90 | \$104.23 |
| VXR526A032125S | END MILL | V-STAR | 6F D1/2"xR.125"x1-1/4"/3-1/2"-1/2" | 30 | \$169.90 | \$104.23 |
| VXR526A040015 | END MILL | V-STAR | 6F D5/8"xR.015"x3"/5"-5/8" | 23 | \$386.38 | \$237.02 |
| VXR526A048015 | END MILL | V-STAR | 6F D3/4"xR.015"x1-7/8"/5"-3/4" | 21 | \$473.05 | \$290.21 |
| VXR526A048060 | END MILL | V-STAR | 6F D3/4"xR.060"x1-7/8"/5"-3/4" | 21 | \$473.05 | \$290.21 |
| VXR526A048090 | END MILL | V-STAR | 6F D3/4"xR.090"x1-7/8"/5"-3/4" | 14 | \$473.05 | \$290.21 |
| VXR526A048125 | END MILL | V-STAR | 6F D3/4"xR.125"x1-7/8"/5"-3/4" | 18 | \$473.05 | \$290.21 |
| VXR526A048190 | END MILL | V-STAR | 6F D3/4"xR.190"x1-7/8"/5"-3/4" | 20 | \$473.05 | \$290.21 |
| VXR526A048250 | END MILL | V-STAR | 6F D3/4"xR.250"x1-7/8"/5"-3/4" | 18 | \$473.05 | \$290.21 |
| VXR526A064015 | END MILL | V-STAR | 6F D1"xR.015"x2-5/8"/5"-1" | 5 | \$889.67 | \$545.78 |
| VXR526A064030 | END MILL | V-STAR | 6F D1"xR.030"x2-5/8"/5"-1" | 5 | \$889.67 | \$545.78 |
| VXR526A064060 | END MILL | V-STAR | 6F D1"xR.060"x2-5/8"/5"-1" | 5 | \$889.67 | \$545.78 |
| VXR526A064090 | END MILL | V-STAR | 6F D1"xR.090"x2-5/8"/5"-1" | 4 | \$889.67 | \$545.78 |
| VXR526A064125 | END MILL | V-STAR | 6F D1"xR.125"x2-5/8"/5"-1" | 5 | \$889.67 | \$545.78 |
| VXR526A064190 | END MILL | V-STAR | 6F D1"xR.190"x2-5/8"/5"-1" | 4 | \$889.67 | \$545.78 |
| VXR526A064250 | END MILL | V-STAR | 6F D1"xR.250"x2-5/8"/5"-1" | 6 | \$889.67 | \$545.78 |



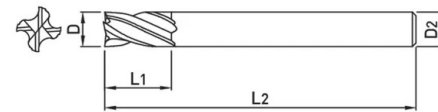
CORNER RADIUS - 4 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|--------|------------------------------------|------|----------|-----------------|
| VXR534A032010F | END MILL | V-STAR | 4F D1/2"xR.010"x1-1/4"/3-1/2"-1/2" | 14 | \$144.38 | \$88.56 |
| VXR534A032125 | END MILL | V-STAR | 4F D1/2"xR.125"x1-1/4"/3-1/2"-1/2" | 34 | \$141.76 | \$86.97 |
| VXR534A040015 | END MILL | V-STAR | 4F D5/8"xR.015"x2"/4"-5/8" | 30 | \$261.05 | \$160.16 |
| VXR534A048015 | END MILL | V-STAR | 4F D3/4"xR.015"x2-1/4"/5"-3/4" | 10 | \$406.71 | \$249.50 |
| VXR534A048060F | END MILL | V-STAR | 4F D3/4"xR.060"x2-1/4"/5"-3/4" | 20 | \$409.50 | \$251.22 |



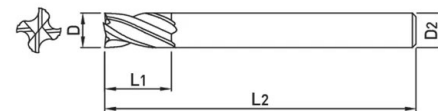
CORNER RADIUS - 6 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|--------------------------------|------|------------|-----------------|
| VXR536A016030 | END MILL | V-STAR | 6F D1/4"xR.030"x1-1/4"/4"-1/4" | 27 | \$78.49 | \$48.16 |
| VXR536A016060 | END MILL | V-STAR | 6F D1/4"xR.060"x1-1/4"/4"-1/4" | 30 | \$78.49 | \$48.16 |
| VXR536A032125 | END MILL | V-STAR | 6F D1/2"xR.125"x2"/4"-1/2" | 28 | \$208.15 | \$127.70 |
| VXR536A048015 | END MILL | V-STAR | 6F D3/4"xR.015"x2-1/4"/5"-3/4" | 23 | \$488.05 | \$299.41 |
| VXR536A048030 | END MILL | V-STAR | 6F D3/4"xR.030"x2-1/4"/5"-3/4" | 15 | \$488.05 | \$299.41 |
| VXR536A048060 | END MILL | V-STAR | 6F D3/4"xR.060"x2-1/4"/5"-3/4" | 22 | \$488.05 | \$299.41 |
| VXR536A048090 | END MILL | V-STAR | 6F D3/4"xR.090"x2-1/4"/5"-3/4" | 17 | \$488.05 | \$299.41 |
| VXR536A048125 | END MILL | V-STAR | 6F D3/4"xR.125"x2-1/4"/5"-3/4" | 18 | \$488.05 | \$299.41 |
| VXR536A048190 | END MILL | V-STAR | 6F D3/4"xR.190"x2-1/4"/5"-3/4" | 18 | \$488.05 | \$299.41 |
| VXR536A048250 | END MILL | V-STAR | 6F D3/4"xR.250"x2-1/4"/5"-3/4" | 17 | \$488.05 | \$299.41 |
| VXR536A064015 | END MILL | V-STAR | 6F D1"xR.015"x3"/6"-1" | 5 | \$1,032.14 | \$633.18 |
| VXR536A064030 | END MILL | V-STAR | 6F D1"xR.030"x3"/6"-1" | 3 | \$1,032.14 | \$633.18 |
| VXR536A064060 | END MILL | V-STAR | 6F D1"xR.060"x3"/6"-1" | 10 | \$1,032.14 | \$633.18 |
| VXR536A064090 | END MILL | V-STAR | 6F D1"xR.090"x3"/6"-1" | 3 | \$1,032.14 | \$633.18 |
| VXR536A064125 | END MILL | V-STAR | 6F D1"xR.125"x3"/6"-1" | 5 | \$1,032.14 | \$633.18 |
| VXR536A064190 | END MILL | V-STAR | 6F D1"xR.190"x3"/6"-1" | 4 | \$1,032.14 | \$633.18 |
| VXR536A064250 | END MILL | V-STAR | 6F D1"xR.250"x3"/6"-1" | 5 | \$1,032.14 | \$633.18 |



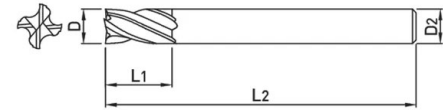
CORNER RADIUS - 4 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------------|----------|--------|-------------------------------------|------|----------|-----------------|
| VXR544A032015 | END MILL | V-STAR | 4F D1/2"xR.015"x1-5/8"/4"-1/2" | 30 | \$168.49 | \$103.37 |
| VXR544A032030NF | END MILL | V-STAR | 4F D1/2"xR.030"x5/8"/4-1/8"/6"-1/2" | 5 | \$170.21 | \$104.41 |
| VXR544A048060 | END MILL | V-STAR | 4F D3/4"xR.060"x3-1/4"/6"-3/4" | 10 | \$484.62 | \$297.31 |
| VXR544A048090 | END MILL | V-STAR | 4F D3/4"xR.090"x3-1/4"/6"-3/4" | 9 | \$484.62 | \$297.31 |
| VXR544A048125 | END MILL | V-STAR | 4F D3/4"xR.125"x3-1/4"/6"-3/4" | 10 | \$484.62 | \$297.31 |



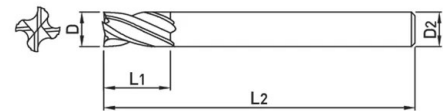
CORNER RADIUS - 6 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|--------------------------------|------|------------|-----------------|
| VXR546A032125 | END MILL | V-STAR | 6F D1/2"xR.125"x2-5/8"/5"-1/2" | 27 | \$253.89 | \$155.76 |
| VXR546A048015 | END MILL | V-STAR | 6F D3/4"xR.015"x2-3/4"/5"-3/4" | 23 | \$504.11 | \$309.25 |
| VXR546A048030 | END MILL | V-STAR | 6F D3/4"xR.030"x2-3/4"/5"-3/4" | 23 | \$504.11 | \$309.25 |
| VXR546A048060 | END MILL | V-STAR | 6F D3/4"xR.060"x2-3/4"/5"-3/4" | 19 | \$504.11 | \$309.25 |
| VXR546A048090 | END MILL | V-STAR | 6F D3/4"xR.090"x2-3/4"/5"-3/4" | 20 | \$504.11 | \$309.25 |
| VXR546A048125 | END MILL | V-STAR | 6F D3/4"xR.125"x2-3/4"/5"-3/4" | 19 | \$504.11 | \$309.25 |
| VXR546A048190 | END MILL | V-STAR | 6F D3/4"xR.190"x2-3/4"/5"-3/4" | 16 | \$504.11 | \$309.25 |
| VXR546A048250 | END MILL | V-STAR | 6F D3/4"xR.250"x2-3/4"/5"-3/4" | 9 | \$504.11 | \$309.25 |
| VXR546A064015 | END MILL | V-STAR | 6F D1"xR.015"x4-1/4"/7"-1" | 6 | \$1,257.92 | \$771.70 |
| VXR546A064030 | END MILL | V-STAR | 6F D1"xR.030"x4-1/4"/7"-1" | 3 | \$1,257.92 | \$771.70 |
| VXR546A064060 | END MILL | V-STAR | 6F D1"xR.060"x4-1/4"/7"-1" | 3 | \$1,257.92 | \$771.70 |
| VXR546A064090 | END MILL | V-STAR | 6F D1"xR.090"x4-1/4"/7"-1" | 4 | \$1,257.92 | \$771.70 |
| VXR546A064125 | END MILL | V-STAR | 6F D1"xR.125"x4-1/4"/7"-1" | 4 | \$1,257.92 | \$771.70 |
| VXR546A064190 | END MILL | V-STAR | 6F D1"xR.190"x4-1/4"/7"-1" | 3 | \$1,257.92 | \$771.70 |



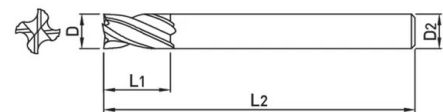
CORNER RADIUS - 4 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|--------|--------------------------------|------|------------|-----------------|
| VXR554A032015F | END MILL | V-STAR | 4F D1/2"xR.015"x2"/4"-1/2" | 30 | \$176.19 | \$108.09 |
| VXR554A048125 | END MILL | V-STAR | 4F D3/4"xR.125"x1-1/2"/6"-3/4" | 10 | \$447.25 | \$274.38 |
| VXR554A064015 | END MILL | V-STAR | 4F D1"xR.015"x4-1/4"/7"-1" | 5 | \$1,048.28 | \$643.08 |
| VXR554A064090 | END MILL | V-STAR | 4F D1"xR.090"x4-1/4"/7"-1" | 5 | \$1,048.28 | \$643.08 |



CORNER RADIUS - 6 FLUTE - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

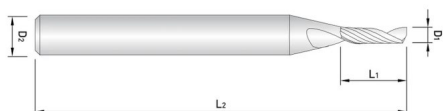
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|--------------------------------|------|----------|-----------------|
| VXR556A048015 | END MILL | V-STAR | 6F D3/4"xR.015"x3"/5-1/2"-3/4" | 22 | \$535.79 | \$328.70 |
| VXR556A048030 | END MILL | V-STAR | 6F D3/4"xR.030"x3"/5-1/2"-3/4" | 23 | \$535.79 | \$328.70 |
| VXR556A048060 | END MILL | V-STAR | 6F D3/4"xR.060"x3"/5-1/2"-3/4" | 24 | \$535.79 | \$328.70 |
| VXR556A048125 | END MILL | V-STAR | 6F D3/4"xR.125"x3"/5-1/2"-3/4" | 16 | \$535.79 | \$328.70 |
| VXR556A048190 | END MILL | V-STAR | 6F D3/4"xR.190"x3"/5-1/2"-3/4" | 16 | \$535.79 | \$328.70 |



CORNER RADIUS - 4 & 6 FLUTES - STANDARD LENGTH END MILLS WITHOUT REACH - INCH

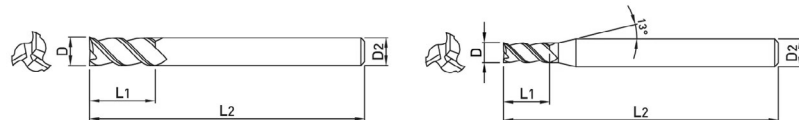
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|------------------------------------|------|----------|-----------------|
| VXR564A032030 | END MILL | V-STAR | 4F D1/2"xR.030"x2-1/2"/4-1/2"-1/2" | 48 | \$195.40 | \$119.87 |
| VXR566A048060 | END MILL | V-STAR | 6F D3/4"xR.060"x3-1/4"/6"-3/4" | 5 | \$610.64 | \$374.61 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|----------|-----------------------------|------|----------|-----------------|
| WAB513A048 | END MILL | ALU-WAVE | 3F D3/4"x1-5/8"x4-1/2"x3/4" | 11 | \$390.46 | \$239.54 |



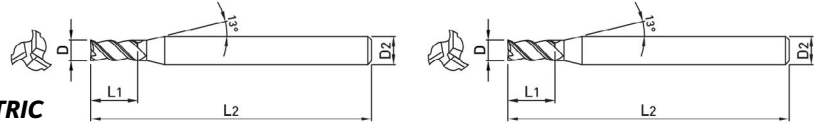
SQUARE - 1 FLUTE, REGULAR FLUTE LENGTH - BRIGHT - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|----------|-------------------|------|---------|----------------|
| WAE301100 | END MILL | ALU-WAVE | 1F D10.0X22/75-10 | 5 | \$80.88 | \$49.61 |



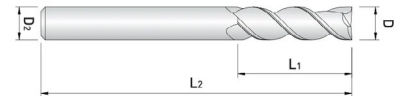
SQUARE - 2 FLUTE, REGULAR FLUTE LENGTH - BRIGHT - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|----------|---------------------|------|----------|-----------------|
| WAE302015 | END MILL | ALU-WAVE | 2F D1.5 x 6/50-6 | 13 | \$33.26 | \$20.41 |
| WAE302015-8 | END MILL | ALU-WAVE | 2F D1.5 x 8/60-6 | 9 | \$36.58 | \$22.43 |
| WAE302A048 | END MILL | ALU-WAVE | 2F D3/4"x1"/4"-3/4" | 22 | \$183.02 | \$112.29 |



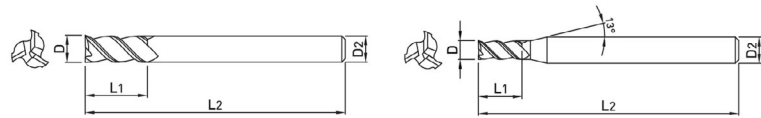
SQUARE - 3 FLUTE, REGULAR & LONG FLUTE LENGTH - BRIGHT - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|----------|-----------------------|------|----------|-----------------|
| WAE303015-08 | END MILL | ALU-WAVE | 3F D1.5x8/60-6 | 13 | \$40.51 | \$24.85 |
| WAE303040-08 | END MILL | ALU-WAVE | 3F D4.0x8/45-6 | 4 | \$36.58 | \$22.43 |
| WAE303101 | END MILL | ALU-WAVE | 3F D10.0x36/90-10 | 9 | \$79.97 | \$49.06 |
| WAE303150 | END MILL | ALU-WAVE | 3F D15.0x40/90-16 | 1 | \$227.52 | \$139.58 |
| WAE303160 | END MILL | ALU-WAVE | 3F D16.0x45/100-16 | 5 | \$227.52 | \$139.58 |
| WAE303202 | END MILL | ALU-WAVE | 3F D20.0x70/130-20 | 2 | \$409.58 | \$251.26 |
| WAE303A048 | END MILL | ALU-WAVE | 3F D3/4"x1" / 4"-3/4" | 9 | \$183.02 | \$112.29 |



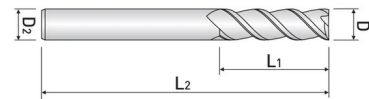
SQUARE - 2 FLUTE, LONG FLUTE LENGTH - BRIGHT - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|----------|---------------------------|------|---------|----------------|
| WAE322A008 | END MILL | ALU-WAVE | 2F D1/8"x3/4"/2-1/2"-1/4" | 48 | \$41.10 | \$25.21 |
| WAE322A024 | END MILL | ALU-WAVE | 2F D3/8"x1-1/2"/4"-3/8" | 50 | \$75.16 | \$46.11 |



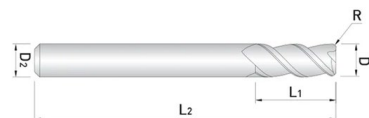
SQUARE - 3 FLUTE, REGULAR & LONG FLUTE LENGTH - BRIGHT - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|----------|---------------------------|------|----------|-----------------|
| WAE323100-61 | END MILL | ALU-WAVE | 3F D10.0x61/110-10 | 5 | \$96.94 | \$59.47 |
| WAE323200 | END MILL | ALU-WAVE | 3F D20.0x86/160-20 | 3 | \$473.04 | \$290.19 |
| WAE323202 | END MILL | ALU-WAVE | 3F D20.0x106/190-20 | 5 | \$546.60 | \$335.32 |
| WAE323A012 | END MILL | ALU-WAVE | 3F D3/16"x5/8" / 3"-3/16" | 9 | \$36.32 | \$22.29 |



SQUARE - 2 FLUTE, REGULAR FLUTE LENGTH - DLC - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|----------|---------------------------|------|----------|-----------------|
| WAE513A016-38 | END MILL | ALU-WAVE | 3F D1/2"x3/4"/2-1/2"-1/4" | 13 | \$42.72 | \$26.22 |
| WAE513A024-38 | END MILL | ALU-WAVE | 3F D3/8"x1"/2-1/2"-3/8" | 58 | \$56.76 | \$34.82 |
| WAE513A032-38 | END MILL | ALU-WAVE | 3F D1/2"x1-1/4"/3"-1/2" | 82 | \$100.92 | \$61.92 |
| WAE513A048-38 | END MILL | ALU-WAVE | 3F D3/4"x1-5/8"/4"-3/4" | 23 | \$242.38 | \$148.68 |

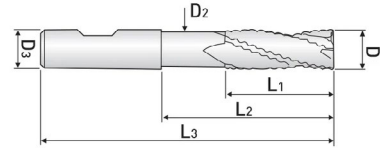


SQUARE - 3 FLUTE, LONG FLUTE LENGTH - DLC - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|----------|---------------------------|------|---------|----------------|
| WAE523A012 | END MILL | ALU-WAVE | 3F D3/16"x5/8" / 3"-3/16" | 9 | \$40.36 | \$24.76 |



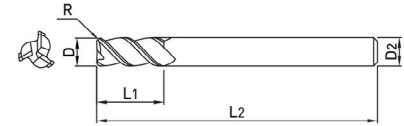
ROUGHER ENDMILLS - 3 FLUTE - REGULAR & LONG FLUTE LENGTHS - BRIGHT - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|----------|--------------------------|------|----------|-----------------|
| WAF313A040 | END MILL | ALU-WAVE | 3F D5/8"x3/4"/3"/5"-5/8" | 15 | \$387.81 | \$237.90 |



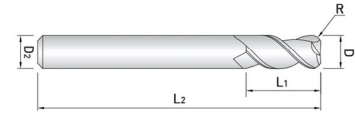
CORNER RADIUS - 3 FLUTE, REGULAR FLUTE LENGTH - BRIGHT - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|----------|----------------------------------|------|---------|----------------|
| WAR3030820 | END MILL | ALU-WAVE | 3F D8.0 x R2.0 x20/60-8 | 12 | \$73.78 | \$45.25 |
| WAR303A016020 | END MILL | ALU-WAVE | 3F D1/4"xR.020"x3/8"/2-1/2"-1/4" | 12 | \$39.72 | \$24.38 |



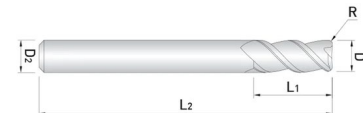
CORNER RADIUS - 2 FLUTE, REGULAR FLUTE LENGTH - BRIGHT - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|----------|----------------------------------|------|---------|----------------|
| WAR312A008010 | END MILL | ALU-WAVE | 2F D1/8"xR.010"x3/8"/1-1/2"-1/8" | 55 | \$38.34 | \$23.52 |



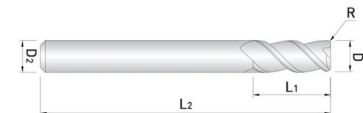
SQUARE - 3 FLUTE, REGULAR FLUTE LENGTH - BRIGHT - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|----------|--------------------------------|------|----------|-----------------|
| WAR313A032060 | END MILL | ALU-WAVE | 3F D1/2"xR.060"x1-1/4"/3"-1/2" | 120 | \$110.99 | \$68.10 |
| WAR313A048060 | END MILL | ALU-WAVE | 3F D3/4"xR.060"x1-5/8"/4"-3/4" | 34 | \$269.46 | \$165.31 |



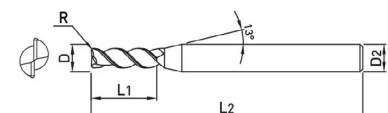
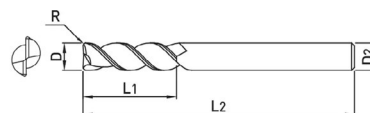
CORNER RADIUS - 2 FLUTE, LONG FLUTE LENGTH - BRIGHT - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|----------|--------------------------------|------|---------|----------------|
| WAR323A016010 | END MILL | ALU-WAVE | 3F D1/4"xR.010"x1-1/2"/4"-1/4" | 44 | \$63.92 | \$39.22 |
| WAR323A016030 | END MILL | ALU-WAVE | 3F D1/4"xR.030"x1-1/2"/4"-1/4" | 96 | \$63.92 | \$39.22 |
| WAR323A024030 | END MILL | ALU-WAVE | 3F D3/8"xR.030"x1-1/2"/4"-3/8" | 60 | \$88.53 | \$54.31 |



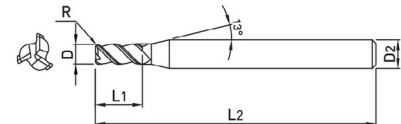
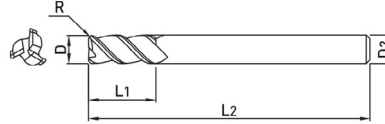
CORNER RADIUS - 2 FLUTE, REGULAR FLUTE LENGTH - DLC - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|----------|----------------------------------|------|---------|----------------|
| WAR502010 | END MILL | ALU-WAVE | 2F D1.0xR0.05x3/40-6 | 10 | \$69.86 | \$42.86 |
| WAR502A016010 | END MILL | ALU-WAVE | 2F D1/4"xR.010"x3/8"/2-1/2"-1/4" | 15 | \$42.27 | \$25.93 |



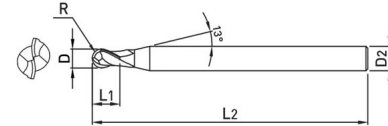
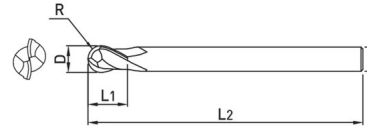
CORNER RADIUS - 3 FLUTE, REGULAR FLUTE LENGTH - DLC - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|----------|------------------------|------|----------|----------------|
| WAR503080 | END MILL | ALU-WAVE | 3F D8.0xR0.5x22/63-8 | 9 | \$106.76 | \$65.50 |
| WAR503100 | END MILL | ALU-WAVE | 3F D10.0xR0.5x28/72-10 | 10 | \$146.60 | \$89.93 |



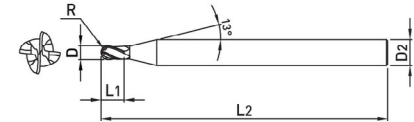
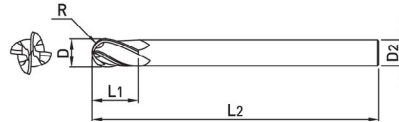
2 FLUTE - BALL - 2XD CUTTING LENGTH - W COATING - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|------------------|------|----------|----------------|
| WB502010S4 | END MILL | WINNER | 2F R0.5x2.5/50-4 | 8 | \$37.46 | \$22.98 |
| WB502020P | END MILL | WINNER | 2F R1.0x5/50-6 | 4 | \$47.29 | \$29.02 |
| WB502030S4 | END MILL | WINNER | 2F R1.5x6/60-4 | 30 | \$39.08 | \$23.97 |
| WB502080060 | END MILL | WINNER | 2F R4.0x12/60-8 | 10 | \$65.71 | \$40.30 |
| WB502120090 | END MILL | WINNER | 2F R6.0x18/90-12 | 5 | \$126.70 | \$77.73 |



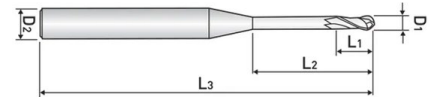
3 FLUTE - BALL - 1XD CUTTING LENGTH - W COATING - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------|-------------------|------|---------|----------------|
| WB504015 | END MILL | WINNER | 4F R0.75x1.5/50-6 | 14 | \$45.22 | \$27.75 |
| WB504080 | END MILL | WINNER | 4F R4.0x8/100-8 | 10 | \$84.95 | \$52.12 |



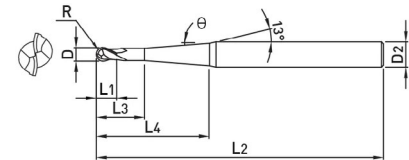
2 FLUTE - BALL - 1XD CUTTING LENGTH with NECKS- W COATING - METRIC



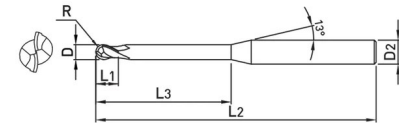
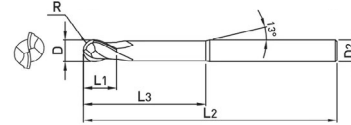
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|----------------------|------|---------|----------------|
| WB512002005 | END MILL | WINNER | 2F R0.1x0.2/0.5/40-4 | 7 | \$67.36 | \$41.33 |
| WB51200508 | END MILL | WINNER | 2F R0.25x0.5/8/45-4 | 4 | \$48.89 | \$30.00 |
| WB51201016 | END MILL | WINNER | 2F R0.5x1/16/50-4 | 1 | \$42.93 | \$26.34 |
| WB51206030 | END MILL | WINNER | 2F R3.0x8/30/60-6 | 10 | \$50.09 | \$30.73 |



2 FLUTE - BALL - 1XD CUTTING LENGTH with NECKS- W COATING - METRIC

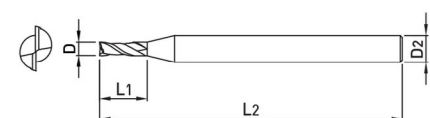
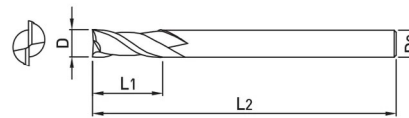


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|--------|----------------------|------|---------|----------------|
| WB5420022001 | END MILL | WINNER | 2F R0.1x0.2/1/40-4 | 8 | \$76.36 | \$46.85 |
| WB5420101012 | END MILL | WINNER | 2F R0.5x1/12/50-4 | 5 | \$48.73 | \$29.90 |
| WB5420105030 | END MILL | WINNER | 2F R0.5x1/30/70-6 | 5 | \$67.55 | \$41.45 |
| WB5420151016 | END MILL | WINNER | 2F R0.75x1.5/16/50-4 | 5 | \$48.73 | \$29.90 |
| WB5420151050 | END MILL | WINNER | 2F R0.75x1.5/50/90-4 | 5 | \$70.00 | \$42.94 |
| WB5420151510 | END MILL | WINNER | 2F R0.75x1.5/10/50-4 | 11 | \$48.73 | \$29.90 |
| WB5420151550 | END MILL | WINNER | 2F R0.75x1.5/50/90-4 | 5 | \$70.00 | \$42.94 |
| WB5420152050 | END MILL | WINNER | 2F R0.75x1.5/50/90-6 | 5 | \$81.87 | \$50.22 |
| WB5420203040 | END MILL | WINNER | 2F R1.0x2/40/80-6 | 12 | \$75.54 | \$46.34 |



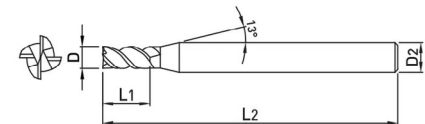
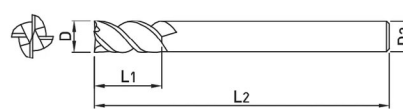
2 FLUTE - BALL NOSE - RIB TYPE ENDMILLS - 1XD CUT LENGTH - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|-----------|-----------------------|------|---------|----------------|
| WB712003015P | END MILL | WINNER 7+ | 2F R0.15x0.3/1.5/40-4 | 10 | \$53.86 | \$33.05 |
| WB71200502P | END MILL | WINNER 7+ | 2F R0.25x0.5/2/45-4 | 4 | \$39.50 | \$24.23 |
| WB71200514P | END MILL | WINNER 7+ | 2F R0.25x0.5/14/45-4 | 5 | \$44.76 | \$27.46 |
| WB71200516P | END MILL | WINNER 7+ | 2F R0.25x0.5/16/45-4 | 5 | \$51.87 | \$31.82 |
| WB71200606P | END MILL | WINNER 7+ | 2F R0.3x0.6/6/45-4 | 25 | \$44.76 | \$27.46 |
| WB71200612P | END MILL | WINNER 7+ | 2F R0.3x0.6/12/45-4 | 25 | \$44.76 | \$27.46 |
| WB71200702P | END MILL | WINNER 7+ | 2F R0.35x0.7/2/45-4 | 5 | \$44.76 | \$27.46 |
| WB71200712P | END MILL | WINNER 7+ | 2F R0.35x0.7/12/45-4 | 5 | \$44.76 | \$27.46 |
| WB71200804P | END MILL | WINNER 7+ | 2F R0.4x0.8/4/45-4 | 10 | \$44.76 | \$27.46 |
| WB71200816P | END MILL | WINNER 7+ | 2F R0.4x0.8/16/45-4 | 5 | \$46.05 | \$28.26 |
| WB71200820P | END MILL | WINNER 7+ | 2F R0.4x0.8/20/50-4 | 5 | \$46.05 | \$28.26 |
| WB71201006S6P | END MILL | WINNER 7+ | 2F R0.5x1/6/50-6 | 20 | \$42.94 | \$26.34 |
| WB71201026P | END MILL | WINNER 7+ | 2F R0.5x1/26/60-4 | 13 | \$38.21 | \$23.43 |
| WB71201208P | END MILL | WINNER 7+ | 2F R0.6x1.2/8/50-4 | 27 | \$39.30 | \$24.11 |
| WB71201410P | END MILL | WINNER 7+ | 2F R0.7x1.4/10/50-4 | 7 | \$39.30 | \$24.11 |
| WB71201507P | END MILL | WINNER 7+ | 2F R0.75x1.5/7/50-4 | 40 | \$37.48 | \$22.98 |
| WB71201520P | END MILL | WINNER 7+ | 2F R0.75x1.5/20/55-4 | 7 | \$37.48 | \$22.98 |
| WB71201526P | END MILL | WINNER 7+ | 2F R0.75x1.5/26/60-4 | 8 | \$40.95 | \$25.13 |
| WB71202004P | END MILL | WINNER 7+ | 2F R1.0x2/4/50-4 | 10 | \$34.40 | \$21.10 |
| WB71202508P | END MILL | WINNER 7+ | 2F R1.25x2.5/8/50-4 | 15 | \$39.30 | \$24.11 |
| WB71203006P | END MILL | WINNER 7+ | 2F R1.5x3/6/50-6 | 26 | \$41.13 | \$25.23 |
| WB71203030P | END MILL | WINNER 7+ | 2F R1.5x3/30/70-6 | 4 | \$46.59 | \$28.59 |
| WB71204016P | END MILL | WINNER 7+ | 2F R2.0x4/16/60-6 | 12 | \$44.57 | \$27.34 |
| WB71204040P | END MILL | WINNER 7+ | 2F R2.0x4/40/80-6 | 9 | \$54.40 | \$33.37 |
| WB71205030P | END MILL | WINNER 7+ | 2F R2.5x6/30/70-6 | 5 | \$49.68 | \$30.47 |
| WB7120504 | END MILL | WINNER 7+ | 2F R0.25x0.5/4/45-4 | 1 | \$40.35 | \$24.76 |
| WB71205050P | END MILL | WINNER 7+ | 2F R2.5x6/50/100-6 | 16 | \$66.24 | \$40.63 |
| WB7120506 | END MILL | WINNER 7+ | 2F R0.25x0.5/6/45-4 | 2 | \$46.31 | \$28.40 |
| WB7124012 | END MILL | WINNER 7+ | 2F R2.0x4/12/60-6 | 6 | \$50.77 | \$31.14 |



2 FLUTE - SQUARE - REGULAR CUT LENGTH - 3MM SHANKS - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|--------|----------------|------|---------|----------------|
| WE502028S4 | END MILL | WINNER | 2F D2.8x8/50-4 | 5 | \$28.04 | \$17.20 |

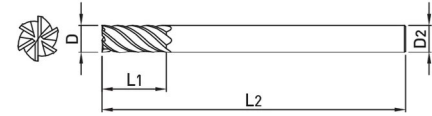


4 FLUTE - SQUARE - HIGH HELIX - VARIOUS CUTTING LENGTH - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|-------------------|------|---------|----------------|
| WE504H020 | END MILL | WINNER | 4F D2.0x6/50-6 | 10 | \$38.68 | \$23.72 |
| WE504H06030 | END MILL | WINNER | 4F D6.0x30/80-6 | 5 | \$43.39 | \$26.62 |
| WE504H08035 | END MILL | WINNER | 4F D8.0x35/90-8 | 5 | \$71.63 | \$43.94 |
| WE504H10040 | END MILL | WINNER | 4F D10.0x40/90-10 | 2 | \$94.56 | \$58.01 |



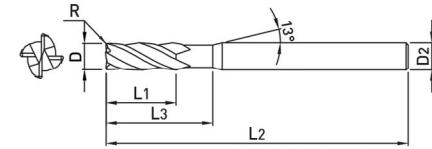
4 FLUTE - SQUARE - VARIOUS NECK LENGTH - W COATING - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------|-----------------|------|---------|----------------|
| WE506080 | END MILL | WINNER | 6F D8.0x20/70-8 | 10 | \$66.32 | \$40.69 |



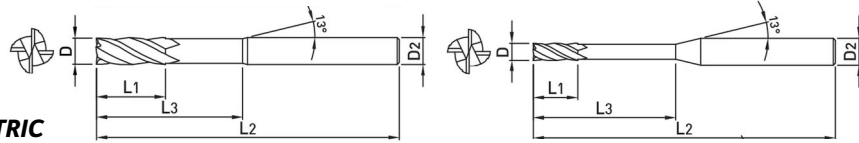
2 FLUTE with VARIOUS LONG NECK - SQUARE - SHORT CUT LENGTHS - W COATING - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|--------|---------------------|------|---------|----------------|
| WE51202012 | END MILL | WINNER | 2F D2.0x3/12/50-4 | 8 | \$32.79 | \$20.12 |
| WE51208042 | END MILL | WINNER | 2F D8.0x12/42/100-8 | 2 | \$69.15 | \$42.43 |



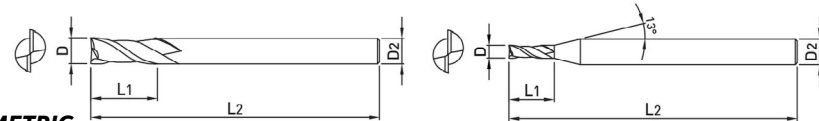
4 FLUTE - SQUARE - VARIOUS NECK LENGTH - W COATING - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|--------|--------------------|------|---------|----------------|
| WE51401204 | END MILL | WINNER | 4F D1.2x1.8/4/50-4 | 2 | \$37.24 | \$22.84 |
| WE51402010 | END MILL | WINNER | 4F D2.0x3/10/50-4 | 41 | \$37.24 | \$22.84 |
| WE51402530 | END MILL | WINNER | 4F D2.5x4/30/70-4 | 3 | \$44.00 | \$26.99 |
| WE51406032 | END MILL | WINNER | 4F D6.0x9/32/90-6 | 13 | \$48.10 | \$29.51 |



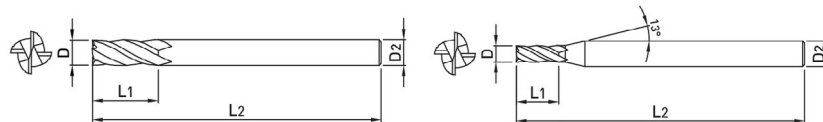
2 FLUTE - SQUARE - VARIOUS LONG CUT LENGTHS - W COATING - METRIC



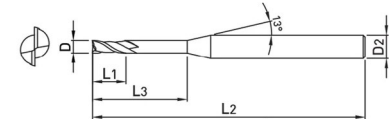
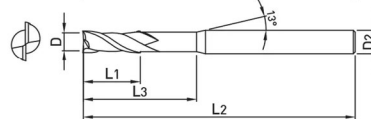
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|--------------------|------|---------|----------------|
| WE52202510 | END MILL | WINNER | 2F D2.5x10/60-6 | 20 | \$32.14 | \$19.71 |
| WE52210030100 | END MILL | WINNER | 2F D10.0x30/100-10 | 9 | \$79.43 | \$48.73 |



4 FLUTE - SQUARE - VARIOUS CUT LENGTH - W COATING - METRIC

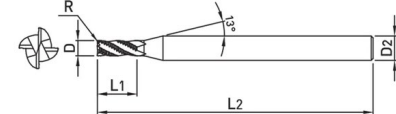
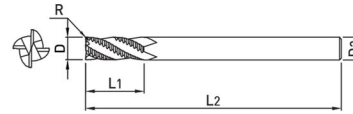


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|--------|-----------------|------|---------|----------------|
| WE52401206 | END MILL | WINNER | 4F D1.2x6/60-6 | 9 | \$36.43 | \$22.35 |
| WE52401506 | END MILL | WINNER | 4F D1.5x6/60-6 | 5 | \$36.43 | \$22.35 |
| WE52402008 | END MILL | WINNER | 4F D2.0x8/60-6 | 5 | \$36.43 | \$22.35 |
| WE52403020 | END MILL | WINNER | 4F D3.0x20/70-6 | 2 | \$44.00 | \$26.99 |



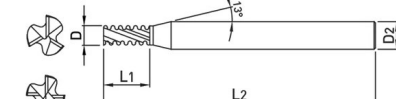
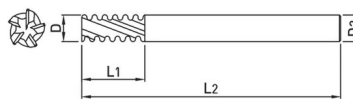
2 FLUTE - SQUARE - RIB TYPE ENDMILLS - 1.5XD CUT LENGTH - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|-----------|-----------------------|------|---------|----------------|
| WE71200906P | END MILL | WINNER 7+ | 2F D0.9x1.3/6/45-4 | 17 | \$34.58 | \$21.21 |
| WE71201410P | END MILL | WINNER 7+ | 2F D1.4x2.1/10/50-4 | 9 | \$30.38 | \$18.63 |
| WE71202018P | END MILL | WINNER 7+ | 2F D2.0x3/18/50-4 | 10 | \$26.56 | \$16.30 |
| WE71202026P | END MILL | WINNER 7+ | 2F D2.0x3/26/60-4 | 9 | \$31.66 | \$19.43 |
| WE71202035P | END MILL | WINNER 7+ | 2F D2.0x3/35/70-4 | 40 | \$35.30 | \$21.66 |
| WE71202510P | END MILL | WINNER 7+ | 2F D2.5x4/10/50-4 | 2 | \$30.38 | \$18.63 |
| WE71203016P | END MILL | WINNER 7+ | 2F D3.0x4.5/16/60-6 | 5 | \$33.11 | \$20.31 |
| WE71203030P | END MILL | WINNER 7+ | 2F D3.0x4.5/30/70-6 | 2 | \$36.03 | \$22.11 |
| WE71204020P | END MILL | WINNER 7+ | 2F D4.0x6/20/60-6 | 11 | \$34.40 | \$21.10 |
| WE7121006 | END MILL | WINNER 7+ | 2F D1.0 x 1.5/6/45-4 | 2 | \$31.25 | \$19.18 |
| WE7122006 | END MILL | WINNER 7+ | 2F D2.0x3/6/45-4 | 1 | \$31.25 | \$19.18 |
| WE7123030 | END MILL | WINNER 7+ | 2F D3.0 x 4.5/30/70-6 | 7 | \$42.41 | \$26.01 |
| WE7125016 | END MILL | WINNER 7+ | 2F D5.0 x 7.5/16/60-6 | 9 | \$41.85 | \$25.68 |



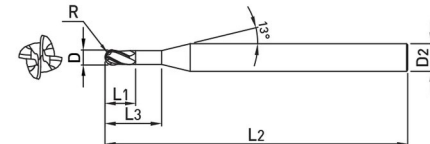
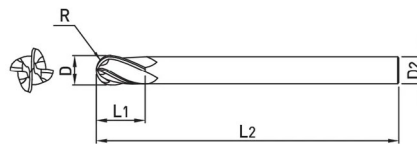
3-5 FLUTES - ROUGHING END MILLS with CORNER RADIUS - VARIABLE INDEX - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------|-----------------|------|---------|----------------|
| WF604060 | END MILL | WINNER | 4F D6.0x10/50-6 | 3 | \$49.52 | \$30.39 |



3-5 FLUTES - ROUGHING END MILLS with CORNER RADIUS - VARIABLE INDEX - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------|-------------------|------|----------|----------------|
| WF614120 | END MILL | WINNER | 4F D12.0x30/80-12 | 3 | \$123.43 | \$75.72 |

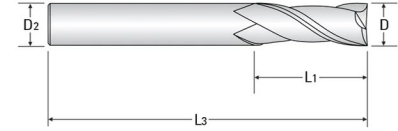


CORNER RADIUS 4 FLUTE END MILL WITHOUT REACH - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------------|----------|----------|-------------------------|------|----------|-----------------|
| WGB50401530 | END MILL | GRA-MATE | 4F R0.75x4/30/80-4 | 5 | \$96.94 | \$59.47 |
| WGB504060130 | END MILL | GRA-MATE | 4F R3.0x20/130-6 | 16 | \$135.56 | \$83.17 |
| WGB504A0020150-3 | END MILL | GRA-MATE | 4F D1/32"x.150"/3"-1/8" | 5 | \$100.88 | \$61.88 |
| WGB504A024-6 | END MILL | GRA-MATE | 4F D3/8"x1-3/8"/6"-3/8" | 32 | \$274.68 | \$168.50 |



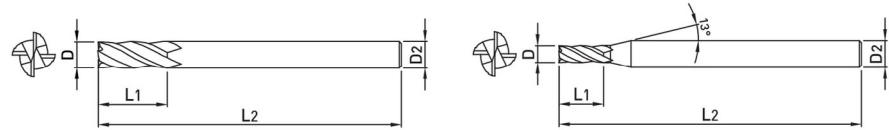
CORNER RADIUS 4 FLUTE END MILL WITHOUT REACH - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|----------|-----------------------------------|------|---------|----------------|
| WGE502A002 | END MILL | GRA-MATE | 2F D1/32" x 3/32" / 1-1/2" - 1/8" | 87 | \$95.68 | \$58.69 |



CORNER RADIUS 4 FLUTE END MILL WITHOUT REACH - INCH

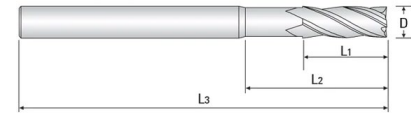


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|----------|-----------------------------------|------|----------|-----------------|
| WGE50402010 | END MILL | GRA-MATE | 4F D2.0x10/50-4 | 3 | \$98.79 | \$60.61 |
| WGE504100 | END MILL | GRA-MATE | 4F D10.0x25/75-10 | 8 | \$259.14 | \$158.97 |
| WGE504A001 | END MILL | GRA-MATE | 4F D1/64" x 3/64" / 1-1/2" - 1/8" | 31 | \$128.75 | \$78.99 |
| WGE504A024-4 | END MILL | GRA-MATE | 4F D3/8" x 1-3/8" / 4" - 3/8" | 49 | \$250.88 | \$153.90 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|----------|---------------------|------|----------|-----------------|
| WGE506A032 | END MILL | GRA-MATE | 6F D1/2"x1"/3"-1/2" | 9 | \$371.97 | \$228.19 |



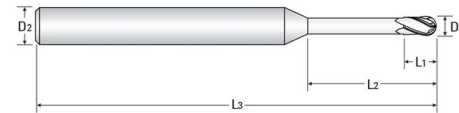
SQUARE - 4 FLUTE END MILLS WITH REACH - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------------|----------|----------|---------------------------------------|------|----------|----------------|
| WGE514A0020312-3 | END MILL | GRA-MATE | 4F D1/32" x 3/32" / 5/16" / 3" - 1/8" | 23 | \$134.96 | \$82.80 |
| WGE514A008-1.5 | END MILL | GRA-MATE | 4F D1/8" x 3/8" / 1-1/2" - 1/8" | 36 | \$96.32 | \$59.10 |
| WGE514A016-2.5 | END MILL | GRA-MATE | 4F D1/4" x 1" / 2-1/2" - 1/4" | 22 | \$125.87 | \$77.22 |



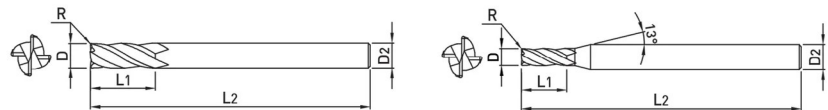
BALL NOSE - 4 FLUTE END MILLS WITH REACH - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------------|----------|----------|-------------------------------|------|----------|----------------|
| WGNR504A00401SP1 | END MILL | GRA-MATE | 4F D1/16"X0.093"X2-1/2"X1/18" | 10 | \$117.23 | \$71.92 |



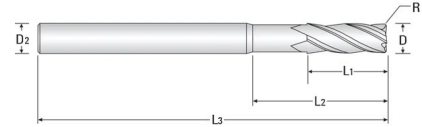
CORNER RADIUS - 4 FLUTE END MILLS WITHOUT REACH - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------------|----------|----------|--|------|----------|-----------------|
| WGR50403002080 | END MILL | GRA-MATE | 4F D3.0xR0.2x8/80-4 | 11 | \$115.32 | \$70.75 |
| WGR50412010080 | END MILL | GRA-MATE | 4F D12.0xR1.0x30/80-12 | 2 | \$319.59 | \$196.07 |
| WGR504A006010 | END MILL | GRA-MATE | 4F D3/32" x R.010 x 3/8" / 1-1/2" - 1/8" | 124 | \$121.08 | \$74.27 |
| WGR504A0161500-4-020 | END MILL | GRA-MATE | 4F D1/4"xR.020"x1-1/2"/4"-1/4" | 6 | \$272.84 | \$167.38 |



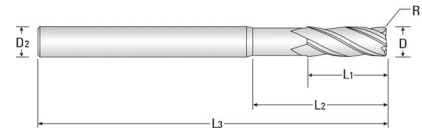
CORNER RADIUS 4 FLUTE END MILL WITHOUT REACH - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------------|----------|----------|------------------------------|------|----------|-----------------|
| WGR524A024-6-020SP | END MILL | GRA-MATE | 4F D3/8"xR.020"x3/8"/6"-3/8" | 7 | \$386.85 | \$237.33 |



CORNER RADIUS 4 FLUTE END MILL WITHOUT REACH - INCH

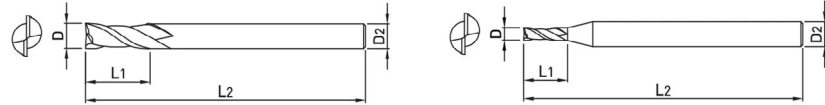


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------------|----------|----------|--|------|----------|-----------------|
| WGR534A0120750-3-015 | END MILL | GRA-MATE | 4F D3/16" x R.015" x 3/16" / 3/4" / 3" - 3/16" | 54 | \$165.81 | \$101.71 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------------------|----------|----------|---------------------------|------|----------|-----------------|
| WGRT504A016015 | END MILL | GRA-MATE | 4F D1/4"x3/4"x2-1/2"x1/4" | 3 | \$215.54 | \$132.22 |
| WGRT504A032-4-030S | END MILL | GRA-MATE | 4F D1/2"x3/4"x4"x1/2" | 7 | \$476.56 | \$292.36 |
| WGRT520A032-3 | END MILL | GRA-MATE | 4F D1/2"x1-1/2"x3"x1/2" | 1 | \$596.13 | \$365.71 |
| WGRT534A0321500-6-030 | END MILL | GRA-MATE | 4F D1/2"x1/2"x6"x1/2" | 8 | \$537.10 | \$329.49 |



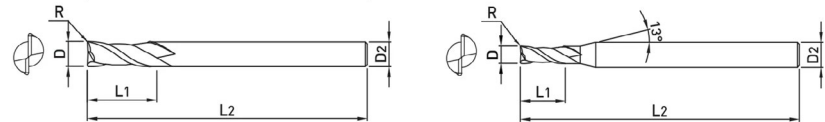
2 FLUTE - SQUARE - SHORT CUT LENGTH - W COATING - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|--------|------------------|------|---------|----------------|
| WME502008 | END MILL | WINNER | 2F D0.8x1.6/40-4 | 13 | \$32.54 | \$19.96 |
| WME502020 | END MILL | WINNER | 2F D2.0x6/50-6 | 5 | \$30.70 | \$18.83 |
| WME504008 | END MILL | WINNER | 4F D0.8x1.6/40-4 | 4 | \$36.24 | \$22.23 |
| WME504060 | END MILL | WINNER | 4F D6.0x15/60-6 | 8 | \$37.24 | \$22.84 |
| WME504080 | END MILL | WINNER | 4F D8.0x20/70-8 | 5 | \$60.18 | \$36.91 |



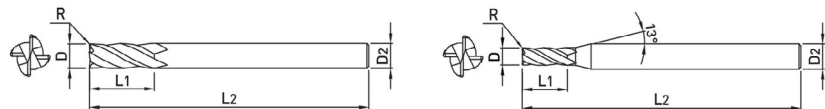
2 FLUTE WITH NECK - CORNER RADIUS - SHORT CUT LENGTH - W COATING - METRIC



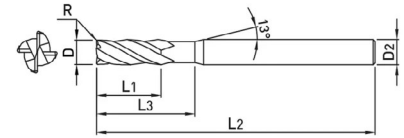
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|--------|----------------------|------|---------|----------------|
| WR50206010 | END MILL | WINNER | 2F D6.0xR1.0x15/90-6 | 13 | \$48.10 | \$29.51 |



4 FLUTE - MULTI PURPOSE - CORNER RADIUS - LONG CUT LENGTH - W COATING - METRIC

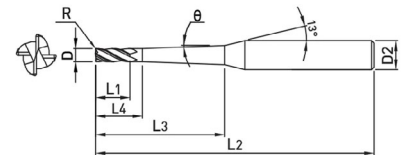


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|------------------------|------|----------|----------------|
| WR50404010 | END MILL | WINNER | 4F D4.0xR1.0x10/70-6 | 15 | \$52.42 | \$32.17 |
| WR50406003060 | END MILL | WINNER | 4F D6.0xR0.3x15/60-6 | 9 | \$51.37 | \$31.51 |
| WR50408003 | END MILL | WINNER | 4F D8.0xR0.3x20/100-8 | 7 | \$93.33 | \$57.26 |
| WR50412005080 | END MILL | WINNER | 4F D12.0xR0.5x30/80-12 | 8 | \$147.59 | \$90.55 |



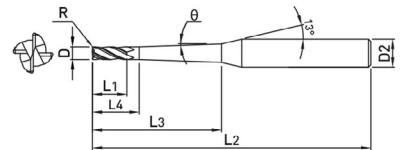
2 FLUTE with NECK - CORNER RADIUS - STANDARD CUT LENGTH - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|---------------------------|------|---------|----------------|
| WR51200501015 | END MILL | WINNER | 2F D0.5xR0.1x0.7/1.5/45-4 | 24 | \$50.35 | \$30.90 |
| WR5120100116 | END MILL | WINNER | 2F D1.0xR0.1x1.5/16/50-4 | 8 | \$44.22 | \$27.14 |
| WR5120100120 | END MILL | WINNER | 2F D1.0xR0.1x1.5/20/50-4 | 4 | \$44.22 | \$27.14 |
| WR5120120206 | END MILL | WINNER | 2F D1.2xR0.2x1.8/6/50-4 | 8 | \$44.22 | \$27.14 |
| WR5120150110 | END MILL | WINNER | 2F D1.5xR0.1x2.3/10/50-4 | 6 | \$44.22 | \$27.14 |
| WR5120150306 | END MILL | WINNER | 2F D1.5xR0.3x2.3/6/50-4 | 15 | \$44.22 | \$27.14 |
| WR5120200222 | END MILL | WINNER | 2F D2.0xR0.2x3/22/60-4 | 8 | \$46.06 | \$28.26 |
| WR5120250512 | END MILL | WINNER | 2F D2.5xR0.5x4/12/50-4 | 6 | \$44.22 | \$27.14 |
| WR5120300114 | END MILL | WINNER | 2F D3.0xR0.1x4.5/14/60-6 | 13 | \$51.59 | \$31.66 |
| WR5120300116 | END MILL | WINNER | 2F D3.0xR0.1x4.5/16/60-6 | 11 | \$51.59 | \$31.66 |
| WR5120300214 | END MILL | WINNER | 2F D3.0xR0.2x4.5/14/60-6 | 8 | \$51.59 | \$31.66 |
| WR5120300216 | END MILL | WINNER | 2F D3.0xR0.2x4.5/16/60-6 | 8 | \$51.59 | \$31.66 |
| WR5120300226 | END MILL | WINNER | 2F D3.0xR0.2x4.5/26/65-6 | 8 | \$52.42 | \$32.17 |



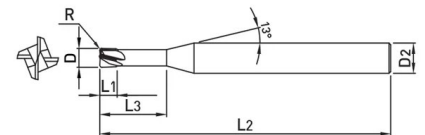
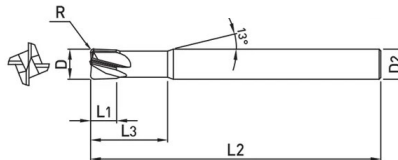
2 FLUTE with TAPER LONG NECK - CORNER RADIUS - SHORT CUT LENGTH - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|--------|--------------------------|------|---------|----------------|
| WR542010020112 | END MILL | WINNER | 2F D1.0xR0.2x1.5/12/50-4 | 5 | \$48.73 | \$29.90 |
| WR542015020120 | END MILL | WINNER | 2F D1.5xR0.2x2.3/20/50-4 | 4 | \$48.73 | \$29.90 |
| WR542020050120 | END MILL | WINNER | 2F D2.0xR0.5x2/20/50-4 | 5 | \$48.73 | \$29.90 |



4 FLUTE with TAPER NECK - CORNER RADIUS - SHORT CUT LENGTH - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|--------|------------------------|------|---------|----------------|
| WR544020050130 | END MILL | WINNER | 4F D2.0xR0.5x2/30/70-4 | 12 | \$62.23 | \$38.18 |

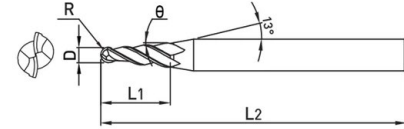


4 FLUTE with NECK and CORNER RADIUS - HIGH FEED RATE END MILL - 1XD CUT LENGTH - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|--------|---------------------------|------|----------|-----------------|
| WSPM4060-10L | END MILL | WINNER | 4F D6.0xR1.0x6/15/90-6 | 10 | \$71.63 | \$43.94 |
| WSPM4120-20 | END MILL | WINNER | 4F D12.0xR2.0x12/30/80-12 | 4 | \$170.51 | \$104.60 |



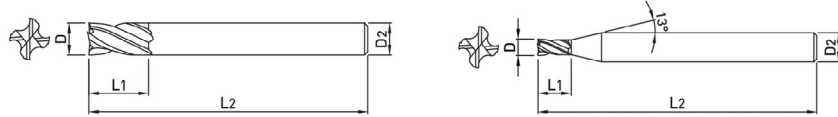
2 FLUTE - TAPER BALL END MILL - W COATING - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|-----------------------|------|---------|----------------|
| WTB50200410 | END MILL | WINNER | 2F R0.2x2/40-4 , 10° | 6 | \$65.71 | \$40.30 |
| WTB50200502 | END MILL | WINNER | 2F R0.25x2/45-4 , 2° | 7 | \$57.73 | \$35.42 |
| WTB50202002 | END MILL | WINNER | 2F R1.0x10/50-4 , 2° | 8 | \$48.73 | \$29.90 |
| WTB50202010 | END MILL | WINNER | 2F R1.0x11/50-6 , 10° | 15 | \$53.42 | \$32.78 |



4 FLUTE - SQUARE - POWER CUTTING - VARIABLE HELIX - VARIABLE CUT LENGTH - W COATING - METRIC

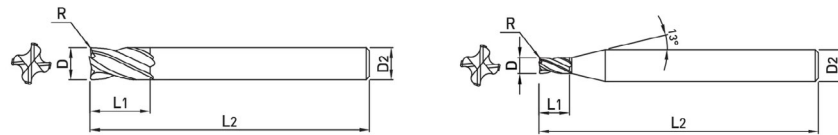


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|-----------------|------|---------|----------------|
| WXE50401510 | END MILL | WINNER | 4F D1.5x10/50-6 | 18 | \$35.00 | \$21.47 |
| WXE50402012 | END MILL | WINNER | 4F D2.0x12/50-6 | 3 | \$35.00 | \$21.47 |
| WXE50405025 | END MILL | WINNER | 4F D5.0x25/60-6 | 22 | \$37.24 | \$22.84 |
| WXE504080 | END MILL | WINNER | 4F D8.0x20/70-8 | 5 | \$60.18 | \$36.91 |

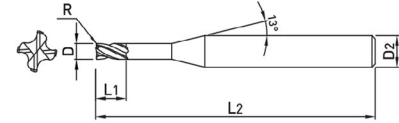
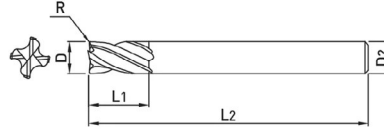
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------------------|----------|----------|-------------------------------------|------|----------|-----------------|
| WXGR514A01607501500-3-015 | END MILL | GRA-MATE | 4F D1/4"xR.015"x3/4"/1-1/2"/3"-1/4" | 1 | \$168.63 | \$103.45 |



4 FLUTE - CORNER RADIUS - REGULAR CUT LENGTH - W COATING - METRIC

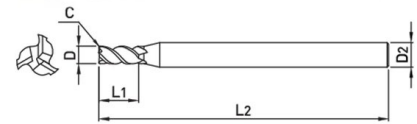
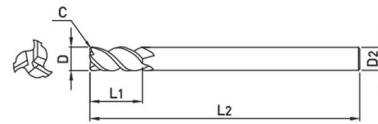


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|-------------------------|------|----------|----------------|
| WXR50401002 | END MILL | WINNER | 4F D1.0xR0.2x2.5/50-6 | 7 | \$45.22 | \$27.75 |
| WXR50401501 | END MILL | WINNER | 4F D1.5xR0.1x4/50-6 | 7 | \$45.22 | \$27.75 |
| WXR50402005 | END MILL | WINNER | 4F D2.0xR0.5x6/50-6 | 10 | \$45.22 | \$27.75 |
| WXR50403002 | END MILL | WINNER | 4F D3.0xR0.2x8/60-6 | 7 | \$46.88 | \$28.75 |
| WXR50404005 | END MILL | WINNER | 4F D4.0xR0.5x10/70-6 | 14 | \$48.73 | \$29.90 |
| WXR50404010 | END MILL | WINNER | 4F D4.0xR1.0x10/70-6 | 18 | \$48.73 | \$29.90 |
| WXR50404502 | END MILL | WINNER | 4F D4.5xR0.2x11/80-6 | 4 | \$50.56 | \$31.02 |
| WXR50406020 | END MILL | WINNER | 4F D6.0xR2.0x15/90-6 | 2 | \$52.81 | \$32.39 |
| WXR50412050 | END MILL | WINNER | 4F D12.0xR5.0x30/110-12 | 7 | \$150.45 | \$92.31 |



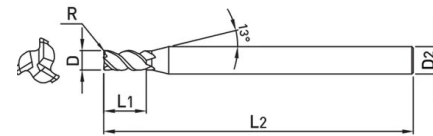
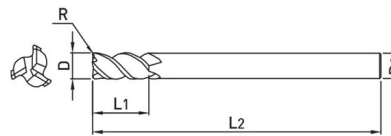
4 FLUTE with LONG NECK - CORNER RADIUS - REGULAR CUT LENGTH - W COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|--------|--------------------------|------|---------|----------------|
| WXR5140100110 | END MILL | WINNER | 4F D1.0xR0.1x1.5/10/50-4 | 3 | \$48.73 | \$29.90 |
| WXR5140100303 | END MILL | WINNER | 4F D1.0xR0.3x1.5/3/50-4 | 46 | \$48.73 | \$29.90 |
| WXR51401200503 | END MILL | WINNER | 4F D1.2xR0.05x1.8/3/50-4 | 8 | \$48.73 | \$29.90 |
| WXR5140120110 | END MILL | WINNER | 4F D1.2xR0.1x1.8/10/50-4 | 8 | \$48.73 | \$29.90 |
| WXR51401500504 | END MILL | WINNER | 4F D1.5xR0.05x2.3/4/50-4 | 8 | \$48.73 | \$29.90 |
| WXR5140150110 | END MILL | WINNER | 4F D1.5xR0.1x2.3/10/50-4 | 4 | \$48.73 | \$29.90 |
| WXR5140150504 | END MILL | WINNER | 4F D1.5xR0.5x2.3/4/50-4 | 9 | \$48.73 | \$29.90 |
| WXR5140300114 | END MILL | WINNER | 4F D3.0xR0.1x4.5/14/60-6 | 11 | \$56.89 | \$34.91 |
| WXR5140300135 | END MILL | WINNER | 4F D3.0xR0.1x4.5/35/70-6 | 4 | \$67.55 | \$41.45 |
| WXR5140300212 | END MILL | WINNER | 4F D3.0xR0.2x4.5/12/50-6 | 8 | \$55.05 | \$33.78 |
| WXR5140300526 | END MILL | WINNER | 4F D3.0xR0.5x4.5/26/65-6 | 5 | \$57.73 | \$35.42 |
| WXR5140400535 | END MILL | WINNER | 4F D4.0xR0.5x6/35/70-6 | 1 | \$67.55 | \$41.45 |



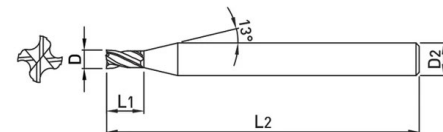
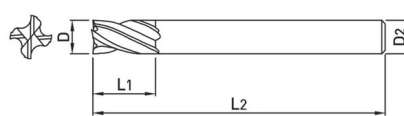
CHAMFER END MILLS - 3 FLUTE - REGULAR CUT LENGTH, TiAlN+SH COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|--------|-----------------|------|---------|----------------|
| XCC503035 | END MILL | X-STAR | 3F D3.5x10/50-6 | 15 | \$60.65 | \$37.22 |



CORNER RADIUS END MILLS - 3 FLUTE - REGULAR CUT LENGTH, TiAlN+SH COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------|----------------------|------|---------|----------------|
| XCR5030605S | END MILL | X-STAR | 3F D6.0xR0.5x10/50-6 | 10 | \$51.84 | \$31.80 |
| XCR5030805 | END MILL | X-STAR | 3F D8.0xR0.5x20/60-8 | 9 | \$64.50 | \$39.57 |

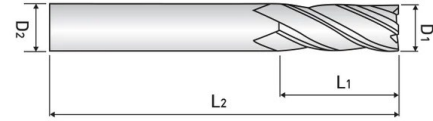


SQUARE - 4 FLUTE - 2 - 2.5XD, ALTiN+H COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------|---------------------|------|----------|----------------|
| XE504130 | END MILL | X-STAR | 4F D13.0 x 26/80-12 | 2 | \$123.39 | \$75.70 |



SQUARE - 4 FLUTE - 2 - 2.5XD, ALTiN+H COATING - METRIC

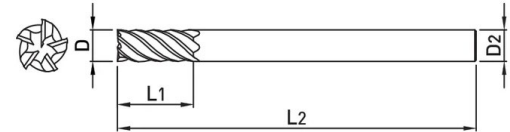


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|--------|-------------------------------|------|----------|-----------------|
| XE504A014 | END MILL | X-STAR | 4F D7/32"x7/16"/2-1/2"-1/4" | 28 | \$35.36 | \$21.70 |
| XE504A020F | END MILL | X-STAR | 4F D5/16"x13/16"/2-1/2"-5/16" | 14 | \$46.88 | \$28.75 |
| XE504A030 | END MILL | X-STAR | 4F D15/32"x1"/3"-1/2" | 23 | \$88.38 | \$54.21 |
| XE504A048F | END MILL | X-STAR | 4F D3/4"x1-1/2"/4"-3/4" | 5 | \$300.79 | \$184.53 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------|---------------------|------|---------|----------------|
| XE514010 | END MILL | X-STAR | 4F D1.0 x 2/10/45-4 | 13 | \$52.87 | \$32.43 |
| XE514020 | END MILL | X-STAR | 4F D2.0 x 3/12/45-4 | 24 | \$52.87 | \$32.43 |
| XE514040 | END MILL | X-STAR | 4F D4.0 x 5/16/50-6 | 10 | \$42.25 | \$25.93 |
| XE514080 | END MILL | X-STAR | 4F D8.0 x 9/26/60-8 | 14 | \$58.50 | \$35.89 |



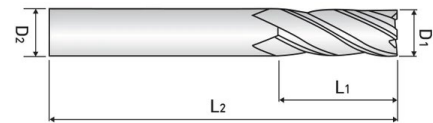
SQUARE - 5 FLUTE - REGULAR CUT LENGTH, TiALN+SH Coating - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------|--------------------|------|----------|-----------------|
| XE515160 | END MILL | X-STAR | 5F D16.0x75/150-16 | 4 | \$387.08 | \$237.45 |



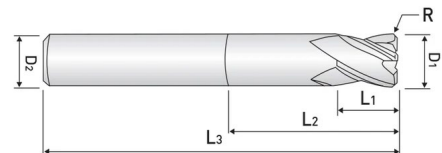
CORNER RADIUS - 5 FLUTE with EXTENDED NECK - REGULAR CUT LENGTH, TiALN+SH COATING - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|--------|-------------------------|------|----------|-----------------|
| XE515A048 | END MILL | X-STAR | 5F D3/4"x1-1/2"/4"-3/4" | 13 | \$330.88 | \$202.98 |



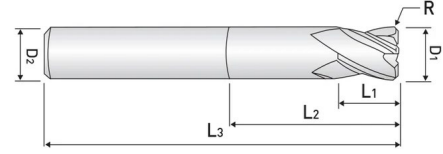
CORNER RADIUS - 4 FLUTE - 1.5 - 3XD, ALTiN+H COATING - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|--|------|----------|-----------------|
| XR504A020020 | END MILL | X-STAR | 4F D5/16"xR.020"x1/2"/2"-5/16" | 35 | \$38.25 | \$23.48 |
| XR504A024020F | END MILL | X-STAR | 4F D5/16"xR.020"x1/2"/2"-5/16",Weldon Flat | 6 | \$45.51 | \$27.91 |
| XR504A040030 | END MILL | X-STAR | 4F D5/8"xR.030"x3/4"/3"-5/8" | 47 | \$175.68 | \$107.77 |



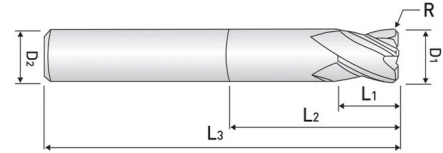
CORNER RADIUS - 4 FLUTE with LONG SHANK- STUB CUT LENGTH, ALTiN+H COATING - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|------------------------------------|------|----------|-----------------|
| XR514A018015 | END MILL | X-STAR | 4F D9/32"xR.015"x5/8"/2-1/2"-5/16" | 14 | \$49.36 | \$30.28 |
| XR514A024030F | END MILL | X-STAR | 4F D3/8"xR.030"x7/8"/2-1/2"-3/8" | 15 | \$58.39 | \$35.83 |
| XR514A032090 | END MILL | X-STAR | 4F D1/2"xR.090"x1"/3"-1/2" | 13 | \$93.04 | \$57.07 |
| XR514A040090F | END MILL | X-STAR | 4F D5/8"xR.090"x1-1/4"/3-1/2"-5/8" | 10 | \$204.10 | \$125.21 |



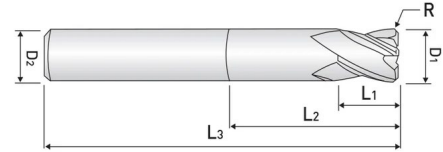
CORNER RADIUS - 5 FLUTE - REGULAR CUT LENGTH, TiAlN+SH Coating - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|--------|--------------------------------------|------|----------|-----------------|
| XR515A020015 | END MILL | X-STAR | 5F D5/16"xR.015"x13/16"/2-1/2"-5/16" | 62 | \$54.30 | \$33.31 |
| XR515A020020 | END MILL | X-STAR | 5F D5/16"xR.020"x13/16"/2-1/2"-5/16" | 25 | \$54.30 | \$33.31 |
| XR515A020030 | END MILL | X-STAR | 5F D5/16"xR.030"x13/16"/2-1/2"-5/16" | 48 | \$54.30 | \$33.31 |
| XR515A028020 | END MILL | X-STAR | 5F D7/16"xR.020"x1"/2-3/4"-7/16" | 16 | \$86.71 | \$53.19 |
| XR515A032060 | END MILL | X-STAR | 5F D1/2"xR.060"x1"/3"-1/2" | 29 | \$102.34 | \$62.78 |
| XR515A048030 | END MILL | X-STAR | 5F D3/4"xR.030"x1-1/2"/4"-3/4" | 15 | \$348.23 | \$213.63 |



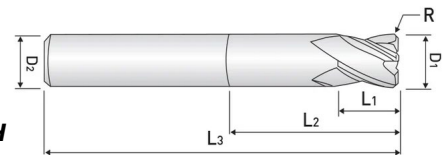
CORNER RADIUS - 4 FLUTE with LONG SHANK- STUB CUT LENGTH, ALTiN+H COATING - INCH



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|--------|------------------------------|------|---------|----------------|
| XR524A024020 | END MILL | X-STAR | 4F D3/8"xR.020"x7/8"/5"-3/8" | 81 | \$87.59 | \$53.74 |



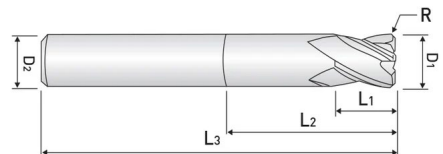
CORNER RADIUS - 5 FLUTE with EXTENDED NECK - REGULAR CUT LENGTH, TiAlN+SH COATING - INCH



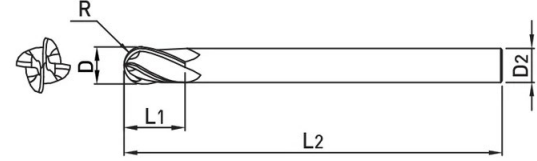
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|---------------------------------------|------|----------|-----------------|
| XR525A024015 | END MILL | X-STAR | 5F D3/8"xR.015"x1"/2.125"/4"-3/8" | 29 | \$105.99 | \$65.03 |
| XR525A032015 | END MILL | X-STAR | 5F D1/2"xR.015"x1-1/4"/2.125"/4"-1/2" | 18 | \$160.44 | \$98.42 |
| XR525A040015L | END MILL | X-STAR | 5F D5/8"xR.015"x1-3/4"/3.125"/5"-5/8" | 14 | \$307.53 | \$188.66 |
| XR525A048015 | END MILL | X-STAR | 5F D3/4"xR.015"x1-7/8"/3"/5"-3/4" | 8 | \$402.21 | \$246.74 |



CORNER RADIUS - 5 FLUTE with EXTENDED NECK & SHANK - REGULAR CUT LENGTH, TiAlN+SH COATING - INCH

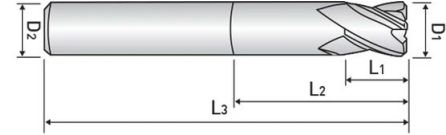


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|--------|---------------------------------------|------|----------|----------------|
| XR535A024015 | END MILL | X-STAR | 5F D3/8"xR.015"x1-1/4"/3.375"/6"-3/8" | 7 | \$116.59 | \$71.53 |
| XR535A024030 | END MILL | X-STAR | 5F D3/8"xR.030"x1-1/4"/3.375"/6"-3/8" | 50 | \$116.59 | \$71.53 |



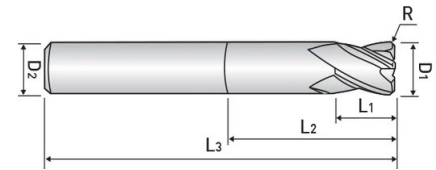
BALL NOSE - 4 FLUTE - VARIABLE HELIX - CUT LENGTH 5XD, TiAlN+SH COATING - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|--------|--------------------|------|----------|----------------|
| XXB504080 | END MILL | X-STAR | 4F R4.0 x15/100-8 | 1 | \$74.81 | \$45.89 |
| XXB504120 | END MILL | X-STAR | 4F R6.0 x25/110-12 | 3 | \$156.57 | \$96.05 |



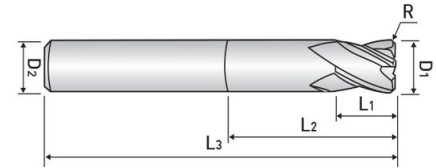
SQUARE - 4 FLUTE with EXTENDED NECKS - STUB CUT LENGTH, TiAlN+SH COATING - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|--------|------------------------------|------|---------|----------------|
| XXE534A016 | END MILL | X-STAR | 4F D1/4"x3/8"/1-1/4"/4"-1/4" | 95 | \$48.47 | \$29.73 |



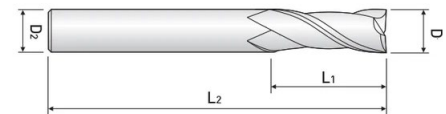
CORNER RADIUS - 4 FLUTE - 1.5 - 3XD, ALTiAlN+SH COATING - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|--|------|---------|----------------|
| XXR504A010015 | END MILL | X-STAR | 4F 5/32X5/16X2X3/16,4FL, 38H,CR. .015, Stub length | 67 | \$27.05 | \$16.60 |
| XXR504A024020 | END MILL | X-STAR | 4F D3/8"xR.020"x5/8"/2"-3/8" | 8 | \$46.88 | \$28.75 |



CORNER RADIUS - 4 FLUTE - STUB CUT LENGTH, ALTiAlN+SH COATING - INCH

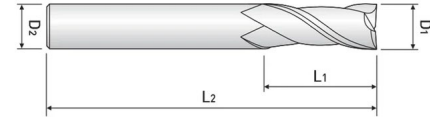
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|--------|--------------------------------------|------|---------|----------------|
| XXR514A020015 | END MILL | X-STAR | 4F D5/16"xR.015"x13/16"/2-1/2"-5/16" | 5 | \$49.36 | \$30.28 |
| XXR514A032020 | END MILL | X-STAR | 4F D1/2"xR.020"x1"/3"-1/2" | 24 | \$93.04 | \$57.07 |
| XXR514A033060 | END MILL | X-STAR | 4F D1/2"xR.060"x1-1/4"/3-1/4"-1/2" | 92 | \$97.71 | \$59.94 |
| XXR514A033125 | END MILL | X-STAR | 4F D1/2"xR.125"x1-1/4"/3-1/4"-1/2" | 4 | \$97.71 | \$59.94 |



SQUARE - STANDARD LENGTH - 2 FLUTE, ALTiN COATING, GENERAL PURPOSE END MILL - INCH

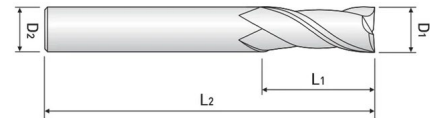
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|-----------------|-----------------------------|------|---------|----------------|
| ZA302013 | END MILL | GENERAL PURPOSE | 2F D13/64"x5/8"/2-1/2"-1/4" | 15 | \$13.39 | \$8.22 |
| ZA302020X | END MILL | GENERAL PURPOSE | 2F D5/16"x1-5/8"/4"-5/16" | 10 | \$33.20 | \$20.37 |

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|-----------------|-----------------|------|----------|-----------------|
| ZA304064LSF | END MILL | GENERAL PURPOSE | 4F D1"x4"/7"-1" | 15 | \$310.82 | \$190.69 |



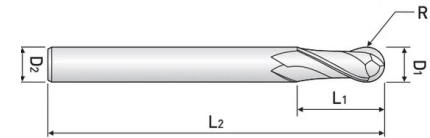
SQUARE END - 6 & 8 FLUTES - LONG CUT & OVERALL LENGTH - ALTiN COATING - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|--------------------|---------------------------------------|------|---------|----------------|
| ZA506024 | END MILL | ZAMUS CLASSIC-INCH | 6F D3/8"x7/8"/2-7/8"-3/8" | 22 | \$98.18 | \$60.22 |
| ZA506024F | END MILL | ZAMUS CLASSIC-INCH | 6F D3/8"x7/8"/2-7/8"-3/8",WELDON FLAT | 17 | \$93.50 | \$57.36 |



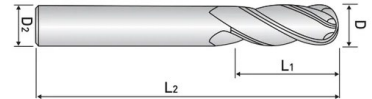
CORNER RADIUS - 2 FLUTES - STUB CUT LENGTH - A LTiN COATING - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|--------------------|-------------------------|------|---------|----------------|
| ZA526016 | END MILL | ZAMUS CLASSIC-INCH | 6F D1/4"x1"/2-3/4"-1/4" | 59 | \$69.64 | \$42.72 |



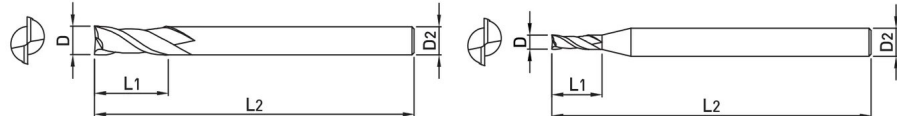
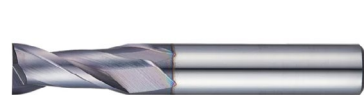
BALL - STUB LENGTH - 2 FLUTE , ALTiN COATING, GENERAL PURPOSE END MILL - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|-----------------|------------------------------|------|---------|----------------|
| ZB302006S | END MILL | GENERAL PURPOSE | 2F D3/32"x3/32"/1-1/2"-1/8" | 14 | \$8.45 | \$10.37 |
| ZB302020S | END MILL | GENERAL PURPOSE | 2F D5/16"x9/16"/2-1/2"-5/16" | 14 | \$21.75 | \$26.69 |

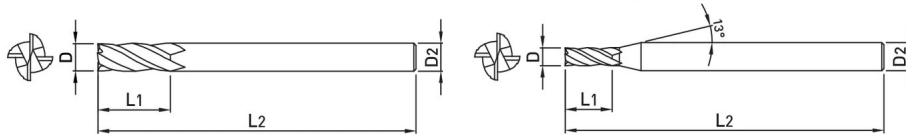


BALL - STUB LENGTH - 4 FLUTE , ALTiN COATING, GENERAL PURPOSE END MILL - INCH

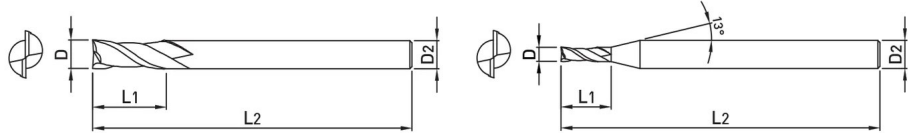
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|-----------------|-----------------------------|------|---------|----------------|
| ZB304006S | END MILL | GENERAL PURPOSE | 4F D3/32"x3/16"/1-1/2"-1/8" | 48 | \$8.45 | \$10.37 |
| ZB304016F | END MILL | GENERAL PURPOSE | 4F D1/4"x3/4"/2-1/2"-1/4" | 26 | \$15.03 | \$18.44 |
| ZB304024F | END MILL | GENERAL PURPOSE | 4F D3/8"x1"/3"-3/8" | 39 | \$27.56 | \$33.82 |
| ZB304032F | END MILL | GENERAL PURPOSE | 4F D1/2"x1"/3"-1/2" | 49 | \$42.01 | \$51.55 |



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|---------------|------------------|------|---------|----------------|
| ZE302020 | END MILL | ZAMUS THUNDER | 2F D2.0 x 6/40-6 | 1 | \$20.31 | \$12.45 |

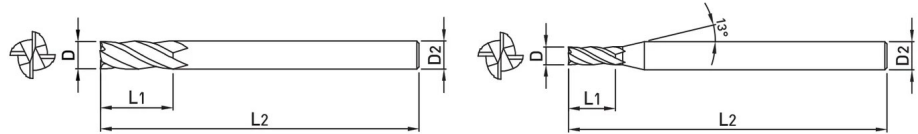


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|---------------|------------------|------|---------|----------------|
| ZE304015P | END MILL | ZAMUS THUNDER | 4F D1.5x4/50-6 | 11 | \$29.69 | \$18.22 |
| ZE304025 | END MILL | ZAMUS THUNDER | 4F D2.5 x 8/40-6 | 1 | \$22.81 | \$13.99 |



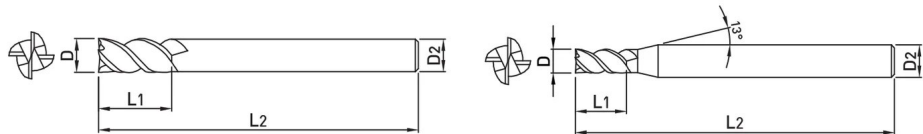
SQUARE-EXTRA-LONG LENGTH - 2 FLUTE , TIALN COATING, GENERAL PURPOSE END MILL – METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|---------------|--------------------|------|---------|----------------|
| ZE322061 | END MILL | ZAMUS THUNDER | 2F D6.0 x 30/100-6 | 6 | \$55.18 | \$33.84 |



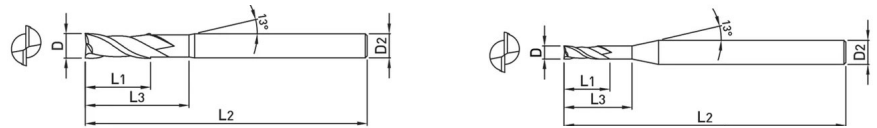
SQUARE-EXTRA-LONG LENGTH - 4 FLUTE , TIALN COATING, GENERAL PURPOSE END MILL – METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|---------------|-------------------|------|---------|----------------|
| ZE324051 | END MILL | ZAMUS THUNDER | 4F D5.0 x 20/80-6 | 5 | \$45.11 | \$27.67 |



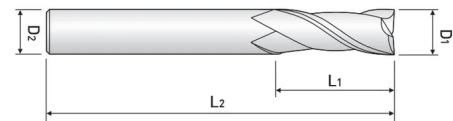
SQUARE REGULAR LENGTH - 4 FLUTE , ALTIN COATING, END MILL - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|----------------------|-------------------|------|---------|----------------|
| ZE514040 | END MILL | ZAMUS CLASSIC-METRIC | 4F D4.0 x 10/45-6 | 9 | \$45.25 | \$27.77 |



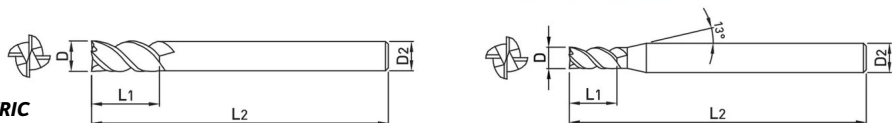
SQUARE - 2 FLUTE, EXTENDED NECK with 1XD CUT LENGTH - 30° HELIX - ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|------------|--------------------|------|---------|----------------|
| ZE702007 | END MILL | ZAMUS STAR | 2F D0.7 x 1.4/40-4 | 6 | \$55.20 | \$33.86 |



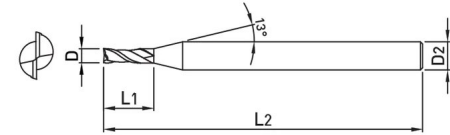
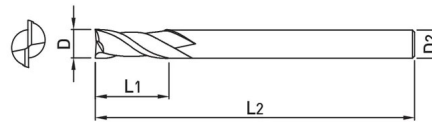
SQUARE - 2 FLUTE, REGULAR LENGTH - 30° HELIX - ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|------------|------------------|------|---------|----------------|
| ZE712015-06 | END MILL | ZAMUS STAR | 2F D1.5 x 6/40-6 | 5 | \$45.69 | \$28.04 |
| ZE712020 | END MILL | ZAMUS STAR | 2F D2.0 x 5/40-6 | 6 | \$45.69 | \$28.04 |



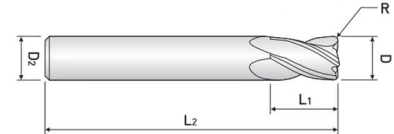
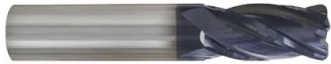
SQUARE - 2 FLUTE, REGULAR LENGTH - 30° HELIX - ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|------------|------------------|------|---------|----------------|
| ZE714012 | END MILL | ZAMUS STAR | 4F D1.2 x 3/40-6 | 10 | \$45.69 | \$28.04 |
| ZE714035 | END MILL | ZAMUS STAR | 4F D3.5 x 9/45-6 | 6 | \$47.91 | \$29.39 |



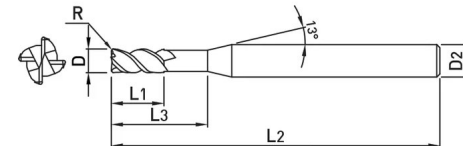
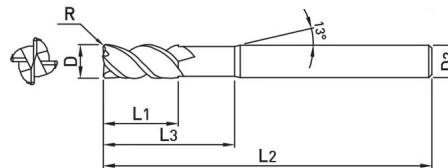
SQUARE REGULAR LENGTH - CHAMFERED - 2 FLUTE , ALTiN COATING, END MILL - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------|----------|----------------------|------------------|------|---------|----------------|
| ZM502020 | END MILL | ZAMUS CLASSIC-METRIC | 2F D2.0 x 8/40-4 | 5 | \$34.56 | \$21.21 |



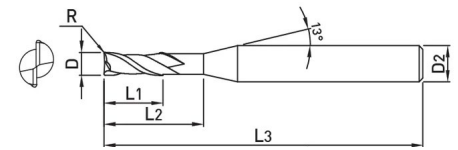
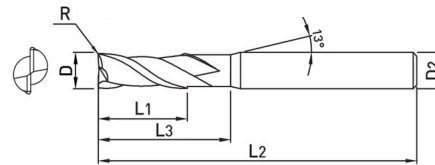
CORNER RADIUS - LONG LENGTH - 4 FLUTE, ALTiN COATING, GENERAL PURPOSE END MILL - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|-----------------|---|------|---------|----------------|
| ZR304A024045L | END MILL | GENERAL PURPOSE | 4F D3/8" x R.045" x 1-1/8" / 3-1/2" -3/8" | 105 | \$32.01 | \$39.28 |
| ZR304A024045X | END MILL | GENERAL PURPOSE | 4F D3/8" x R.045" x 1-3/4" / 4" -3/8" | 209 | \$40.19 | \$49.30 |
| ZR304A032060LS | END MILL | GENERAL PURPOSE | 4F D1/2" x R.060" x 3" / 6" -1/2" | 209 | \$80.77 | \$99.10 |



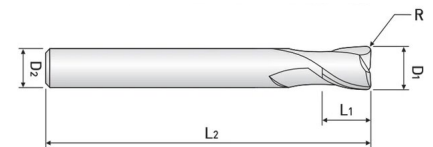
CORNER RADIUS - 4 FLUTES - STANDARD CUT LENGTH - TiAlN COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|---------------|------------------------------|------|----------|----------------|
| ZR324H1010 | END MILL | ZAMUS THUNDER | 4F D10.0 x R1.0x15/32/100-10 | 5 | \$112.18 | \$68.81 |



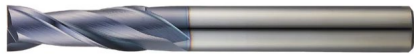
CORNER RADIUS -4 FLUTE with EXTENDED NECK - STUB CUT - ALTiN COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|----------------------|-----------------------------------|------|---------|----------------|
| ZR5020405 | END MILL | ZAMUS CLASSIC-METRIC | 2F D4.0xR0.5x6/10/55-6 | 2 | \$38.68 | \$23.72 |
| ZR5020605 | END MILL | ZAMUS CLASSIC-METRIC | 2F D6.0xR0.5x8/15/55-6 | 6 | \$38.68 | \$23.72 |
| ZR5020805 | END MILL | ZAMUS CLASSIC-METRIC | 2F D8.0xR0.5x10/20/65-8 | 8 | \$53.54 | \$32.84 |
| ZR5021010 | END MILL | ZAMUS CLASSIC-METRIC | 2F D10.0xR1.0x12/28/80-10 | 11 | \$82.53 | \$50.63 |
| ZR502A01220 | END MILL | ZAMUS CLASSIC-INCH | 2F D3/16"xR.020"x3/8"/2-1/2"-1/4" | 3 | \$36.06 | \$22.13 |

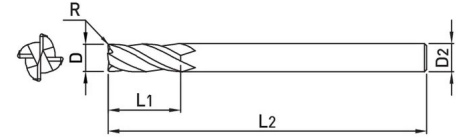


CORNER RADIUS - 4 FLUTES - REGULAR CUT LENGTH - ALTiN COATING - INCH

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|--------------------|----------------------------------|------|---------|----------------|
| ZR504A00820 | END MILL | ZAMUS CLASSIC-INCH | 4F D1/8"xR.020"x1/4"/2-1/4"-1/4" | 11 | \$36.06 | \$22.13 |



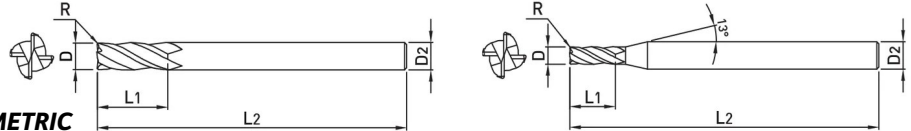
CORNER RADIUS - 2 FLUTE - LONG CUT - ALTiN COATING - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|----------------------|--------------------------|------|----------|----------------|
| ZR5140605 | END MILL | ZAMUS CLASSIC-METRIC | 4F D6.0 x R0.5x15/55-6 | 7 | \$42.58 | \$26.11 |
| ZR5141030 | END MILL | ZAMUS CLASSIC-METRIC | 4F D10.0 x R3.0x25/80-10 | 10 | \$80.85 | \$49.61 |
| ZR5141210 | END MILL | ZAMUS CLASSIC-METRIC | 4F D12.0 x R1.0x30/82-12 | 6 | \$108.08 | \$66.30 |



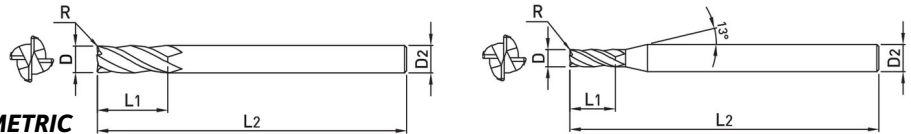
CORNER RADIUS - 4 FLUTE - LONG CUT - ALTiN COATING - METRIC



| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------|----------|----------------------|------------------------------------|------|----------|----------------|
| ZR5240605 | END MILL | ZAMUS CLASSIC-METRIC | 4F D6.0 x R0.5x13/90-6 | 25 | \$68.16 | \$41.82 |
| ZR5240610 | END MILL | ZAMUS CLASSIC-METRIC | 4F D6.0 x R1.0x13/90-6 | 18 | \$68.16 | \$41.82 |
| ZR524A01660 | END MILL | ZAMUS CLASSIC-INCH | 4F D1/4" x R.060" x 3/4" / 3"-1/4" | 14 | \$39.32 | \$24.13 |
| ZR524A03290 | END MILL | ZAMUS CLASSIC-INCH | 4F D1/2" x R.090" x 1" / 4"-1/2" | 6 | \$102.06 | \$62.61 |



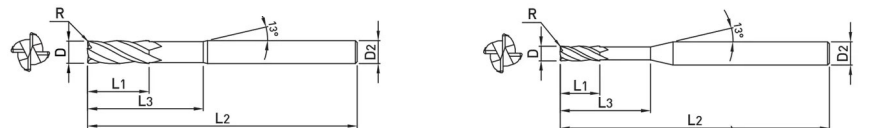
CORNER RADIUS - 4 FLUTE - LONG CUT - ALTiN COATING - METRIC



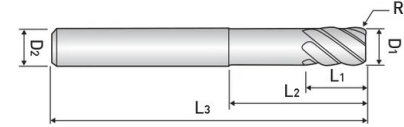
| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|----------------|----------|------------|----------------------------|------|---------|----------------|
| ZR7020150306S4 | END MILL | ZAMUS STAR | 2F D1.5 x R0.3x2.5/6/50-4 | 30 | \$57.28 | \$35.13 |
| ZR7020150510S4 | END MILL | ZAMUS STAR | 2F D1.5 x R0.5x2.5/10/50-4 | 24 | \$57.28 | \$35.13 |
| ZR7020200316S4 | END MILL | ZAMUS STAR | 2F D2.0 x R0.3x3/16/50-4 | 12 | \$57.28 | \$35.13 |
| ZR7020250308S4 | END MILL | ZAMUS STAR | 2F D2.5 x R0.3x3.5/8/50-4 | 10 | \$57.28 | \$35.13 |
| ZR7020300216 | END MILL | ZAMUS STAR | 2F D3.0 x R0.2x4.5/16/55-6 | 4 | \$59.35 | \$36.42 |
| ZR7020301025 | END MILL | ZAMUS STAR | 2F D3.0 x R1.0x4.5/25/60-6 | 6 | \$59.35 | \$36.42 |
| ZR7020400220 | END MILL | ZAMUS STAR | 2F D4.0 x R0.2x5/20/60-6 | 14 | \$59.35 | \$36.42 |
| ZR7020401012 | END MILL | ZAMUS STAR | 2F D4.0 x R1.0x6/12/55-6 | 10 | \$59.35 | \$36.42 |
| ZR7020401025 | END MILL | ZAMUS STAR | 2F D4.0 x R1.0x6/25/60-6 | 7 | \$59.35 | \$36.42 |



CORNER RADIUS - 4 FLUTE, EXTENDED NECK with 1.5XD CUT LENGTH - 30° HELIX - ALTiN+HH Coating - METRIC

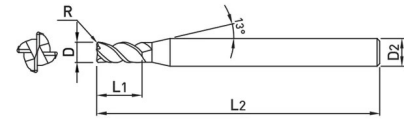
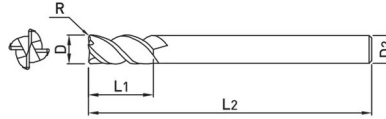


| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------------|----------|------------|---|------|----------|----------------|
| ZR7040300310 | END MILL | ZAMUS STAR | 4F D3.0 x R0.3x4/10/55-6 | 4 | \$69.36 | \$42.55 |
| ZR7040301010 | END MILL | ZAMUS STAR | 4F D3.0 x R1.0x4/10/55-6 | 12 | \$69.36 | \$42.55 |
| ZR7040400312 | END MILL | ZAMUS STAR | 4F D4.0 x R0.3x6/12/55-6 | 8 | \$69.36 | \$42.55 |
| ZR7040805005-2.5 | END MILL | ZAMUS STAR | 4F D.0805" x R.005" x .105" / 2-1/2" - 1/4" | 3 | \$107.06 | \$65.68 |



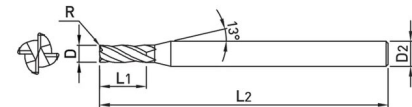
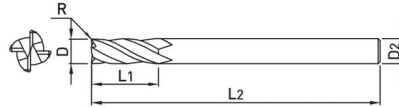
CORNER RADIUS - 4 FLUTES - STANDARD CUT LENGTH - TiAlN COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------------|----------|------------|---------------------------------------|------|----------|-----------------|
| ZR706A02420381SP | END MILL | ZAMUS STAR | 6F D3/8"xR.020"x1.025"/1-1/2"/3"-3/8" | 8 | \$175.78 | \$107.83 |



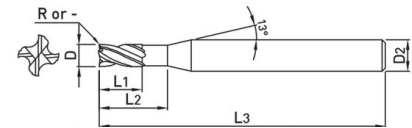
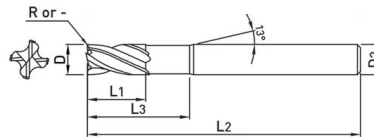
CORNER RADIUS - 4 FLUTE, REGULAR CUT LENGTH - 45° HELIX - ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------|----------|------------|------------------------|------|---------|----------------|
| ZR7140405 | END MILL | ZAMUS STAR | 4F D4.0 x R0.5x11/50-6 | 12 | \$62.40 | \$38.28 |
| ZR7140803 | END MILL | ZAMUS STAR | 4F D8.0 x R0.3x20/60-8 | 15 | \$72.53 | \$44.50 |



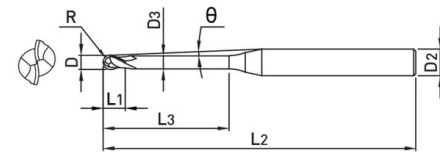
CORNER RADIUS - 4 FLUTE, REGULAR CUT LENGTH - 300 HELIX - ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------|----------|------------|------------------------|------|---------|----------------|
| ZR73401501 | END MILL | ZAMUS STAR | 4F D1.5 x R0.1x3/50-6 | 5 | \$70.81 | \$43.43 |
| ZR73402503 | END MILL | ZAMUS STAR | 4F D2.5 x R0.3x7/60-6 | 17 | \$72.90 | \$44.72 |
| ZR73405002 | END MILL | ZAMUS STAR | 4F D5.0 x R0.2x13/80-6 | 2 | \$85.37 | \$52.37 |
| ZR73405003 | END MILL | ZAMUS STAR | 4F D5.0 x R0.3x13/80-6 | 13 | \$85.37 | \$52.37 |



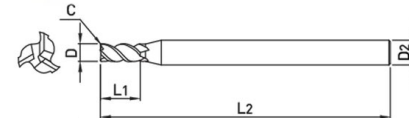
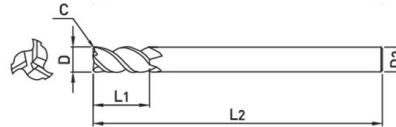
CORNER RADIUS - 4 FLUTES, NECKED WITH 1XD CUT LENGTH, ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|--------------|----------|------------|-----------------------------|------|----------|----------------|
| ZS2041001532 | END MILL | ZAMUS STAR | 4F D10.0 x R1.5x11/32/75-10 | 3 | \$114.05 | \$69.98 |



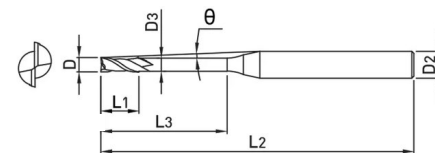
BALL - 2 FLUTE - LONG NECK - ALTiN+HH COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|------------|------------------------|------|----------|----------------|
| ZSLNB2004-3.5 | END MILL | ZAMUS STAR | 2F R0.2 x 0.3/3.5/50-4 | 6 | \$106.23 | \$65.17 |
| ZSLNB2012-10 | END MILL | ZAMUS STAR | 2F R0.6 x 1.1/10/50-4 | 10 | \$71.17 | \$43.66 |



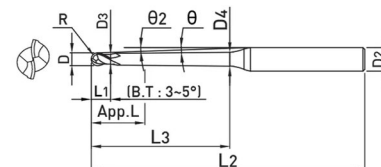
CORNER RADIUS - 2 FLUTE - LONG NECK - AITIN-HH COATING - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|------------------------|----------|------------|---------------------------|------|----------|----------------|
| ZSLNR2002-1-005 | END MILL | ZAMUS STAR | 2F D0.2xR0.05x0.15/1/50-4 | 12 | \$135.38 | \$83.04 |
| ZSLNR2003-2-005 | END MILL | ZAMUS STAR | 2F D0.3xR0.05x0.25/2/50-4 | 10 | \$108.29 | \$66.44 |
| ZSLNR2004-1-005 | END MILL | ZAMUS STAR | 2F D0.4xR0.05x0.3/1/50-4 | 10 | \$83.32 | \$51.12 |
| ZSLNR2010-10-02 | END MILL | ZAMUS STAR | 2F D1.0xR0.2x0.8/10/50-4 | 13 | \$62.51 | \$38.34 |
| ZSLNR2010-8-02 | END MILL | ZAMUS STAR | 2F D1.0xR0.2x0.8/8/50-4 | 7 | \$62.51 | \$38.34 |
| ZSLNR2015-4-01 | END MILL | ZAMUS STAR | 2F D1.5xR0.1x1.35/4/50-4 | 7 | \$62.51 | \$38.34 |
| ZSLNR403001-2.5/8/50-6 | END MILL | ZAMUS STAR | 4F D3.0xR0.1x2.5/8/50-6 | 21 | \$72.53 | \$44.50 |



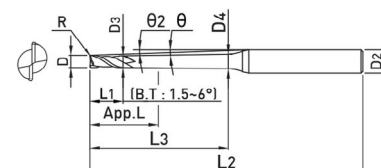
SQUARE 2 FLUTE - LONG NECK - ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|---------------|----------|------------|-----------------------|------|---------|----------------|
| ZSLNS2005-2.5 | END MILL | ZAMUS STAR | 2F D0.5x0.75/2.5/50-4 | 17 | \$60.41 | \$37.05 |
| ZSLNS2005-6 | END MILL | ZAMUS STAR | 2F D0.5x0.75/6/50-4 | 2 | \$62.51 | \$38.34 |
| ZSLNS2015-25 | END MILL | ZAMUS STAR | 2F D1.5x2.25/25/65-4 | 5 | \$63.82 | \$39.16 |
| ZSLNS2018-20 | END MILL | ZAMUS STAR | 2F D1.8x2.7/20/60-4 | 9 | \$61.46 | \$37.71 |
| ZSLNS2025-8 | END MILL | ZAMUS STAR | 2F D2.5x3.75/8/50-4 | 4 | \$56.95 | \$34.95 |
| ZSLNS4015-14 | END MILL | ZAMUS STAR | 4F D1.5x2.25/14/55-4 | 9 | \$61.44 | \$37.69 |
| ZSLNS4020-20 | END MILL | ZAMUS STAR | 4F D2.0x3/20/60-4 | 9 | \$61.44 | \$37.69 |
| ZSLNS4040-25 | END MILL | ZAMUS STAR | 4F D4.0x6/25/70-6 | 7 | \$68.74 | \$42.17 |



BALL END - 2 FLUTE - TAPER NECK & BACKDRAFT - ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-----------------|----------|------------|---------------------|------|----------|----------------|
| ZSTNB2008-12-09 | END MILL | ZAMUS STAR | 2F R0.4x0.5/12/55-4 | 21 | \$104.14 | \$63.88 |
| ZSTNB2030-30-04 | END MILL | ZAMUS STAR | 2F R1.5x2.5/30/70-6 | 4 | \$99.98 | \$61.33 |
| ZSTNB3020-40-09 | END MILL | ZAMUS STAR | 3F R1.0x1.7/40/80-6 | 8 | \$118.71 | \$72.82 |



CORNER RADIUS - 2 FLUTE - TAPER NECK & BACKDRAFT - ALTiN+HH Coating - METRIC

| PART# | TYPE | SERIES | DESCRIPTION | QTY. | LIST | SALE |
|-------------------|----------|------------|---------------------------|------|----------|----------------|
| ZSTNR2008-6-0402 | END MILL | ZAMUS STAR | 2F D0.8xR0.2x0.5/6/50-4 | 14 | \$95.80 | \$58.77 |
| ZSTNR2010-10-0902 | END MILL | ZAMUS STAR | 2F D1.0xR0.2x0.8/10/55-6 | 2 | \$89.55 | \$54.95 |
| ZSTNR2010-15-0902 | END MILL | ZAMUS STAR | 2F D1.0xR0.2x0.8/15/60-6 | 8 | \$121.88 | \$74.76 |
| ZSTNR2010-8-0403 | END MILL | ZAMUS STAR | 2F D1.0xR0.3x0.8/8/55-6 | 5 | \$89.55 | \$54.95 |
| ZSTNR2015-10-0402 | END MILL | ZAMUS STAR | 2F D1.5xR0.2x1.35/10/55-6 | 8 | \$89.55 | \$54.95 |
| ZSTNR2015-10-0403 | END MILL | ZAMUS STAR | 2F D1.5xR0.3x1.35/10/55-6 | 6 | \$89.55 | \$54.95 |
| ZSTNR2020-25-0905 | END MILL | ZAMUS STAR | 2F D2.0xR0.5x1.7/25/65-6 | 5 | \$95.80 | \$58.77 |