

High-Precision Shoulder Milling Cutter

Wavemill WEZ Series

Ultra-Refined "Universal" Cutter

Expansion Inserts



"WaveMill" Series

WEZ Type



General Features

Supports Various Machining Operations

Applicable to various machining applications, the cutter lineup includes diameters of Ø 14 mm to Ø 160 mm, enabling large ramping.

Excellent Machining Quality

With a combination of optimised cutting edge shape and high-precision molding technology, superb wall surface accuracy and surface finish quality are achieved.

Excellent Sharpness with Low Resistance

Reduces machining noise and suppresses burrs. Lineup includes ground inserts with a focus on sharpness.

General-purpose Grade Applicable to any Work Material

Introducing the new grade ACU2500, supporting machining in a wide range of fields and applicable to steel, stainless steel and cast iron.

Product Range

| Type | Cat. No. | Diameter Range (mm) / No of Teeth | | | | | | | | | | | | | | | | |
|-------|-------------------|-----------------------------------|-----|-----|--------|-----|-----------|-----|-----|-------------|------|---------|--------|--------|-------|-------|----------|-----------|
| | | Ø14 | Ø16 | Ø18 | Ø20 | Ø22 | Ø25 | Ø28 | Ø30 | Ø32 | Ø35 | Ø40 | Ø50 | Ø63 | Ø80 | Ø100 | Ø125 | Ø160 |
| Shell | WEZ 11000RS | | | | | | | | | | | 4, 6 | 5, 7 | 6, 8 | 7, 10 | 9, 12 | | |
| | WEZ 11000R (Inch) | | | | | | | | | | | | | | 7, 10 | 9, 12 | | |
| | WEZ 17000RS | | | | | | | | | | | 3, 4 | 3, 5 | 4, 6 | 4, 7 | 5, 8 | 6, 9, 11 | 8, 10, 12 |
| | WEZ 17000R (Inch) | | | | | | | | | | | | | | 4, 7 | 5, 8 | 6, 9, 11 | 8, 10, 12 |
| Shank | WEZ 11000E | 1 | 2* | 2 | 2*, 3* | 3 | 2, 3*, 4* | 4 | 4 | 2, 3, 4, 5* | 5 | 2, 4, 6 | 5, 7 | 8 | 10 | | | |
| | WEZ 11000EL | 1 | 2* | 2 | 2* | 2 | 2*, 3 | 2 | 2 | 2*, 3 | 2, 3 | 2 | 3 | | | | | |
| | WEZ 17000E | | | | | | 2* | 2 | 3 | 2, 3* | 3 | 3, 4 | 3*, 5* | 4*, 6* | 7 | | | |
| | WEZ 17000EL | | | | | | 2 | 2 | 2 | 2*, 3 | 2 | 2, 3, 4 | 3*, 5* | 4*, 6* | | | | |

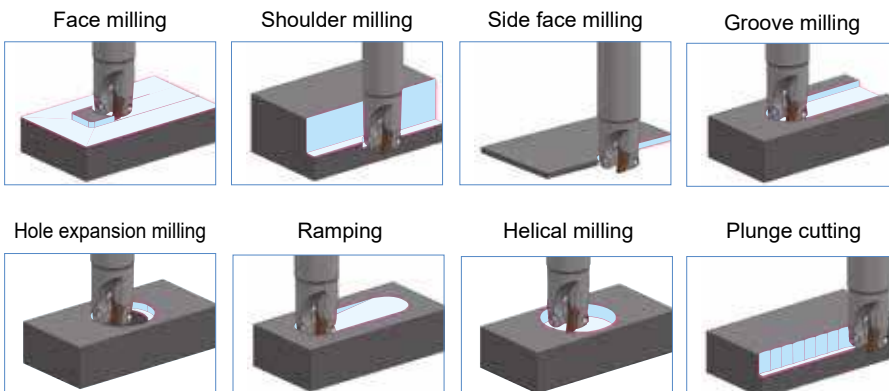
* Different shank diameters in stock

Suitable Applications

- Supports Ramping, Helical Milling, Plunge Cutting

Optimised Body Design

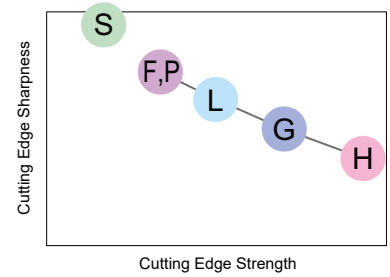
Wide guide face for stable insert clamping.



WEZ11 type

Chipbreaker Lineup

| Work Material | P | | M | K | S | H | N |
|-------------------------------------|---|--|---|---|---|---------------------------|---|
| | L Type | G Type | H Type | F Type | P Type | S Type | |
| Chipbreaker | | | | | | | |
| AO_T11 Cutting edge geometrie | | | | | | | |
| AO_T17 Cutting edge geometrie | | | | | | | |
| Applications | Light cut, low rigidity machining | Main breaker for general purpose to interrupted machining | Heavy cut, heavy interrup- ted machining, hardened steel | Light cut, finishing, low-burr design | Light cut, high-precision machining, high surface wall quality | For non-ferrous metals | |



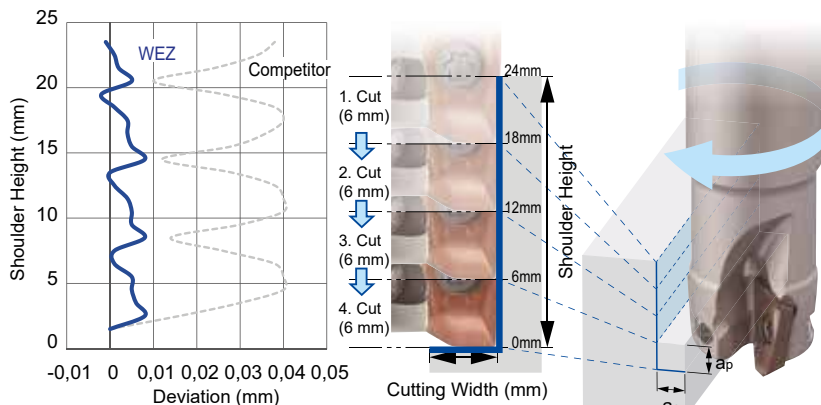
Product Range Inserts

Main Grade: ACU2500; S-Type: H20, DL2000

| Cat. No. | Nose Radius (mm) | | | | | | | | | | | | | |
|--------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | R0,2 | R0,4 | R0,5 | R0,8 | R1,0 | R1,2 | R1,6 | R2,0 | R2,4 | R3,0 | R3,2 | R4,0 | R5,0 | R6,4 |
| AOMT 11T3 PEER-G | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| AOMT 11T3 PEER-H | | ● | | ● | | ● | ● | | | | | | | |
| AOET 11T3 PEER-F | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| AOET 11T3 PEER-P16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| AOET 11T3 PEER-P20 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| AOET 11T3 PEER-P25 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| AOET 11T3 PEFR-S | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| AOMT 1705 PEER-L | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| AOMT 1705 PEER-G | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| AOMT 1705 PEER-H | | ● | | ● | | ● | ● | | | | | | | |
| AOET 1705 PEER-F | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| AOET 1705 PEER-P25 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| AOET 1705 PEER-P32 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| AOET 1705 PEFR-S | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

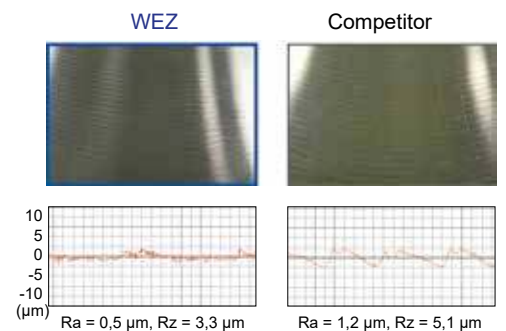
Improved Milling Quality

● Excellent Squareness

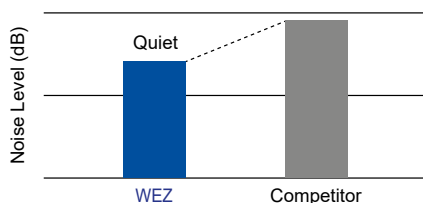


Machine: Vertical Machining Centre BT40,
 Work Material: C50
 Tool: WEZ 11020 E03 (Ø 20, 3 teeth)
 Insert: AOMT11T308PEER-G (ACU2500)
 Cutting Conditions: $v_c = 150$ m/min, $f_z = 0,15$ mm/t, $a_p = 6$ mm x 4 passes, $a_e = 5$ mm, dry

● Excellent Surface Quality



● Lower cutting force helps reduce machining noise



Machine: Vertical Machining Centre BT40,
 Work Material: C50
 Tool: WEZ 11020 E03 (Ø 20, 3 teeth)
 Insert: AOMT11T308PEER-G (ACU2500)
 Cutting Conditions: $v_c = 150$ m/min, $f_z = 0,15$ mm/t, $a_p = 8$ mm, $a_e = 5$ mm, dry

● = Euro stock

● = Coming soon

"WaveMill" Series

WEZ Type

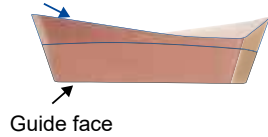
High-precision Ground Class Insert with Excellent Sharpness

Ground Finish on Cutting Edge and Guide Face

The guide face has a ground finish as well as the cutting edge, minimizing corner difference when mounting on the body.

Stable runout precision and machining quality.


Cutting edge flank



Lineup of Chipbreakers for Ground Inserts

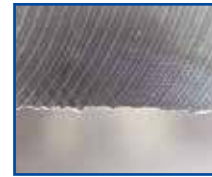
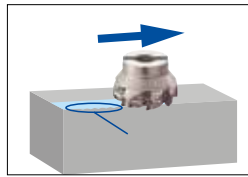
F Type

Cutting edge specialized for sharpness and machining accuracy



Sharpness from ground finish enables burr control.


Excellent squareness with all diameters.



Machine: Vertical Machining Centre BT50,
 Work Material: X5CrNiS18 9
 Tool: WEZ 11050 RS07 (Ø 50, 7 teeth)
 Insert: AOET11T308PEER-F (ACU2500)
 Cutting Conditions: $v_c = 120$ m/min, $f_z = 0,12$ mm/t, $a_p = 1$ mm, $a_e = 30$ mm, dry

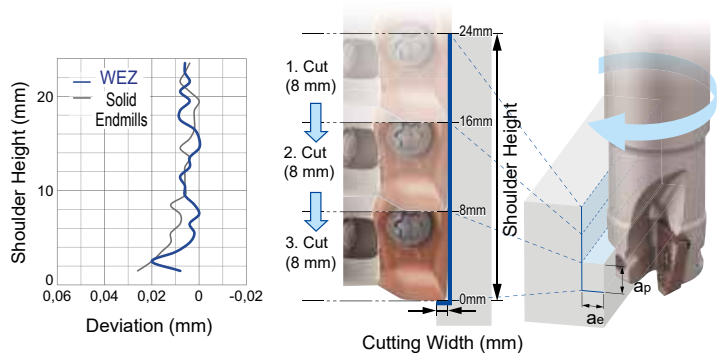
P Type

Chipbreaker for wall surface squareness equivalent to solid endmills



Premium item with cutting edge shape optimised for each cutter diameter while maintaining the F type chipbreaker's sharpness.

Enables wall surface squareness equal to solid endmills through a blade shape optimised for each tool diameter.




P Type Chipbreaker Selection

| Cat. No. | Cutter Diameter (mm) | | | | | | | | | | |
|--------------------|----------------------|------|-----|------|-----|------|-----|------|-----|-----|-------|
| | Ø14 | Ø16 | Ø18 | Ø20 | Ø22 | Ø25 | Ø28 | Ø30 | Ø32 | Ø35 | ⇒ Ø40 |
| AOET11T3__PEER-P__ | -P16 | -P20 | - | -P25 | - | - | - | - | - | - | - |
| AOET1705__PEER-P__ | - | - | - | - | - | -P25 | - | -P32 | - | - | - |

Machine: Vertical Machining Centre BT50,
 Work Material: C50
 Tool: WEZ 11020 E03 (Ø 20, 3 teeth)
 Insert: AOET11T308PEER-P20 (ACU2500)
 Cutting Conditions: $v_c = 150$ m/min, $f_z = 0,1$ mm/t, $a_p = 8$ mm x 3 passes, $a_e = 1$ mm, dry

S Type

Sharp edge chipbreaker for non-ferrous metals, with excellent adhesion resistance



Suppresses adhesion with rake face lapping.

DLC coat inserts available for further improved adhesion resistance.

WEZ

Competitor A

Competitor B



No Adhesion



Adhesion



Adhesion

Machine: Vertical Machining Centre BT50,
 Work Material: AlSi12Cu
 Tool: WEZ 11020 E03 (Ø 20, 3 teeth)
 Insert: AOET11T308PEER-S (H20)
 Cutting Conditions: $v_c = 350$ m/min, $f_z = 0,1$ mm/t, $a_p = 3$ mm, $a_e = 10$ mm, dry

Insert Grades Selection Guide

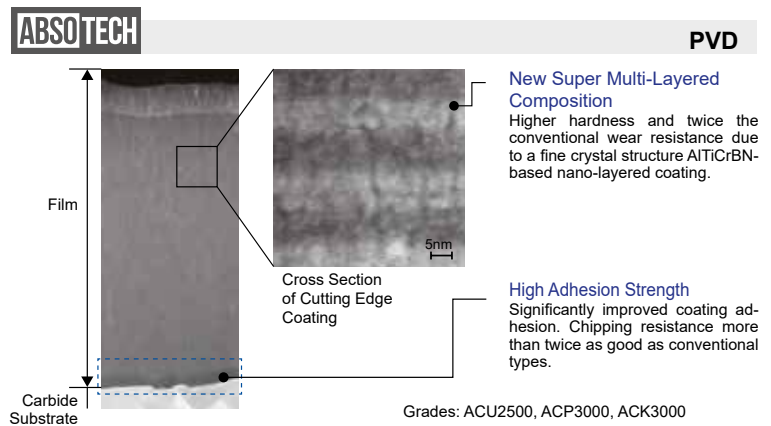
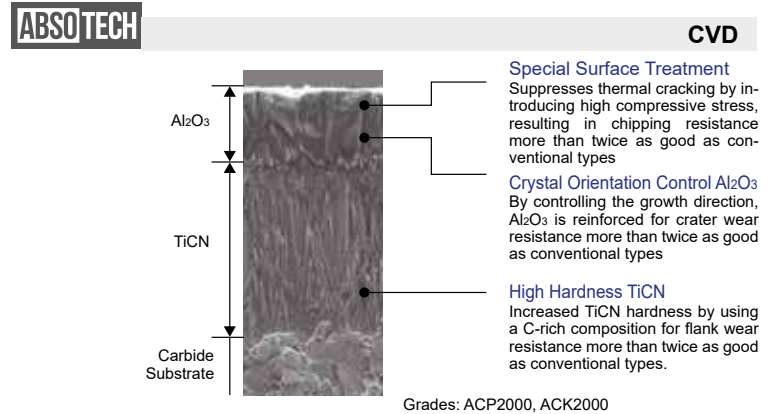
Newly developed general-purpose ACU2500 grade suitable for various work materials has been released. Enhanced lineup of coatings, cemented carbide and cermet for milling steel, stainless steel, cast iron and aluminum alloy.

| ISO | | Finishing – Light Cutting | Medium Cutting | Rough – Heavy Cutting |
|-----|----------------|---------------------------|----------------|-----------------------|
| P | Coated Carbide | ACP2000 ACU2500 | ACP3000 | |
| | Cermet | T2500A | | |
| | Coated Carbide | ACU2500 ACM200 | ACM300 | |
| K | Coated Carbide | ACK2000 ACK3000 | ACU2500 | |
| | Coated Carbide | DL2000 | | |
| N | Coated Carbide | | | |
| | Carbide | | H20 | |

▽: CVD ▲: PVD

Coating Features

New Absotech™ (absolute technology) coating technology that realises absolute stability.

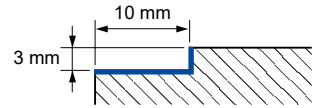


| ISO | Grade | Coating Thickness (μm) | Features |
|-------------|---------|------------------------|--|
| P M K | ACU2500 | 3 | General purpose grade applicable to steel and cast iron. Adopts a carbide substrate with excellent fracture resistance and wear resistance plus a new coating with excellent wear resistance and chipping resistance, realising stable long tool life with various work material grades. |
| P | ACP2000 | 10 | Stable long tool life with high-speed machining is realised by adopting a new coating and a tough carbide substrate with excellent thermal crack resistance. |
| | ACP3000 | 3 | Adopts a very tough carbide substrate plus a new coating with excellent wear resistance and chipping resistance, realising stable long tool life for wet machining of steel in particular. |
| | T2500A | – | Thanks to the excellent thermal crack resistance conferred by high thermal conductivity and the improved toughness due to the finer and more uniform structure, this cermet grade achieves high levels of fracture resistance and wear resistance. |
| M | ACM200 | 6 | Realises superb stability in machining of high-hardness stainless steel, due to a high-strength carbide substrate and highly wear-resistant coating. |
| | ACM300 | 3 | Realises superb stability in machining of stainless steel, due to a high-strength carbide substrate and highly chipping-resistant coating. |
| K | ACK2000 | 10 | Stable long tool life with high-speed machining of cast iron is realised by adopting a new coating with excellent thermal resistance and a tough carbide substrate. |
| | ACK3000 | 3 | Adopts a carbide substrate with excellent wear resistance plus a new coating with excellent wear resistance and chipping resistance, realising stable long tool life in dry machining of cast iron. |
| N | DL2000 | 0,5 | DLC coating grade for non-ferrous metal machining with a low coefficient of friction and excellent adhesion resistance. |
| | H20 | – | Uncoated grade for non-ferrous metal machining with excellent wear resistance and fracture resistance. |

Recommended Cutting Conditions

WEZ11 Type

Cutter: WEZ 11020 E03
 Insert: AO_T11T3 type
 Cutting Data: $a_p = 3 \text{ mm}$, $a_e = 10 \text{ mm}$, dry



Min. - Optimum - Max.

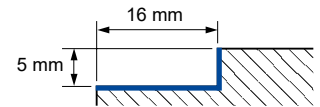
| ISO | Material | HB | Chipbreaker | Grade | | | | | | | | |
|--------------|--|-----|-------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | ACU2500 | ACP2000 | ACP3000 | T2500A | ACK2000 | ACK3000 | ACM200 | ACM300 | DL2000 |
| | | | | Feed Rate (mm/tooth) | | | | | | | | |
| | | | | 0,08-0,15-0,20 | 0,08-0,15-0,20 | 0,08-0,15-0,20 | 0,08-0,15-0,18 | 0,08-0,15-0,20 | 0,08-0,15-0,20 | 0,08-0,15-0,20 | 0,08-0,15-0,20 | 0,05-0,10-0,15 |
| | | | | Cutting Speed v_c (m/min) | | | | | | | | |
| P | Unalloyed steel, <0, 15%C, annealed | 125 | G | 270-320-370 | 300-350-400 | 250-300-350 | 230-280-330 | | | | | |
| | " , <0, 45%C, annealed | 190 | G | 170-220-270 | 200-250-300 | 150-200-250 | 130-180-230 | | | | | |
| | " , <0, 45%C, tempered | 250 | G | 140-180-220 | 160-200-245 | 120-160-200 | 105-145-185 | | | | | |
| | " , <0, 75%C, annealed | 270 | G | 110-145-175 | 130-165-195 | 100-130-165 | 85-115-150 | | | | | |
| | " , <0, 75%C, tempered | 300 | G | 70-90-110 | 80-100-120 | 60-80-100 | 50-70-90 | | | | | |
| | Low alloyed steel, annealed | 180 | G | 160-205-255 | 190-235-280 | 140-190-235 | 120-170-215 | | | | | |
| | " , tempered | 275 | G | 90-120-150 | 110-135-165 | 80-110-140 | 70-100-125 | | | | | |
| | " , tempered | 300 | G | 85-110-130 | 100-125-150 | 75-100-125 | 65-90-115 | | | | | |
| | " , tempered | 350 | G | 60-80-100 | 70-90-110 | 50-70-90 | 45-65-85 | | | | | |
| | High alloyed and tool steel, annealed | 200 | G | 140-180-220 | 160-200-245 | 120-160-205 | | | | | | |
| " , tempered | 325 | G | 55-70-85 | 60-80-100 | 50-65-80 | | | | | | | |
| M | Stainless steel, ferritic/martensitic, annealed | 200 | G | 110-140-170 | | | | | 140-170-190 | 90-110-140 | | |
| | " , martensitic, tempered | 240 | G | 100-125-150 | | | | | 125-150-170 | 80-100-125 | | |
| | " , austenitic, plunged | 180 | G | 120-150-180 | | | | | 150-180-200 | 100-120-150 | | |
| K | Grey cast iron | | G | 150-200-250 | | | 250-300-350 | 170-220-270 | | | | |
| | Nodular cast iron | | G | 90-120-150 | | | 150-180-210 | 100-130-160 | | | | |
| S | High tempered resist. alloys, Fe based, annealed | | G | 30-40-55 | | | | | 35-45-60 | 25-35-50 | | |
| | " , hardened | | G | 60-80-100 | | | | | 70-90-110 | 50-70-90 | | |
| N | Aluminium alloy, Si < 12,6% | | S | | | | | | | | | 500-750-1000 |
| | " , Si > 12,6% | | S | | | | | | | | | 170-200-250 |
| | Copper alloy | | S | | | | | | | | | 300-330-350 |

The above recommended cutting conditions are meant as a guide. Actual conditions will depend on the individual machine, work shape and clamping. They will need to be adjusted according to machine rigidity, work clamp rigidity, cutting depth and other factors.

For groove milling, reduce the feed rate approximately 70 % of the corresponding value shown above.

WEZ17 Type

Cutter: WEZ 17032 E03
 Insert: AO_T1705 type
 Cutting Data: $a_p = 5 \text{ mm}$, $a_e = 16 \text{ mm}$, dry



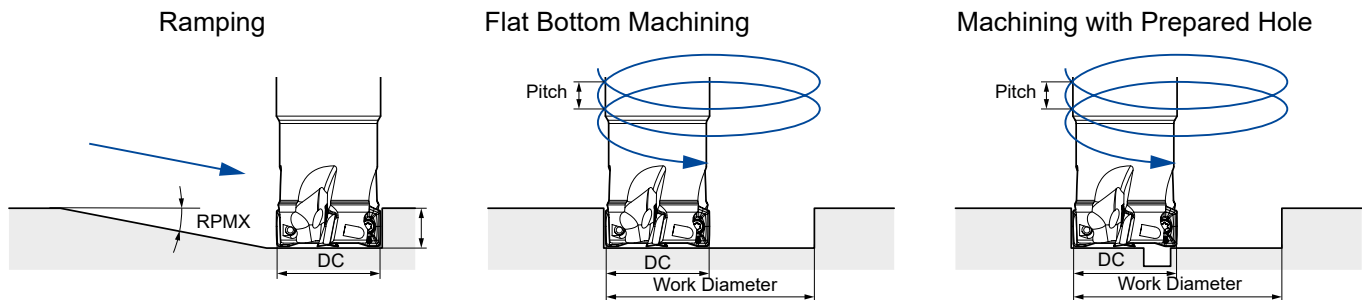
Min. - Optimum - Max.

| ISO | Material | HB | Chipbreaker | Grade | | | | | | | | |
|--------------|--|-----|-------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| | | | | ACU2500 | ACP2000 | ACP3000 | T2500A | ACK2000 | ACK3000 | ACM200 | ACM300 | DL2000 |
| | | | | Feed Rate (mm/tooth) | | | | | | | | |
| | | | | 0,10-0,20-0,28 | 0,10-0,20-0,28 | 0,10-0,20-0,28 | 0,10-0,15-0,22 | 0,10-0,20-0,28 | 0,10-0,20-0,28 | 0,10-0,20-0,28 | 0,05-0,10-0,15 | |
| | | | | Cutting Speed v_c (m/min) | | | | | | | | |
| P | Unalloyed steel, <0, 15%C, annealed | 125 | G | 285-335-390 | 315-360-420 | 265-315-370 | 240-295-345 | | | | | |
| | " , <0, 45%C, annealed | 190 | G | 180-230-285 | 210-265-315 | 160-210-265 | 135-190-240 | | | | | |
| | " , <0, 45%C, tempered | 250 | G | 145-190-230 | 170-210-255 | 130-170-215 | 110-155-195 | | | | | |
| | " , <0, 75%C, annealed | 270 | G | 115-150-185 | 135-170-205 | 100-135-170 | 90-125-155 | | | | | |
| | " , <0, 75%C, tempered | 300 | G | 70-90-115 | 85-105-125 | 65-85-105 | 55-75-95 | | | | | |
| | Low alloyed steel, annealed | 180 | G | 170-220-265 | 200-245-295 | 150-200-250 | 130-180-225 | | | | | |
| | " , tempered | 275 | G | 100-130-155 | 115-145-175 | 85-115-145 | 75-105-135 | | | | | |
| | " , tempered | 300 | G | 90-115-140 | 105-130-155 | 75-105-130 | 65-90-120 | | | | | |
| | " , tempered | 350 | G | 65-85-100 | 75-95-115 | 55-75-95 | 50-70-85 | | | | | |
| | High alloyed and tool steel, annealed | 200 | G | 145-185-230 | 170-215-255 | 130-170-215 | | | | | | |
| " , tempered | 325 | G | 55-75-90 | 65-85-100 | 50-65-85 | | | | | | | |
| M | Stainless steel, ferritic/martensitic, annealed | 200 | G | 115-145-175 | | | | | 145-175-195 | 100-115-145 | | |
| | " , martensitic, tempered | 240 | G | 105-130-155 | | | | | 130-155-175 | 85-105-130 | | |
| | " , austenitic, plunged | 180 | G | 125-155-190 | | | | | 160-190-210 | 105-125-160 | | |
| K | Grey cast iron | | G | 160-210-265 | | | 265-315-370 | 180-230-285 | | | | |
| | Nodular cast iron | | G | 95-125-160 | | | 160-190-220 | 105-140-170 | | | | |
| S | High tempered resist. alloys, Fe based, annealed | | G | 30-40-60 | | | | | 35-45-60 | 25-35-50 | | |
| | " , hardened | | G | 60-85-105 | | | | | 75-95-115 | 50-75-95 | | |
| N | Aluminium alloy, Si < 12,6% | | S | | | | | | | | | 500-750-1000 |
| | " , Si > 12,6% | | S | | | | | | | | | 170-200-250 |
| | Copper alloy | | S | | | | | | | | | 300-330-350 |

The above recommended cutting conditions are meant as a guide. Actual conditions will depend on the individual machine, work shape and clamping. They will need to be adjusted according to machine rigidity, work clamp rigidity, cutting depth and other factors.

For groove milling, reduce the feed rate approximately 70 % of the corresponding value shown above.

■ Ramping / Helical Milling Upper Limits



● WEZ11 Type

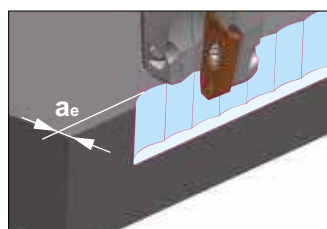
| DC Ø (mm) | Max.Ramping Angle | Flat Bottom Machining | | | | Machining with Prepared Hole | |
|--------------|-------------------|------------------------------|------------------------|------------------------------|------------------------|------------------------------|------------------------|
| | RPMX (°) | Max. Machining Diam. (mm) | Max. Pitch (mm/rev) | Min. Machining Diam. (mm) | Max. Pitch (mm/rev) | Min. Machining Diam. (mm) | Max. Pitch (mm/rev) |
| 14 | 13,2 | 25,3 | 8,4 | 23,1 | 5,9 | 19,0 | 1,9 |
| 16 | 10,5 | 29,3 | 7,6 | 27,0 | 5,6 | 21,7 | 1,5 |
| 18 | 8,1 | 33,3 | 6,7 | 30,9 | 5,0 | 25,2 | 1,4 |
| 20 | 6,5 | 37,3 | 6,0 | 34,9 | 4,6 | 29,1 | 1,3 |
| 22 | 5,3 | 41,3 | 5,4 | 38,8 | 4,3 | 32,9 | 1,3 |
| 25 | 4,1 | 47,3 | 4,8 | 44,8 | 3,9 | 38,9 | 1,3 |
| 28 | 3,4 | 53,3 | 4,4 | 50,7 | 3,6 | 44,9 | 1,3 |
| 30 | 3,0 | 57,3 | 4,2 | 54,7 | 3,5 | 48,8 | 1,3 |
| 32 | 2,7 | 61,3 | 4,0 | 58,7 | 3,3 | 52,8 | 1,2 |
| 35 | 2,3 | 67,3 | 3,8 | 64,6 | 3,1 | 58,8 | 1,2 |
| 40 | 1,8 | 77,3 | 3,4 | 74,6 | 2,9 | 68,8 | 1,2 |
| 50 | 1,2 | 97,3 | 3,0 | 94,6 | 2,6 | 88,8 | 1,1 |
| 63 | 0,8 | 123,3 | 2,8 | 120,5 | 2,5 | 114,7 | 1,1 |

● WEZ17 Type

| DC Ø (mm) | Max.Ramping Angle | Flat Bottom Machining | | | | Machining with Prepared Hole | |
|--------------|-------------------|------------------------------|------------------------|------------------------------|------------------------|------------------------------|------------------------|
| | RPMX (°) | Max. Machining Diam. (mm) | Max. Pitch (mm/rev) | Min. Machining Diam. (mm) | Max. Pitch (mm/rev) | Min. Machining Diam. (mm) | Max. Pitch (mm/rev) |
| 25 | 10,8 | 47,3 | 13,0 | 41,0 | 8,3 | 33,1 | 1,8 |
| 28 | 8,1 | 53,3 | 11,1 | 46,9 | 7,5 | 39,0 | 1,8 |
| 30 | 7,0 | 57,3 | 10,2 | 50,9 | 7,0 | 43,0 | 1,8 |
| 32 | 6,1 | 61,3 | 9,5 | 54,9 | 6,7 | 47,0 | 1,7 |
| 35 | 5,1 | 67,3 | 8,7 | 60,8 | 6,2 | 53,0 | 1,7 |
| 40 | 4,0 | 77,3 | 7,7 | 70,8 | 5,7 | 63,0 | 1,7 |
| 50 | 2,5 | 97,3 | 6,5 | 90,7 | 5,0 | 83,0 | 1,6 |
| 63 | 1,8 | 123,3 | 5,6 | 116,7 | 4,5 | 109,0 | 1,6 |

* The table above shows values with nose radius 0,8 mm

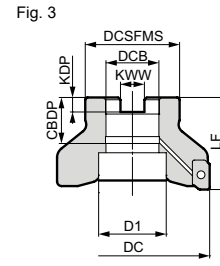
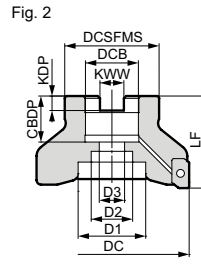
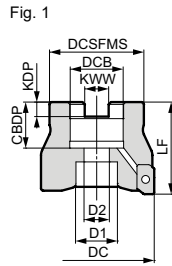
■ Plunge Cutting - Upper Limit for Radial Width a_e



| Type | Max. a_e (mm) |
|-------|-----------------|
| WEZ11 | 3 |
| WEZ17 | 5 |

"WaveMill" Series WEZ 11000 R(S)

| | | | | |
|------------|--------|------------|-------|-----|
| Rake Angle | Radial | -7° - -11° | 10 mm | 90° |
| | Axial | 14° - 15° | | |



■ Body - WEZ (Shell Type)

Dimensions (mm)

| | Cat. No. | Stock | DC | DCSFMS | LF | DCB | KWW | KDP | CBDFP | D1 | D2 | D3 | No. of Teeth | Weight (kg) | Fig. |
|-----------|---------------|-------|------|--------|----|-------|------|-----|-------|----|----|----|--------------|-------------|------|
| Metric | WEZ 11040RS04 | ● | 40 | 33 | 40 | 16 | 8,4 | 5,6 | 18 | 14 | 9 | - | 4 | 0,21 | 1 |
| | 11040RS06 | ● | 40 | 33 | 40 | 16 | 8,4 | 5,6 | 18 | 14 | 9 | - | 6 | 0,20 | 1 |
| | 11050RS05 | ● | 50 | 41 | 40 | 22 | 10,4 | 6,3 | 20 | 18 | 11 | - | 5 | 0,32 | 1 |
| | 11050RS07 | ● | 50 | 41 | 40 | 22 | 10,4 | 6,3 | 20 | 18 | 11 | - | 7 | 0,31 | 1 |
| | 11063RS06 | ● | 63 | 50 | 40 | 22 | 10,4 | 6,3 | 20 | 18 | 11 | - | 6 | 0,58 | 1 |
| | 11063RS08 | ● | 63 | 50 | 40 | 22 | 10,4 | 6,3 | 20 | 18 | 11 | - | 8 | 0,57 | 1 |
| | 11080RS07 | ● | *80 | 55 | 50 | 27 | 12,4 | 7,0 | 22 | 20 | 14 | - | 7 | 1,08 | 1 |
| | 11080RS10 | ● | *80 | 55 | 50 | 27 | 12,4 | 7,0 | 22 | 20 | 14 | - | 10 | 1,07 | 1 |
| | 11100RS09 | ● | 100 | 70 | 50 | 32 | 14,4 | 8,0 | 32 | 46 | - | - | 9 | 1,57 | 3 |
| 11100RS12 | ● | 100 | 70 | 50 | 32 | 14,4 | 8,0 | 32 | 46 | - | - | 12 | 1,56 | 3 | |
| Inch | WEZ 11080R07 | ○ | *80 | 55 | 50 | 25,4 | 9,5 | 6,0 | 25 | 20 | 14 | - | 7 | 1,09 | 1 |
| | 11080R10 | ○ | *80 | 55 | 50 | 25,4 | 9,5 | 6,0 | 25 | 20 | 14 | - | 10 | 1,08 | 1 |
| | 11100R09 | ○ | *100 | 70 | 63 | 31,75 | 12,7 | 8,0 | 32 | 46 | 27 | 18 | 9 | 2,12 | 2 |
| | 11100R12 | ○ | *100 | 70 | 63 | 31,75 | 12,7 | 8,0 | 32 | 46 | 27 | 18 | 12 | 2,10 | 2 |

Inserts are sold separately. Check the arbor mounting size (DCB) when selecting the cutter.

* For securing the Ø 80 mm and Ø 100 mm cutter to the arbors, use JIS B1176 hexagonal bolt.
(Ø 80 mm: M12x30 to 35 mm, Ø 100 mm: M16x40x45 mm)



■ Spare Parts

| Applicable Cutters | Insert Screw | | Wrench |
|--------------------|--------------|-----|----------|
| | | | |
| WEZ 11040RS04 | BFTX0306IP | 1,5 | TRDR08IP |
| 11040RS06 | | | |
| 11050RS05 | | | |
| 11050RS07 | | | |
| 11063RS06 | | | |
| 11063RS08 | | | |
| 11080R(S)07 | | | |
| 11080R(S)10 | | | |
| 11100R(S)09 | | | |
| 11100R(S)12 | | | |

■ Identification Details

| | | | | | |
|---------------|-------------|-----------------|----------------|----------|-----------------|
| WEZ | 11 | 050 | R | S | 07 |
| Cutter Series | Insert Size | Cutter Diameter | Feed Direction | Metric | Number of Teeth |



■ Recommended Cutting Conditions

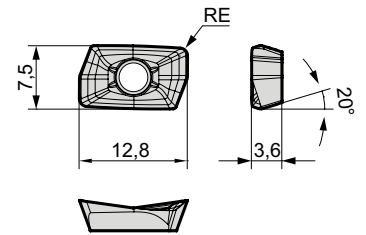
P.6

"WaveMill" Series WEZ 11000 R(S)

Inserts

Precautions for Mounting

| Application | Coated Carbide | | | | | | | Carbide | DLC | Cermet | RE (mm) |
|------------------------|---|---------|---------|---------|---------|--------|--------|---------|--------|--------|---------|
| | | P | | K | MS | MS | MS | | | | |
| High Speed / Light Cut | | P | | K | MS | MS | MS | N | N | P | |
| General Purpose |  | | P | | K | MS | MS | N | N | | |
| Roughing |  | | P | | K | MS | MS | | | | |
| Cat. No. | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | H20 | DL2000 | T2500A | RE (mm) |
| AOMT 11T302PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | ● | 0,2 |
| 11T304PEER-G | ● | ● | ● | ● | ● | ● | ● | - | - | ● | 0,4 |
| 11T305PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 0,5 |
| 11T308PEER-G | ● | ● | ● | ● | ● | ● | ● | - | - | ● | 0,8 |
| 11T310PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 1,0 |
| 11T312PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 1,2 |
| 11T316PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | | 1,6 |
| 11T320PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | | 2,0 |
| 11T324PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | | 2,4 |
| 11T330PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | | 3,0 |
| 11T332PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | | 3,2 |
| AOMT 11T304PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,4 |
| 11T308PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,8 |
| 11T312PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,2 |
| 11T316PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,6 |
| AOET 11T302PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 11T316PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,6 |
| 11T320PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,0 |
| 11T324PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,4 |
| 11T330PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,0 |
| 11T332PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,2 |
| AOET 11T302PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 11T302PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 11T302PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| AOET 11T302PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,2 |
| 11T304PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,4 |
| 11T305PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,5 |
| 11T308PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,8 |
| 11T310PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,0 |
| 11T312PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,2 |
| 11T316PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,6 |
| 11T320PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,0 |
| 11T324PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,4 |
| 11T330PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,0 |
| 11T332PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,2 |

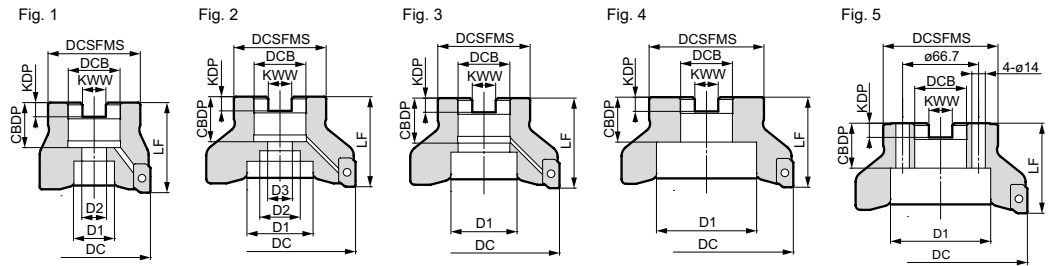


L: Low cutting force
 G: General purpose
 H: Strong edge
 F: Finishing
 P: High-precision machining
 S: Non ferrous metals

*P16 is applicable to cutter diameters Ø 14 mm and Ø 16 mm.
 *P20 is applicable to cutter diameters Ø 18 mm, Ø 20 mm.
 *P25 is applicable to cutter diameters Ø 25 mm, Ø 28 mm.

"Wave Mill" Series WEZ 17000 R(S)

| | | | | |
|------------|--------|-----------|-------|-----|
| Rake Angle | Radial | -4° - -9° | 15 mm | 90° |
| | Axial | 10° - 15° | | |



■ Body - WEZ (Shell Type)

Dimensions (mm)

| | Cat. No. | Stock | DC | DCSFMS | LF | DCB | KWW | KDP | CBBDP | D1 | D2 | D3 | No. of Teeth | Weight (kg) | Fig. |
|-----------|---------------|-------|------|--------|----|-------|------|------|-------|----|----|----|--------------|-------------|------|
| | | | | | | | | | | | | | | | |
| Metric | WEZ 17040RS03 | ● | 40 | 33 | 40 | 16 | 8,4 | 5,6 | 18 | 14 | 9 | - | 3 | 0,19 | 1 |
| | 17040RS04 | ● | 40 | 33 | 40 | 16 | 8,4 | 5,6 | 18 | 14 | 9 | - | 4 | 0,16 | 1 |
| | 17050RS03 | ● | 50 | 41 | 40 | 22 | 10,4 | 6,3 | 20 | 18 | 11 | - | 3 | 0,30 | 1 |
| | 17050RS05 | ● | 50 | 41 | 40 | 22 | 10,4 | 6,3 | 20 | 18 | 11 | - | 5 | 0,26 | 1 |
| | 17063RS04 | ● | 63 | 50 | 40 | 22 | 10,4 | 6,3 | 20 | 18 | 11 | - | 4 | 0,54 | 1 |
| | 17063RS06 | ● | 63 | 50 | 40 | 22 | 10,4 | 6,3 | 20 | 18 | 11 | - | 6 | 0,51 | 1 |
| | 17080RS04 | ● | *80 | 55 | 50 | 27 | 12,4 | 7,0 | 22 | 20 | 14 | - | 4 | 1,10 | 1 |
| | 17080RS07 | ● | *80 | 55 | 50 | 27 | 12,4 | 7,0 | 22 | 20 | 14 | - | 7 | 1,05 | 1 |
| | 17100RS05 | ● | 100 | 70 | 50 | 32 | 14,4 | 8,0 | 32 | 46 | - | - | 5 | 1,58 | 3 |
| | 17100RS08 | ● | 100 | 70 | 50 | 32 | 14,4 | 8,0 | 32 | 46 | - | - | 8 | 1,57 | 3 |
| | 17125RS06 | ● | 125 | 80 | 63 | 40 | 16,4 | 9,0 | 29 | 52 | 29 | - | 6 | 3,04 | 1 |
| | 17125RS09 | ● | 125 | 80 | 63 | 40 | 16,4 | 9,0 | 29 | 52 | 29 | - | 9 | 3,07 | 1 |
| 17125RS11 | ● | 125 | 80 | 63 | 40 | 16,4 | 9,0 | 29 | 52 | 29 | - | 11 | 3,02 | 1 | |
| 17160RS08 | ● | 160 | 130 | 63 | 40 | 16,4 | 9,0 | 29 | 90 | - | - | 8 | 5,24 | 5 | |
| 17160RS10 | ● | 160 | 130 | 63 | 40 | 16,4 | 9,0 | 29 | 90 | - | - | 10 | 5,31 | 5 | |
| 17160RS12 | ● | 160 | 130 | 63 | 40 | 16,4 | 9,0 | 29 | 90 | - | - | 12 | 5,26 | 5 | |
| Inch | WEZ 17080R04 | ○ | *80 | 55 | 50 | 25,4 | 9,5 | 6,0 | 25 | 20 | 14 | - | 4 | 1,10 | 1 |
| | 17080R07 | ○ | *80 | 55 | 50 | 25,4 | 9,5 | 6,0 | 25 | 20 | 14 | - | 7 | 1,06 | 1 |
| | 17100R05 | ○ | *100 | 70 | 63 | 31,75 | 12,7 | 8,0 | 32 | 46 | 27 | 18 | 5 | 2,08 | 2 |
| | 17100R08 | ○ | *100 | 70 | 63 | 31,75 | 12,7 | 8,0 | 32 | 46 | 27 | 18 | 8 | 2,07 | 2 |
| | 17125R06 | ○ | 125 | 80 | 63 | 38,1 | 15,9 | 10,0 | 35,5 | 55 | 30 | - | 6 | 3,09 | 1 |
| | 17125R09 | ○ | 125 | 80 | 63 | 38,1 | 15,9 | 10,0 | 35,5 | 55 | 30 | - | 9 | 3,11 | 1 |
| | 17125R11 | ○ | 125 | 80 | 63 | 38,1 | 15,9 | 10,0 | 35,5 | 55 | 30 | - | 11 | 3,06 | 1 |
| | 17160R08 | ○ | 160 | 100 | 63 | 50,8 | 19,1 | 11,0 | 38 | 72 | - | - | 8 | 5,04 | 4 |
| | 17160R10 | ○ | 160 | 100 | 63 | 50,8 | 19,1 | 11,0 | 38 | 72 | - | - | 10 | 5,09 | 4 |
| | 17160R12 | ○ | 160 | 100 | 63 | 50,8 | 19,1 | 11,0 | 38 | 72 | - | - | 12 | 5,04 | 4 |

Inserts are sold separately. Check the arbor mounting size (DCB) when selecting the cutter.

For securing the Ø 80 mm and Ø 100 mm cutter to the arbors, use JIS B1176 hexagonal bolt. (Ø 80 mm: M12x30 to 35 mm, Ø 100 mm: M16x40x45 mm)

■ Spare Parts

| Applicable Cutters | Insert Screw | | Wrench | Handle Grip | Wrench Bit |
|--|--------------|-----|----------|-------------|------------|
| | | | | | |
| WEZ 17040RS03 17040RS04 17050RS03 17050RS05 17063RS04 17063RS06 17080R(S)04 17080R(S)07 17100R(S)05 17100R(S)08 17125R(S)06 17125R(S)09 17125R(S)11 17160R(S)08 17160R(S)10 17160R(S)12 | BFTX0409IP | 3,0 | - | HPS1015 | TPB15IP |
| | | | TRDR15IP | - | - |

■ Identification Details

| | | | | | |
|---------------|-------------|-----------------|----------------|----------|-----------------|
| WEZ | 17 | 100 | R | S | 05 |
| Cutter Series | Insert Size | Cutter Diameter | Feed Direction | Metric | Number of Teeth |

■ Recommended Cutting Conditions

P.6

● = Euro stock

○ = Japan stock

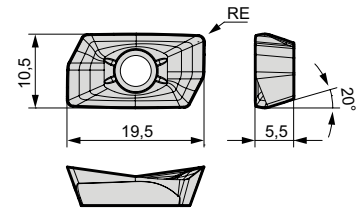
"Wave Mill" Series WEZ 17000 R(S)

Inserts

Precautions for Mounting

P.20

| Application | Coated Carbide | | | | | | | Carbide | DLC | Cermet | RE (mm) |
|------------------------|----------------|----------|----------|----------|----------|-----------|--------|----------|----------|----------|---------|
| | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | | | | |
| High Speed / Light Cut | | P | | K | | MS | | | N | P | |
| General Purpose | PS | | P | | K | MS | | N | N | | |
| Roughing | PS | | P | | K | MS | | | | | |
| Cat. No. | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | H20 | DL2000 | T2500A | RE (mm) |
| AOMT 170502PEER-L | ● | - | □ | - | □ | ● | ● | - | - | □ | 0,2 |
| 170504PEER-L | ● | - | ● | - | ● | ● | ● | - | - | ● | 0,4 |
| 170508PEER-L | ● | - | ● | - | ● | ● | ● | - | - | ● | 0,8 |
| 170512PEER-L | ● | - | □ | - | □ | ● | ● | - | - | ● | 1,2 |
| 170516PEER-L | ● | - | □ | - | □ | ● | ● | - | - | ● | 1,6 |
| AOMT 170502PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 0,2 |
| 170504PEER-G | ● | ● | ● | ● | ● | ● | ● | - | - | ● | 0,4 |
| 170505PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 0,5 |
| 170508PEER-G | ● | ● | □ | ● | ● | ● | ● | - | - | ● | 0,8 |
| 170510PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 1,0 |
| 170512PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 1,2 |
| 170516PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 1,6 |
| 170520PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 2,0 |
| 170524PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 2,4 |
| 170530PEER-G | ● | □ | ● | □ | □ | ● | ● | - | - | □ | 3,0 |
| 170532PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 3,2 |
| 170540PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 4,0 |
| 170550PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 5,0 |
| 170564PEER-G | □ | □ | □ | □ | □ | ● | ● | - | - | □ | 6,4 |
| AOMT 170504PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,4 |
| 170508PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,8 |
| 170512PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,2 |
| 170516PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,6 |
| AOET 170502PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 170504PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 170505PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 170508PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 170510PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 170512PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 170516PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,6 |
| 170520PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,0 |
| 170524PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,4 |
| 170530PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,0 |
| 170532PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,2 |
| 170540PEER-F | ● | - | - | - | - | - | - | - | - | - | 4,0 |
| 170550PEER-F | ● | - | - | - | - | - | - | - | - | - | 5,0 |
| 170564PEER-F | ● | - | - | - | - | - | - | - | - | - | 6,4 |
| AOET 170502PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 170504PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 170505PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 170508PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 170510PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 170512PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 170502PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 170504PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 170505PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 170508PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 170510PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 170512PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| AOET 170502PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,2 |
| 170504PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,4 |
| 170505PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,5 |
| 170508PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,8 |
| 170510PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,0 |
| 170512PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,2 |
| 170516PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,6 |
| 170520PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,0 |
| 170524PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,4 |
| 170530PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,0 |
| 170532PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,2 |
| 170540PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 4,0 |
| 170550PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 5,0 |
| 170564PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 6,4 |



L: Low cutting force
G: General purpose
H: Strong edge
F: Finishing
P: High-precision machining
S: Non ferrous metals

*P25 is applicable to cutter diameters Ø 25 mm and Ø 28 mm.
*P32 is applicable to cutter diameters Ø 30 mm, Ø 32 mm and Ø 35 mm.

● = Euro stock

● = Coming soon

□ = On request

□ = Not available

"WaveMill" Series WEZ 11000 E

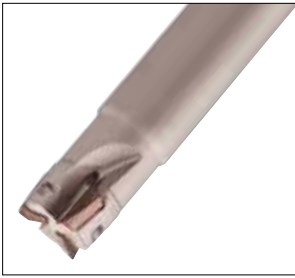


Fig. 1

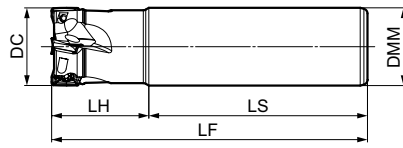
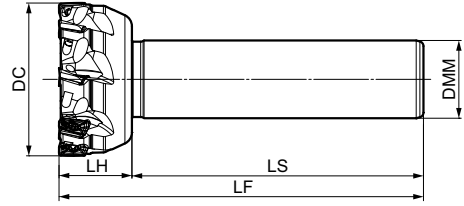


Fig. 2



| | | | | |
|------------|--------|-------------|-------|-----|
| Rake Angle | Radial | -7° -- -18° | 10 mm | 90° |
| | Axial | 6° -- 15° | | |

■ Body - WEZ (Shank Type)

Dimensions (mm)

| Cat. No. | Stock | DC | DMM | LH | LS | LF | No. of Teeth | Weight (kg) | Fig. |
|--------------|-------|----|-----|----|-----|-----|--------------|-------------|------|
| WEZ 11014E01 | ● | 14 | 16 | 25 | 55 | 80 | 1 | 0,10 | 1 |
| 11016E02 | ● | 16 | 16 | 25 | 75 | 100 | 2 | 0,13 | 1 |
| 11016E02-12 | ● | 16 | 12 | 25 | 75 | 100 | 2 | 0,07 | 2 |
| 11018E02 | ● | 18 | 16 | 25 | 75 | 100 | 2 | 0,13 | 2 |
| 11020E02 | ● | 20 | 20 | 30 | 80 | 110 | 2 | 0,23 | 1 |
| 11020E02-16 | ● | 20 | 16 | 30 | 80 | 110 | 2 | 0,15 | 2 |
| 11020E03 | ● | 20 | 20 | 30 | 80 | 110 | 3 | 0,22 | 1 |
| 11020E03-16 | ● | 20 | 16 | 30 | 80 | 110 | 3 | 0,14 | 2 |
| 11022E03 | ● | 22 | 20 | 30 | 80 | 110 | 3 | 0,23 | 1 |
| 11025E02 | ● | 25 | 25 | 35 | 85 | 120 | 2 | 0,40 | 1 |
| 11025E03 | ● | 25 | 25 | 35 | 85 | 120 | 3 | 0,40 | 1 |
| 11025E03-20 | ● | 25 | 20 | 35 | 85 | 120 | 3 | 0,26 | 2 |
| 11025E04 | ● | 25 | 25 | 35 | 85 | 120 | 4 | 0,39 | 2 |
| 11025E04-20 | ● | 25 | 20 | 35 | 85 | 120 | 4 | 0,26 | 2 |
| 11028E04 | ● | 28 | 25 | 35 | 85 | 120 | 4 | 0,41 | 1 |
| 11030E04 | ● | 30 | 25 | 40 | 90 | 130 | 4 | 0,46 | 1 |
| 11032E02 | ● | 32 | 32 | 40 | 90 | 130 | 2 | 0,74 | 1 |
| 11032E03 | ● | 32 | 32 | 40 | 90 | 130 | 3 | 0,73 | 1 |
| 11032E04 | ● | 32 | 32 | 40 | 90 | 130 | 4 | 0,73 | 2 |
| 11032E05 | ● | 32 | 32 | 40 | 90 | 130 | 5 | 0,72 | 2 |
| 11032E05-25 | ● | 32 | 25 | 40 | 90 | 130 | 5 | 0,46 | 2 |
| 11035E05 | ● | 35 | 32 | 40 | 90 | 130 | 5 | 0,75 | 2 |
| 11040E02 | ● | 40 | 32 | 30 | 120 | 150 | 2 | 0,96 | 2 |
| 11040E04 | ● | 40 | 32 | 30 | 120 | 150 | 4 | 0,94 | 2 |
| 11040E06 | ● | 40 | 32 | 30 | 120 | 150 | 6 | 0,93 | 2 |
| 11050E05 | ● | 50 | 32 | 30 | 120 | 150 | 5 | 1,04 | 2 |
| 11050E07 | ● | 50 | 32 | 30 | 120 | 150 | 7 | 1,04 | 2 |
| 11063E08 | ● | 63 | 32 | 30 | 120 | 150 | 8 | 1,24 | 2 |
| 11080E10 | ● | 80 | 32 | 30 | 120 | 150 | 10 | 1,52 | 2 |

Inserts are sold separately.

■ Spare Parts

| Applicable Cutters | Insert Screw | | Wrench |
|--|--------------|-----|----------|
| | | | |
| WEZ 11014E01 11016E02(-12) 11018E02 11020E02(-16) 11020E03(-16) 11022E03 11025E02 11025E03(-20) 11025E04(-20) 11028E04 11030E04 11032E02 11032E03 11032E04 11032E05(-25) 11035E05 11040E02 11040E04 11040E06 11050E05 11050E07 11063E08 11080E10 | BFTX0305IP | 2,0 | TRDR08IP |
| | BFTX0306IP | 1,5 | |

■ Identification Details

| | | | | | |
|---------------|-------------|-----------------|-------------|-----------------|----------------|
| WEZ | 11 | 025 | E | 02 | - 22 |
| Cutter Series | Insert Size | Cutter Diameter | Round Shank | Number of Teeth | Shank Diameter |



■ Recommended Cutting Conditions

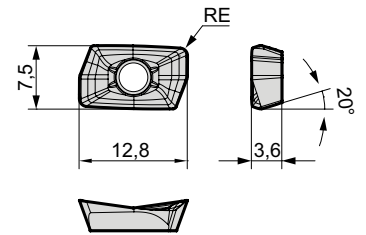
P.6

● = Euro stock

Inserts

Precautions for Mounting

| Application | Coated Carbide | | | | | | | Carbide | DLC | Cermet | RE (mm) |
|------------------------|---|---------|---------|---------|---------|--------|--------|---------|--------|--------|---------|
| | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | | | | |
| High Speed / Light Cut | | P | | K | | MS | | | N | P | |
| General Purpose |  | | P | | K | MS | MS | N | N | | |
| Roughing |  | | P | | K | MS | MS | | | | |
| Cat. No. | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | H20 | DL2000 | T2500A | RE (mm) |
| AOMT 11T302PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | ● | 0,2 |
| 11T304PEER-G | ● | ● | ● | ● | ● | ● | ● | - | - | ● | 0,4 |
| 11T305PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 0,5 |
| 11T308PEER-G | ● | ● | ● | ● | ● | ● | ● | - | - | ● | 0,8 |
| 11T310PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 1,0 |
| 11T312PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 1,2 |
| 11T316PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | | 1,6 |
| 11T320PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | | 2,0 |
| 11T324PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | | 2,4 |
| 11T330PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | | 3,0 |
| 11T332PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | | 3,2 |
| AOMT 11T304PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,4 |
| 11T308PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,8 |
| 11T312PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,2 |
| 11T316PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,6 |
| AOET 11T302PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 11T316PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,6 |
| 11T320PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,0 |
| 11T324PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,4 |
| 11T330PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,0 |
| 11T332PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,2 |
| AOET 11T302PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 11T302PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 11T302PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| AOET 11T302PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,2 |
| 11T304PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,4 |
| 11T305PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,5 |
| 11T308PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,8 |
| 11T310PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,0 |
| 11T312PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,2 |
| 11T316PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,6 |
| 11T320PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,0 |
| 11T324PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,4 |
| 11T330PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,0 |
| 11T332PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,2 |



L: Low cutting force
 G: General purpose
 H: Strong edge
 F: Finishing
 P: High-precision machining
 S: Non ferrous metals

*P16 is applicable to cutter diameters Ø 14 mm and Ø 16 mm.
 *P20 is applicable to cutter diameters Ø 18 mm, Ø 20 mm.
 *P25 is applicable to cutter diameters Ø 25 mm, Ø 28 mm.

"WaveMill" Series

WEZ 11000 EL

| | | | | |
|------------|--------|------------|-------|-----|
| Rake Angle | Radial | -7° – -18° | 10 mm | 90° |
| | Axial | 6° – 15° | | |



Fig. 1

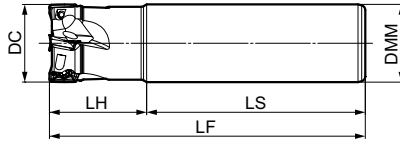
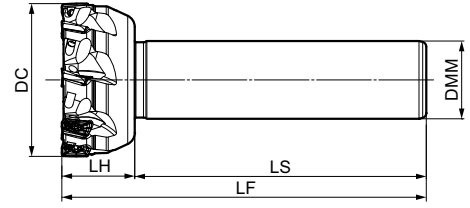


Fig. 2



■ Body - WEZ (Long Type)

Dimensions (mm)

| Cat. No. | Stock | DC | DMM | LH | LS | LF | No. of Teeth | Weight (kg) | Fig. |
|---------------|-------|----|-----|----|-----|-----|--------------|-------------|------|
| WEZ 11014EL01 | ● | 14 | 16 | 25 | 95 | 120 | 1 | 0,16 | 1 |
| 11016EL02 | ● | 16 | 16 | 25 | 120 | 145 | 2 | 0,19 | 1 |
| 11016EL02-14 | ● | 16 | 14 | 25 | 120 | 145 | 2 | 0,15 | 2 |
| 11018EL02 | ● | 18 | 16 | 25 | 120 | 145 | 2 | 0,20 | 2 |
| 11020EL02 | ● | 20 | 20 | 40 | 110 | 150 | 2 | 0,31 | 1 |
| 11020EL02-18 | ● | 20 | 18 | 25 | 125 | 150 | 2 | 0,26 | 2 |
| 11022EL02 | ● | 22 | 20 | 30 | 120 | 150 | 2 | 0,32 | 2 |
| 11025EL02 | ● | 25 | 25 | 50 | 120 | 170 | 2 | 0,57 | 1 |
| 11025EL02-22 | ● | 25 | 22 | 30 | 140 | 170 | 2 | 0,46 | 2 |
| 11025EL03 | ● | 25 | 25 | 50 | 120 | 170 | 3 | 0,57 | 1 |
| 11028EL02 | ● | 28 | 25 | 30 | 140 | 170 | 2 | 0,60 | 2 |
| 11030EL02 | ● | 30 | 25 | 30 | 140 | 170 | 2 | 0,62 | 2 |
| 11032EL02 | ● | 32 | 32 | 60 | 110 | 170 | 2 | 0,97 | 1 |
| 11032EL02-30 | ● | 32 | 30 | 30 | 140 | 170 | 2 | 0,88 | 2 |
| 11032EL03 | ● | 32 | 32 | 60 | 110 | 170 | 3 | 0,96 | 1 |
| 11035EL02 | ● | 35 | 32 | 30 | 140 | 170 | 2 | 1,02 | 2 |
| 11035EL03 | ● | 35 | 32 | 30 | 140 | 170 | 3 | 1,00 | 2 |
| 11040EL02 | ● | 40 | 32 | 30 | 140 | 170 | 2 | 1,08 | 2 |
| 11050EL03 | ● | 50 | 32 | 30 | 140 | 170 | 3 | 1,19 | 2 |

Inserts are sold separately.

■ Spare Parts

| Applicable Cutters | Insert Screw | | Wrench |
|--------------------|--------------|-----|--------|
| | | | |
| WEZ 11014EL01 | | 2,0 | |
| 11016EL02(-14) | BFTX0305IP | 1,5 | |
| 11018EL02 | | | |
| 11020EL02(-18) | | | |
| 11022EL02 | | | |
| 11025EL02(-22) | | | |
| 11025EL03 | | | |
| 11028EL02 | | | |
| 11030EL02 | | | |
| 11032EL02(-30) | BFTX0306IP | | |
| 11032EL03 | | | |
| 11035EL02 | | | |
| 11035EL03 | | | |
| 11040EL02 | | | |
| 11050EL03 | | | |

■ Identification Details

WEZ 11 025 E L 02 - 22

| | | | | | | |
|---------------|-------------|-----------------|-------------|-----------|-----------------|----------------|
| Cutter Series | Insert Size | Cutter Diameter | Round-Shank | Long Type | Number of Teeth | Shank Diameter |
|---------------|-------------|-----------------|-------------|-----------|-----------------|----------------|

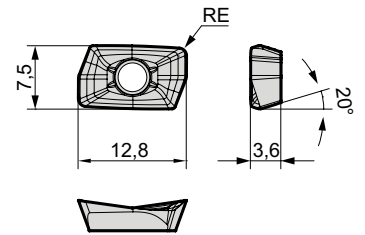
■ Recommended Cutting Conditions

P.6

Inserts

Precautions for Mounting

| Application | Coated Carbide | | | | | | | Carbide | DLC | Cermet | RE (mm) |
|------------------------|----------------|---------|---------|---------|---------|--------|--------|---------|--------|--------|---------|
| | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | | | | |
| High Speed / Light Cut | | P | | K | | MS | | | N | P | |
| General Purpose | MS | | P | | K | MS | MS | N | N | | |
| Roughing | MS | | P | | K | MS | MS | | | | |
| Cat. No. | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | H20 | DL2000 | T2500A | RE (mm) |
| AOMT 11T302PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | ● | 0,2 |
| 11T304PEER-G | ● | ● | ● | ● | ● | ● | ● | - | - | ● | 0,4 |
| 11T305PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 0,5 |
| 11T308PEER-G | ● | ● | ● | ● | ● | ● | ● | - | - | ● | 0,8 |
| 11T310PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 1,0 |
| 11T312PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 1,2 |
| 11T316PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | | 1,6 |
| 11T320PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | | 2,0 |
| 11T324PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | | 2,4 |
| 11T330PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | | 3,0 |
| 11T332PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | | 3,2 |
| AOMT 11T304PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,4 |
| 11T308PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,8 |
| 11T312PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,2 |
| 11T316PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,6 |
| AOET 11T302PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 11T316PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,6 |
| 11T320PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,0 |
| 11T324PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,4 |
| 11T330PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,0 |
| 11T332PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,2 |
| AOET 11T302PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-P16 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 11T302PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-P20 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 11T302PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 11T304PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 11T305PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 11T308PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 11T310PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 11T312PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| AOET 11T302PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,2 |
| 11T304PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,4 |
| 11T305PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,5 |
| 11T308PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,8 |
| 11T310PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,0 |
| 11T312PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,2 |
| 11T316PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,6 |
| 11T320PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,0 |
| 11T324PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,4 |
| 11T330PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,0 |
| 11T332PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,2 |



L: Low cutting force
 G: General purpose
 H: Strong edge
 F: Finishing
 P: High-precision machining
 S: Non ferrous metals

*P16 is applicable to cutter diameters Ø 14 mm and Ø 16 mm.
 *P20 is applicable to cutter diameters Ø 18 mm, Ø 20 mm.
 *P25 is applicable to cutter diameters Ø 25 mm, Ø 28 mm.

"WaveMill" Series WEZ 17000 E

| | | | | |
|------------|--------|------------|-------|-----|
| Rake Angle | Radial | -6° – -12° | 15 mm | 90° |
| | Axial | 6° – 15° | | |



Fig. 1

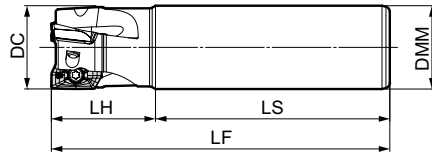
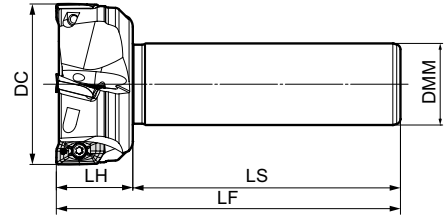


Fig. 2



■ Body - WEZ (Shank Type)

Dimensions (mm)

| Cat. No. | Stock | DC | DMM | LH | LS | LF | No. of Teeth | Weight (kg) | Fig. |
|--------------|-------|----|-----|----|-----|-----|--------------|-------------|------|
| WEZ 17025E02 | ● | 25 | 25 | 35 | 85 | 120 | 2 | 0,38 | 1 |
| 17025E02-20 | ● | 25 | 20 | 35 | 85 | 120 | 2 | 0,25 | 2 |
| 17028E02 | ● | 28 | 25 | 35 | 85 | 120 | 2 | 0,40 | 2 |
| 17030E03 | ● | 30 | 25 | 40 | 90 | 130 | 3 | 0,43 | 2 |
| 17032E02 | ● | 32 | 32 | 40 | 90 | 130 | 2 | 0,71 | 1 |
| 17032E03 | ● | 32 | 32 | 40 | 90 | 130 | 3 | 0,69 | 1 |
| 17032E03-25 | ● | 32 | 25 | 40 | 90 | 130 | 3 | 0,44 | 2 |
| 17035E03 | ● | 35 | 32 | 40 | 90 | 130 | 3 | 0,72 | 2 |
| 17040E03 | ● | 40 | 32 | 30 | 105 | 135 | 3 | 0,81 | 2 |
| 17040E04 | ● | 40 | 32 | 30 | 105 | 135 | 4 | 0,79 | 2 |
| 17050E03 | ● | 50 | 32 | 30 | 105 | 135 | 3 | 0,93 | 2 |
| 17050E03-42 | ● | 50 | 42 | 30 | 105 | 135 | 3 | 1,41 | 2 |
| 17050E05 | ● | 50 | 32 | 30 | 105 | 135 | 5 | 0,89 | 2 |
| 17050E05-42 | ● | 50 | 42 | 30 | 105 | 135 | 5 | 1,37 | 2 |
| 17063E04 | ● | 63 | 32 | 30 | 105 | 135 | 4 | 1,10 | 2 |
| 17063E04-42 | ● | 63 | 42 | 30 | 105 | 135 | 4 | 1,58 | 2 |
| 17063E06 | ● | 63 | 32 | 30 | 105 | 135 | 6 | 1,08 | 2 |
| 17063E06-42 | ● | 63 | 42 | 30 | 105 | 135 | 6 | 1,56 | 2 |
| 17080E07 | ● | 63 | 32 | 30 | 105 | 135 | 7 | 1,39 | 2 |

Inserts are sold separately.

■ Spare Parts

| Applicable Cutters | Insert Screw | | Wrench |
|--------------------|--------------|-----|----------|
| | | | |
| WEZ 17025E02(-20) | BFTX0407IP | 3,0 | TRDR15IP |
| 17028E02 | | | |
| 17030E03 | BFTX0409IP | 3,0 | TRDR15IP |
| 17032E02 | | | |
| 17032E03(-25) | | | |
| 17035E03 | | | |
| 17040E03 | | | |
| 17040E04 | | | |
| 17050E03(-42) | | | |
| 17050E05(-42) | | | |
| 17063E04(-42) | | | |
| 17063E06(-42) | | | |
| 17080E07 | | | |

■ Identification Details

WEZ 17 032 E 02 - 30

Cutter Series Insert Size Cutter Diameter Round Shank Number of Teeth Shank Diameter

■ Recommended Cutting Conditions

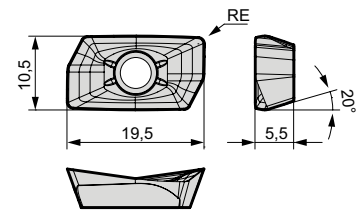
P.6

Inserts

Precautions for Mounting

P.20

| Application | Coated Carbide | | | | | | | Carbide | DLC | Cermet | RE (mm) |
|------------------------|----------------|----------|----------|----------|----------|-----------|--------|----------|----------|----------|---------|
| | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | | | | |
| High Speed / Light Cut | | P | | K | | MS | | | N | P | |
| General Purpose | PK | | P | | K | MS | | N | N | | |
| Roughing | PK | | P | | K | MS | | | | | |
| Cat. No. | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | H20 | DL2000 | T2500A | RE (mm) |
| AOMT 170502PEER-L | ● | - | □ | - | □ | ● | ● | - | - | □ | 0,2 |
| 170504PEER-L | ● | - | ● | - | ● | ● | ● | - | - | ● | 0,4 |
| 170508PEER-L | ● | - | ● | - | ● | ● | ● | - | - | ● | 0,8 |
| 170512PEER-L | ● | - | □ | - | □ | ● | ● | - | - | ● | 1,2 |
| 170516PEER-L | ● | - | □ | - | □ | ● | ● | - | - | ● | 1,6 |
| AOMT 170502PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 0,2 |
| 170504PEER-G | ● | ● | ● | ● | ● | ● | ● | - | - | ● | 0,4 |
| 170505PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 0,5 |
| 170508PEER-G | ● | ● | □ | ● | ● | ● | ● | - | - | ● | 0,8 |
| 170510PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 1,0 |
| 170512PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 1,2 |
| 170516PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 1,6 |
| 170520PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 2,0 |
| 170524PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 2,4 |
| 170530PEER-G | ● | □ | ● | □ | □ | ● | ● | - | - | □ | 3,0 |
| 170532PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 3,2 |
| 170540PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 4,0 |
| 170550PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 5,0 |
| 170564PEER-G | □ | □ | □ | □ | □ | ● | ● | - | - | □ | 6,4 |
| AOMT 170504PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,4 |
| 170508PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,8 |
| 170512PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,2 |
| 170516PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,6 |
| AOET 170502PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 170504PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 170505PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 170508PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 170510PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 170512PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 170516PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,6 |
| 170520PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,0 |
| 170524PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,4 |
| 170530PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,0 |
| 170532PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,2 |
| 170540PEER-F | ● | - | - | - | - | - | - | - | - | - | 4,0 |
| 170550PEER-F | ● | - | - | - | - | - | - | - | - | - | 5,0 |
| 170564PEER-F | ● | - | - | - | - | - | - | - | - | - | 6,4 |
| AOET 170502PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 170504PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 170505PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 170508PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 170510PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 170512PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 170502PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 170504PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 170505PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 170508PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 170510PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 170512PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| AOET 170502PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,2 |
| 170504PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,4 |
| 170505PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,5 |
| 170508PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,8 |
| 170510PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,0 |
| 170512PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,2 |
| 170516PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,6 |
| 170520PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,0 |
| 170524PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,4 |
| 170530PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,0 |
| 170532PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,2 |
| 170540PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 4,0 |
| 170550PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 5,0 |
| 170564PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 6,4 |



L: Low cutting force
G: General purpose
H: Strong edge
F: Finishing
P: High-precision machining
S: Non ferrous metals

*P25 is applicable to cutter diameters Ø 25 mm and Ø 28 mm.
*P32 is applicable to cutter diameters Ø 30 mm, Ø 32 mm and Ø 35 mm.

● = Euro stock

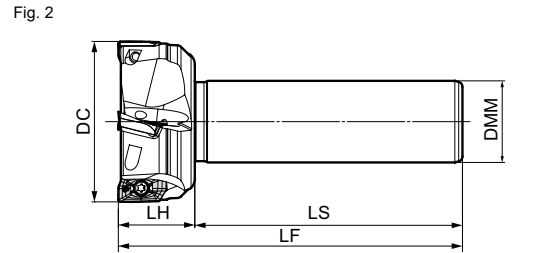
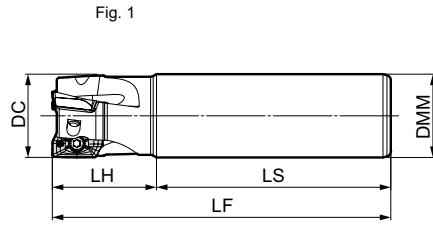
● = Coming soon

□ = On request

□ = Not available

"WaveMill" Series

WEZ 17000 EL



Body - WEZ (Long Type)

Dimensions (mm)

| Cat. No. | Stock | DC | DMM | LH | LS | LF | No. of Teeth | Weight (kg) | Fig. |
|---------------|-------|----|-----|----|-----|-----|--------------|-------------|------|
| WEZ 17025EL02 | ● | 25 | 25 | 50 | 120 | 170 | 2 | 0,55 | 1 |
| 17028EL02 | ● | 28 | 25 | 50 | 120 | 170 | 2 | 0,57 | 2 |
| 17030EL02 | ● | 30 | 25 | 50 | 120 | 170 | 2 | 0,59 | 2 |
| 17032EL02 | ● | 32 | 32 | 60 | 110 | 170 | 2 | 0,94 | 1 |
| 17032EL02-30 | ● | 32 | 30 | 50 | 120 | 170 | 2 | 0,85 | 2 |
| 17032EL03 | ● | 32 | 32 | 60 | 110 | 170 | 3 | 0,92 | 1 |
| 17035EL02 | ● | 35 | 32 | 50 | 120 | 170 | 2 | 0,98 | 2 |
| 17040EL02 | ● | 40 | 32 | 50 | 120 | 170 | 2 | 1,09 | 2 |
| 17040EL03 | ● | 40 | 32 | 50 | 120 | 170 | 3 | 1,08 | 2 |
| 17040EL04 | ● | 40 | 32 | 50 | 120 | 170 | 4 | 1,05 | 2 |
| 17050EL03 | ● | 50 | 32 | 50 | 120 | 170 | 3 | 1,29 | 2 |
| 17050EL03-42 | ● | 50 | 42 | 50 | 120 | 170 | 3 | 1,83 | 2 |
| 17050EL05 | ● | 50 | 32 | 50 | 120 | 170 | 5 | 1,25 | 2 |
| 17050EL05-42 | ● | 50 | 42 | 50 | 120 | 170 | 5 | 1,79 | 2 |
| 17063EL04 | ● | 63 | 32 | 50 | 120 | 170 | 4 | 1,61 | 2 |
| 17063EL04-42 | ● | 63 | 42 | 50 | 120 | 170 | 4 | 2,16 | 2 |
| 17063EL06 | ● | 63 | 32 | 50 | 120 | 170 | 6 | 1,58 | 2 |
| 17063EL06-42 | ● | 63 | 42 | 50 | 120 | 170 | 6 | 2,13 | 2 |

Inserts are sold separately.

Spare Parts

| Applicable Cutters | Insert Screw | | Wrench |
|--------------------|--------------|-----|----------|
| | | | |
| WEZ 17025EL02 | BFTX0407IP | 3,0 | TRDR15IP |
| 17028EL02 | | | |
| 17030EL02 | BFTX0409IP | 3,0 | TRDR15IP |
| 17032EL02(-30) | | | |
| 17032EL03 | | | |
| 17035EL02 | | | |
| 17040EL02 | | | |
| 17040EL03 | | | |
| 17040EL04 | | | |
| 17050EL03(-42) | | | |
| 17050EL05(-42) | | | |
| 17063EL04(-42) | | | |
| 17063EL06(-42) | | | |

Identification Details

WEZ 11 025 E L 02 - 22

| | | | | | | |
|---------------|-------------|-----------------|-------------|-----------|-----------------|----------------|
| Cutter Series | Insert Size | Cutter Diameter | Round Shank | Long Type | Number of Teeth | Shank Diameter |
|---------------|-------------|-----------------|-------------|-----------|-----------------|----------------|

Recommended Cutting Conditions

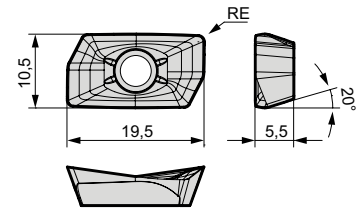
P.6

Inserts

Precautions for Mounting

 P.20

| Application | Coated Carbide | | | | | | | Carbide | DLC | Cermet | RE (mm) |
|------------------------|----------------|---------|---------|---------|---------|--------|--------|---------|--------|--------|---------|
| | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | | | | |
| High Speed / Light Cut | | P | | K | | MS | | | N | P | |
| General Purpose | PK | | P | | K | MS | | N | N | | |
| Roughing | PK | | P | | K | MS | | | | | |
| Cat. No. | ACU2500 | ACP2000 | ACP3000 | ACK2000 | ACK3000 | ACM200 | ACM300 | H20 | DL2000 | T2500A | RE (mm) |
| AOMT 170502PEER-L | ● | - | □ | - | □ | ● | ● | - | - | □ | 0,2 |
| 170504PEER-L | ● | - | ● | - | ● | ● | ● | - | - | ● | 0,4 |
| 170508PEER-L | ● | - | ● | - | ● | ● | ● | - | - | ● | 0,8 |
| 170512PEER-L | ● | - | □ | - | □ | ● | ● | - | - | ● | 1,2 |
| 170516PEER-L | ● | - | □ | - | □ | ● | ● | - | - | ● | 1,6 |
| AOMT 170502PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 0,2 |
| 170504PEER-G | ● | ● | ● | ● | ● | ● | ● | - | - | ● | 0,4 |
| 170505PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 0,5 |
| 170508PEER-G | ● | ● | □ | ● | ● | ● | ● | - | - | ● | 0,8 |
| 170510PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 1,0 |
| 170512PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 1,2 |
| 170516PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 1,6 |
| 170520PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 2,0 |
| 170524PEER-G | ● | □ | □ | □ | □ | ● | ● | - | - | □ | 2,4 |
| 170530PEER-G | ● | □ | ● | □ | □ | ● | ● | - | - | □ | 3,0 |
| 170532PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 3,2 |
| 170540PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 4,0 |
| 170550PEER-G | ● | □ | ● | □ | ● | ● | ● | - | - | □ | 5,0 |
| 170564PEER-G | □ | □ | □ | □ | □ | ● | ● | - | - | □ | 6,4 |
| AOMT 170504PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,4 |
| 170508PEER-H | ● | ● | ● | ● | ● | ● | ● | - | - | - | 0,8 |
| 170512PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,2 |
| 170516PEER-H | ● | □ | □ | □ | □ | ● | ● | - | - | - | 1,6 |
| AOET 170502PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 170504PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 170505PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 170508PEER-F | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 170510PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 170512PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 170516PEER-F | ● | - | - | - | - | - | - | - | - | - | 1,6 |
| 170520PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,0 |
| 170524PEER-F | ● | - | - | - | - | - | - | - | - | - | 2,4 |
| 170530PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,0 |
| 170532PEER-F | ● | - | - | - | - | - | - | - | - | - | 3,2 |
| 170540PEER-F | ● | - | - | - | - | - | - | - | - | - | 4,0 |
| 170550PEER-F | ● | - | - | - | - | - | - | - | - | - | 5,0 |
| 170564PEER-F | ● | - | - | - | - | - | - | - | - | - | 6,4 |
| AOET 170502PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 170504PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 170505PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 170508PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 170510PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 170512PEER-P25 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| 170502PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,2 |
| 170504PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,4 |
| 170505PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,5 |
| 170508PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 0,8 |
| 170510PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 1,0 |
| 170512PEER-P32 | ● | - | - | - | - | - | - | - | - | - | 1,2 |
| AOET 170502PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,2 |
| 170504PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,4 |
| 170505PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,5 |
| 170508PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 0,8 |
| 170510PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,0 |
| 170512PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,2 |
| 170516PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 1,6 |
| 170520PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,0 |
| 170524PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 2,4 |
| 170530PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,0 |
| 170532PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 3,2 |
| 170540PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 4,0 |
| 170550PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 5,0 |
| 170564PEFR-S | - | - | - | - | - | - | - | ● | ● | - | 6,4 |



L: Low cutting force
 G: General purpose
 H: Strong edge
 F: Finishing
 P: High-precision machining
 S: Non ferrous metals

*P25 is applicable to cutter diameters Ø 25 mm and Ø 28 mm.
 *P32 is applicable to cutter diameters Ø 30 mm, Ø 32 mm and Ø 35 mm.

● = Euro stock

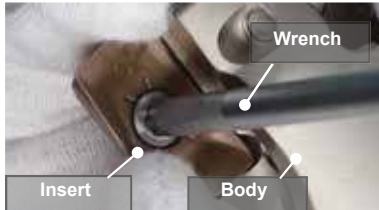
● = Coming soon

□ = On request

□ = Not available

■ Precautions for Mounting

- (1) Clean the mounting seat and contact parts.
- (2) Apply screw lubrication to the screw thread as well as the screw head face to prevent seizure.
- (3) While pressing the insert solidly against the seat surface, tighten at the screws with the included wrench.
- (4) After tightening, check that there are no gaps between the surfaces.



*When mounting inserts with nose radius of $\geq 3,0$ mm, modification of the body is required.



Modify this edge.

Reworking guidelines
 Nose radius = 3,0 mm: C = 1 mm (AOMT170530PEER)
 Nose radius = 3,2 mm: C = 1 mm (AOMT170532PEER)
 Nose radius = 4,0 mm: C = 2 mm (AOMT170540PEER)
 Nose radius = 5,0 mm: C = 5 mm (AOMT170550PEER)
 Nose radius = 6,4 mm: C = 5 mm (AOMT170564PEER)
 Standard: R = 1 mm

C: Chamfer
 R: Radius

■ Application Examples

| C40, Hub | | Sumitomo | Competitor |
|-----------------------------------|---|-------------|------------|
| Vertical Machining Centre BT40 | Tool | WEZ17025E02 | |
| | Grade | ACU2500 | – |
| | Chipbreaker | G | – |
| | Cutter Diam. (mm) | 25 | 25 |
| | Number of Teeth | 2 | 2 |
| | v_c (m/min) | 120 | 120 |
| | v_f (mm/min) | 300 | 300 |
| | f_z (mm/t) | 0,066 | 0,066 |
| | a_p (mm) | 9 | 9 |
| | a_e (mm) | 5 | 5 |
| | Coolant | Wet | Wet |
| Results | The high chattering sound typical of thin workpieces is gone and stable machining enables longer tool life. | | |



| GG-25, Machine Component | | Sumitomo | Competitor |
|-------------------------------------|--|--------------|------------|
| Horizontal Machining Centre BT50 | Tool | WEZ11050RS07 | |
| | Grade | ACU2500 | – |
| | Chipbreaker | G | – |
| | Cutter Diam. (mm) | 50 | 50 |
| | Number of Teeth | 7 | 5 |
| | v_c (m/min) | 180 | 180 |
| | v_f (mm/min) | 805 | 574 |
| | f_z (mm/t) | 0,1 | 0,1 |
| | a_p (mm) | 0,3 | 0,3 |
| | a_e (mm) | 10 | 10 |
| | Coolant | Wet | Wet |
| Results | Quiet machining sounds for improved machining efficiency. Good surface finish quality with 3 μ m parallelism and 4 μ m flatness. | | |



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