

# FRIDRO

ALL IN ONE PLACE

**10/25**  
**Achtech TOOLS**  
Special offer  
valid until: 31.01.2026

## Inserts

Designed for high-precision and efficient metal machining.

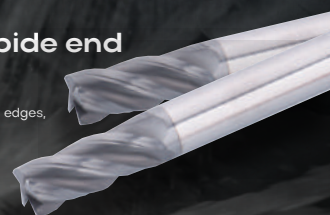
06



## Solid Carbide end Mill M200

Eco line with 4 cutting edges, workpiece hardness up to HRC45!

16



## Mailling head AHM20

High-quality milling tools and inserts for corefree machining.

19



**ACHTECK**

# New Energy Vehicle Tooling Solutions

## Reducer Housing

Application: Face milling

Solution: Custom brazed PCD tools

- Customized to client-specific dimensions.
- Integrated spot facing and chamfering ensures dimensional accuracy.

Application: Joint surface machining

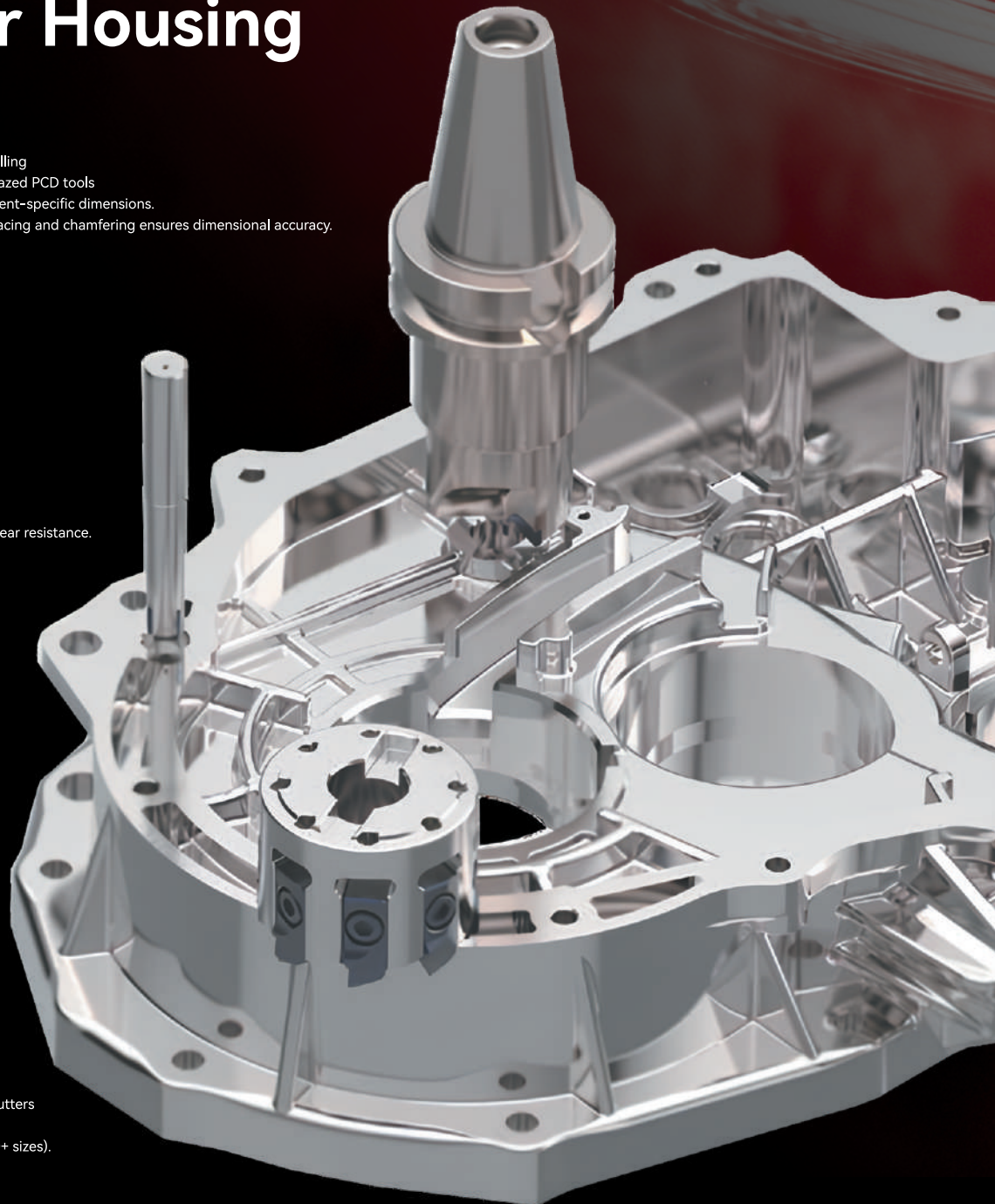
Solution: Brazed PCD reamers

- Semi-custom design for fast delivery.
- PD10 grade delivers high efficiency and wear resistance.

Application: Pin hole machining

Solution: Adjustable PCD face milling cutters

- Bore diameter range: D50–D250.
- Aluminum alloy cutter body (for D80+ sizes).
- Precision internal coolant channels  
+ variable pitch design.
- Optional types: face milling,  
square shoulder milling, overlapping  
curve surface milling, wiper edge.



# ACHTECK



More on QR code!

Application: Bearing hole finishing  
Solution: Custom fine boring tools

- High rigidity and lightweight compact design.
- Vernier adjustment mechanism for rapid machining size calibration.

Application: Hole finishing  
Solution: Custom step drills

- Combined bottom drilling and chamfering in one operation.
- Dual internal coolant holes, to optimize cooling and chip evacuation

2025  
**NEW**

# Small tools

## Product Features and Applications

- Small tools has a wide range of product offering combined with various grades to meet the machining requests of different applications
- Ground inserts with geometry UF and LF are good for high precision finishing and good chip breaking
- Multi-function ASW series could combine with parting off, backturning and threading inserts for multipurpose machining to reduce the cost
- Small Dia. solid carbide cutting tools can cover different machining, such as grooving, threading and small diameter boring



More models and info  
on QR code!

# Grooving Inserts

## Product Features and Applications

### \* Double edged inserts

- Holder offering included external, internal, face grooving, turning and profile machining
- Inserts width: 2-8mm
- Grooving and parting off geometries: CS, CM, CH
- Grooving and turning geometries: GS, TS, TM, RM, RA
- High precision ground inserts are covering 1-8mm, can be used in parting, grooving and profile machining
- Unique rake geometry design combined with double relief angle on the sides, obtained more clearance in face grooving and internal grooving, so that it could machine bigger diameter



More models and info  
on QR code!

# The expert of difficult machine



More models and info  
on QR code!



## AFM45-SE12 Face Milling Cutter

### Product Features and Applications

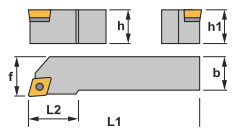
- Positive-rake flute design with large rake angle for smooth cutting and low resistance.
- Multiple geometries adapt to diverse machining conditions.
- Including short and long shank forms for roughing, semi-finishing, and finishing.
- 45° approach angle with course/fine pitch options for broad versatility.
- Integrated stiffener in cutter body, ensuring safety and stability.
- Diameter range: Ø62–250mm (shank-type, cylindrical shank, side-lock shank).
- Black oxide surface treatment enhances corrosion resistance and precision.



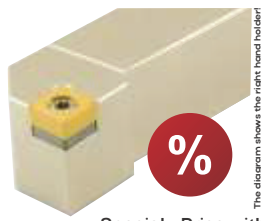
More models and info  
on QR code!



## Holder SCLC 95°



from: **5,00**  
price/PC



The diagram shows the right hand holder!

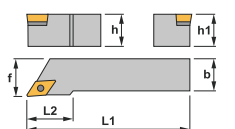
RIGHT-hand version!

| Cat. num.        | Product code   | h=h1 | b  | L1  | l2 | f  | Special price | Price with 30 inserts |
|------------------|----------------|------|----|-----|----|----|---------------|-----------------------|
| M.01.01.03.19.06 | SCLCR 0808 E06 | 8    | 8  | 60  | 12 | 10 | 28,00         | 5,00                  |
| M.01.01.03.19.05 | SCLCR 1010 E06 | 10   | 10 | 70  | 14 | 12 | 28,00         | 5,00                  |
| M.01.01.03.19.01 | SCLCR 1212 F09 | 12   | 12 | 80  | 16 | 16 | 29,00         | 5,00                  |
| M.01.01.03.19.02 | SCLCR 1616 H09 | 16   | 16 | 100 | 18 | 20 | 31,00         | 5,00                  |
| M.01.01.03.19.07 | SCLCR 2020 K09 | 20   | 20 | 125 | 22 | 25 | 33,00         | 5,00                  |
| M.01.01.03.19.03 | SCLCR 2020 K12 | 20   | 20 | 125 | 22 | 25 | 33,00         | 5,00                  |
| M.01.01.03.19.09 | SCLCR 2525 M12 | 25   | 25 | 150 | 28 | 32 | 34,00         | 5,00                  |

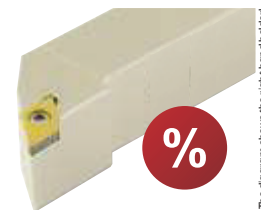
LEFT-hand version!

| Cat. num.        | Product code   | h=h1 | b  | L1  | l2 | f  | Special price | Price with 30 inserts |
|------------------|----------------|------|----|-----|----|----|---------------|-----------------------|
| M.01.01.03.20.06 | SCLCL 0808 E06 | 8    | 8  | 60  | 12 | 10 | 28,00         | 5,00                  |
| M.01.01.03.20.05 | SCLCL 1010 E06 | 10   | 10 | 70  | 14 | 12 | 28,00         | 5,00                  |
| M.01.01.03.20.01 | SCLCL 1212 F09 | 12   | 12 | 80  | 16 | 16 | 29,00         | 5,00                  |
| M.01.01.03.20.02 | SCLCL 1616 H09 | 16   | 16 | 100 | 18 | 20 | 31,00         | 5,00                  |
| M.01.01.03.20.09 | SCLCL 2020 K09 | 20   | 20 | 125 | 22 | 25 | 33,00         | 5,00                  |
| M.01.01.03.20.03 | SCLCL 2020 K12 | 20   | 20 | 125 | 22 | 25 | 33,00         | 5,00                  |
| M.01.01.03.20.08 | SCLCL 2525 M12 | 25   | 25 | 150 | 28 | 32 | 34,00         | 5,00                  |

## Holder SDJC 93°



from: **5,00**  
price/PC



The diagram shows the right hand holder!

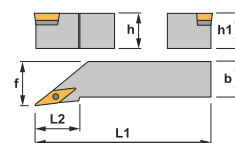
RIGHT-hand version!

| Cat. num.        | Product code   | h=h1 | b  | L1  | l2 | f  | Special price | Price with 30 inserts |
|------------------|----------------|------|----|-----|----|----|---------------|-----------------------|
| M.01.01.03.12.07 | SDJCR 1010 E07 | 10   | 10 | 70  | 14 | 12 | 28,00         | 5,00                  |
| M.01.01.03.12.01 | SDJCR 1212 F07 | 12   | 12 | 80  | 16 | 16 | 29,00         | 5,00                  |
| M.01.01.03.12.02 | SDJCR 1616 H07 | 16   | 16 | 100 | 16 | 20 | 31,00         | 5,00                  |
| M.01.01.03.12.34 | SDJCR 1212 F11 | 12   | 12 | 80  | 18 | 16 | 29,00         | 5,00                  |
| M.01.01.03.12.03 | SDJCR 1616 H11 | 16   | 16 | 100 | 18 | 20 | 31,00         | 5,00                  |
| M.01.01.03.12.04 | SDJCR 2020 K11 | 20   | 20 | 125 | 22 | 25 | 33,00         | 5,00                  |
| M.01.01.03.12.05 | SDJCR 2525 M11 | 25   | 25 | 150 | 28 | 32 | 34,00         | 5,00                  |

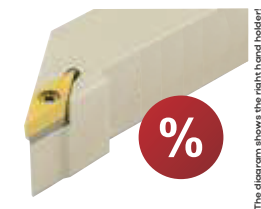
LEFT-hand version!

| Cat. num.        | Product code   | h=h1 | b  | L1  | l2 | f  | Special price | Price with 30 inserts |
|------------------|----------------|------|----|-----|----|----|---------------|-----------------------|
| M.01.01.03.13.07 | SDJCL 1010 E07 | 10   | 10 | 70  | 14 | 12 | 28,00         | 5,00                  |
| M.01.01.03.13.01 | SDJCL 1212 F07 | 12   | 12 | 80  | 16 | 16 | 29,00         | 5,00                  |
| M.01.01.03.13.02 | SDJCL 1616 H07 | 16   | 16 | 100 | 16 | 20 | 31,00         | 5,00                  |
| M.01.01.03.13.03 | SDJCL 1616 H11 | 16   | 16 | 100 | 18 | 20 | 31,00         | 5,00                  |
| M.01.01.03.13.04 | SDJCL 2020 K11 | 20   | 20 | 125 | 22 | 25 | 33,00         | 5,00                  |
| M.01.01.03.13.05 | SDJCL 2525 M11 | 25   | 25 | 150 | 28 | 32 | 34,00         | 5,00                  |

## Holder SVJC 93°



from: **5,00**  
price/PC



The diagram shows the right hand holder!

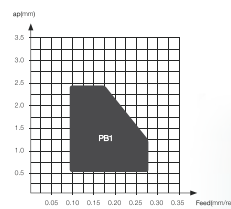
RIGHT-hand version!

| Cat. num.        | Product code   | h=h1 | b  | L1  | l2 | f  | Special price | Price with 30 inserts |
|------------------|----------------|------|----|-----|----|----|---------------|-----------------------|
| M.01.01.03.06.01 | SVJCR 1212 F11 | 12   | 12 | 80  | 20 | 16 | 29,00         | 5,00                  |
| M.01.01.03.06.02 | SVJCR 1616 H11 | 16   | 16 | 100 | 25 | 20 | 31,00         | 5,00                  |
| M.01.01.03.06.03 | SVJCR 2020 K11 | 20   | 20 | 125 | 28 | 25 | 33,00         | 5,00                  |
| M.01.01.03.06.18 | SVJCR 2525 M11 | 25   | 25 | 150 | 28 | 32 | 34,00         | 5,00                  |
| M.01.01.03.06.04 | SVJCR 2020 K16 | 20   | 20 | 125 | 34 | 25 | 33,00         | 5,00                  |
| M.01.01.03.06.05 | SVJCR 2525 M16 | 25   | 25 | 150 | 34 | 32 | 34,00         | 5,00                  |

LEFT-hand version!

| Cat. num.        | Product code   | h=h1 | b  | L1  | l2 | f  | Special price | Price with 30 inserts |
|------------------|----------------|------|----|-----|----|----|---------------|-----------------------|
| M.01.01.03.07.01 | SVJCL 1212 F11 | 12   | 12 | 80  | 20 | 16 | 29,00         | 5,00                  |
| M.01.01.03.07.02 | SVJCL 1616 H11 | 16   | 16 | 100 | 25 | 20 | 31,00         | 5,00                  |
| M.01.01.03.07.03 | SVJCL 2020 K11 | 20   | 20 | 125 | 28 | 25 | 33,00         | 5,00                  |
| M.01.01.03.07.19 | SVJCL 2020 M11 | 25   | 25 | 150 | 28 | 32 | 34,00         | 5,00                  |
| M.01.01.03.07.04 | SVJCL 2020 K16 | 20   | 20 | 125 | 34 | 25 | 33,00         | 5,00                  |
| M.01.01.03.07.05 | SVJCL 2525 M16 | 25   | 25 | 150 | 34 | 32 | 34,00         | 5,00                  |

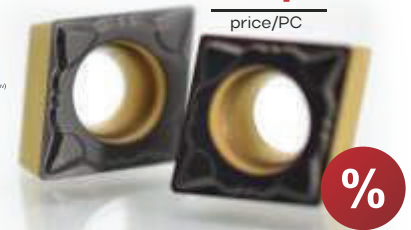
## CCMT inserts



## ACHTECK

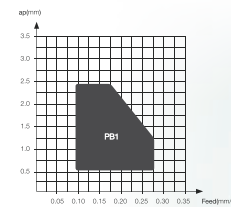
Buy 30 inserts and get the holder for only €5,00

CCMT  
from: **3,30**  
price/PC



| P | ACHTECK | ISO designation             | quality | price/pc |
|---|---------|-----------------------------|---------|----------|
|   |         | CCMT 060202E-PB1 (80052357) | AC152P  | 3,30     |
|   |         | CCMT 060204E-PB1 (80052358) | AC152P  | 3,30     |
|   |         | CCMT 09T302E-PB1 (80052360) | AC152P  | 3,70     |
|   |         | CCMT 09T304E-PB1 (80052361) | AC152P  | 3,70     |
|   |         | CCMT 120404E-PC2 (80052722) | AC152P  | 4,70     |
|   |         | CCMT 120408E-PC2 (80052723) | AC152P  | 4,70     |

## DCMT inserts



## ACHTECK

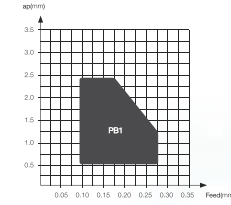
Buy 30 inserts and get the holder for only €5,00

DCMT  
from: **3,20**  
price/PC



| P | ACHTECK | ISO designation             | quality | price/pc |
|---|---------|-----------------------------|---------|----------|
|   |         | DCMT 070202E-PB1 (80052378) | AC152P  | 3,20     |
|   |         | DCMT 070204E-PB1 (80052379) | AC152P  | 3,20     |
|   |         | DCMT 11T302E-PB1 (80052380) | AC152P  | 4,10     |
|   |         | DCMT 11T304E-PB1 (80052381) | AC152P  | 4,10     |
|   |         | DCMT 11T308E-PB1 (80052382) | AC152P  | 4,10     |

## VCMT inserts



## ACHTECK

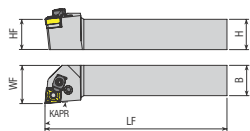
Buy 30 inserts and get the holder for only €5,00

VCMT  
from: **4,99**  
price/PC

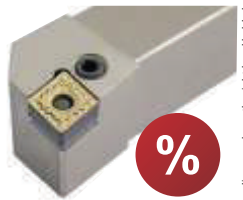


| P | ACHTECK | ISO designation             | quality | price/pc |
|---|---------|-----------------------------|---------|----------|
|   |         | VCMT 110304E-PC2 (80052796) | AC252   | 4,99     |
|   |         | VCMT 160404E-PC2 (80052798) | AC252   | 6,40     |
|   |         | VCMT 160408E-PC2 (80052799) | AC252   | 6,40     |

## Holder PCLN 95°



from: **5,00**  
price/PC



The diagram shows the right-hand holder!

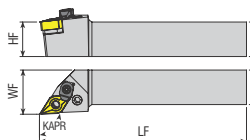
RIGHT-hand version!

| Cat. num.    | Product code   | HF=H | B  | LF  | WF | Special price | Price with 30 inserts |
|--------------|----------------|------|----|-----|----|---------------|-----------------------|
| PCLNR2020K12 | PCLNR 2020 K12 | 20   | 20 | 125 | 25 | 45,00         | 5,00                  |
| PCLNR2525M12 | PCLNR 2525 M12 | 25   | 25 | 150 | 32 | 48,00         | 5,00                  |
| PCLNR3232P12 | PCLNR 3232 P12 | 32   | 32 | 170 | 40 | 52,00         | 5,00                  |
| PCLNR2525M16 | PCLNR 2525 M16 | 25   | 25 | 150 | 32 | 49,00         | 5,00                  |
| PCLNR3232P19 | PCLNR 3232 P19 | 32   | 32 | 170 | 40 | 69,00         | 5,00                  |
| PCLNR4040S19 | PCLNR 4040 S19 | 40   | 40 | 250 | 50 | 89,00         | 5,00                  |

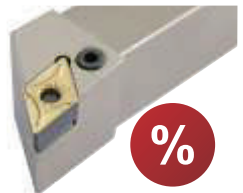
LEFT-hand version!

| Cat. num.    | Product code   | HF=H | B  | LF  | WF | Special price | Price with 30 inserts |
|--------------|----------------|------|----|-----|----|---------------|-----------------------|
| PCLNL2020K12 | PCLNL 2020 K12 | 20   | 20 | 125 | 25 | 45,00         | 5,00                  |
| PCLNL2525M12 | PCLNL 2525 M12 | 25   | 25 | 150 | 32 | 48,00         | 5,00                  |
| PCLNL3232P12 | PCLNL 3232 P12 | 32   | 32 | 170 | 40 | 52,00         | 5,00                  |
| PCLNL2525M16 | PCLNL 2525 M16 | 25   | 25 | 150 | 32 | 49,00         | 5,00                  |
| PCLNL3232P19 | PCLNL 3232 P19 | 32   | 32 | 170 | 40 | 69,00         | 5,00                  |
| PCLNL4040S19 | PCLNL 4040 S19 | 40   | 40 | 250 | 50 | 89,00         | 5,00                  |

## Holder PDJN 93°



from: **5,00**  
price/PC



The diagram shows the right-hand holder!

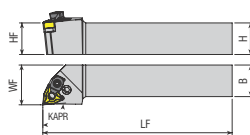
RIGHT-hand version!

| Cat. num.    | Product code   | HF=H | B  | LF  | WF | Special price | Price with 30 inserts |
|--------------|----------------|------|----|-----|----|---------------|-----------------------|
| PDJNR1616H11 | PDJNR 1616 H11 | 16   | 16 | 100 | 20 | 45,00         | 5,00                  |
| PDJNR2020K11 | PDJNR 2020 K11 | 20   | 20 | 125 | 25 | 46,00         | 5,00                  |
| PDJNR2525M11 | PDJNR 2525 M11 | 25   | 25 | 150 | 32 | 48,00         | 5,00                  |
| PDJNR2020K15 | PDJNR 2020 K15 | 20   | 20 | 125 | 25 | 46,00         | 5,00                  |
| PDJNR2525M15 | PDJNR 2525 M15 | 25   | 25 | 150 | 32 | 48,00         | 5,00                  |
| PDJNR3232P15 | PDJNR 3232 P15 | 32   | 32 | 170 | 40 | 54,00         | 5,00                  |

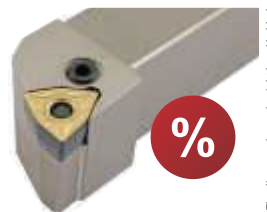
LEFT-hand version!

| Cat. num.    | Product code   | HF=H | B  | LF  | WF | Special price | Price with 30 inserts |
|--------------|----------------|------|----|-----|----|---------------|-----------------------|
| PDJNL1616H11 | PDJNL 1616 H11 | 16   | 16 | 100 | 20 | 45,00         | 5,00                  |
| PDJNL2020K11 | PDJNL 2020 K11 | 20   | 20 | 125 | 25 | 46,00         | 5,00                  |
| PDJNL2525M11 | PDJNL 2525 M11 | 25   | 25 | 150 | 32 | 48,00         | 5,00                  |
| PDJNL2020K15 | PDJNL 2020 K15 | 20   | 20 | 125 | 25 | 46,00         | 5,00                  |
| PDJNL2525M15 | PDJNL 2525 M15 | 25   | 25 | 150 | 32 | 48,00         | 5,00                  |
| PDJNL3232P15 | PDJNL 3232 P15 | 32   | 32 | 170 | 40 | 54,00         | 5,00                  |

## Holder PWLN 95°



from: **5,00**  
price/PC



The diagram shows the right-hand holder!

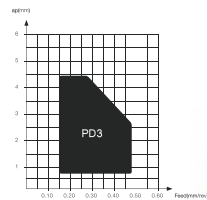
RIGHT-hand version!

| Cat. num.   | Product code  | HF=H | B  | LF  | WF | Special price | Price with 30 inserts |
|-------------|---------------|------|----|-----|----|---------------|-----------------------|
| PWLN2020K06 | PWLN 2020 K06 | 20   | 20 | 125 | 25 | 46,00         | 5,00                  |
| PWLN2525M06 | PWLN 2525 M06 | 25   | 25 | 150 | 32 | 48,00         | 5,00                  |
| PWLN2020K08 | PWLN 2020 K08 | 20   | 20 | 125 | 25 | 46,00         | 5,00                  |
| PWLN2525M08 | PWLN 2525 M08 | 25   | 25 | 150 | 32 | 48,00         | 5,00                  |
| PWLN3232P08 | PWLN 3232 P08 | 32   | 32 | 170 | 40 | 54,00         | 5,00                  |

LEFT-hand version!

| Cat. num.   | Product code  | HF=H | B  | LF  | WF | Special price | Price with 30 inserts |
|-------------|---------------|------|----|-----|----|---------------|-----------------------|
| PWLN2020K06 | PWLN 2020 K06 | 20   | 20 | 125 | 25 | 46,00         | 5,00                  |
| PWLN2525M06 | PWLN 2525 M06 | 25   | 25 | 150 | 32 | 48,00         | 5,00                  |
| PWLN2020K08 | PWLN 2020 K08 | 20   | 20 | 125 | 25 | 46,00         | 5,00                  |
| PWLN2525M08 | PWLN 2525 M08 | 25   | 25 | 150 | 32 | 48,00         | 5,00                  |
| PWLN3232P08 | PWLN 3232 P08 | 32   | 32 | 170 | 40 | 54,00         | 5,00                  |

## CNMG inserts



## ACHTECK

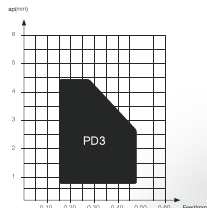
Buy 30 inserts and get the holder for only €5,00

CNMG  
from: **4,50**  
price/PC



| P | ACHTECK | ISO designation             | quality | price/pc |
|---|---------|-----------------------------|---------|----------|
|   |         | CNMG 120404E-PD3 (80052541) | AC252P  | 4,50     |
|   |         | CNMG 120408E-PD3 (80052542) | AC252P  | 4,50     |
|   |         | CNMG 160608E-PD3 (80052544) | AC252P  | 6,99     |
|   |         | CNMG 160612E-PD3 (80052545) | AC252P  | 6,99     |
|   |         | CNMG 190612E-PD3 (80058735) | AC252P  | 9,99     |

## DNMG inserts



## ACHTECK

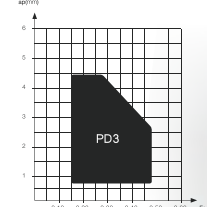
Buy 30 inserts and get the holder for only €5,00

DNMG  
from: **4,30**  
price/PC



| P | ACHTECK | ISO designation             | quality | price/pc |
|---|---------|-----------------------------|---------|----------|
|   |         | DNMG 110404E-PD3 (80052595) | AC252P  | 4,30     |
|   |         | DNMG 110408E-PD3 (80052596) | AC252P  | 4,30     |
|   |         | DNMG 150604E-PD3 (80052600) | AC252P  | 5,50     |
|   |         | DNMG 150608E-PD3 (80052601) | AC252P  | 5,50     |

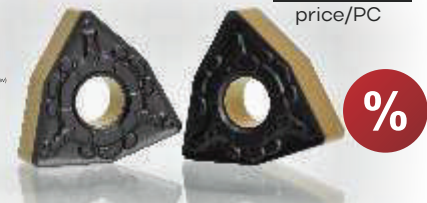
## WNMG inserts



## ACHTECK

Buy 30 inserts and get the holder for only €5,00

WNMG  
from: **4,30**  
price/PC



| P | ACHTECK | ISO designation             | quality | price/pc |
|---|---------|-----------------------------|---------|----------|
|   |         | WNMG 060408E-PD3 (80052696) | AC252P  | 4,30     |
|   |         | WNMG 080404E-PD3 (80052697) | AC252P  | 4,50     |
|   |         | WNMG 080408E-PD3 (80052698) | AC252P  | 4,50     |

## Holder SCLC R/L 95°



from: **5,00**  
price/PC



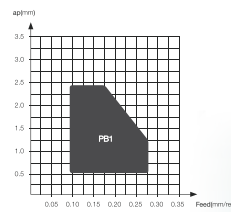
RIGHT-hand version!

| Cat. num.        | Product code  | DCON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|---------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.03.09.01 | S08H SCLCR 06 | 08   | 7.3  | 100 | 06 | ≥11  | <b>18,90</b>  | <b>5,00</b>           |
| M.01.02.03.09.02 | S10K SCLCR 06 | 10   | 09   | 125 | 07 | ≥13  | <b>21,50</b>  | <b>5,00</b>           |
| M.01.02.03.09.03 | S12K SCLCR 06 | 12   | 11   | 125 | 09 | ≥16  | <b>22,60</b>  | <b>5,00</b>           |
| M.01.02.03.09.07 | S16P SCLCR 09 | 16   | 14.8 | 170 | 11 | ≥20  | <b>25,80</b>  | <b>5,00</b>           |
| M.01.02.03.09.09 | S20R SCLCR 09 | 20   | 18.3 | 200 | 13 | ≥25  | <b>27,10</b>  | <b>5,00</b>           |

LEFT-hand version!

| Cat. num.        | Product code  | DCON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|---------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.03.10.01 | S08H SCLCL 06 | 08   | 7.3  | 100 | 06 | ≥11  | <b>18,90</b>  | <b>5,00</b>           |
| M.01.02.03.10.02 | S10K SCLCL 06 | 10   | 09   | 125 | 07 | ≥13  | <b>21,50</b>  | <b>5,00</b>           |
| M.01.02.03.10.03 | S12K SCLCL 06 | 12   | 11   | 125 | 09 | ≥16  | <b>22,60</b>  | <b>5,00</b>           |
| M.01.02.03.10.07 | S16P SCLCL 09 | 16   | 14.8 | 170 | 11 | ≥20  | <b>25,80</b>  | <b>5,00</b>           |
| M.01.02.03.10.08 | S20R SCLCL 09 | 20   | 18.3 | 200 | 13 | ≥25  | <b>27,10</b>  | <b>5,00</b>           |

## CCMT inserts



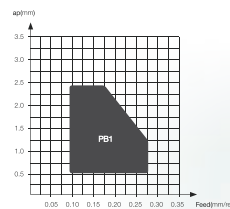
Buy 30 inserts and get the holder for only €5,00

CCMT  
from: **3,30**  
price/PC



| P | ACHTECK | ISO designation             | quality | price/pc    |
|---|---------|-----------------------------|---------|-------------|
|   |         | CCMT 060202E-PB1 (80052357) | AC152P  | <b>3,30</b> |
|   |         | CCMT 060204E-PB1 (80052358) | AC152P  | <b>3,30</b> |
|   |         | CCMT 09T302E-PB1 (80052360) | AC152P  | <b>3,70</b> |
|   |         | CCMT 09T304E-PB1 (80052361) | AC152P  | <b>3,70</b> |

## DCMT inserts



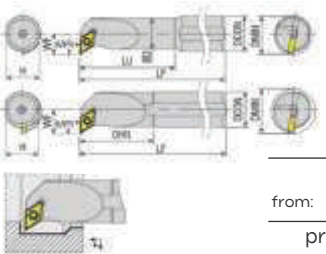
Buy 30 inserts and get the holder for only €5,00

DCMT  
from: **3,20**  
price/PC



| P | ACHTECK | ISO designation             | quality | price/pc    |
|---|---------|-----------------------------|---------|-------------|
|   |         | DCMT 070202E-PB1 (80052378) | AC152P  | <b>3,20</b> |
|   |         | DCMT 070204E-PB1 (80052379) | AC152P  | <b>3,20</b> |
|   |         | DCMT 11T302E-PB1 (80052380) | AC152P  | <b>4,10</b> |
|   |         | DCMT 11T304E-PB1 (80052381) | AC152P  | <b>4,10</b> |

## Holder SDUC R/L 93°



from: **5,00**  
price/PC



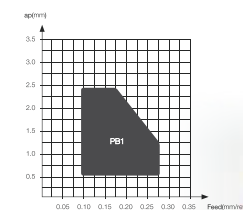
RIGHT-hand version!

| Cat. num.        | Product code  | DCON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|---------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.03.01.01 | S10K SDUCR 07 | 10   | 09   | 125 | 08 | ≥13  | <b>21,40</b>  | <b>5,00</b>           |
| M.01.02.03.01.02 | S12K SDUCR 07 | 12   | 11   | 125 | 09 | ≥16  | <b>22,60</b>  | <b>5,00</b>           |
| M.01.02.03.01.03 | S16P SDUCR 07 | 16   | 14.8 | 170 | 11 | ≥20  | <b>25,80</b>  | <b>5,00</b>           |
| M.01.02.03.01.07 | S16P SDUCR 11 | 16   | 14.8 | 170 | 11 | ≥20  | <b>25,80</b>  | <b>5,00</b>           |
| M.01.02.03.01.08 | S20R SDUCR 11 | 20   | 18.3 | 200 | 13 | ≥25  | <b>27,10</b>  | <b>5,00</b>           |
| M.01.02.03.01.10 | S25R SDUCR 11 | 25   | 23   | 250 | 17 | ≥32  | <b>36,10</b>  | <b>5,00</b>           |

LEFT-hand version!

| Cat. num.        | Product code  | DCON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|---------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.03.02.01 | S10K SDUCL 07 | 10   | 09   | 125 | 08 | ≥13  | <b>21,40</b>  | <b>5,00</b>           |
| M.01.02.03.02.02 | S12K SDUCL 07 | 12   | 11   | 125 | 09 | ≥16  | <b>22,60</b>  | <b>5,00</b>           |
| M.01.02.03.02.03 | S16P SDUCL 07 | 16   | 14.8 | 170 | 11 | ≥20  | <b>25,80</b>  | <b>5,00</b>           |
| M.01.02.03.02.09 | S16P SDUCL 11 | 16   | 14.8 | 170 | 11 | ≥20  | <b>25,80</b>  | <b>5,00</b>           |
| M.01.02.03.02.10 | S20R SDUCL 11 | 20   | 18.3 | 200 | 13 | ≥25  | <b>27,10</b>  | <b>5,00</b>           |
| M.01.02.03.02.12 | S25R SDUCL 11 | 25   | 23   | 250 | 17 | ≥32  | <b>36,10</b>  | <b>5,00</b>           |

## TCMT inserts



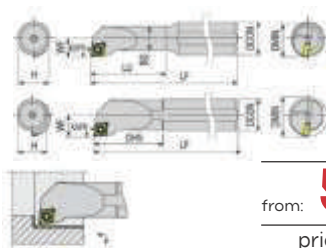
Buy 30 inserts and get the holder for only €5,00

TCMT  
from: **2,70**  
price/PC



| P | ACHTECK | ISO designation             | quality | price/pc    |
|---|---------|-----------------------------|---------|-------------|
|   |         | TCMT 090204E-PB1 (80052406) | AC152P  | <b>2,70</b> |
|   |         | TCMT 110202E-PB1 (80052407) | AC152P  | <b>2,90</b> |
|   |         | TCMT 110204E-PB1 (80052408) | AC152P  | <b>2,90</b> |
|   |         | TCMT 16T304E-PB1 (80052410) | AC152P  | <b>4,60</b> |

## Holder STFC R/L 95°



from: **5,00**  
price/PC



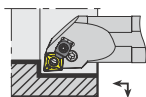
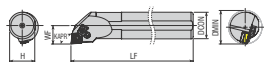
RIGHT-hand version!

| Cat. num.        | Product code  | DCON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|---------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.03.29.10 | S10K STFCR 09 | 10   | 09   | 125 | 07 | ≥13  | <b>21,40</b>  | <b>5,00</b>           |
| M.01.02.03.29.11 | S12K STFCR 09 | 12   | 11   | 125 | 09 | ≥17  | <b>22,60</b>  | <b>5,00</b>           |
| M.01.02.03.29.09 | S12K STFCR 11 | 12   | 11   | 125 | 09 | ≥17  | <b>22,60</b>  | <b>5,00</b>           |
| M.01.02.03.29.01 | S16P STFCR 11 | 16   | 14.8 | 170 | 11 | ≥20  | <b>25,80</b>  | <b>5,00</b>           |
| M.01.02.03.29.02 | S20R STFCR 11 | 20   | 18.3 | 200 | 13 | ≥25  | <b>27,10</b>  | <b>5,00</b>           |
| M.01.02.03.29.06 | S25S STFCR 16 | 25   | 23   | 250 | 17 | ≥32  | <b>36,10</b>  | <b>5,00</b>           |

LEFT-hand version!

| Cat. num.        | Product code  | DCON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|---------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.03.30.09 | S10K STFCL 09 | 10   | 09   | 125 | 07 | ≥13  | <b>21,40</b>  | <b>5,00</b>           |
| M.01.02.03.30.08 | S12K STFCL 09 | 12   | 11   | 125 | 09 | ≥17  | <b>22,60</b>  | <b>5,00</b>           |
| M.01.02.03.30.11 | S12K STFCL 11 | 12   | 11   | 125 | 09 | ≥17  | <b>22,60</b>  | <b>5,00</b>           |
| M.01.02.03.30.01 | S16P STFCL 11 | 16   | 14.8 | 170 | 11 | ≥20  | <b>25,80</b>  | <b>5,00</b>           |
| M.01.02.03.30.02 | S20R STFCL 11 | 20   | 18.3 | 200 | 13 | ≥25  | <b>27,10</b>  | <b>5,00</b>           |
| M.01.02.03.30.06 | S25S STFCL 16 | 25   | 23   | 250 | 17 | ≥32  | <b>36,10</b>  | <b>5,00</b>           |

## Holder S-PCLN 95°



from: **15,00**  
price/PC



The diagram shows the right hand holder!

**%**

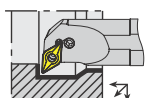
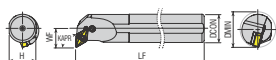
RIGHT-hand version!

| Cat. num.        | Product code   | DOON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|----------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.04.01.01 | S25S PCLNR 12  | 25   | 23   | 250 | 17 | ≥32  | <b>53,00</b>  | <b>15,00</b>          |
| M.01.02.04.01.02 | S32T PCLNR 12C | 32   | 30   | 300 | 22 | ≥40  | <b>65,00</b>  | <b>19,00</b>          |
| M.01.02.04.01.03 | S40U PCLNR 12C | 40   | 37,5 | 350 | 27 | ≥50  | <b>84,00</b>  | <b>39,00</b>          |

LEFT-hand version!

| Cat. num.        | Product code   | DOON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|----------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.04.02.01 | S25S PCLNL 12  | 25   | 23   | 250 | 17 | ≥32  | <b>53,00</b>  | <b>15,00</b>          |
| M.01.02.04.02.02 | S32T PCLNL 12C | 32   | 30   | 300 | 22 | ≥40  | <b>65,00</b>  | <b>19,00</b>          |
| M.01.02.04.02.03 | S40U PCLNL 12C | 40   | 37,5 | 350 | 27 | ≥50  | <b>84,00</b>  | <b>39,00</b>          |

## Holder S-PDUN 93°



from: **15,00**  
price/PC



The diagram shows the right hand holder!

**%**

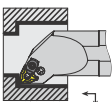
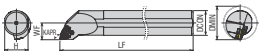
RIGHT-hand version!

| Cat. num.        | Product code  | DOON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|---------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.04.03.01 | S20R PDUNR 11 | 20   | 18,3 | 200 | 13 | ≥25  | <b>45,00</b>  | <b>15,00</b>          |
| M.01.02.04.03.02 | S25S PDUNR 11 | 25   | 23   | 250 | 17 | ≥32  | <b>52,00</b>  | <b>15,00</b>          |
| M.01.02.04.03.11 | S25S PDUNR 15 | 25   | 23   | 250 | 19 | ≥32  | <b>52,00</b>  | <b>15,00</b>          |
| M.01.02.04.03.03 | S32T PDUNR 15 | 32   | 30   | 300 | 22 | ≥40  | <b>65,00</b>  | <b>19,00</b>          |
| M.01.02.04.03.04 | S40U PDUNR 15 | 40   | 37,5 | 350 | 27 | ≥50  | <b>84,00</b>  | <b>39,00</b>          |

LEFT-hand version!

| Cat. num.        | Product code  | DOON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|---------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.04.04.01 | S20R PDUNL 11 | 20   | 18,3 | 200 | 13 | ≥25  | <b>45,00</b>  | <b>15,00</b>          |
| M.01.02.04.04.02 | S25S PDUNL 11 | 25   | 23   | 250 | 17 | ≥32  | <b>52,00</b>  | <b>15,00</b>          |
| M.01.02.04.04.11 | S25S PDUNL 15 | 25   | 23   | 250 | 19 | ≥32  | <b>52,00</b>  | <b>15,00</b>          |
| M.01.02.04.04.03 | S32T PDUNL 15 | 32   | 30   | 300 | 22 | ≥40  | <b>65,00</b>  | <b>19,00</b>          |
| M.01.02.04.04.04 | S40U PDUNL 15 | 40   | 37,5 | 350 | 27 | ≥50  | <b>84,00</b>  | <b>39,00</b>          |

## Holder S-PWLN 95°



from: **15,00**  
price/PC



The diagram shows the right hand holder!

**%**

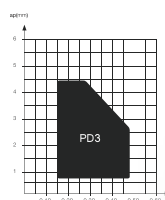
RIGHT-hand version!

| Cat. num.        | Product code   | DOON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|----------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.04.09.11 | S20R PWLNR 06  | 20   | 18,3 | 200 | 13 | ≥25  | <b>45,00</b>  | <b>15,00</b>          |
| M.01.02.04.09.15 | S25S PWLNR 06  | 25   | 23   | 250 | 17 | ≥32  | <b>52,00</b>  | <b>15,00</b>          |
| M.01.02.04.09.01 | S25S PWLNR 08C | 25   | 23   | 250 | 17 | ≥32  | <b>52,00</b>  | <b>15,00</b>          |
| M.01.02.04.09.02 | S32T PWLNR 08C | 32   | 30   | 300 | 22 | ≥40  | <b>65,00</b>  | <b>19,00</b>          |
| M.01.02.04.09.03 | S40U PWLNR 08C | 40   | 37,5 | 350 | 27 | ≥50  | <b>84,00</b>  | <b>39,00</b>          |

LEFT-hand version!

| Cat. num.        | Product code   | DOON | H    | LF  | WF | DMIN | Special price | Price with 30 inserts |
|------------------|----------------|------|------|-----|----|------|---------------|-----------------------|
| M.01.02.04.10.11 | S20R PWLNL 06  | 20   | 18,3 | 200 | 13 | ≥25  | <b>45,00</b>  | <b>15,00</b>          |
| M.01.02.04.10.15 | S25S PWLNL 06  | 25   | 23   | 250 | 17 | ≥32  | <b>52,00</b>  | <b>15,00</b>          |
| M.01.02.04.10.01 | S25S PWLNL 08C | 25   | 23   | 250 | 17 | ≥32  | <b>52,00</b>  | <b>15,00</b>          |
| M.01.02.04.10.02 | S32T PWLNL 08C | 32   | 30   | 300 | 22 | ≥40  | <b>65,00</b>  | <b>19,00</b>          |
| M.01.02.04.10.03 | S40U PWLNL 08C | 40   | 37,5 | 350 | 27 | ≥50  | <b>84,00</b>  | <b>39,00</b>          |

## CNMG inserts



## ACHTECK

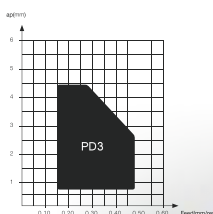
CNMG  
from: **4,50**  
price/PC



**%**

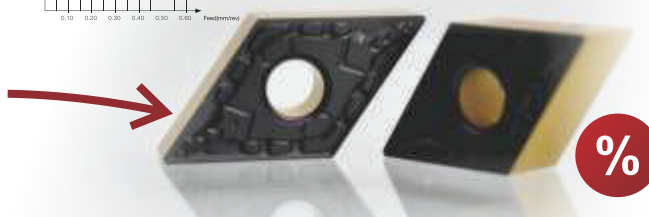
| P | ACHTECK | ISO designation             | quality | price/pc    |
|---|---------|-----------------------------|---------|-------------|
|   |         | CNMG 120404E-PD3 (80052541) | AC252P  | <b>4,50</b> |
|   |         | CNMG 120408E-PD3 (80052542) | AC252P  | <b>4,50</b> |

## DNMG inserts



## ACHTECK

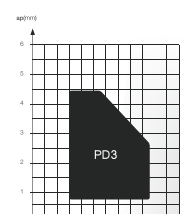
DNMG  
from: **4,30**  
price/PC



**%**

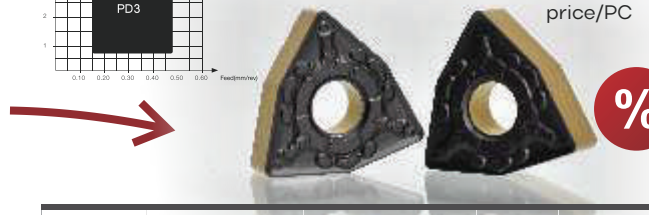
| P | ACHTECK | ISO designation             | quality | price/pc    |
|---|---------|-----------------------------|---------|-------------|
|   |         | DNMG 110404E-PD3 (80052595) | AC252P  | <b>4,30</b> |
|   |         | DNMG 110408E-PD3 (80052596) | AC252P  | <b>4,30</b> |
|   |         | DNMG 150604E-PD3 (80052600) | AC252P  | <b>5,50</b> |
|   |         | DNMG 150608E-PD3 (80052601) | AC252P  | <b>5,50</b> |

## WNMG inserts



## ACHTECK

WNMG  
from: **4,30**  
price/PC



**%**

| P | ACHTECK | ISO designation             | quality | price/pc    |
|---|---------|-----------------------------|---------|-------------|
|   |         | WNMG 060408E-PD3 (80052696) | AC252P  | <b>4,30</b> |
|   |         | WNMG 080404E-PD3 (80052697) | AC252P  | <b>4,50</b> |
|   |         | WNMG 080408E-PD3 (80052698) | AC252P  | <b>4,50</b> |

## ATSER/L cut-off tool holder

**ACHTECK**

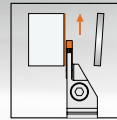
### Inserts ACD...

| ACHTECK    | ISO designation       | quality | price/pc     |
|------------|-----------------------|---------|--------------|
| <b>P M</b> | ACD 202-CM (00034978) | AP301U  | <b>7,50</b>  |
| <b>P M</b> | ACD 202-CM (80036795) | AP330M  | <b>7,50</b>  |
| <b>P M</b> | ACD 302-CM (00034979) | AP301U  | <b>7,99</b>  |
| <b>P M</b> | ACD 302-CM (80036801) | AP330M  | <b>7,99</b>  |
| <b>P M</b> | ACD 403-CM (00038809) | AP301U  | <b>8,80</b>  |
| <b>P M</b> | ACD 403-CM (80036807) | AP330M  | <b>8,80</b>  |
| <b>P M</b> | ACD 503-CM (00043095) | AP301U  | <b>11,40</b> |
| <b>P M</b> | ACD 603-CM (80021452) | AP301U  | <b>13,99</b> |
| <b>P M</b> | ACD 603-CM (80036813) | AP330M  | <b>13,99</b> |

### Inserts ATD...

| ACHTECK    | ISO designation        | quality | price/pc     |
|------------|------------------------|---------|--------------|
| <b>P M</b> | ATD 203-TSR (80077241) | AP301U  | <b>8,10</b>  |
| <b>P M</b> | ATD 203-TS (80036841)  | AP330M  | <b>8,10</b>  |
| <b>P M</b> | ATD 303-TSR (80077243) | AP301U  | <b>8,80</b>  |
| <b>P M</b> | ATD 303-TS (80036842)  | AP330M  | <b>8,80</b>  |
| <b>P M</b> | ATD 404-TSR (80077245) | AP301U  | <b>9,80</b>  |
| <b>P M</b> | ATD 404-TS (80036844)  | AP330M  | <b>9,80</b>  |
| <b>P M</b> | ATD 504-TSR (80077247) | AP301U  | <b>11,99</b> |
| <b>P M</b> | ATD 504-TS (80036846)  | AP330M  | <b>11,99</b> |
| <b>P M</b> | ATD 604-TSR (80077249) | AP301U  | <b>14,90</b> |
| <b>P M</b> | ATD 604-TS (80036848)  | AP330M  | <b>14,90</b> |

from: **7,50**  
price/PC



The diagram shows the left hand holder!

WHEN YOU PURCHASE 20 INSERTS,  
THE HOLDER IS  
FOR ONLY **5,0€**

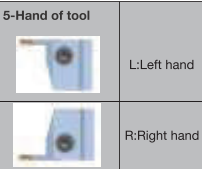
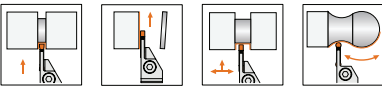
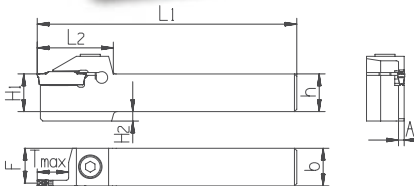
**20x**  
ACD...  
INSERTS

CM

OR

**20x**  
ATD...  
INSERTS

TS



| Material List of Indexable Milling Inserts |                                  |      |        |  |  |  |     |  |          |  |
|--------------------------------------------|----------------------------------|------|--------|--|--|--|-----|--|----------|--|
| Material Group                             | Material classification          | ISO  | Coated |  |  |  | CVD |  | Uncoated |  |
|                                            |                                  |      | PVD    |  |  |  |     |  |          |  |
| <b>P</b>                                   | un alloy steels / Alloyed steels | P201 |        |  |  |  |     |  |          |  |
|                                            |                                  | P202 |        |  |  |  |     |  |          |  |
|                                            |                                  | P203 |        |  |  |  |     |  |          |  |
|                                            |                                  | P204 |        |  |  |  |     |  |          |  |
|                                            |                                  | P205 |        |  |  |  |     |  |          |  |
|                                            |                                  | P206 |        |  |  |  |     |  |          |  |
|                                            |                                  | P207 |        |  |  |  |     |  |          |  |
|                                            |                                  | P208 |        |  |  |  |     |  |          |  |
|                                            |                                  | P209 |        |  |  |  |     |  |          |  |
|                                            |                                  | P210 |        |  |  |  |     |  |          |  |
| <b>M</b>                                   | Stainless steels                 | M201 |        |  |  |  |     |  |          |  |
|                                            |                                  | M202 |        |  |  |  |     |  |          |  |
|                                            |                                  | M203 |        |  |  |  |     |  |          |  |
|                                            |                                  | M204 |        |  |  |  |     |  |          |  |
|                                            |                                  | M205 |        |  |  |  |     |  |          |  |
|                                            |                                  | M206 |        |  |  |  |     |  |          |  |
|                                            |                                  | M207 |        |  |  |  |     |  |          |  |
|                                            |                                  | M208 |        |  |  |  |     |  |          |  |
|                                            |                                  | M209 |        |  |  |  |     |  |          |  |
|                                            |                                  | M210 |        |  |  |  |     |  |          |  |

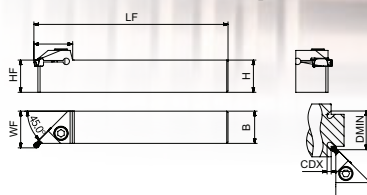
#### LEFT-hand version

| Product code    | Number of the holder | h  | b  | H  | H2 | A    | L <sub>1</sub> | L <sub>2</sub> | F    | T <sub>max</sub> |
|-----------------|----------------------|----|----|----|----|------|----------------|----------------|------|------------------|
| ATSEL 1616-2T17 | 00025130             | 16 | 16 | 16 | 4  | 1,8  | 110            | 37             | 15,1 | 17               |
| ATSEL 2020-2T17 | 00024918             | 20 | 20 | 20 | 0  | 1,8  | 125            | 37             | 19,1 | 17               |
| ATSEL 2525-2T17 | 00024958             | 25 | 25 | 25 | 0  | 1,8  | 150            | 37             | 24,1 | 17               |
| ATSEL 1616-3T20 | 00025135             | 16 | 16 | 16 | 4  | 2,4  | 110            | 38             | 14,8 | 20               |
| ATSEL 2020-3T20 | 00024923             | 20 | 20 | 20 | 0  | 2,4  | 125            | 38             | 18,8 | 20               |
| ATSEL 2525-3T20 | 00024962             | 25 | 25 | 25 | 0  | 2,4  | 150            | 38             | 23,8 | 20               |
| ATSEL 2525-3T25 | 00039044             | 25 | 25 | 25 | 0  | 2,4  | 150            | 45             | 23,8 | 25               |
| ATSEL 2020-4T25 | 00024930             | 20 | 20 | 20 | 0  | 3,35 | 125            | 45             | 18,3 | 25               |
| ATSEL 2525-4T20 | 80003686             | 25 | 25 | 25 | 0  | 3,35 | 150            | 40             | 23,3 | 20               |
| ATSEL 2525-4T25 | 00024969             | 25 | 25 | 25 | 0  | 3,35 | 150            | 45             | 23,3 | 25               |
| ATSEL 2525-5T20 | 00025171             | 25 | 25 | 25 | 0  | 4,35 | 150            | 37             | 22,8 | 20               |
| ATSEL 2525-5T32 | 00033244             | 25 | 25 | 25 | 0  | 4,35 | 150            | 56             | 22,8 | 32               |
| ATSEL 3232-5T25 | 80000857             | 32 | 32 | 32 | 0  | 4,35 | 170            | 46             | 29,8 | 25               |
| ATSEL 3232-5T32 | 80000863             | 32 | 32 | 32 | 0  | 4,35 | 170            | 56             | 29,8 | 32               |
| ATSEL 2525-6T32 | 00033248             | 25 | 25 | 25 | 7  | 5,35 | 150            | 56             | 22,3 | 32               |
| ATSEL 3232-6T32 | 80000922             | 32 | 32 | 32 | 0  | 5,35 | 170            | 56             | 29,3 | 32               |

#### RIGHT-hand version

| Product code    | Number of the holder | h  | b  | H  | H2 | A    | L <sub>1</sub> | L <sub>2</sub> | F    | T <sub>max</sub> |
|-----------------|----------------------|----|----|----|----|------|----------------|----------------|------|------------------|
| ATSER 1616-2T17 | 00025129             | 16 | 16 | 16 | 4  | 1,8  | 110            | 37             | 15,1 | 17               |
| ATSER 2020-2T17 | 80045128             | 20 | 20 | 20 | 0  | 1,8  | 125            | 37             | 19,1 | 17               |
| ATSER 2525-2T17 | 00024959             | 25 | 25 | 25 | 0  | 1,8  | 150            | 37             | 24,1 | 17               |
| ATSER 1616-3T20 | 00025136             | 16 | 16 | 16 | 4  | 2,4  | 110            | 38             | 14,8 | 20               |
| ATSER 2020-3T20 | 00024924             | 20 | 20 | 20 | 0  | 2,4  | 125            | 38             | 18,8 | 20               |
| ATSER 2525-3T20 | 00024963             | 25 | 25 | 25 | 0  | 2,4  | 150            | 38             | 23,8 | 20               |
| ATSER 2525-3T25 | 00039043             | 25 | 25 | 25 | 0  | 2,4  | 150            | 45             | 23,8 | 25               |
| ATSER 2020-4T25 | 00024929             | 20 | 20 | 20 | 0  | 3,35 | 125            | 45             | 18,3 | 25               |
| ATSER 2525-4T20 | 80003684             | 25 | 25 | 25 | 0  | 3,35 | 150            | 40             | 23,3 | 20               |
| ATSER 2525-4T25 | 00024968             | 25 | 25 | 25 | 0  | 3,35 | 150            | 45             | 23,3 | 25               |
| ATSER 2525-5T20 | 00025170             | 25 | 25 | 25 | 0  | 4,35 | 150            | 37             | 22,8 | 20               |
| ATSER 2525-5T32 | 00033243             | 25 | 25 | 25 | 0  | 4,35 | 150            | 56             | 22,8 | 32               |
| ATSER 3232-5T25 | 80000855             | 32 | 32 | 32 | 0  | 4,35 | 170            | 46             | 29,8 | 25               |
| ATSER 3232-5T32 | 80000861             | 32 | 32 | 32 | 0  | 4,35 | 170            | 56             | 29,8 | 32               |
| ATSER 2525-6T32 | 00033247             | 25 | 25 | 25 | 7  | 5,35 | 150            | 56             | 22,3 | 32               |
| ATSER 3232-6T32 | 80000920             | 32 | 32 | 32 | 0  | 5,35 | 170            | 56             | 29,3 | 32               |

## Holder AGUER/L



**ACHTTECK**

ATD

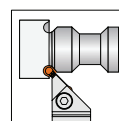
from: **8,40**  
price/PC

## Inserts ATD...

| ACHTTECK   | ISO designation        | quality | price/pc     |
|------------|------------------------|---------|--------------|
| <b>P M</b> | ATD 315-RMR (80099218) | AP301U  | <b>8,40</b>  |
| <b>P M</b> | ATD 420-RMR (80098423) | AP301U  | <b>9,20</b>  |
| <b>N</b>   | ATD 315-RA (80038117)  | AW100K  | <b>12,50</b> |
| <b>N</b>   | ATD 420-RA (80038116)  | AW100K  | <b>13,99</b> |
| <b>M S</b> | ATD 315-RS (80088093)  | AP130S  | <b>13,50</b> |
| <b>M S</b> | ATD 420-RS (80088094)  | AP130S  | <b>14,50</b> |

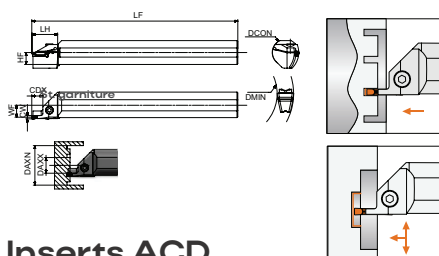
WHEN YOU PURCHASE 20 INSERTS,  
THE HOLDER IS  
FOR ONLY **5,0€**

**20x**  
ATD...  
INSERTS



| Product code | Number of the holder | Size of the insert (mm) | H  | B  | HF | LF  | LH   | WF   | CDX | DMIN | inserts |              |
|--------------|----------------------|-------------------------|----|----|----|-----|------|------|-----|------|---------|--------------|
| AGUER 1616-3 | 00038129             | 2, 3                    | 16 | 16 | 16 | 110 | 30,2 | 19,6 | 3   | 60   | ATD...  | Right holder |
| AGUER 2020-3 | 00038133             | 2, 3                    | 20 | 20 | 20 | 125 | 30,2 | 23,6 | 3   | 60   | ATD...  |              |
| AGUER 2525-3 | 00038137             | 2, 3                    | 25 | 25 | 25 | 150 | 30,2 | 28,6 | 3   | 60   | ATD...  |              |
| AGUER 2020-4 | 00038135             | 4                       | 20 | 20 | 20 | 125 | 30,2 | 23,8 | 3   | 55   | ATD...  |              |
| AGUER 2525-4 | 00038139             | 4                       | 25 | 25 | 25 | 150 | 30,2 | 28,8 | 3   | 55   | ATD...  |              |
| AGUEL 1616-3 | 00038130             | 2, 3                    | 16 | 16 | 16 | 110 | 30,2 | 19,6 | 3   | 60   | ATD...  | Left holder  |
| AGUEL 2020-3 | 00038134             | 2, 3                    | 20 | 20 | 20 | 125 | 30,2 | 23,6 | 3   | 60   | ATD...  |              |
| AGUEL 2525-3 | 00038138             | 2, 3                    | 25 | 25 | 25 | 150 | 30,2 | 28,6 | 3   | 60   | ATD...  |              |
| AGUEL 2020-4 | 00038136             | 4                       | 20 | 20 | 20 | 125 | 30,2 | 23,8 | 3   | 55   | ATD...  |              |
| AGUEL 2525-4 | 00038140             | 4                       | 25 | 25 | 25 | 150 | 30,2 | 28,8 | 3   | 55   | ATD...  |              |

## Holder ATSIR/L



ACD

from: **7,99**  
price/PC

WHEN YOU PURCHASE 20 INSERTS,  
THE HOLDER IS  
FOR ONLY **5,0€**

**20x**  
ACD...  
INSERTS



CM

## Inserts ACD...

| ACHTTECK   | ISO designation       | quality | price/pc    |
|------------|-----------------------|---------|-------------|
| <b>P M</b> | ACD 302-CM (00034979) | AP301U  | <b>7,99</b> |
| <b>P M</b> | ACD 403-CM (00038809) | AP301U  | <b>8,80</b> |
| <b>P M</b> | ACD 302-CM (80036801) | AP330M  | <b>7,99</b> |
| <b>P M</b> | ACD 403-CM (80036807) | AP330M  | <b>8,80</b> |

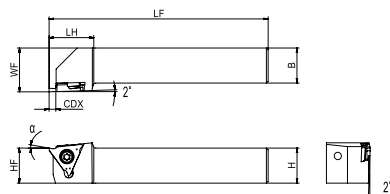
| Product code           | Number of the holder | DCON | LF  | LH | WF   | A    | CDX | DMIN | DMAX | inserts |              |
|------------------------|----------------------|------|-----|----|------|------|-----|------|------|---------|--------------|
| ATSIR 25-3T12-35-45-C  | 00039847             | 25   | 200 | 31 | 11,5 | 11,5 | 12  | 35   | 45   | ACD     | Right holder |
| ATSIR 25-3T12-40-60-C  | 00043701             | 25   | 200 | 31 | 11,5 | 11,5 | 12  | 40   | 60   | ACD     |              |
| ATSIR 25-3T12-55-90-C  | 00043682             | 25   | 200 | 31 | 11,5 | 11,5 | 12  | 55   | 90   | ACD     |              |
| ATSIR 25-3T12-80-150-C | 00039454             | 25   | 200 | 31 | 11,5 | 11,5 | 12  | 80   | 150  | ACD     |              |
| ATSIR 25-4T12-20-35-C  | 00043684             | 25   | 200 | 31 | 11,0 | 11,5 | 12  | 20   | 35   | ACD     |              |
| ATSIR 25-4T12-28-45-C  | 00043686             | 25   | 200 | 31 | 11,0 | 11,5 | 12  | 28   | 45   | ACD     |              |
| ATSIR 25-4T12-35-55-C  | 00043688             | 25   | 200 | 31 | 11,0 | 11,5 | 12  | 35   | 55   | ACD     |              |
| ATSIR 32-4T12-45-70-C  | 00039849             | 32   | 250 | 31 | 14,5 | 15,0 | 12  | 45   | 70   | ACD     |              |
| ATSIR 32-4T12-60-100-C | 00043690             | 32   | 250 | 31 | 14,5 | 15,0 | 12  | 60   | 100  | ACD     |              |
| ATSIR 32-4T12-90-180-C | 00043692             | 32   | 250 | 31 | 14,5 | 15,0 | 12  | 90   | 180  | ACD     |              |
| ATSIL 25-3T12-35-45-C  | 00039847             | 25   | 200 | 31 | 11,5 | 11,5 | 12  | 35   | 45   | ACD     | Left holder  |
| ATSIL 25-3T12-40-60-C  | 00043701             | 25   | 200 | 31 | 11,5 | 11,5 | 12  | 40   | 60   | ACD     |              |
| ATSIL 25-3T12-55-90-C  | 00043682             | 25   | 200 | 31 | 11,5 | 11,5 | 12  | 55   | 90   | ACD     |              |
| ATSIL 25-3T12-80-150-C | 00039454             | 25   | 200 | 31 | 11,5 | 11,5 | 12  | 80   | 150  | ACD     |              |
| ATSIL 25-4T12-20-35-C  | 00043684             | 25   | 200 | 31 | 11,0 | 11,5 | 12  | 20   | 35   | ACD     |              |
| ATSIL 25-4T12-28-45-C  | 00043686             | 25   | 200 | 31 | 11,0 | 11,5 | 12  | 28   | 45   | ACD     |              |
| ATSIL 25-4T12-35-55-C  | 00043688             | 25   | 200 | 31 | 11,0 | 11,5 | 12  | 35   | 55   | ACD     |              |
| ATSIL 32-4T12-45-70-C  | 00039849             | 32   | 250 | 31 | 14,5 | 15,0 | 12  | 45   | 70   | ACD     |              |
| ATSIL 32-4T12-60-100-C | 00043690             | 32   | 250 | 31 | 14,5 | 15,0 | 12  | 60   | 100  | ACD     |              |
| ATSIL 32-4T12-90-180-C | 00043692             | 32   | 250 | 31 | 14,5 | 15,0 | 12  | 90   | 180  | ACD     |              |

# ACHTECK

ATGHR 2020K43-10  
SP05008550

## ATGHR/L External Shallow Grooving Holder

ACHTECK



**20x** ATG...  
INSERTS

WHEN YOU PURCHASE 20 INSERTS,  
THE HOLDER IS  
FOR ONLY **5,0€**



RIGHT-hand version!

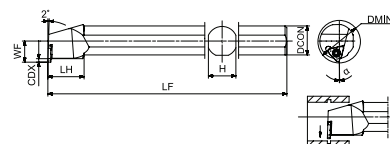
| Cat. numb. of the milling holder | Product code        | H  | B  | LF | LH  | WF   | CDX | inserts |
|----------------------------------|---------------------|----|----|----|-----|------|-----|---------|
| 80061731                         | ATGHR 2020K32-T25   | 20 | 20 | 20 | 125 | 24   | 2,5 | ATG..   |
| 80081847                         | ATGHR 2525M32-T25   | 25 | 25 | 25 | 150 | 24   | 2,5 | ATG..   |
| 80061552                         | ATGHR 2020K43-10T40 | 20 | 20 | 20 | 125 | 25,5 | 4,0 | ATG..   |
| 80081861                         | ATGHR 2525M43-10T40 | 25 | 25 | 25 | 150 | 25,5 | 4,0 | ATG..   |
| 80136884                         | ATGHR 2020K43-20T45 | 20 | 20 | 20 | 125 | 25,5 | 4,5 | ATG..   |
| 80136872                         | ATGHR 2525M43-20T45 | 25 | 25 | 25 | 150 | 25,5 | 4,5 | ATG..   |
| 80081863                         | ATGHR 2020K43-20T55 | 20 | 20 | 20 | 125 | 25,5 | 5,5 | ATG..   |
| 80081865                         | ATGHR 2525M43-20T55 | 25 | 25 | 25 | 150 | 25,5 | 5,5 | ATG..   |
| 80081867                         | ATGHR 2020K43-30T55 | 20 | 20 | 20 | 125 | 25,5 | 5,5 | ATG..   |
| 80081869                         | ATGHR 2525M43-30T55 | 25 | 25 | 25 | 150 | 25,5 | 5,5 | ATG..   |

LEFT-hand version!

| Cat. numb. of the milling holder | Product code        | H  | B  | LF | LH  | WF   | CDX | inserts |
|----------------------------------|---------------------|----|----|----|-----|------|-----|---------|
| 80061731                         | ATGHL 2020K32-T25   | 20 | 20 | 20 | 125 | 24   | 2,5 | ATG..   |
| 80081847                         | ATGHL 2525M32-T25   | 25 | 25 | 25 | 150 | 24   | 2,5 | ATG..   |
| 80061552                         | ATGHL 2020K43-10T40 | 20 | 20 | 20 | 125 | 25,5 | 4,0 | ATG..   |
| 80081861                         | ATGHL 2525M43-10T40 | 25 | 25 | 25 | 150 | 25,5 | 4,0 | ATG..   |
| 80136884                         | ATGHL 2020K43-20T45 | 20 | 20 | 20 | 125 | 25,5 | 4,5 | ATG..   |
| 80136872                         | ATGHL 2525M43-20T45 | 25 | 25 | 25 | 150 | 25,5 | 4,5 | ATG..   |
| 80081863                         | ATGHL 2020K43-20T55 | 20 | 20 | 20 | 125 | 25,5 | 5,5 | ATG..   |
| 80081865                         | ATGHL 2525M43-20T55 | 25 | 25 | 25 | 150 | 25,5 | 5,5 | ATG..   |
| 80081867                         | ATGHL 2020K43-30T55 | 20 | 20 | 20 | 125 | 25,5 | 5,5 | ATG..   |
| 80081869                         | ATGHL 2525M43-30T55 | 25 | 25 | 25 | 150 | 25,5 | 5,5 | ATG..   |

## ATGIR/L Internal Grooving Holder

ACHTECK



**20x** ATG...  
INSERTS

WHEN YOU PURCHASE 20 INSERTS,  
THE HOLDER IS  
FOR ONLY **5,0€**



RIGHT-hand version!

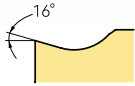
| Cat. numb. of the milling holder | Product code      | DMIN | DCON | LF  | LH | WF   | CDX | inserts |
|----------------------------------|-------------------|------|------|-----|----|------|-----|---------|
| 80066363                         | ATGIR 25R32-35T28 | 35   | 25   | 220 | 30 | 17,5 | 2,8 | ATG...  |
| 80066360                         | ATGIR 32S43-40T30 | 40   | 32   | 250 | 30 | 23,0 | 3,0 | ATG..   |

LEFT-hand version!

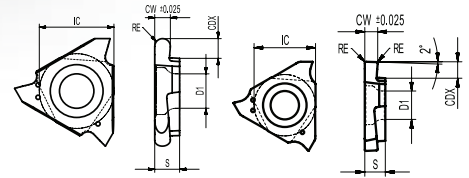
| Cat. numb. of the milling holder | Product code      | DMIN | DCON | LF  | LH | WF   | CDX | inserts |
|----------------------------------|-------------------|------|------|-----|----|------|-----|---------|
| 80066364                         | ATGIL 25R32-35T28 | 35   | 25   | 220 | 30 | 17,5 | 2,8 | ATG...  |
| 80066362                         | ATGIL 32S43-40T30 | 40   | 32   | 250 | 30 | 23,0 | 3,0 | ATG..   |

## Shallow Grooving Series

\* ATG: Applied to external and internal shallow grooving



ATG  
from: **8,80**  
price/PC



(The diagram shows the right hand insert)



### RIGHT-hand version

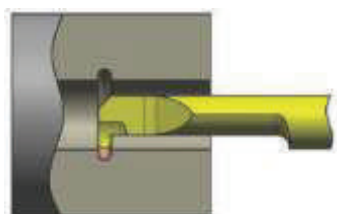
| Cat. numb. | Product code       | CDX | CW   | RE   | Quality | price/PC |
|------------|--------------------|-----|------|------|---------|----------|
| 80058787   | ATG 32R033T08-R005 | 0,8 | 0,33 | 0,05 | AP301U  | 8,80     |
| 80058788   | ATG 32R050T12-R005 | 1,2 | 0,50 | 0,05 | AP301U  | 8,80     |
| 80058789   | ATG 32R075T20-R005 | 2,0 | 0,75 | 0,05 | AP301U  | 8,80     |
| 80058790   | ATG 32R095T20-R005 | 2,0 | 0,95 | 0,05 | AP301U  | 8,80     |
| 80058791   | ATG 32R100T20-R005 | 2,0 | 1,00 | 0,05 | AP301U  | 8,80     |
| 80058792   | ATG 32R110T20-R005 | 2,0 | 1,10 | 0,05 | AP301U  | 8,80     |
| 80058793   | ATG 32R120T20-R005 | 2,0 | 1,20 | 0,05 | AP301U  | 8,80     |
| 80058794   | ATG 32R125T20-R020 | 2,0 | 1,25 | 0,20 | AP301U  | 8,80     |
| 80058795   | ATG 32R130T20-R020 | 2,0 | 1,30 | 0,20 | AP301U  | 8,80     |
| 80058796   | ATG 32R140T25-R020 | 2,5 | 1,40 | 0,20 | AP301U  | 8,80     |
| 80058797   | ATG 32R145T25-R020 | 2,5 | 1,45 | 0,20 | AP301U  | 8,80     |
| 80058798   | ATG 32R150T25-R020 | 2,5 | 1,50 | 0,20 | AP301U  | 8,80     |
| 80058799   | ATG 32R160T25-R020 | 2,5 | 1,60 | 0,20 | AP301U  | 8,80     |
| 80058800   | ATG 32R170T25-R020 | 2,5 | 1,70 | 0,20 | AP301U  | 8,80     |
| 80058801   | ATG 32R175T25-R020 | 2,5 | 1,75 | 0,20 | AP301U  | 8,80     |
| 80058802   | ATG 32R200T25-R020 | 2,5 | 2,00 | 0,20 | AP301U  | 8,80     |
| 80058803   | ATG 32R225T25-R020 | 2,5 | 2,25 | 0,20 | AP301U  | 8,80     |
| 80058804   | ATG 32R250T25-R020 | 2,5 | 2,50 | 0,20 | AP301U  | 8,80     |
| 80058805   | ATG 32R300T25-R020 | 2,5 | 3,00 | 0,20 | AP301U  | 8,80     |
| 80058825   | ATG 43R100T20-R010 | 2,0 | 1,00 | 0,10 | AP301U  | 11,80    |
| 80058826   | ATG 43R125T20-R010 | 2,0 | 1,25 | 0,10 | AP301U  | 11,80    |
| 80058827   | ATG 43R125T20-R020 | 2,0 | 1,25 | 0,20 | AP301U  | 11,80    |
| 80058828   | ATG 43R130T30-R010 | 3,0 | 1,30 | 0,10 | AP301U  | 11,80    |
| 80058829   | ATG 43R130T30-R020 | 3,0 | 1,30 | 0,20 | AP301U  | 11,80    |
| 80058830   | ATG 43R140T35-R020 | 3,5 | 1,40 | 0,20 | AP301U  | 11,80    |
| 80058831   | ATG 43R145T35-R020 | 3,5 | 1,45 | 0,20 | AP301U  | 11,80    |
| 80058832   | ATG 43R150T35-R010 | 3,5 | 1,50 | 0,10 | AP301U  | 11,80    |
| 80058833   | ATG 43R150T35-R020 | 3,5 | 1,50 | 0,20 | AP301U  | 11,80    |
| 80058834   | ATG 43R170T35-R020 | 3,5 | 1,70 | 0,20 | AP301U  | 11,80    |
| 80058835   | ATG 43R175T35-R020 | 3,5 | 1,75 | 0,20 | AP301U  | 11,80    |
| 80058836   | ATG 43R185T35-R020 | 3,5 | 1,85 | 0,20 | AP301U  | 11,80    |
| 80058837   | ATG 43R195T35-R020 | 3,5 | 1,95 | 0,20 | AP301U  | 11,80    |
| 80058838   | ATG 43R200T35-R010 | 3,5 | 2,00 | 0,10 | AP301U  | 11,80    |
| 80058839   | ATG 43R200T35-R020 | 3,5 | 2,00 | 0,20 | AP301U  | 11,80    |
| 80058840   | ATG 43R225T35-R020 | 3,5 | 2,25 | 0,20 | AP301U  | 11,80    |
| 80058841   | ATG 43R230T35-R020 | 3,5 | 2,30 | 0,20 | AP301U  | 11,80    |
| 80058842   | ATG 43R250T50-R010 | 5,0 | 2,50 | 0,10 | AP301U  | 11,80    |
| 80058843   | ATG 43R250T50-R030 | 5,0 | 2,50 | 0,30 | AP301U  | 11,80    |
| 80058844   | ATG 43R265T50-R030 | 5,0 | 2,65 | 0,30 | AP301U  | 11,80    |
| 80058845   | ATG 43R280T50-R030 | 5,0 | 2,80 | 0,30 | AP301U  | 11,80    |
| 80058846   | ATG 43R300T50-R010 | 5,0 | 3,00 | 0,10 | AP301U  | 11,80    |
| 80058847   | ATG 43R300T50-R030 | 5,0 | 3,00 | 0,30 | AP301U  | 11,80    |
| 80058848   | ATG 43R325T50-R030 | 5,0 | 3,25 | 0,30 | AP301U  | 11,80    |
| 80058849   | ATG 43R330T50-R030 | 5,0 | 3,30 | 0,30 | AP301U  | 11,80    |
| 80058850   | ATG 43R350T50-R010 | 5,0 | 3,50 | 0,10 | AP301U  | 11,80    |
| 80058851   | ATG 43R350T50-R030 | 5,0 | 3,50 | 0,30 | AP301U  | 11,80    |
| 80058852   | ATG 43R400T50-R010 | 5,0 | 4,00 | 0,10 | AP301U  | 11,80    |
| 80058853   | ATG 43R400T50-R040 | 5,0 | 4,00 | 0,40 | AP301U  | 11,80    |
| 80058854   | ATG 43R430T50-R040 | 5,0 | 4,30 | 0,40 | AP301U  | 11,80    |
| 80058855   | ATG 43R450T50-R040 | 5,0 | 4,50 | 0,40 | AP301U  | 11,80    |
| 80101410   | ATG 32R050T12-R025 | 1,2 | 0,50 | 0,25 | AP301U  | 10,60    |
| 80058889   | ATG 32R150T25-R075 | 2,5 | 1,50 | 0,75 | AP301U  | 10,60    |
| 80058890   | ATG 32R200T25-R100 | 2,5 | 2,00 | 1,00 | AP301U  | 10,60    |
| 80058891   | ATG 32R300T25-R150 | 2,5 | 3,00 | 1,50 | AP301U  | 10,60    |
| 80058892   | ATG 43R100T20-R050 | 2,0 | 1,00 | 0,50 | AP301U  | 14,10    |
| 80058893   | ATG 43R150T35-R075 | 3,5 | 1,50 | 0,75 | AP301U  | 14,10    |
| 80058894   | ATG 43R200T35-R100 | 3,5 | 2,00 | 1,00 | AP301U  | 14,10    |
| 80058895   | ATG 43R250T40-R125 | 5,0 | 2,50 | 1,25 | AP301U  | 14,10    |
| 80058896   | ATG 43R300T40-R150 | 5,0 | 3,00 | 1,50 | AP301U  | 14,10    |
| 80058897   | ATG 43R400T50-R200 | 5,0 | 4,00 | 2,00 | AP301U  | 14,10    |

### LEFT-hand version

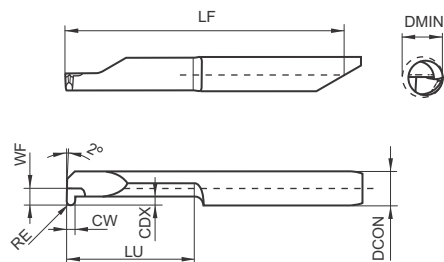
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|------------|--------------------|-----|------|------|---------|----------|
| 80058806   | ATG 32L033T08-R005 | 0,8 | 0,33 | 0,05 | AP301U  | 8,80     |
| 80058807   | ATG 32L050T12-R005 | 1,2 | 0,50 | 0,05 | AP301U  | 8,80     |
| 80058808   | ATG 32L075T20-R005 | 2,0 | 0,75 | 0,05 | AP301U  | 8,80     |
| 80058809   | ATG 32L095T20-R005 | 2,0 | 0,95 | 0,05 | AP301U  | 8,80     |
| 80058810   | ATG 32L100T20-R005 | 2,0 | 1,00 | 0,05 | AP301U  | 8,80     |
| 80058811   | ATG 32L110T20-R005 | 2,0 | 1,10 | 0,05 | AP301U  | 8,80     |
| 80058812   | ATG 32L120T20-R005 | 2,0 | 1,20 | 0,05 | AP301U  | 8,80     |
| 80058813   | ATG 32L125T20-R020 | 2,0 | 1,25 | 0,20 | AP301U  | 8,80     |
| 80058814   | ATG 32L130T20-R020 | 2,0 | 1,30 | 0,20 | AP301U  | 8,80     |
| 80058815   | ATG 32L140T25-R020 | 2,5 | 1,40 | 0,20 | AP301U  | 8,80     |
| 80058816   | ATG 32L145T25-R020 | 2,5 | 1,45 | 0,20 | AP301U  | 8,80     |
| 80058817   | ATG 32L150T25-R020 | 2,5 | 1,50 | 0,20 | AP301U  | 8,80     |
| 80058818   | ATG 32L160T25-R020 | 2,5 | 1,60 | 0,20 | AP301U  | 8,80     |
| 80058819   | ATG 32L170T25-R020 | 2,5 | 1,70 | 0,20 | AP301U  | 8,80     |
| 80058820   | ATG 32L175T25-R020 | 2,5 | 1,75 | 0,20 | AP301U  | 8,80     |
| 80058821   | ATG 32L200T25-R020 | 2,5 | 2,00 | 0,20 | AP301U  | 8,80     |
| 80058822   | ATG 32L225T25-R020 | 2,5 | 2,25 | 0,20 | AP301U  | 8,80     |
| 80058823   | ATG 32L250T25-R020 | 2,5 | 2,50 | 0,20 | AP301U  | 8,80     |
| 80058824   | ATG 32L300T25-R020 | 2,5 | 3,00 | 0,20 | AP301U  | 8,80     |
| 80058857   | ATG 43L100T20-R010 | 2,0 | 1,00 | 0,10 | AP301U  | 11,80    |
| 80058858   | ATG 43L125T20-R010 | 2,0 | 1,25 | 0,10 | AP301U  | 11,80    |
| 80058859   | ATG 43L125T20-R020 | 2,0 | 1,25 | 0,20 | AP301U  | 11,80    |
| 80058860   | ATG 43L130T30-R010 | 3,0 | 1,30 | 0,10 | AP301U  | 11,80    |
| 80058861   | ATG 43L130T30-R020 | 3,0 | 1,30 | 0,20 | AP301U  | 11,80    |
| 80058862   | ATG 43L140T35-R020 | 3,5 | 1,40 | 0,20 | AP301U  | 11,80    |
| 80058863   | ATG 43L145T35-R020 | 3,5 | 1,45 | 0,20 | AP301U  | 11,80    |
| 80058864   | ATG 43L150T35-R010 | 3,5 | 1,50 | 0,10 | AP301U  | 11,80    |
| 80058865   | ATG 43L150T35-R020 | 3,5 | 1,50 | 0,20 | AP301U  | 11,80    |
| 80058866   | ATG 43L170T35-R020 | 3,5 | 1,70 | 0,20 | AP301U  | 11,80    |
| 80058867   | ATG 43L175T35-R020 | 3,5 | 1,75 | 0,20 | AP301U  | 11,80    |
| 80058868   | ATG 43L185T35-R020 | 3,5 | 1,85 | 0,20 | AP301U  | 11,80    |
| 80058869   | ATG 43L195T35-R020 | 3,5 | 1,95 | 0,20 | AP301U  | 11,80    |
| 80058870   | ATG 43L200T35-R010 | 3,5 | 2,00 | 0,10 | AP301U  | 11,80    |
| 80058871   | ATG 43L200T35-R020 | 3,5 | 2,00 | 0,20 | AP301U  | 11,80    |
| 80058872   | ATG 43L225T35-R020 | 3,5 | 2,25 | 0,20 | AP301U  | 11,80    |
| 80058873   | ATG 43L230T35-R020 | 3,5 | 2,30 | 0,20 | AP301U  | 11,80    |
| 80058874   | ATG 43L250T50-R010 | 5,0 | 2,50 | 0,10 | AP301U  | 11,80    |
| 80058875   | ATG 43L250T50-R030 | 5,0 | 2,50 | 0,30 | AP301U  | 11,80    |
| 80058876   | ATG 43L265T50-R030 | 5,0 | 2,65 | 0,30 | AP301U  | 11,80    |
| 80058877   | ATG 43L280T50-R030 | 5,0 | 2,80 | 0,30 | AP301U  | 11,80    |
| 80058878   | ATG 43L300T50-R010 | 5,0 | 3,00 | 0,10 | AP301U  | 11,80    |
| 80058879   | ATG 43L300T50-R030 | 5,0 | 3,00 | 0,30 | AP301U  | 11,80    |
| 80058880   | ATG 43L325T50-R030 | 5,0 | 3,25 | 0,30 | AP301U  | 11,80    |
| 80058881   | ATG 43L330T50-R030 | 5,0 | 3,30 | 0,30 | AP301U  | 11,80    |
| 80058882   | ATG 43L350T50-R010 | 5,0 | 3,50 | 0,10 | AP301U  | 11,80    |
| 80058883   | ATG 43L350T50-R030 | 5,0 | 3,50 | 0,30 | AP301U  | 11,80    |
| 80058884   | ATG 43L400T50-R010 | 5,0 | 4,00 | 0,10 | AP301U  | 11,80    |
| 80058885   | ATG 43L400T50-R040 | 5,0 | 4,00 | 0,40 | AP301U  | 11,80    |
| 80058886   | ATG 43L430T50-R040 | 5,0 | 4,30 | 0,40 | AP301U  | 11,80    |
| 80058887   | ATG 43L450T50-R040 | 5,0 | 4,50 | 0,40 | AP301U  | 11,80    |
| 80101411   | ATG 32L050T12-R025 | 1,2 | 0,50 | 0,25 | AP301U  | 10,60    |
| 80058898   | ATG 32L150T25-R075 | 2,5 | 1,50 | 0,75 | AP301U  | 10,60    |
| 80058899   | ATG 32L200T25-R100 | 2,5 | 2,00 | 1,00 | AP301U  | 10,60    |
| 80058900   | ATG 32L300T25-R150 | 2,5 | 3,00 | 1,50 | AP301U  | 10,60    |
| 80058901   | ATG 43L100T20-R050 | 2,0 | 1,00 | 0,50 | AP301U  | 14,10    |
| 80058902   | ATG 43L150T35-R075 | 3,5 | 1,50 | 0,75 | AP301U  | 14,10    |
| 80058903   | ATG 43L200T35-R100 | 3,5 | 2,00 | 1,00 | AP301U  | 14,10    |
| 80058904   | ATG 43L250T40-R125 | 5,0 | 2,50 | 1,25 | AP301U  | 14,10    |
| 80058905   | ATG 43L300T40-R150 | 5,0 | 3,00 | 1,50 | AP301U  | 14,10    |
| 80058906   | ATG 43L400T50-R200 | 5,0 | 4,00 | 2,00 | AP301U  | 14,10    |

## ASIGR R Type Small Dia. Internal Grooving Tool

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AP220U

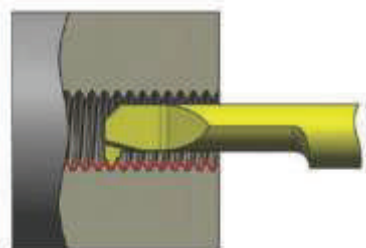


P M K

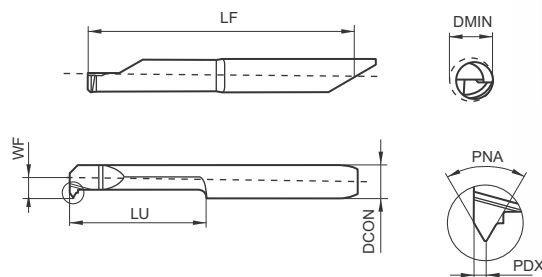
| Cat. number | Product Code      | DCON | RE  | WF  | LF   | DMIN | LU | CDX | price/pc |
|-------------|-------------------|------|-----|-----|------|------|----|-----|----------|
| 80090683    | ASIGR 04R100-4215 | 4    | 1   | 2   | 32.3 | 4.2  | 15 | 0.8 | 14,20    |
| 80090684    | ASIGR 05R100-5220 | 5    | 1   | 2.5 | 42.3 | 5.2  | 20 | 1.0 | 16,40    |
| 80090685    | ASIGR 05R150-5220 | 5    | 1.5 | 2.5 | 42.3 | 5.2  | 20 | 1.0 | 16,40    |
| 80090686    | ASIGR 05R200-5220 | 5    | 2   | 2.5 | 42.3 | 5.2  | 20 | 1.0 | 16,40    |
| 80090688    | ASIGR 06R150-6225 | 6    | 1.5 | 3   | 47.3 | 6.2  | 25 | 1.8 | 19,10    |

## ASITR V Type Small Dia. Internal 60° Partial Profile Threading Tool

ACHTECK



AP220U

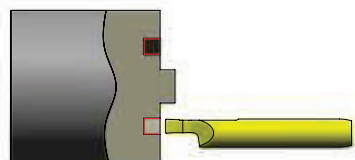


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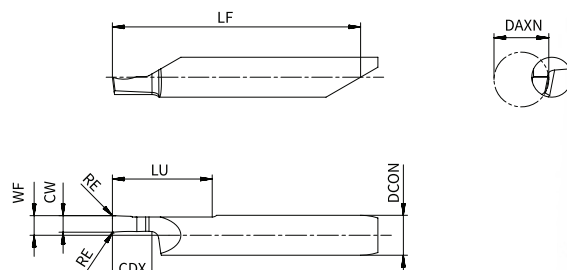
| Cat. number | Product Code      | DCON | PDX | PNA | WF  | LF   | P        | DMIN | LU | price/pc |
|-------------|-------------------|------|-----|-----|-----|------|----------|------|----|----------|
| 80090849    | ASITR 04V050-4215 | 4    | 0.4 | 60° | 2   | 32.7 | 0.5-0.7  | 4.2  | 15 | 14,20    |
| 80090850    | ASITR 05V050-5215 | 5    | 0.4 | 60° | 2.5 | 37.7 | 0.5-0.75 | 5.2  | 15 | 15,20    |
| 80090851    | ASITR 05V070-5115 | 5    | 0.5 | 60° | 2.4 | 37.8 | 0.7-1    | 5.1  | 15 | 15,20    |
| 80090852    | ASITR 05V100-4815 | 5    | 0.6 | 60° | 2.3 | 37.9 | 1-1.25   | 4.8  | 15 | 15,20    |
| 80090853    | ASITR 06V100-6215 | 6    | 0.6 | 60° | 3   | 37.9 | 1-1.25   | 6.2  | 15 | 17,40    |
| 80090854    | ASITR 06V125-6215 | 6    | 0.8 | 60° | 3   | 38.1 | 1.25-1.5 | 6.2  | 15 | 17,40    |
| 80090855    | ASITR 06V150-6215 | 6    | 1.0 | 60° | 3   | 38.3 | 1.5-1.75 | 6.2  | 15 | 17,40    |

## ASIFR B Type Small Dia. Internal Face Grooving tool (Outward Deviation)

ACHTECK



AP220U



P M K

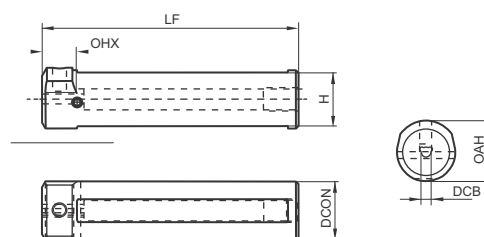
| Cat. number | Product Code      | DCON | CW  | WF | RE   | LF   | DAXN | LU | CDX | price/pc |
|-------------|-------------------|------|-----|----|------|------|------|----|-----|----------|
| 80090829    | ASIFR 06B150-6215 | 6    | 1.5 | 3  | 0.15 | 37.3 | 6.2  | 15 | 3   | 19,10    |
| 80090830    | ASIFR 06B200-6215 | 6    | 2   | 3  | 0.15 | 37.3 | 6.2  | 15 | 4   | 19,10    |
| 80090831    | ASIFR 06B250-6215 | 6    | 2.5 | 3  | 0.15 | 37.3 | 6.2  | 15 | 5   | 19,10    |
| 80090832    | ASIFR 06B300-6215 | 6    | 3   | 3  | 0.15 | 37.3 | 6.2  | 15 | 6   | 19,10    |

## Product holder

ACHTECK

AP220U

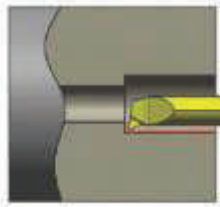
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price/PC



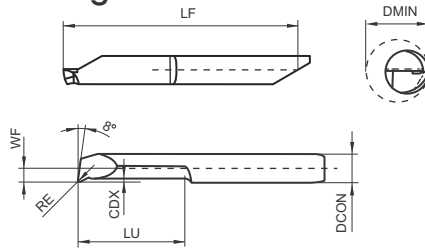
| Cat. number | Code        | DCB | DCON | LF | H  | price/pc |
|-------------|-------------|-----|------|----|----|----------|
| 80091802    | ASI 0012-04 | 4   | 12   | 70 | 10 | 66,00    |
| 80091803    | ASI 0012-05 | 5   | 12   | 70 | 10 | 66,00    |
| 80091435    | ASI 0012-06 | 6   | 12   | 70 | 10 | 66,00    |
| 80087365    | ASI 0016-04 | 4   | 16   | 75 | 14 | 66,00    |
| 80088303    | ASI 0016-05 | 5   | 16   | 75 | 14 | 66,00    |
| 80091804    | ASI 0016-06 | 6   | 16   | 75 | 14 | 66,00    |
| 80087353    | ASI 0020-04 | 4   | 20   | 90 | 18 | 77,00    |
| 80091806    | ASI 0020-05 | 5   | 20   | 90 | 18 | 77,00    |
| 80091807    | ASI 0020-06 | 6   | 20   | 90 | 18 | 77,00    |

## ASIBR T Type Small Dia. Boring Tool

ACHTECK



AP220U

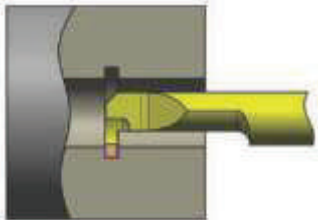


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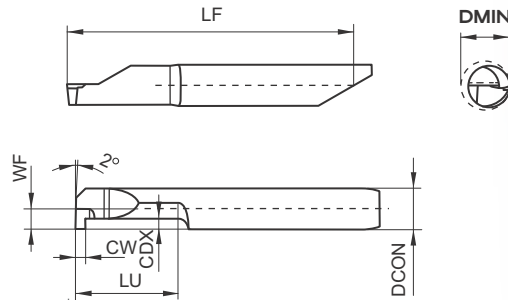
| Cat. number | Product Code      | DCON | RE   | WF  | LF   | DMIN | LU | CDX | price/pc |
|-------------|-------------------|------|------|-----|------|------|----|-----|----------|
| 80090428    | ASIBR 04T010-1006 | 4    | 0.1  | 0.5 | 27.3 | 1    | 6  | 0.1 | 14,80    |
| 80090432    | ASIBR 04T010-1709 | 4    | 0.1  | 0.7 | 27.3 | 1.7  | 9  | 0.2 | 14,80    |
| 80090436    | ASIBR 04T010-2209 | 4    | 0.1  | 1   | 27.3 | 2.2  | 9  | 0.2 | 14,80    |
| 80090437    | ASIBR 04T010-2213 | 4    | 0.1  | 1   | 32.3 | 2.2  | 13 | 0.2 | 14,80    |
| 80090441    | ASIBR 04T015-2710 | 4    | 0.15 | 1.2 | 27.3 | 2.7  | 10 | 0.2 | 14,80    |
| 80090442    | ASIBR 04T015-2715 | 4    | 0.15 | 1.2 | 32.3 | 2.7  | 15 | 0.2 | 14,80    |
| 80090446    | ASIBR 04T015-3210 | 4    | 0.15 | 1.5 | 27.3 | 3.2  | 10 | 0.2 | 14,20    |
| 80090447    | ASIBR 04T015-3215 | 4    | 0.15 | 1.5 | 32.3 | 3.2  | 15 | 0.2 | 14,80    |
| 80090448    | ASIBR 04T015-3220 | 4    | 0.15 | 1.5 | 37.3 | 3.2  | 20 | 0.2 | 14,80    |
| 80090453    | ASIBR 04T015-4210 | 4    | 0.15 | 2   | 27.3 | 4.2  | 10 | 0.3 | 14,20    |
| 80090454    | ASIBR 04T015-4215 | 4    | 0.15 | 2   | 32.3 | 4.2  | 15 | 0.3 | 14,20    |
| 80090455    | ASIBR 04T015-4220 | 4    | 0.15 | 2   | 37.3 | 4.2  | 20 | 0.3 | 14,20    |
| 80090456    | ASIBR 04T015-4225 | 4    | 0.15 | 2   | 42.3 | 4.2  | 25 | 0.3 | 14,80    |
| 80090459    | ASIBR 05T020-5210 | 5    | 0.2  | 2.5 | 32.3 | 5.2  | 10 | 0.5 | 15,20    |
| 80090460    | ASIBR 05T020-5220 | 5    | 0.2  | 2.5 | 42.3 | 5.2  | 20 | 0.5 | 16,40    |
| 80090461    | ASIBR 05T020-5225 | 5    | 0.2  | 2.5 | 47.3 | 5.2  | 25 | 0.5 | 17,90    |
| 80090462    | ASIBR 05T020-5230 | 5    | 0.2  | 2.5 | 52.3 | 5.2  | 30 | 0.5 | 17,90    |
| 80090463    | ASIBR 05T020-5235 | 5    | 0.2  | 2.5 | 57.3 | 5.2  | 35 | 0.5 | 19,60    |
| 80090464    | ASIBR 05T020-5240 | 5    | 0.2  | 2.5 | 62.3 | 5.2  | 40 | 0.5 | 20,10    |
| 80090466    | ASIBR 06T020-6215 | 6    | 0.2  | 3   | 37.3 | 6.2  | 15 | 0.5 | 17,40    |
| 80090467    | ASIBR 06T020-6220 | 6    | 0.2  | 3   | 42.3 | 6.2  | 20 | 0.5 | 19,10    |
| 80090470    | ASIBR 06T020-6235 | 6    | 0.2  | 3   | 57.3 | 6.2  | 35 | 0.5 | 22,90    |
| 80090471    | ASIBR 06T020-6240 | 6    | 0.2  | 3   | 62.3 | 6.2  | 40 | 0.5 | 25,00    |

## ASIGR S Type Small Dia. Internal Grooving Tool

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AP220U

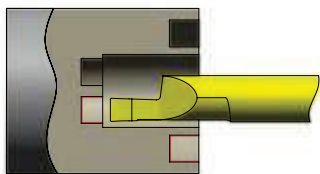


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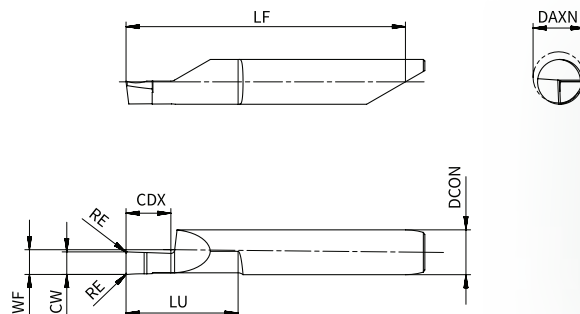
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|-------------|-------------------|------|-----|-----|------|------|----|-----|----------|
| 80090591    | ASIGR 04S050-2012 | 4    | 0.5 | 2   | 29.3 | 2    | 12 | 0.4 | 14,80    |
| 80090595    | ASIGR 04S100-4210 | 4    | 1.0 | 2   | 27.3 | 4.2  | 10 | 0.8 | 14,20    |
| 80090596    | ASIGR 04S100-4215 | 4    | 1.0 | 2   | 32.3 | 4.2  | 15 | 0.8 | 14,20    |
| 80090597    | ASIGR 04S100-4220 | 4    | 1.0 | 2   | 37.3 | 4.2  | 20 | 0.8 | 14,20    |
| 80090599    | ASIGR 05S100-5215 | 5    | 1.0 | 2.5 | 37.3 | 5.2  | 15 | 1.0 | 15,20    |
| 80090601    | ASIGR 05S100-5225 | 5    | 1.0 | 2.5 | 47.3 | 5.2  | 25 | 1.0 | 17,90    |
| 80090603    | ASIGR 05S100-5235 | 5    | 1.0 | 2.5 | 57.3 | 5.2  | 35 | 1.0 | 19,60    |
| 80090605    | ASIGR 05S150-5215 | 5    | 1.5 | 2.5 | 37.3 | 5.2  | 15 | 1.0 | 15,20    |
| 80090607    | ASIGR 05S150-5225 | 5    | 1.5 | 2.5 | 47.3 | 5.2  | 25 | 1.0 | 17,90    |
| 80090611    | ASIGR 05S200-5215 | 5    | 2.0 | 2.5 | 37.3 | 5.2  | 15 | 1.0 | 15,20    |
| 80090612    | ASIGR 05S200-5220 | 5    | 2.0 | 2.5 | 42.3 | 5.2  | 20 | 1.0 | 16,40    |
| 80090613    | ASIGR 05S200-5225 | 5    | 2.0 | 2.5 | 47.3 | 5.2  | 25 | 1.0 | 17,90    |
| 80090616    | ASIGR 06S100-6215 | 6    | 1.0 | 3   | 37.3 | 6.2  | 15 | 1.8 | 17,40    |
| 80090618    | ASIGR 06S100-6225 | 6    | 1.0 | 3   | 47.3 | 6.2  | 25 | 1.8 | 19,10    |
| 80090619    | ASIGR 06S100-6230 | 6    | 1.0 | 3   | 52.3 | 6.2  | 30 | 1.8 | 20,90    |
| 80090621    | ASIGR 06S100-6240 | 6    | 1.0 | 3   | 62.3 | 6.2  | 40 | 1.8 | 25,00    |
| 80090623    | ASIGR 06S150-6215 | 6    | 1.5 | 3   | 37.3 | 6.2  | 15 | 1.8 | 17,40    |
| 80090625    | ASIGR 06S150-6225 | 6    | 1.5 | 3   | 47.3 | 6.2  | 25 | 1.8 | 19,10    |
| 80090627    | ASIGR 06S150-6235 | 6    | 1.5 | 3   | 57.3 | 6.2  | 35 | 1.8 | 22,90    |
| 80090629    | ASIGR 06S200-6215 | 6    | 2.0 | 3   | 37.3 | 6.2  | 15 | 1.8 | 17,40    |
| 80090631    | ASIGR 06S200-6225 | 6    | 2.0 | 3   | 47.3 | 6.2  | 25 | 1.8 | 19,10    |
| 80090632    | ASIGR 06S200-6230 | 6    | 2.0 | 3   | 52.3 | 6.2  | 30 | 1.8 | 16,70    |

## ASIFR A Type Small Dia. Internal Face Grooving (Inward Deviation)

ACHTECK



AP220U



P M K

| Cat. number | Product Code      | DCON | CW  | WF | RE   | LF   | DAXN | LU | CDX | price/pc |
|-------------|-------------------|------|-----|----|------|------|------|----|-----|----------|
| 80090817    | ASIFR 06A100-6215 | 6    | 1   | 3  | 0.15 | 37.3 | 6.2  | 15 | 2   | 19,10    |
| 80090818    | ASIFR 06A150-6215 | 6    | 1.5 | 3  | 0.15 | 37.3 | 6.2  | 15 | 3   | 19,10    |
| 80090819    | ASIFR 06A200-6215 | 6    | 2   | 3  | 0.15 | 37.3 | 6.2  | 15 | 4   | 19,10    |
| 80090820    | ASIFR 06A250-6215 | 6    | 2.5 | 3  | 0.15 | 37.3 | 6.2  | 15 | 5   | 19,10    |

# ACHTECK

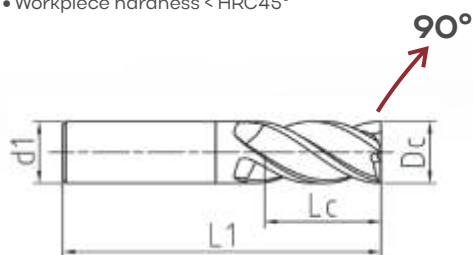
Solid Carbide end mills **M200**

ACHTECK ECO line of solid carbide end mills offers extremely high performance, economical with complete product range

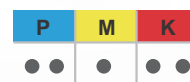


## Solid Carbide end Mill M200

- Eco line
- End mill with 4 cutting edges
- Solid carbide end mill
- Workpiece hardness < HRC45°



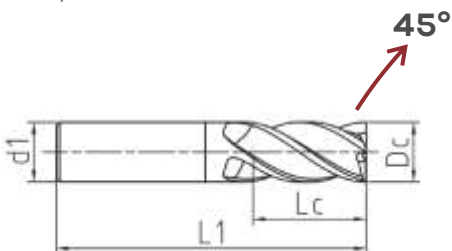
od: **5,20**  
price/PC



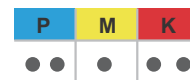
| Cat. num. | Product code | Dc (h9)<br>mm | d1<br>mm | LC<br>mm | L1<br>mm | Z<br>mm | price/PC |
|-----------|--------------|---------------|----------|----------|----------|---------|----------|
| 80080122  | M200-4ES-050 | 5             | 6        | 13       | 50       | 4       | 5,20     |
| 80080123  | M200-4ES-060 | 6             | 6        | 16       | 50       | 4       | 5,20     |
| 80080125  | M200-4ES-080 | 8             | 8        | 20       | 60       | 4       | 9,50     |
| 80080127  | M200-4ES-100 | 10            | 10       | 25       | 75       | 4       | 14,60    |
| 80080129  | M200-4ES-120 | 12            | 12       | 30       | 75       | 4       | 21,00    |

## Solid Carbide end Mill M200

- Eco line
- End mill with 4 cutting edges and chamfer
- Solid carbide end mill
- Workpiece hardness < HRC45°



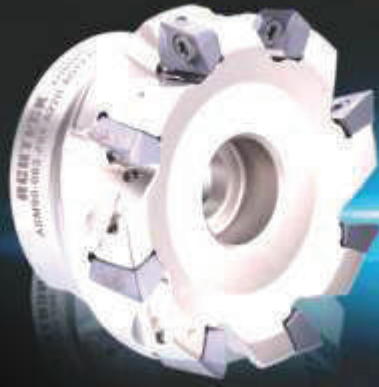
od: **5,90**  
price/PC



| Cat. num. | Product code | Dc (h9)<br>mm | d1<br>mm | Lc<br>mm | L1<br>mm | Z<br>mm | price/PC |
|-----------|--------------|---------------|----------|----------|----------|---------|----------|
| 80080135  | M200-4CS-050 | 5             | 6        | 13       | 50       | 4       | 5,90     |
| 80080136  | M200-4CS-060 | 6             | 6        | 16       | 50       | 4       | 5,90     |
| 80080137  | M200-4CS-080 | 8             | 8        | 20       | 60       | 4       | 9,99     |
| 80080138  | M200-4CS-100 | 10            | 10       | 25       | 75       | 4       | 15,99    |
| 80080139  | M200-4CS-120 | 12            | 12       | 30       | 75       | 4       | 21,99    |

## ASM90

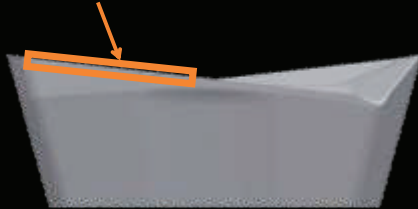
From Ø10 upwards!



Precise approach angle of 90° and large positive rake angle

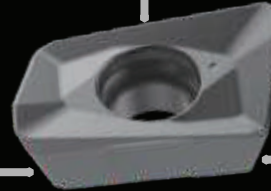
Optimized geometry improves performance

Clean cut reduces cutting force and risk of vibrations



Special wiper design for superior surface finish

Spiral side cutting edge ensures a smooth cut



Special edge preparation for extended tool life

Reduced cutting force and thus lower risk of vibrations

### SET: 90° Approach angle square shoulder milling cutter + 20 AOMT inserts

ACHTECK



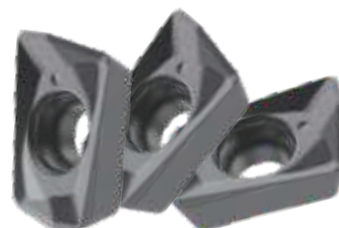
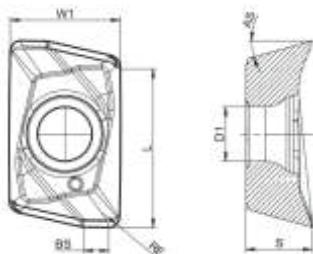
20x AOMT...  
INSERTS



from: **119,00**  
price/SET

| Set number | Cut. numb. of the milling cutter | Product code                   | DC | DCON | LF  | LH | APMX | Z | inserts     | Numb. of inserts in the set | price/SET |
|------------|----------------------------------|--------------------------------|----|------|-----|----|------|---|-------------|-----------------------------|-----------|
| 99001483   | 80119809                         | ASM90-010-Z02-C10R-A006-L060-C | 10 | 10   | 60  | 20 | 5    | 2 | AOMT 0602.. | 20                          | 119,00    |
| 99001484   | 80085944                         | ASM90-010-Z02-C10R-A006-L100-C | 10 | 10   | 100 | 35 | 5    | 2 | AOMT 0602.. | 20                          | 125,00    |
| 99001485   | 80119999                         | ASM90-012-Z03-C12R-A006-L070-C | 12 | 12   | 70  | 20 | 5    | 3 | AOMT 0602.. | 20                          | 129,00    |
| 99001486   | 80087911                         | ASM90-012-Z03-C12R-A006-L120-C | 12 | 12   | 120 | 35 | 5    | 3 | AOMT 0602.. | 20                          | 135,00    |
| 99001487   | 80120732                         | ASM90-014-Z03-C16R-A006-L100-C | 14 | 14   | 100 | 35 | 5    | 3 | AOMT 0602.. | 20                          | 133,00    |

### Insert selection



ACHTECK

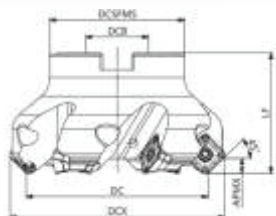
| Cat. num. | Product code      | cutting edges | L   | W1  | S   | RE  | BS  | D1  | grade  | material |
|-----------|-------------------|---------------|-----|-----|-----|-----|-----|-----|--------|----------|
| 80082183  | AOMT 060204ER-MM3 | 2             | 5.8 | 4.1 | 2.4 | 0.4 | 0.9 | 2.0 | AP251U | P        |
| 80082182  | AOMT 060208ER-MM3 | 2             | 5.8 | 4.1 | 2.4 | 0.8 | 0.5 | 2.0 | AP403M | M        |

## AFM45-SE12

### Face Milling Cutter



SET: 45° Approach angle face milling cutter + 20 SEMT inserts



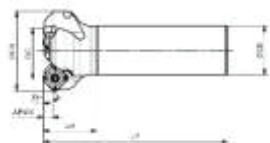
99001-  
from: **189,00**  
price/SET

**20x SEMT...**  
INSERTS

(SEHT for aluminum available as an option with surcharge.)

| Set number | Cat. numb. of the milling cutter | Product code                | price/SET | DCX | DC  | DCB | DCSFMS | LF | APMX | Z  | + 20 inserts |
|------------|----------------------------------|-----------------------------|-----------|-----|-----|-----|--------|----|------|----|--------------|
| 99001490   | 80088753                         | AFM45-050-Z04-A22R-SE12-C-S | 189,00    | 63  | 50  | 22  | 42     | 40 | 6    | 4  | SEMT 12T3.   |
| 99001491   | 80088745                         | AFM45-063-Z04-A22R-SE12-C-S | 193,00    | 76  | 63  | 22  | 47     | 40 | 6    | 4  | SEMT 12T3.   |
| 99001492   | 80088747                         | AFM45-063-Z05-A22R-SE12-C-S | 199,00    | 76  | 63  | 22  | 47     | 40 | 6    | 5  | SEMT 12T3.   |
| 99001493   | 80088748                         | AFM45-080-Z04-A27R-SE12-C-S | 199,00    | 93  | 80  | 27  | 58     | 50 | 6    | 4  | SEMT 12T3.   |
| 99001494   | 80088749                         | AFM45-080-Z06-A27R-SE12-C-S | 219,00    | 93  | 80  | 27  | 58     | 50 | 6    | 6  | SEMT 12T3.   |
| 99001495   | 80088750                         | AFM45-100-Z05-A32R-SE12-C-S | 219,00    | 113 | 100 | 32  | 66     | 50 | 6    | 5  | SEMT 12T3.   |
| 99001496   | 80088751                         | AFM45-100-Z07-A32R-SE12-C-S | 239,00    | 113 | 100 | 32  | 66     | 50 | 6    | 7  | SEMT 12T3.   |
| 99001497   | 80088752                         | AFM45-125-Z06-A40R-SE12-C-S | 239,00    | 138 | 125 | 40  | 85     | 63 | 6    | 6  | SEMT 12T3.   |
| 99001498   | 80087910                         | AFM45-125-Z08-A40R-SE12-C-S | 269,00    | 138 | 125 | 40  | 85     | 63 | 6    | 8  | SEMT 12T3.   |
| 99001499   | 80088947                         | AFM45-160-Z07-A40R-SE12-S   | 289,00    | 173 | 160 | 40  | 110    | 63 | 6    | 7  | SEMT 12T3.   |
| 99001500   | 80087909                         | AFM45-160-Z10-A40R-SE12-S   | 330,00    | 173 | 160 | 40  | 110    | 63 | 6    | 10 | SEMT 12T3.   |
| 99001501   | 80088948                         | AFM45-200-Z08-A60R-SE12-S   | 389,00    | 213 | 200 | 60  | 140    | 63 | 6    | 8  | SEMT 12T3.   |
| 99001502   | 80087907                         | AFM45-200-Z12-A60R-SE12-S   | 440,00    | 213 | 200 | 60  | 140    | 63 | 6    | 12 | SEMT 12T3.   |
| 99001503   | 80088949                         | AFM45-250-Z10-A60R-SE12-S   | 499,00    | 263 | 250 | 60  | 160    | 63 | 6    | 10 | SEMT 12T3.   |
| 99001504   | 80087908                         | AFM45-250-Z14-A60R-SE12-S   | 550,00    | 263 | 250 | 60  | 160    | 63 | 6    | 14 | SEMT 12T3.   |

SET: 45° Approach angle face milling cutter + 20 SEMT inserts



99001-  
from: **189,00**  
price/SET

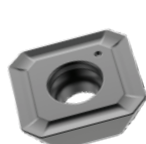
**20x SEMT...**  
INSERTS

(SEHT for aluminum available as an option with surcharge.)

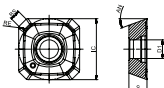
| Set number | Cat. numb. of the milling cutter | Product code                     | price/SET | DCX | DC | DCB | LF  | LH | APMX | Z | + 20 inserts |
|------------|----------------------------------|----------------------------------|-----------|-----|----|-----|-----|----|------|---|--------------|
| 99001505   | 80088753                         | AFM45-032-Z03-C32R-SE12-L120-C-S | 189,00    | 45  | 32 | 32  | 120 | 35 | 6    | 3 | SEMT 12T3.   |
| 99001506   | 80088745                         | AFM40-040-Z03-C32R-SE12-L120-C-S | 195,00    | 53  | 40 | 32  | 120 | 35 | 6    | 3 | SEMT 12T3.   |

#### SEMT insert selection

**P**



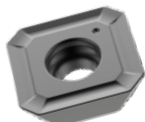
80088344  
**5,90**  
price/PC



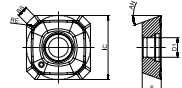
SEMT 12T3AEEN-MM4 AP251P

#### SEMT insert selection

**M**



80101305  
**5,90**  
price/PC



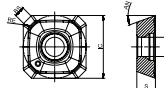
SEMT 12T3AEEN-MM4 AP351M

#### SEHT insert selection

**N**



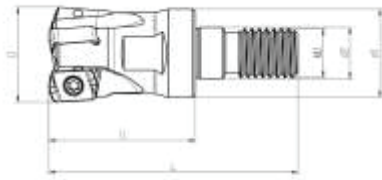
80053921  
**8,90**  
price/PC



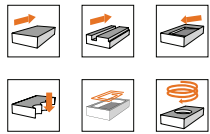
SEHT 12T3AEEN-FM2 AW100K

## SET: 20° Approaching angle high feed milling cutter + 20 LNMX inserts

**ACHTECK**



9900138-  
from: **149,00**  
price/SET



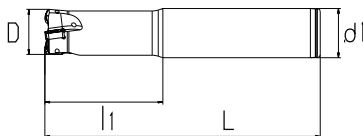
**20° LNMX...**  
INSERTS (Select the insert grade below!)



| Set number | Cat. numb. of the milling cutter | Product code              | D  | d1   | d2   | MD  | L  | l1 | ap max | Z | inserts     | Numb. of inserts in the set | price/SET |
|------------|----------------------------------|---------------------------|----|------|------|-----|----|----|--------|---|-------------|-----------------------------|-----------|
| 99001383   | 00037580                         | AHM20-016-Z02-M08R-LN06-C | 16 | 14.5 | 8.5  | M08 | 42 | 25 | 0,65   | 2 | LNMX.0604.. | 20                          | 149,00    |
| 99001384   | 00037581                         | AHM20-017-Z02-M08R-LN06-C | 17 | 14.5 | 8.5  | M08 | 42 | 25 | 0,65   | 2 | LNMX.0604.. | 20                          | 150,00    |
| 99001385   | 00037582                         | AHM20-020-Z03-M10R-LN06-C | 20 | 18   | 10.5 | M10 | 51 | 30 | 0,65   | 3 | LNMX.0604.. | 20                          | 168,00    |
| 99001386   | 00037583                         | AHM20-021-Z03-M10R-LN06-C | 21 | 18   | 10.5 | M10 | 51 | 30 | 0,65   | 3 | LNMX.0604.. | 20                          | 168,00    |
| 99001387   | 00037584                         | AHM20-025-Z04-M12R-LN06-C | 25 | 23   | 12.5 | M12 | 59 | 35 | 0,65   | 4 | LNMX.0604.. | 20                          | 188,00    |
| 99001388   | 00037585                         | AHM20-026-Z04-M12R-LN06-C | 26 | 23   | 12.5 | M12 | 59 | 35 | 0,65   | 4 | LNMX.0604.. | 20                          | 185,00    |

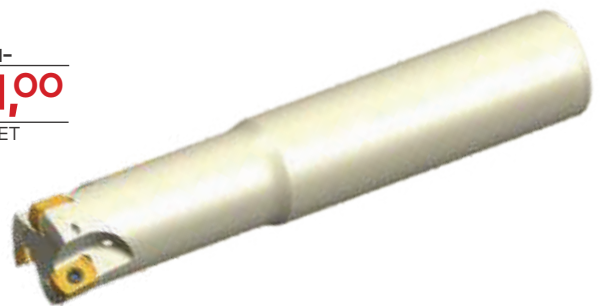
## SET: Shank-type milling cutter with cylindrical mounting + 20 LNMX inserts

**ACHTECK**



99001-  
from: **161,00**  
price/SET

**20° LNMX...**  
INSERTS (Select the insert grade below!)

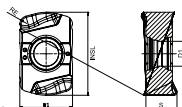


| Set number | Cat. numb. of the milling cutter | Product code                   | D  | d1 | L   | l1 | ap max | Z | inserts     | Numb. of inserts in the set | price/SET |
|------------|----------------------------------|--------------------------------|----|----|-----|----|--------|---|-------------|-----------------------------|-----------|
| 99001393   | 00037590                         | AHM20-016-Z02-C16R-LN06-L100-C | 16 | 16 | 100 | 30 | 0,65   | 2 | LNMX.0604.. | 20                          | 161,00    |
| 99001394   | 00037591                         | AHM20-017-Z02-C16R-LN06-L150-C | 17 | 16 | 150 | 21 | 0,65   | 2 | LNMX.0604.. | 20                          | 170,00    |
| 99001395   | 00037592                         | AHM20-020-Z03-C20R-LN06-L130-C | 20 | 20 | 130 | 30 | 0,65   | 3 | LNMX.0604.. | 20                          | 184,00    |
| 99001396   | 00037593                         | AHM20-021-Z03-C20R-LN06-L160-C | 21 | 20 | 160 | 26 | 0,65   | 3 | LNMX.0604.. | 20                          | 189,00    |
| 99001397   | 00037594                         | AHM20-025-Z03-C25R-LN06-L140-C | 25 | 25 | 140 | 56 | 0,65   | 3 | LNMX.0604.. | 20                          | 189,00    |
| 99001398   | 00037595                         | AHM20-026-Z03-C25R-LN06-L180-C | 26 | 25 | 180 | 31 | 0,65   | 3 | LNMX.0604.. | 20                          | 210,00    |
| 99001399   | 00037596                         | AHM20-032-Z04-C32R-LN06-L150-C | 32 | 32 | 150 | 66 | 0,65   | 4 | LNMX.0604.. | 20                          | 209,00    |
| 99001400   | 00037597                         | AHM20-033-Z04-C32R-LN06-L200-C | 33 | 32 | 200 | 31 | 0,65   | 4 | LNMX.0604.. | 20                          | 219,00    |
| 99001401   | 00037598                         | AHM20-035-Z05-C32R-LN06-L200-C | 35 | 32 | 200 | 31 | 0,65   | 5 | LNMX.0604.. | 20                          | 239,00    |

### LNMX insert selection

**P**

AP351U



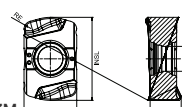
LNMX 060410ER-MM4 AP351U

| Ins1 | W1   | S   | RE  | D1 |
|------|------|-----|-----|----|
| 10   | 6.35 | 3,6 | 1.0 | 3  |

### LNMX insert selection

**M**

AP403M



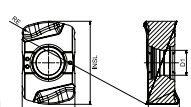
LNMX 060410ER-MM4N AP403M

| Ins1 | W1   | S   | RE  | D1 |
|------|------|-----|-----|----|
| 10   | 6.35 | 3,6 | 1.0 | 3  |

### LNMX insert selection

**H**

AP151H

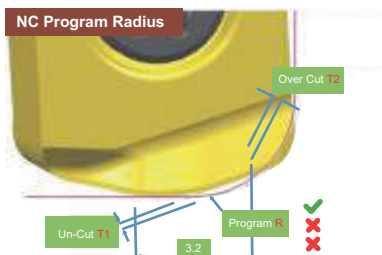


LNMX 060410ER-MM4N AP151H

| Ins1 | W1   | S   | RE  | D1 |
|------|------|-----|-----|----|
| 10   | 6.35 | 3,6 | 1.0 | 3  |

## Technical data for the NC program

### NC Program Radius



| Program R | Un-Cut T1 | Over-Cut T2 |
|-----------|-----------|-------------|
| R1.5      | 0.43      | 0           |
| R2.0      | 0.29      | 0.06        |
| R2.5      | 0.15      | 0.24        |

Note select R1.5 as program R, without over-cut.



### Technical data:



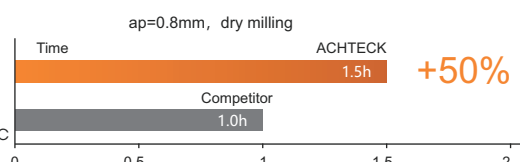
### Example

Workpiece: mold  
Material: alloy steel  
Hardness: HB280

Inserts: LNMX 060410R-MM4 AP301U

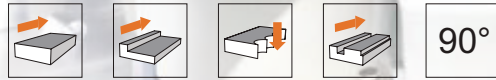
Milling cutter: AHM20-020-Z03-C20R-LN06-L130-C

Cutting parameters: Vc=188m/min, fz=0.56mm/z

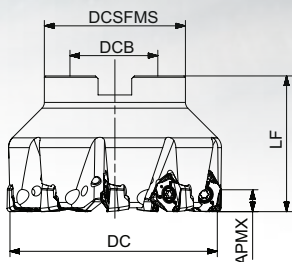


**ACHTECK**

## 90° approach angle square shoulder milling cutter

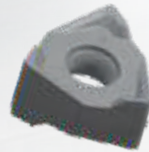


SET: Milling cutter + 20 WNGU inserts



from: **299,-**  
price/SET

**20x WNGU...**  
INSERTS



**ACHTECK**

True 90° shoulder  
Nickel plating for maximum tool life and chip wash protection

Big chip flute

Positive helix rake angle with double sided insert

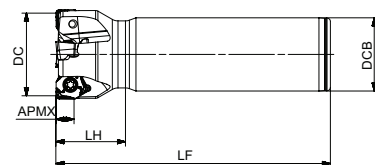


Apmax=0.27 in

| Set num. | Cat. num. of the milling cutter | Product code              | price/SET | DC  | DCB | LF | DCSFMS | APMX | Z  | inserts     | Numb. of inserts in the set |
|----------|---------------------------------|---------------------------|-----------|-----|-----|----|--------|------|----|-------------|-----------------------------|
| 99001507 | 00034032                        | ASM90-050-Z04-A22R-WN08-C | 299,00    | 50  | 22  | 40 | 42     | 7    | 4  | WNGU.0806.. | 20                          |
| 99001508 | 00034033                        | ASM90-050-Z05-A22R-WN08-C | 320,00    | 50  | 22  | 40 | 42     | 7    | 5  | WNGU.0806.. | 20                          |
| 99001509 | 00039870                        | ASM90-063-Z04-A22R-WN08-C | 305,00    | 63  | 22  | 40 | 48     | 7    | 4  | WNGU.0806.. | 20                          |
| 99001510 | 00034034                        | ASM90-063-Z06-A22R-WN08-C | 340,00    | 63  | 22  | 40 | 48     | 7    | 6  | WNGU.0806.. | 20                          |
| 99001511 | 00034035                        | ASM90-063-Z07-A22R-WN08-C | 359,00    | 63  | 22  | 40 | 48     | 7    | 7  | WNGU.0806.. | 20                          |
| 99001512 | 00039872                        | ASM90-080-Z05-A27R-WN08-C | 335,00    | 80  | 27  | 50 | 62     | 7    | 5  | WNGU.0806.. | 20                          |
| 99001513 | 00034036                        | ASM90-080-Z07-A27R-WN08-C | 369,00    | 80  | 27  | 50 | 62     | 7    | 7  | WNGU.0806.. | 20                          |
| 99001514 | 00034037                        | ASM90-080-Z09-A27R-WN08-C | 399,00    | 80  | 27  | 50 | 62     | 7    | 9  | WNGU.0806.. | 20                          |
| 99001515 | 00039874                        | ASM90-100-Z06-A32R-WN08-C | 355,00    | 100 | 32  | 50 | 80     | 7    | 6  | WNGU.0806.. | 20                          |
| 99001516 | 00034038                        | ASM90-100-Z08-A32R-WN08-C | 389,00    | 100 | 32  | 50 | 80     | 7    | 8  | WNGU.0806.. | 20                          |
| 99001517 | 00034039                        | ASM90-100-Z11-A32R-WN08-C | 439,00    | 100 | 32  | 50 | 80     | 7    | 11 | WNGU.0806.. | 20                          |
| 99001518 | 00039876                        | ASM90-125-Z07-A40R-WN08-C | 389,00    | 125 | 40  | 63 | 87     | 7    | 7  | WNGU.0806.. | 20                          |
| 99001519 | 00034040                        | ASM90-125-Z11-A40R-WN08-C | 450,00    | 125 | 40  | 63 | 87     | 7    | 11 | WNGU.0806.. | 20                          |
| 99001520 | 00034041                        | ASM90-125-Z13-A40R-WN08-C | 530,00    | 125 | 40  | 63 | 87     | 7    | 13 | WNGU.0806.. | 20                          |
| 99001521 | 80008987                        | ASM90-160-Z08-A40R-WN08   | 399,00    | 160 | 40  | 63 | 107    | 7    | 8  | WNGU.0806.. | 20                          |
| 99001522 | 00034042                        | ASM90-160-Z12-A40R-WN08   | 450,00    | 160 | 40  | 63 | 107    | 7    | 12 | WNGU.0806.. | 20                          |
| 99001523 | 00038927                        | ASM90-200-Z14-A60R-WN08   | 555,00    | 200 | 60  | 63 | 140    | 7    | 14 | WNGU.0806.. | 20                          |
| 99001524 | 80043748                        | ASM90-250-Z16-A60R-WN08   | 569,00    | 250 | 60  | 63 | 180    | 7    | 16 | WNGU.0806.. | 20                          |

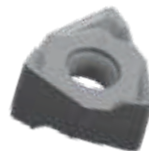
SET: Milling cutter + 20 WNGU inserts

**ACHTECK**



from: **299,00**  
price/SET

**20x WNGU...**  
INSERTS



| Set num. | Cat. num. of the milling cutter | Product code              | price/SET | DC | DCB | LF  | LH | APMX | Z | inserts     | Numb. of inserts in the set |
|----------|---------------------------------|---------------------------|-----------|----|-----|-----|----|------|---|-------------|-----------------------------|
| 99001525 | 00024399                        | ASM90-040-Z03-W32R-WN08-C | 299,00    | 40 | 32  | 120 | 31 | 7    | 3 | WNGU.0806.. | 20                          |
| 99001526 | 00034031                        | ASM90-040-Z04-W32R-WN08-C | 320,00    | 40 | 32  | 120 | 31 | 7    | 4 | WNGU.0806.. | 20                          |

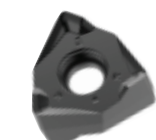
WNGU insert selection



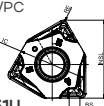
WNGU insert selection



Comparison:



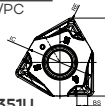
00034905  
**1090**  
price/PC



WNGU 080608R-MM3 AP351U



00033751  
**1090**  
price/PC

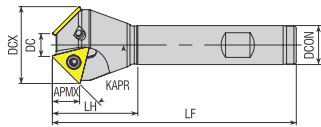
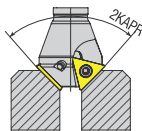


WNGU 080608R-MM4 AP351U

|     |  |                                                                                                                                                                                                  |
|-----|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MM3 |  | <ul style="list-style-type: none"> <li>Low cutting force, for weak machining condition</li> <li>Sharp geometry</li> <li>For steel, stainless-steel and heat resistant alloy machining</li> </ul> |
| MM4 |  | <ul style="list-style-type: none"> <li>For medium machining condition</li> <li>Universal geometry</li> <li>For machining most materials</li> </ul>                                               |

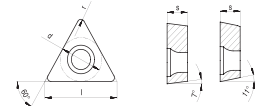
## SET: Chamfer milling + 10 TCMT inserts

- For hole diameters from Ø 8 mm onwards
- Weldon shank



**10x TCMT...**  
INSERTS

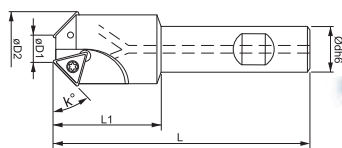
from: **62,00**  
price/SET



| Set number | Product code                   | Cat. num. of the milling chamfer | price/SET | DC | DCON | LF  | KAPR | DCX  | LH | ZEFP | APMX | + 10 inserts |
|------------|--------------------------------|----------------------------------|-----------|----|------|-----|------|------|----|------|------|--------------|
| 99001447   | ACM45-TC11-D8X21.5-W16-L90-Z02 | M.06.05.01.06                    | 62,00     | 8  | 16   | 90  | 45   | 21.5 | 20 | 2    | 6.9  | TCMT 11..    |
| 99001448   | ACM45-TC16-D10X31-W20-L100-Z02 | M.06.05.01.96                    | 79,00     | 10 | 20   | 100 | 45   | 31   | 35 | 2    | 10.8 | TCMT 16..    |

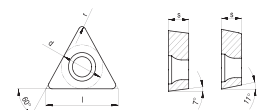
## SET: Chamfer milling cutter with internal cooling + 10 TCMT inserts

- 30°, 45° or 60°
- For bore diameter Ø 1,2mm onwards
- Weldon clamping



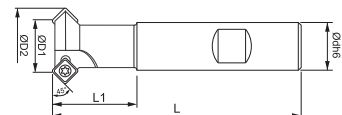
**10x TCMT...**  
INSERTS

from: **80,00**  
price/SET



| Set number | Product code    | price/SET | Ø D1 | Ø D2 | H  | L  | Ø dh6 | K° | Z | + 10 inserts |
|------------|-----------------|-----------|------|------|----|----|-------|----|---|--------------|
| 99000299   | F30TC16032WZ2R  | 119,00    | 6,0  | 32,0 | 39 | 95 | 20    | 30 | 2 | TCMT 16..    |
| 99000300   | F45TC11016WZ1R  | 80,00     | 1,2  | 16,0 | 20 | 70 | 12    | 45 | 1 | TCMT 11..    |
| 99000301   | F45TC11021WZ2R  | 98,00     | 6,0  | 21,0 | 35 | 90 | 20    | 45 | 2 | TCMT 11..    |
| 99000302   | F45TC16325WWZ2R | 129,00    | 10,4 | 32,5 | 39 | 95 | 25    | 45 | 2 | TCMT 16..    |
| 99000303   | F60TC11016WZ1R  | 80,00     | 5,4  | 16,0 | 20 | 70 | 12    | 60 | 1 | TCMT 11..    |
| 99000304   | F60TC11026WWZ2R | 115,00    | 15,8 | 26,0 | 35 | 90 | 20    | 60 | 2 | TCMT 11..    |
| 99000305   | F60TC16035WWZ2R | 130,00    | 20,0 | 35,0 | 39 | 95 | 25    | 60 | 2 | TCMT 16..    |

## SET: Chamfer milling cutter + 10 SCMT inserts



**10x SCMT...**  
INSERTS

from: **98,00**  
price/SET



| Set number | Product code    | price/SET | Ø D1 | Ø D2 | L   | L1 | Ø dh6 | Z | + 10 inserts |
|------------|-----------------|-----------|------|------|-----|----|-------|---|--------------|
| 99001450   | F45SC09012WZ1R  | 98,00     | 12   | 24,8 | 100 | 25 | 20    | 1 | SC.. 09T3    |
| 99001451   | F45SC09016WZ2R  | 108,00    | 16   | 28,5 | 100 | 35 | 16    | 2 | SC.. 09T3    |
| 99001452   | F45SC09030WZ3R  | 125,00    | 30   | 42,8 | 100 | 35 | 25    | 3 | SC.. 09T3    |
| 99001453   | F45SC09012WLZ1R | 115,00    | 12   | 23,7 | 200 | 25 | 20    | 1 | SC.. 09T3    |
| 99001454   | F45SC09016WLZ2R | 126,00    | 16   | 28,8 | 200 | 42 | 20    | 2 | SC.. 09T3    |
| 99001455   | F45SC09030WLZ3R | 145,00    | 30   | 42,3 | 200 | 40 | 255   | 3 | SC.. 09T3    |

## SET: NC drill + inserts

- 90° tip angle
- Insert for non-hardened steels and cast iron
- DIN 1835-B
- For engraving, NC spot drilling, chamfering, face turning

from: **65,00**  
price/SET

**NC drill + 1x inserts**

| Set number | price/SET | Product code   | dimension (mm) |       |    |     |    |     | inserts       |
|------------|-----------|----------------|----------------|-------|----|-----|----|-----|---------------|
|            |           |                | D max          | T max | L1 | L   | D2 | L2  |               |
| 99001479   | 65,00     | MS90-14100-S12 | 14             | 7     | 33 | 100 | 12 | 67  | SKMX11T308-MS |
| 99001480   | 65,00     | MS90-14100-S16 | 14             | 7     | 35 | 100 | 16 | 65  | SKMX11T308-MS |
| 99001481   | 69,00     | MS90-14150-S16 | 14             | 7     | 35 | 150 | 16 | 115 | SKMX11T308-MS |
| 99001482   | 75,00     | MS90-14220-S20 | 14             | 7     | 40 | 220 | 20 | 180 | SKMX11T308-MS |

## Inserts for NC drill

**1x SKMX11T308-MS** **14,90**  
INSERT price/PC

**10x SKMX11T308-MS** **13,90**  
INSERT price/PC



## SET: Torque wrench with bits

### Set includes:

- TPK-H01 - universal T-handle, suitable for torque range 0.6–5.5 Nm
- TPK-H02 - slim, ergonomic handle for precise and efficient tightening and loosening of small screws, suitable for torque range 0.6–2.0 Nm
- Adapters made of carbon steel, HRC 43–48, nickel-plated and equipped with a magnet
- Interchangeable bits, HRC 58–60



## TORX



O-TPK01-TGTX-12K

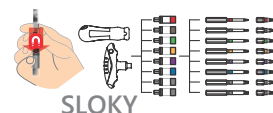
| Holder  | price/SET | size | ADAPTER<br>Nm | kgfcm | bits<br>length 25 mm + 50 mm |
|---------|-----------|------|---------------|-------|------------------------------|
| TPK-H01 | 120,00    | Tx6  | 0,6           | 6,1   | 1 pc + 1 pc                  |
| +       |           | Tx7  | 0,9           | 9,2   | 1 pc + 1 pc                  |
| TPK-H02 |           | Tx8  | 1,2           | 12,0  | 1 pc + 1 pc                  |
|         |           | Tx9  | 1,4           | 14,0  | 1 pc + 1 pc                  |
|         |           | Tx10 | 2,0           | 20,4  | 1 pc + 1 pc                  |
|         |           | TX15 | 3,0           | 30,6  | 1 pc + 1 pc                  |

## TORX PLUS



O-TPK02-TGIP-12K

| Holder  | price/SET | size | ADAPTER<br>Nm | kgfcm | bits<br>length 25 mm + 50 mm |
|---------|-----------|------|---------------|-------|------------------------------|
| TPK-H01 | 128,00    | 6IP  | 0,6           | 6,1   | 1 kos + 1 kos                |
| +       |           | 7IP  | 0,9           | 9,2   | 1 kos + 1 kos                |
| TPK-H02 |           | 8IP  | 1,2           | 12,0  | 1 kos + 1 kos                |
|         |           | 9IP  | 1,4           | 14,0  | 1 kos + 1 kos                |
|         |           | 10IP | 2,0           | 20,4  | 1 kos + 1 kos                |
|         |           | 15IP | 3,0           | 30,6  | 1 kos + 1 kos                |



## 9-piece Angle Hex Key SET with Plastic Holder

- S2 steel
- Powder-coated
- Matte chrome-plated
- Angled
- Long arm with ball end
- Allows screwing at an angle of up to 25°
- Short arm chamfered
- Set contents: SW 1,5–10 mm

2000825110  
**17,90**  
price/SET



TECWERK



## 9-piece Torx Angle Screwdriver SET

- S2 steel
- Powder-coated
- With ball ends
- With color coding
- For screws with internal TORX profile
- Set contents: T9–T45

2000825115  
**22,90**  
price/SET



TECWERK



## Digital caliper

- Measuring range: 0-150 mm
- Depth gauge: flat
- Accuracy:  $\pm 0,01$  mm



from: **89,00**  
price/PC

## Mitutoyo



External measurement



Internal measurement



Step measurement



Depth measurement



T

DIN 862

ABS



Digital

| Cat. num.  | Gauge designation | Range mm | Accuracy mm | price/pc      |
|------------|-------------------|----------|-------------|---------------|
| 301705 150 | 500-181-30        | 0-150    | $\pm 0,01$  | <b>89,00</b>  |
| 301705 200 | 500-182-30        | 0-200    | $\pm 0,01$  | <b>169,00</b> |

## Digital caliper, IP67

- High accuracy and linearity
- Absolute zero setting
- Includes Quadi function
- Protection: IP67
- ABSolute function



500-706-20  
(301800 150)

**135,00**  
price/PC

## Mitutoyo



External measurement



Internal measurement



Step measurement



Depth measurement



## Caliper

- Measuring range: 0-150 mm
- Accuracy:  $\pm 0,05$  mm
- Locking screw on top



300611 150  
(530-101)

**29,90**  
price/PC

## Mitutoyo

## Mitutoyo

### Portable surface roughness tester, SJ-220



NEW

## Analog dial indicator

- Reading: 0.01 mm
- Measuring range: 10 mm



321720 0,8x40  
(513-404-10E)

**81,00**  
price/PC

## Mitutoyo

## Analog dial indicator

- Reading: 0.01 mm
- Measuring range: 10 mm



320107 2046AB

**37,90**  
price/PC

## Mitutoyo



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