





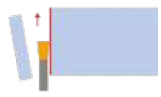
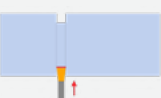
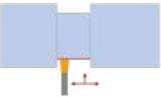



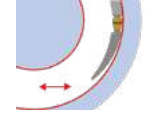

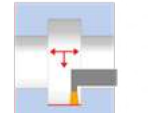






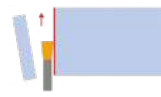
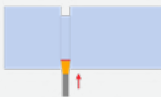
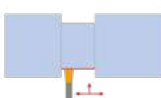



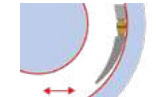

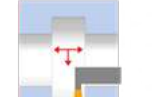


Overview of Grooving Holders

| Holder Application | | | External grooving | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|
| | | | ASGHR/L | S-ASGHL | ATGHR/L | ATSER/L | ATSER/L-D | ATSER/L-SW |
| | | |  |  |  |  |  |  |
| Page | | | P147 | P148 | P149 | P151 | P153 | P154 |
| External grooving | Parting off |  | | | | ● | ● | ● |
| | Grooving |  | ● | ● | ● | ● | ● | ● |
| | Turning |  | | | | ● | ● | ● |
| | Profiling |  | | | | ● | ● | |
| | Under cut |  | | | | | | |
| Face grooving | Grooving |  | | | | | | |
| | Turning |  | | | | | | |
| Internal machining | Grooving |  | | | | | | |
| | Turning |  | | | | | | |

Marked: ● Best choice






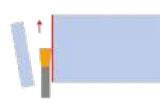

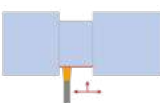
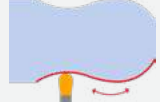


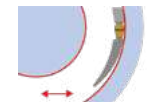
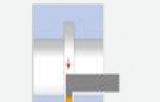

Overview of Grooving Holders

| Holder Application | | | External grooving | Face grooving | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|
| | | | AGUER/L | ATSFR/L | ATSFR/L-OB | AGSFR/L | AGPFR/L | ATPFR/L | |
| | | |  |  |  |  |  |  | |
| Page | | | P155 | P156 | P157 | P159 | P160 | P161 | |
| External grooving | Parting off |  | | | | | | | |
| | Grooving |  | | | | ● | ● | | |
| | Turning |  | | | | ○ | ○ | | |
| | Profiling |  | | | | | | | |
| | Under cut |  | ● | | | | | | |
| Face grooving | Grooving |  | | ● | ● | ● | ● | ● | ● |
| | Turning |  | | ● | ● | ● | ● | ● | ● |
| Internal machining | Grooving |  | | | | | | | |
| | Turning |  | | | | | | | |

Marked: ● Best choice

Grooving

Overview of Grooving Holders

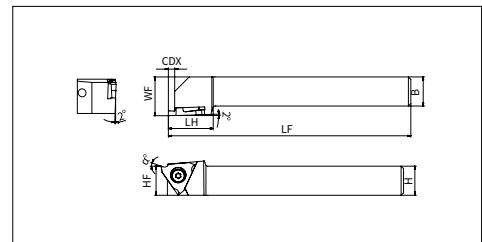
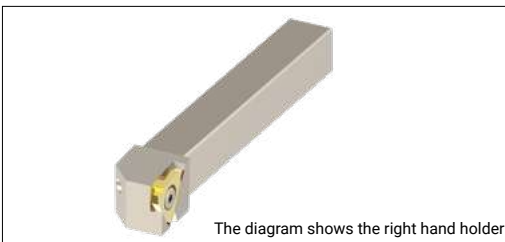
| Holder Application | | | Internal machining | | | | |
|-----------------------|-------------|---|---|---|--|---|---|
| | | | ATPIR/L | ATGIR/L | ATSIR/L | AGSIR/L | AGUIR/L |
| | | |  |  |  |  |  |
| Page | | | P162 | P163 | P164 | P165 | P166 |
| External grooving | Parting off |  | | | | | |
| | Grooving |  | | | | | |
| | Turning |  | | | | | |
| | Profiling |  | | | | | |
| | Under cut |  | | | | | ● |
| Face grooving | Grooving |  | | | ● | ● | |
| | Turning |  | | | ● | ● | |
| Internal machining | Grooving |  | ● | ● | | | |
| | Turning |  | ● | | | | |

Marked: ● Best choice

ASGH Grooving Holder Denomination System

| | | | | | | | | | | |
|------------------------------|---------------|--|---------------|-----------------------------|----------------|--|----------------|---|----------------|----------------|
| A 1 | S 2 | G 3 | H 4 | R 5 | 20 6 | 20 7 | JX 8 | - - | 32 9 | F 10 |
| 1-Company Name ACHTECK | | 2-Matching Insert Type S S: For swiss machine | | 3-Application G Grooving | | 4-Holder Type H Holder | | 5-Hand of Tool L Left R Right | | |
| 6-Holder Height 20=20.0mm | | 7-Holder Width 20=20.0mm | | 8-Holder Length JX=120mm | | 9 -Matching Insert Size (IC) 32=9.525mm | | 10 -Shape of Holder Head F: Without dimple | | |

ASGHR/L External shallow Grooving Holder for Swiss Lathe



| Product code | | Dimension (mm) | | | | | Spare parts | |
|----------------|-------------------|----------------|----|-----|------|-----|-------------|---------|
| | | H | B | LF | LH | CDX | Screw | Wrench |
| ASGHR/L | 1010JX-32F | 10 | 10 | 120 | 18.5 | 2.5 | SP040070 | FT-TP08 |
| | 1212FX-32F | 12 | 12 | 85 | 18.5 | 2.5 | | |
| | 1212JX-32F | 12 | 12 | 120 | 18.5 | 2.5 | | |
| | 1616JX-32F | 16 | 16 | 120 | 18.5 | 2.5 | | |
| | 2020JX-32F | 16 | 16 | 120 | 18.5 | 2.5 | | |
| | 1010F-32 | 10 | 10 | 80 | 18.5 | 2.5 | | |
| | 1212H-32 | 12 | 12 | 100 | 18.5 | 2.5 | | |
| | 1616H-32 | 16 | 16 | 100 | 18.5 | 2.5 | | |
| | 2020K-32 | 20 | 20 | 125 | 20 | 2.5 | | |
| | 2525M-32 | 25 | 25 | 150 | 20 | 2.5 | | |

Applicable Insert

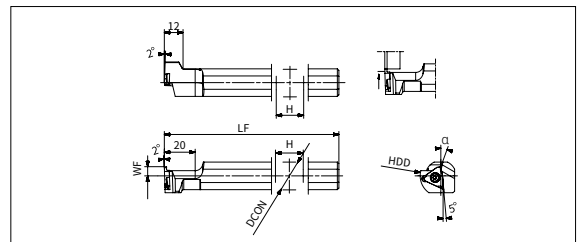
| | |
|------------------|----------|
| Application | Grooving |
| Insert shape | |
| Product code | |
| ASGHR/L** | ASG 32 |
| Reference page | P172 |

Grooving

S...ASGH Sleeve Tool Holder Denomination System


| | | | | | | | | | |
|---|----------------|------------------------------------|---------------|-----------------------------|---------------|---------------------------|---------------|---------------|----------------|
| S 1 | 20 2 | JX 3 | - - | A 4 | S 5 | G 6 | H 7 | L 8 | 32 9 |
| 1-Holder Material S=Steel | | 2-Holder Shank Diameter 20=20mm | | 3-Holder Length JX=120mm | | 4-Company Name ACHTECK | | | |
| 5-Matching Insert Type S Swiss | | 6-Application G Grooving | | 7-Holder Type H Holder | | 8-Hand of Tool L Left | | | |
| 9-Matching Insert Size (IC) 32=9.525mm | | | | | | | | | |

S...ASGH External Grooving Sleeve Holder for Swiss Lathe



| Product code | Dimension (mm) | | | | | Spare parts | |
|------------------------|----------------|-----|----|--------|------|-------------|---------|
| | DCON | LF | WF | HDD | DMIN | Screw | Wrench |
| S12F-ASGHL32 | 12 | 80 | 6 | 11 | 27 | SP040070 | FT-TP08 |
| S14H-ASGHL32 | 14 | 100 | | 13 | | | |
| S15.0H-ASGHL32 | 15.875 | | | 15.875 | | | |
| S16H-ASGHL32 | 16 | 120 | | 17.6 | | | |
| S19.0JX-ASGHL32 | 19.05 | | | 18.6 | | | |
| S20JX-ASGHL32 | 20 | | | 23.6 | | | |
| S22JX-ASGHL32 | 22 | 120 | | 23.6 | | | |
| S25JX-ASGHL32 | 25 | | 10 | | | | |
| S25.0JX-ASGHL32 | 25.4 | 120 | | | | | |

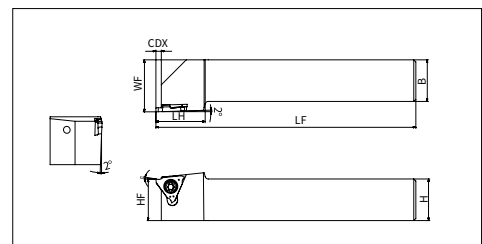
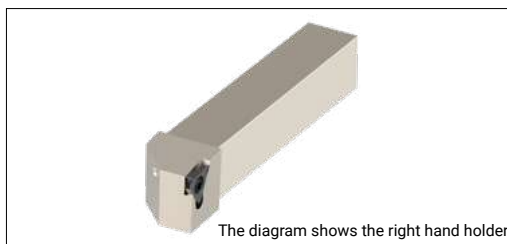
Applicable Insert

| | |
|----------------|---|
| Application | Grooving |
| Insert shape |  |
| Product code | S...ASGHL** |
| Reference page | ASG 32 P172 |

ATGH Tool Holder Denomination System

| | | | | | | | | | | | |
|---|---------------|---|--|---------------|--|----------------------------|---------------------------------------|----------------|---------------|-----------------|------------------|
| A 1 | T 2 | G 3 | H 4 | R 5 | 25 6 | 25 7 | M 8 | 43 9 | - - | 10 10 | T25 11 |
| 1-Company Name ACHTECK | | 2-Matching Insert Type T Triangular | | | 3-Application G Grooving | | 4-Holder Type H Holder | | | | |
| 5-Hand of Tool L Left R Right | | 6-Holder Height 20=20.0mm 25=25.0mm | | | 7-Holder Width 20=20.0mm 25=25.0mm | | 8-Holder Length K=125mm M=150mm | | | | |
| 9-Matching Insert Size (IC) 32=9.525mm | | | 10-Matching Insert Maximum Width 10=1.0mm | | | 11-Maximum Ap T25=2.5mm | | | | | |

ATGHR/L External Grooving Holder



| Product code | | Dimensions (mm) | | | | | | Spare parts | |
|----------------------|----------------------|-----------------|----|-----|------|------|-----|-------------|---------|
| | | H | B | LF | LH | WF | CDX | Screw | Wrench |
| ATGHR/L | 2020K32-T25 | 20 | 20 | 20 | 125 | 24 | 2.5 | SP040085 | FT-TP15 |
| | 2525M32-T25 | 25 | 25 | 25 | 150 | 24 | 2.5 | | |
| | 2020K43-10T40 | 20 | 20 | 20 | 125 | 25.5 | 4.0 | SP05008550 | FT-TP20 |
| | 2525M43-10T40 | 25 | 25 | 25 | 150 | 25.5 | 4.0 | | |
| | 2020K43-20T45 | 20 | 20 | 20 | 125 | 25.5 | 4.5 | | |
| | 2525M43-20T45 | 25 | 25 | 25 | 150 | 25.5 | 4.5 | | |
| | 2020K43-20T55 | 20 | 20 | 20 | 125 | 25.5 | 5.5 | | |
| | 2525M43-20T55 | 25 | 25 | 25 | 150 | 25.5 | 5.5 | | |
| | 2020K43-30T55 | 20 | 20 | 20 | 125 | 25.5 | 5.5 | | |
| 2525M43-30T55 | 25 | 25 | 25 | 150 | 25.5 | 5.5 | | | |

Applicable Insert

| Application | Grooving | Profiling |
|---------------------|----------|-----------|
| Insert shape | | |
| Product code | | |
| ATGHR/L** 32 | ATG 32 | ATG 32 |
| ATGHR/L** 43 | ATG 43 | ATG 43 |
| Reference page | P173 | P174 |

Grooving Holder Denomination System

| | | | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|-------------|----------|----------|--------------|----------|-----------|----------|-----------|----------|-----------|
| A | G | U | E | R | 0750 | - | 4 | T0315 | - | 40 | - | 80 | - | SW |
| 1 | 2 | 3 | 4 | 5 | 6 | - | 8 | 9 | - | 10 | - | 11 | - | 12 |
| | | | | | 16 | | | | | | | | | |
| | | | | | 7 | | | | | | | | | |

| 1-Company name |
|----------------|
| ACHTECK |

| 2-Application | |
|---------------|----------|
| G | Grooving |
| T | Turning |

| 3- Shape of holder head |
|-------------------------|
| S: Straight-180° |
| U: Under cut-45° |
| P: Perpendicular-90° |

| 4-Machining type |
|------------------|
| E: External |
| I: Internal |
| F: Facing |

| 5-Hand of tool | |
|----------------|------------|
| L | Left hand |
| R | Right hand |

| 6-Holder diameter |
|-------------------|
| 0375=0.375 |
| 0750=0.750 |
| 1000=1.000 |

| 7-Holder Height/width |
|-----------------------|
| 08=0.375 |
| 12=0.750 |
| 16=1.000 |

| 8-Insert width |
|----------------|
| 2=0.079 |
| 3=0.118 |
| 4=0.157 |

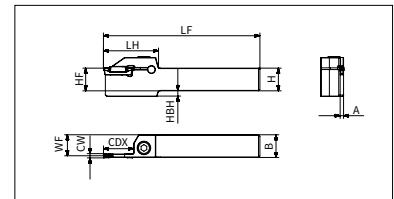
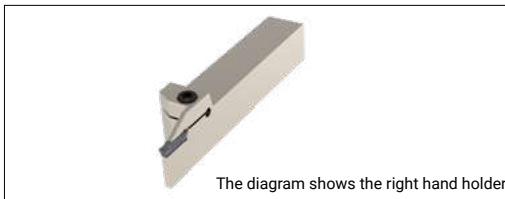
| 9-Ap |
|-----------------|
| T0315=Max 0.315 |

| 10-Minimum cutting diameter |
|-----------------------------|
| 40=1.575 |

| 11-Maximum cutting diameter |
|-----------------------------|
| 80=3.150 |

| 12-Special code |
|---------------------------|
| SW: For swiss machine |
| OB: Outside bulge holders |
| C: With internal coolant |
| D: Reinforced holders |










ATSER/L External Turning and Grooving



| Product code | | Dimension (inch) | | | | | | | | | Spare parts | |
|--------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------|
| | | H | B | HF | HBH | A | LF | LH | WF | CDX | Screw | Wrench |
| ATSER/L | 10-2T0315 | 0.625 | 0.625 | 0.625 | 0.157 | 0.071 | 4.500 | 1.299 | 0.590 | 0.315 | SH050160 | LT-H4 |
| | 10-2T0472 | 0.625 | 0.625 | 0.625 | 0.157 | 0.071 | 4.500 | 1.260 | 0.590 | 0.472 | | |
| | 10-2T0669 | 0.625 | 0.625 | 0.625 | 0.157 | 0.071 | 4.500 | 1.457 | 0.590 | 0.669 | | |
| | 12-2T0315 | 0.750 | 0.750 | 0.750 | 0.000 | 0.071 | 5.000 | 1.299 | 0.715 | 0.315 | SH050200 | |
| | 12-2T0472 | 0.750 | 0.750 | 0.750 | 0.000 | 0.071 | 5.000 | 1.260 | 0.715 | 0.472 | | |
| | 12-2T0669 | 0.750 | 0.750 | 0.750 | 0.000 | 0.071 | 5.000 | 1.457 | 0.715 | 0.669 | | |
| | 16-2T0315 | 1.000 | 1.000 | 1.000 | 0.000 | 0.071 | 6.000 | 1.299 | 0.965 | 0.315 | SH050250 | |
| | 16-2T0472 | 1.000 | 1.000 | 1.000 | 0.000 | 0.071 | 6.000 | 1.260 | 0.965 | 0.472 | | |
| | 16-2T0669 | 1.000 | 1.000 | 1.000 | 0.000 | 0.071 | 6.000 | 1.457 | 0.965 | 0.669 | | |
| | 10-3T0354 | 0.625 | 0.625 | 0.625 | 0.157 | 0.094 | 4.500 | 1.260 | 0.578 | 0.354 | SH050160 | |
| | 10-3T0472 | 0.625 | 0.625 | 0.625 | 0.157 | 0.094 | 4.500 | 1.260 | 0.578 | 0.472 | | |
| | 10-3T0787 | 0.625 | 0.625 | 0.625 | 0.157 | 0.094 | 4.500 | 1.496 | 0.578 | 0.787 | | |
| | 12-3T0354 | 0.750 | 0.750 | 0.750 | 0.000 | 0.094 | 5.000 | 1.260 | 0.703 | 0.354 | SH050200 | |
| | 12-3T0472 | 0.750 | 0.750 | 0.750 | 0.000 | 0.094 | 5.000 | 1.260 | 0.703 | 0.472 | | |
| | 12-3T0787 | 0.750 | 0.750 | 0.750 | 0.000 | 0.094 | 5.000 | 1.496 | 0.703 | 0.787 | | |
| | 16-3T0354 | 1.000 | 1.000 | 1.000 | 0.000 | 0.094 | 6.000 | 1.260 | 0.953 | 0.354 | SH050250 | |
| | 16-3T0472 | 1.000 | 1.000 | 1.000 | 0.000 | 0.094 | 6.000 | 1.260 | 0.953 | 0.472 | | |
| | 16-3T0787 | 1.000 | 1.000 | 1.000 | 0.000 | 0.094 | 6.000 | 1.496 | 0.953 | 0.787 | | |
| | 16-3T0984 | 1.000 | 1.000 | 1.000 | 0.000 | 0.094 | 6.000 | 1.772 | 0.953 | 0.984 | | |
| | 10-4T0394 | 0.625 | 0.625 | 0.625 | 0.157 | 0.132 | 4.500 | 1.260 | 0.559 | 0.394 | SH060160 | |
| | 10-4T0591 | 0.625 | 0.625 | 0.625 | 0.157 | 0.132 | 4.500 | 1.299 | 0.559 | 0.591 | | |
| | 10-4T0984 | 0.625 | 0.625 | 0.625 | 0.157 | 0.132 | 4.500 | 1.772 | 0.559 | 0.984 | | |
| | 12-4T0984 | 0.750 | 0.750 | 0.750 | 0.000 | 0.132 | 5.000 | 1.260 | 0.684 | 0.394 | SH060200 | |
| | 12-4T0591 | 0.750 | 0.750 | 0.750 | 0.000 | 0.132 | 5.000 | 1.299 | 0.684 | 0.591 | | |
| | 12-4T0984 | 0.750 | 0.750 | 0.750 | 0.000 | 0.132 | 5.000 | 1.772 | 0.684 | 0.984 | | |
| | 16-4T0394 | 1.000 | 1.000 | 1.000 | 0.000 | 0.132 | 6.000 | 1.260 | 0.934 | 0.394 | SH060250 | |
| | 16-4T0591 | 1.000 | 1.000 | 1.000 | 0.000 | 0.132 | 6.000 | 1.299 | 0.934 | 0.591 | | |
| | 16-4T0787 | 1.000 | 1.000 | 1.000 | 0.000 | 0.132 | 6.000 | 1.575 | 0.934 | 0.787 | | |
| | 16-4T0984 | 1.000 | 1.000 | 1.000 | 0.000 | 0.132 | 6.000 | 1.772 | 0.934 | 0.984 | | |
| | 12-5T0472 | 0.750 | 0.750 | 0.750 | 0.000 | 0.171 | 5.000 | 1.457 | 0.664 | 0.472 | SH060200 | |
| | 12-5T0787 | 0.750 | 0.750 | 0.750 | 0.000 | 0.171 | 5.000 | 1.457 | 0.664 | 0.787 | | |
| | 16-5T0472 | 1.000 | 1.000 | 1.000 | 0.000 | 0.171 | 6.000 | 1.457 | 0.914 | 0.472 | | |
| | 16-5T0787 | 1.000 | 1.000 | 1.000 | 0.000 | 0.171 | 6.000 | 1.457 | 0.914 | 0.787 | | |
| | 16-5T1260 | 1.000 | 1.000 | 1.000 | 0.000 | 0.171 | 6.000 | 2.205 | 0.914 | 1.260 | SH060250 | |
| | 20-5T0472 | 1.250 | 1.250 | 1.250 | 0.000 | 0.171 | 7.000 | 1.457 | 1.164 | 0.472 | | |
| | 20-5T0787 | 1.250 | 1.250 | 1.250 | 0.000 | 0.171 | 7.000 | 1.535 | 1.164 | 0.787 | | |
| | 20-5T0984 | 1.250 | 1.250 | 1.250 | 0.000 | 0.171 | 7.000 | 1.811 | 1.164 | 0.984 | | |
| | 20-5T1260 | 1.250 | 1.250 | 1.250 | 0.000 | 0.171 | 7.000 | 2.205 | 1.164 | 1.260 | | |
| | 12-6T0472 | 0.750 | 0.750 | 0.750 | 0.000 | 0.211 | 5.000 | 1.457 | 0.645 | 0.472 | SH080200 | |
| | 12-6T0787 | 0.750 | 0.750 | 0.750 | 0.000 | 0.211 | 5.000 | 1.614 | 0.645 | 0.787 | | |
| 16-6T0472 | 1.000 | 1.000 | 1.000 | 0.276 | 0.211 | 6.000 | 1.457 | 0.895 | 0.472 | | | |
| 16-6T0787 | 1.000 | 1.000 | 1.000 | 0.276 | 0.211 | 6.000 | 1.614 | 0.895 | 0.787 | | | |
| 16-6T1260 | 1.000 | 1.000 | 1.000 | 0.276 | 0.211 | 6.000 | 2.205 | 0.895 | 1.260 | SH080250 | | |
| 20-6T0472 | 1.250 | 1.250 | 1.250 | 0.000 | 0.211 | 7.000 | 1.457 | 1.145 | 0.472 | | | |
| 20-6T0787 | 1.250 | 1.250 | 1.250 | 0.000 | 0.211 | 7.000 | 1.614 | 1.145 | 0.787 | | | |
| 20-6T0984 | 1.250 | 1.250 | 1.250 | 0.000 | 0.211 | 7.000 | 1.811 | 1.145 | 0.984 | | | |
| 20-6T1260 | 1.250 | 1.250 | 1.250 | 0.000 | 0.211 | 7.000 | 2.205 | 1.145 | 1.260 | | | |
| 16-8T0630 | 1.000 | 1.000 | 1.000 | 0.276 | 0.244 | 6.000 | 1.850 | 0.878 | 0.630 | | | |
| 16-8T0984 | 1.000 | 1.000 | 1.000 | 0.276 | 0.244 | 6.000 | 1.850 | 0.878 | 0.984 | | | |
| 16-8T1417 | 1.000 | 1.000 | 1.000 | 0.276 | 0.244 | 6.000 | 2.362 | 0.878 | 1.417 | | | |
| 20-8T0984 | 1.250 | 1.250 | 1.250 | 0.000 | 0.244 | 7.000 | 1.850 | 1.128 | 0.984 | | | |
| 20-8T1417 | 1.250 | 1.250 | 1.250 | 0.000 | 0.244 | 7.000 | 2.362 | 1.128 | 1.417 | | | |

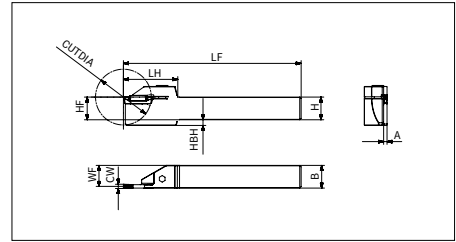
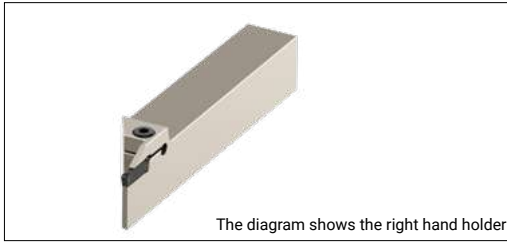
Grooving

Applicable Insert

| Application | | Low feed rate | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground Profiling | Ground |
|------------------------------|---------------------|---|---|---|---|--|---|---|---|--|
| Insert shape Product code | Insert Size (mm) | CS  | CM  | CH  | GS  | TS  | TM  | RM  | RA  | G  |
| | ATSER/L** 2T | 2 | ACD 202 ACD 302 | ACD/ACS 202 ACD/ACS 603 | ACD/ACS 202 ACD/ACS 603 | ATD 300E ATD 714E | ATD 203 ATD 808 | ATD 304 ATD 812 | ATD 210 ATD 840 | ATD 315 ATD 840 |
| ATSER/L** 3T | 3 | | | | | | | | | |
| ATSER/L** 4T | 4 | | | | | | | | | |
| ATSER/L** 5T | 5 | | | | | | | | | |
| ATSER/L** 6T | 6 | | | | | | | | | |
| ATSER/L** 8T | 8 | | | | | | | | | |
| Reference page | | P175 | P176 | P177 | P178 | P179 | P179 | P180 | P180 | P182 |

Inserts*: ACD/ACS series are only applicable to grooving and parting off machining

ATSER/L-D Reinforced External Turning and Grooving Holder



| Product code | | Dimension (inch) | | | | | | | | | | Spare parts | |
|--------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|--------|
| | | H | B | HF | HBH | A | LF | LH | WF | CDX | CUTDIA | Screw | Wrench |
| ATSER/L | 06-2T0591-D40 | 0.375 | 0.375 | 0.375 | 0.236 | 0.071 | 5.000 | 1.260 | 0.340 | 0.591 | 1.575 | SH050160 | LT-H4 |
| | 08-2T0591-D40 | 0.500 | 0.500 | 0.500 | 0.157 | 0.071 | 5.000 | 1.260 | 0.465 | 0.591 | 1.575 | | |
| | 10-2T0787-D45 | 0.625 | 0.625 | 0.625 | 0.157 | 0.071 | 5.000 | 1.496 | 0.590 | 0.787 | 1.772 | | |
| | 12-2T0787-D45 | 0.750 | 0.750 | 0.750 | 0.000 | 0.071 | 5.000 | 1.496 | 0.715 | 0.787 | 1.772 | | |
| | 16-2T0787-D45 | 1.000 | 1.000 | 1.000 | 0.000 | 0.071 | 6.000 | 1.496 | 0.965 | 0.787 | 1.772 | | |
| | 08-3T0591-D40 | 0.500 | 0.500 | 0.500 | 0.157 | 0.094 | 5.000 | 1.260 | 0.453 | 0.591 | 1.575 | | |
| | 10-3T0787-D45 | 0.625 | 0.625 | 0.625 | 0.157 | 0.094 | 5.000 | 1.496 | 0.578 | 0.787 | 1.772 | | |
| | 12-3T0787-D45 | 0.750 | 0.750 | 0.750 | 0.000 | 0.094 | 5.000 | 1.496 | 0.703 | 0.787 | 1.772 | | |
| | 16-3T0787-D45 | 1.000 | 1.000 | 1.000 | 0.000 | 0.094 | 6.000 | 1.496 | 0.953 | 0.787 | 1.772 | | |
| | 16-3T0984-D60 | 1.000 | 1.000 | 1.000 | 0.276 | 0.094 | 6.000 | 1.693 | 0.953 | 0.984 | 2.362 | SH050250 | |

Grooving

Applicable Insert

| Application | Insert shape | Insert Size (mm) | Low feed rate | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground Profiling | Ground |
|----------------|--------------|--------------------|--------------------|-------------------------------------|-------------------------------------|-------------------------------|-----------------------------|------------------|-----------------------------|------------------|-------------------------------|
| Product code | | | CS | CM | CH | GS | TS | TM | RM | RA | G |
| ATSER/L** 2T-D | 2 | ACD 202 ACD 302 | ACD 202 ACD 302 | ACD/ACS 202 ACD/ACS 302 | ACD/ACS 202 ACD/ACS 302 | ATD 300E ATD 318E | ATD 203 ATD 303 | ATD 304 | ATD 210 ATD 315 | ATD 315 | ATD 100E ATD 300E |
| ATSER/L** 3T-D | | | | | | | | | | | |
| Reference page | | | P175 | P176 | P177 | P178 | P179 | P179 | P180 | P180 | P182 |

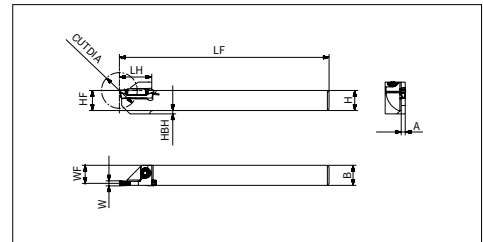
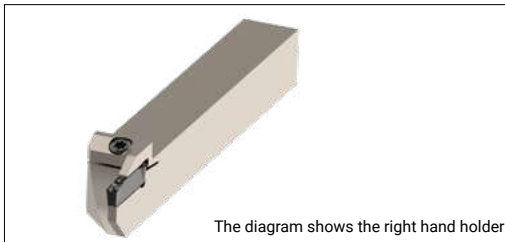
Inserts*: ACD/ACS series are only applicable to grooving and parting off machining

The max. cutting depth vs workpiece diameter

| Product code | Workpiece diameter | CDX (inch) | | | | | | | | | | | | | | | | | |
|--------------|--------------------|---------------|-------|--------|--------|--------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | ≤0.314 | 0.354 | 0.394 | 0.433 | 0.472 | 0.512 | 0.551 | 0.591 | 0.669 | 0.709 | 0.748 | 0.787 | 0.827 | 0.866 | 0.906 | 0.945 | 0.984 | |
| ATSER/L | CUTDIA | 06-2T0591-D40 | ∞ | ∞ | ∞ | 10.591 | 4.724 | 3.110 | 2.323 | 1.575 | - | - | - | - | - | - | - | - | - |
| | | 08-2T0591-D40 | ∞ | ∞ | ∞ | 10.591 | 4.724 | 3.110 | 2.323 | 1.575 | - | - | - | - | - | - | - | - | - |
| | | 10-2T0787-D45 | ∞ | ∞ | ∞ | ∞ | ∞ | 17.008 | 7.598 | 4.921 | 2.992 | 2.520 | 2.244 | 1.772 | - | - | - | - | - |
| | | 12-2T0787-D45 | ∞ | ∞ | ∞ | ∞ | ∞ | 17.008 | 7.598 | 4.921 | 2.992 | 2.520 | 2.244 | 1.772 | - | - | - | - | - |
| | | 16-2T0787-D45 | ∞ | 57.795 | 13.346 | 7.598 | 5.354 | 4.173 | 3.425 | 2.953 | 2.362 | 2.205 | 2.047 | 1.772 | - | - | - | - | - |
| | | 08-3T0591-D40 | ∞ | ∞ | ∞ | 10.591 | 4.724 | 3.110 | 2.323 | 1.575 | - | - | - | - | - | - | - | - | - |
| | | 10-3T0787-D45 | ∞ | ∞ | ∞ | ∞ | ∞ | 17.008 | 7.598 | 4.921 | 2.992 | 2.520 | 2.244 | 1.772 | - | - | - | - | - |
| | | 12-3T0787-D45 | ∞ | ∞ | ∞ | ∞ | ∞ | 17.008 | 7.598 | 4.921 | 2.992 | 2.520 | 2.244 | 1.772 | - | - | - | - | - |
| | | 16-3T0787-D45 | ∞ | 57.795 | 13.346 | 7.598 | 5.354 | 4.173 | 3.425 | 2.953 | 2.362 | 2.205 | 2.047 | 1.772 | - | - | - | - | - |
| | | 16-3T0984-D60 | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | 16.457 | 9.331 | 6.575 | 5.118 | 4.213 | 3.583 | 3.189 | 2.874 | 2.362 |

"∞": The diameter is infinite

ATSER/L-SW External Turning and Grooving Holder for Swiss Lathe

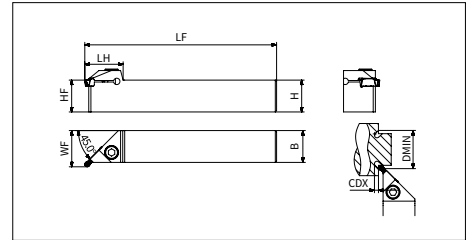
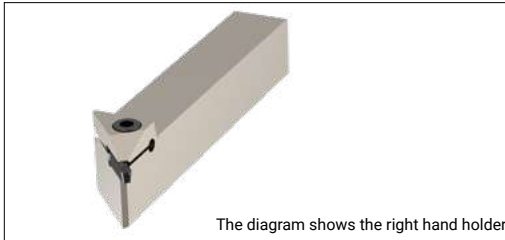


| Product code | | Dimension (inch) | | | | | | | | | Spare parts | |
|--------------|------------|------------------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|---------|
| | | H | B | HF | HBH | A | LF | LH | WF | CUTDIA | Screw | Wrench |
| ATSER/L | 06-2D20-SW | 0.375 | 0.375 | 0.375 | 0.079 | 0.071 | 5.000 | 0.748 | 0.340 | 0.787 | SP040125 | LT-TP15 |
| | 08-2D24-SW | 0.500 | 0.500 | 0.500 | 0.079 | 0.071 | 5.000 | 0.748 | 0.465 | 0.945 | | |
| | 10-2D32-SW | 0.625 | 0.625 | 0.625 | 0.000 | 0.071 | 5.000 | 0.945 | 0.590 | 1.260 | | |
| | 08-3D24-SW | 0.500 | 0.500 | 0.500 | 0.079 | 0.094 | 5.000 | 0.748 | 0.453 | 0.945 | | |
| | 10-3D32-SW | 0.625 | 0.625 | 0.625 | 0.000 | 0.094 | 5.000 | 0.945 | 0.578 | 1.260 | | |
| | 10-3D38-SW | 0.625 | 0.625 | 0.625 | 0.000 | 0.094 | 5.000 | 1.063 | 0.578 | 1.496 | | |
| | 12-3D45-SW | 0.750 | 0.750 | 0.750 | 0.000 | 0.094 | 5.000 | 1.220 | 0.703 | 1.772 | | |

Applicable Insert

| Application | | Low feed rate | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground Profiling | Ground |
|-----------------|------------------|---------------|----------------------|--------------------------|-----------|---------------|------------------|-----------|------------------|----------|
| Insert shape | Insert Size (mm) | CS | CM | CH | GS | TS | TM | RM | RA | G |
| | | | | | | | | | | |
| Product code | | | | | | | | | | |
| ATSER/L** 2D-SW | 2 | ACD 202 | ACD/ACS 202 | ACD/ACS 202 | ATD 300E | ATD 203 | ATD 304 | ATD 210 | ATD 315 | ATD 100E |
| ATSER/L** 3D-SW | 3 | ACD 302 | ACD/ACS 302 | ACD/ACS 302 | ATD 318E | ATD 303 | | ATD 315 | | ATD 300E |
| Reference page | | P175 | P176 | P177 | P178 | P179 | P179 | P180 | P180 | P182 |

AGUER/L External Undercutting Holder



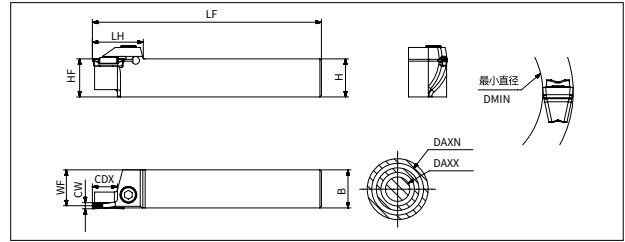
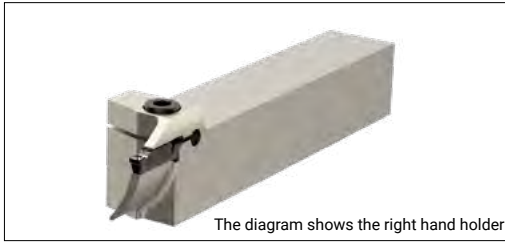
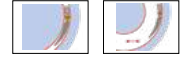
| Product code | | Insert Size (mm) | Dimension (inch) | | | | | | | | Spare parts | |
|----------------|-------------|------------------|------------------|-------|-------|-------|-------|-------|-------|----------|-------------|--------|
| | | | H | B | HF | LF | LH | WF | CDX | DMIN | Screw | Wrench |
| AGUER/L | 10-3 | 2, 3 | 0.625 | 0.625 | 0.625 | 4.500 | 1.189 | 0.767 | 0.118 | 2.362 | SH050160 | LT-H4 |
| | 10-4 | 4 | 0.625 | 0.625 | 0.625 | 4.500 | 1.189 | 0.775 | 0.118 | 2.165 | SH060160 | |
| | 12-3 | 2, 3 | 0.750 | 0.750 | 0.750 | 5.000 | 1.189 | 0.892 | 0.118 | 2.362 | SH050200 | LT-H5 |
| | 12-4 | 4 | 0.750 | 0.750 | 0.750 | 5.000 | 1.189 | 0.900 | 0.118 | 2.165 | SH060200 | |
| | 16-3 | 2, 3 | 1.000 | 1.000 | 1.000 | 6.000 | 1.189 | 1.142 | 0.118 | 2.362 | SH050250 | LT-H4 |
| | 16-4 | 4 | 1.000 | 1.000 | 1.000 | 6.000 | 1.189 | 1.150 | 0.118 | 2.165 | SH060250 | LT-H5 |
| 16-6 | 5, 6 | 1.000 | 1.000 | 1.000 | 6.000 | 1.323 | 1.165 | 0.138 | 2.165 | SH060250 | LT-H5 | |

Grooving

Applicable Insert

| Application | Profiling | Ground Profiling | Ground |
|------------------|-----------------------------|-----------------------------|-------------------------------|
| Insert shape | RM | RA | G |
| Product code | | | |
| AGUER/L** | ATD 210 ATD 630 | ATD 315 ATD 630 | ATD 100E ATD 600E |
| Reference page | P180 | P180 | P182 |

ATSFR/L Face Grooving and Turning Holder



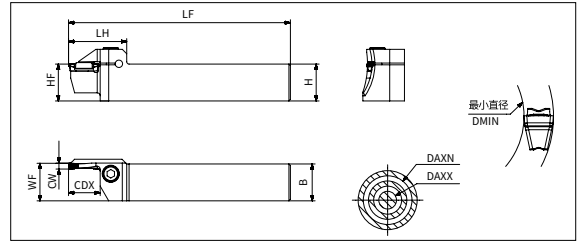
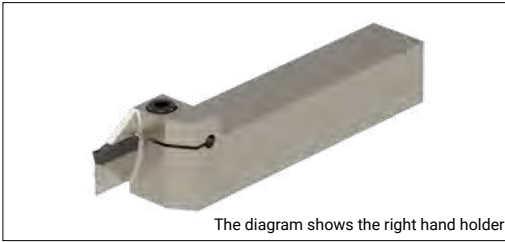
| Product code | | Dimension (inch) | | | | | | | | | Spare parts | |
|-------------------|-------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|--------|
| | | H | B | HF | LF | LH | WF | CDX | DAXX | DAXN | Screw | Wrench |
| ATSFR/L | 16-3T0394-35-45 | 1.000 | 1.000 | 1.000 | 6.000 | 1.260 | 0.959 | 0.394 | 1.378 | 1.772 | SH050250 | LT-H4 |
| | 16-3T0394-40-55 | 1.000 | 1.000 | 1.000 | 6.000 | 1.260 | 0.959 | 0.394 | 1.575 | 2.165 | | |
| | 16-3T0591-45-65 | 1.000 | 1.000 | 1.000 | 6.000 | 1.260 | 0.959 | 0.591 | 1.772 | 2.559 | | |
| | 16-3T0591-55-85 | 1.000 | 1.000 | 1.000 | 6.000 | 1.260 | 0.959 | 0.591 | 2.165 | 3.346 | | |
| | 16-4T0591-35-50 | 1.000 | 1.000 | 1.000 | 6.000 | 1.260 | 0.943 | 0.591 | 1.378 | 1.969 | SH060250 | LT-H5 |
| | 16-4T0591-45-65 | 1.000 | 1.000 | 1.000 | 6.000 | 1.260 | 0.943 | 0.591 | 1.772 | 2.559 | | |
| | 16-4T0591-55-85 | 1.000 | 1.000 | 1.000 | 6.000 | 1.260 | 0.943 | 0.591 | 2.165 | 3.346 | | |
| | 16-5T0787-50-80 | 1.000 | 1.000 | 1.000 | 6.000 | 1.575 | 0.923 | 0.787 | 1.969 | 3.150 | SH080250 | LT-H6 |
| | 16-5T0787-70-110 | 1.000 | 1.000 | 1.000 | 6.000 | 1.575 | 0.923 | 0.787 | 2.756 | 4.331 | | |
| | 16-5T0787-100-150 | 1.000 | 1.000 | 1.000 | 6.000 | 1.575 | 0.923 | 0.787 | 3.937 | 5.906 | | |
| | 16-5T0787-140-200 | 1.000 | 1.000 | 1.000 | 6.000 | 1.575 | 0.923 | 0.787 | 5.512 | 7.874 | | |
| | 16-6T0787-50-85 | 1.000 | 1.000 | 1.000 | 6.000 | 1.575 | 0.904 | 0.787 | 1.969 | 3.346 | | |
| 16-6T0787-75-150 | 1.000 | 1.000 | 1.000 | 6.000 | 1.575 | 0.904 | 0.787 | 2.953 | 5.906 | | | |
| 16-6T0787-140-250 | 1.000 | 1.000 | 1.000 | 6.000 | 1.575 | 0.904 | 0.787 | 5.512 | 9.843 | | | |
| 16-6T0787-200-000 | 1.000 | 1.000 | 1.000 | 6.000 | 1.575 | 0.904 | 0.787 | 7.874 | ∞ | | | |

Applicable Insert

| Application | | Insert Size (mm) | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground |
|----------------|---------------|---------------------------------------|----------------------|--------------------------|-----------|---------------|------------------|-----------|--------|
| Product code | Insert shape | | CM | CH | GS | TS | TM | RM | G |
| | | Minimum machining diameter DMIN(inch) | | | | | | | |
| | ATSFR/L 16-3T | 3 | 3.110 | 3.110 | 2.323 | 1.378 | 1.378 | 2.323 | 2.323 |
| | ATSFR/L 16-4T | 4 | 1.654 | 1.654 | 1.654 | 1.378 | 1.378 | 1.654 | 1.654 |
| | ATSFR/L 16-5T | 5 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 |
| | ATSFR/L 16-6T | 6 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 |
| Reference page | | | P176 | P177 | P178 | P179 | P179 | P180 | P182 |

Inserts*: ACD/ACS series are only applicable to grooving and parting off machining
 Having selected the range of tool holder, please check the minimum face grooving machining diameter of the selected insert








ATSFR/L-OB Face Grooving and Turning Holder (Outside Bluge Type)



| Product code | | Dimension (inch) | | | | | | | | | Spare parts | |
|----------------------|----------------------|------------------|-------|-------|-------|-------|-------|--------|--------|-------|-------------|--------|
| | | H | B | HF | LF | LH | WF | CDX | DAXX | DAXN | Screw | Wrench |
| ATSFR/L | 12-3T0394-30-40-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.220 | 0.671 | 0.394 | 1.181 | 1.575 | SH060200 | LT-H5 |
| | 12-3T0394-35-50-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.220 | 0.671 | 0.394 | 1.378 | 1.969 | | |
| | 12-3T0591-45-70-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.378 | 0.671 | 0.591 | 1.772 | 2.756 | | |
| | 12-3T0591-65-100-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.378 | 0.671 | 0.591 | 2.559 | 3.937 | | |
| | 12-4T0394-20-30-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.220 | 0.656 | 0.394 | 0.787 | 1.181 | | |
| | 12-4T0394-25-35-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.220 | 0.656 | 0.394 | 0.984 | 1.378 | | |
| | 12-4T0630-30-45-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.417 | 0.656 | 0.630 | 1.181 | 1.772 | | |
| | 12-4T0630-35-50-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.417 | 0.656 | 0.630 | 1.378 | 1.969 | | |
| | 12-4T0630-45-70-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.417 | 0.656 | 0.630 | 1.772 | 2.756 | | |
| | 12-4T0630-65-120-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.417 | 0.656 | 0.630 | 2.559 | 4.724 | | |
| | 12-4T0630-115-200-OB | 0.750 | 0.750 | 0.750 | 5.500 | 1.417 | 0.656 | 0.630 | 4.528 | 7.874 | | |
| | 16-3T0394-35-50-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.496 | 0.974 | 0.394 | 1.378 | 1.969 | SH060250 | LT-H5 |
| | 16-3T0591-45-70-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.496 | 0.974 | 0.591 | 1.772 | 2.756 | | |
| | 16-3T0591-65-100-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.496 | 0.974 | 0.591 | 2.559 | 3.937 | | |
| | 16-4T0394-25-35-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.535 | 0.959 | 0.394 | 0.984 | 1.378 | | |
| | 16-4T0787-30-45-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.535 | 0.959 | 0.787 | 1.181 | 1.772 | | |
| | 16-4T0787-35-50-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.535 | 0.959 | 0.787 | 1.378 | 1.969 | | |
| | 16-4T0787-45-70-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.535 | 0.959 | 0.787 | 1.772 | 2.756 | | |
| | 16-4T0787-65-125-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.535 | 0.959 | 0.787 | 2.559 | 4.921 | | |
| | 16-4T0787-115-200-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.535 | 0.959 | 0.787 | 4.528 | 7.874 | | |
| | 16-4T0787-190-000-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.535 | 0.959 | 0.787 | 7.480 | ∞ | | |
| | 16-5T0984-50-80-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.939 | 0.984 | 1.969 | 3.150 | SH080250 | LT-H6 |
| | 16-5T0591-50-80-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.614 | 0.939 | 0.591 | 1.969 | 3.150 | | |
| | 16-5T0984-70-110-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.939 | 0.984 | 2.756 | 4.331 | | |
| | 16-5T0591-70-110-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.939 | 0.591 | 2.756 | 4.331 | | |
| | 16-5T0984-100-150-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.939 | 0.984 | 3.937 | 5.906 | | |
| | 16-5T0984-140-200-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.939 | 0.984 | 5.512 | 7.874 | | |
| | 16-5T0984-190-000-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.939 | 0.984 | 7.480 | ∞ | | |
| | 16-6T0984-50-70-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.919 | 0.984 | 1.969 | 2.756 | | |
| | 16-6T0984-60-100-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.919 | 0.984 | 2.362 | 3.937 | | |
| 16-6T0984-90-180-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.919 | 0.984 | 3.543 | 7.087 | | | |
| 16-6T0984-170-400-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.919 | 0.984 | 6.693 | 15.748 | | | |
| 16-6T0984-390-000-OB | 1.000 | 1.000 | 1.000 | 6.000 | 1.929 | 0.919 | 0.984 | 15.354 | ∞ | | | |

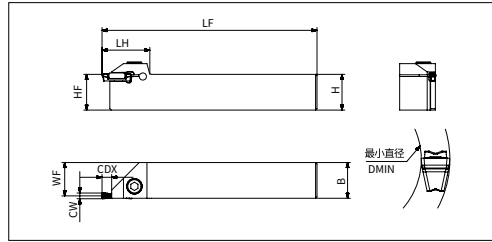
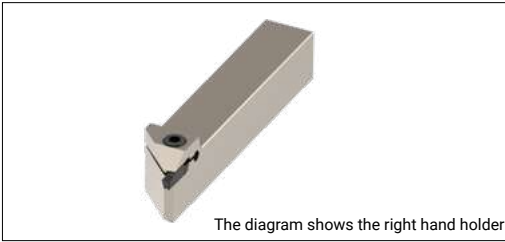
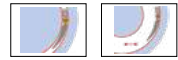
Grooving

Applicable Insert

| Application | | Insert Size (mm) | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground |
|---------------------------|--|------------------|---|---|--|---|---|---|--|
| Product code | Insert shape Minimum machining diameter DMIN (inch) | | CM  | CH  | GS  | TS  | TM  | RM  | G  |
| ATSFR/L 12-3T...OB | | 3 | 3.110 | 3.110 | 2.323 | 1.181 | 1.181 | 2.323 | 2.323 |
| ATSFR/L 12-4T...OB | | 4 | 1.654 | 1.654 | 1.654 | 0.866 | 0.866 | 1.654 | 1.654 |
| ATSFR/L 16-3T...OB | | 3 | 3.110 | 3.110 | 2.323 | 1.378 | 1.378 | 2.323 | 2.323 |
| ATSFR/L 16-4T...OB | | 4 | 1.654 | 1.654 | 1.654 | 0.984 | 0.984 | 1.654 | 1.654 |
| ATSFR/L 16-5T...OB | | 5 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 |
| ATSFR/L 16-6T...OB | | 6 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 |
| Reference page | | | P176 | P177 | P178 | P179 | P179 | P180 | P182 |

1. Inserts*: ACD/ACS series are only applicable to grooving and parting off machining
2. Having selected the range of tool holder, please check the minimum face grooving machining diameter of the selected insert

AGSFR/L External & Face Grooving and Turning Holder



| Product code | Insert Size (mm) | Dimension (inch) | | | | | | | | Spare parts | |
|----------------|------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|
| | | H | B | HF | LF | LH | WF | CDX | Screw | Wrench | |
| AGSFR/L | 10-4 | 2,3,4 | 0.625 | 0.625 | 0.625 | 4.500 | 1.299 | 0.558 | 0.181 | SH060160 | LT-H5 |
| | 12-4 | 2,3,4 | 0.750 | 0.750 | 0.750 | 5.000 | 1.299 | 0.683 | 0.181 | SH060200 | |
| | 12-6 | 5,6 | 0.750 | 0.750 | 0.750 | 5.000 | 1.457 | 0.644 | 0.181 | SH060250 | |
| | 16-4 | 2,3,4 | 1.000 | 1.000 | 1.000 | 6.000 | 1.299 | 0.933 | 0.181 | SH060250 | |
| | 16-6 | 5,6 | 1.000 | 1.000 | 1.000 | 6.000 | 1.457 | 0.894 | 0.181 | SH060250 | |

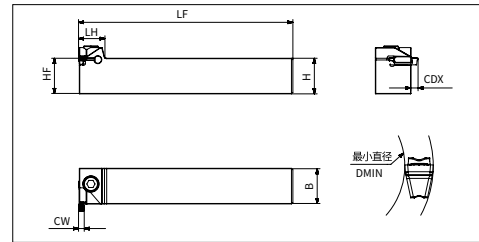
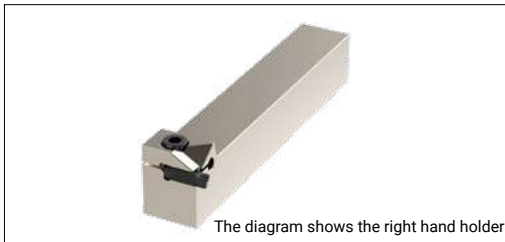
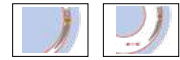
Applicable Insert

| Application | Insert Shape | Low feed rate | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground |
|------------------|--------------|---------------|----------------------|--------------------------|-----------|---------------|------------------|-----------|--------|
| | | CS | CM | CH | GS | TS | TM | RM | G |
| AGSFR/L** | 2 | 7.717 | 7.717 | 7.717 | 3.937 | 7.717 | - | 7.717 | 3.937 |
| | 3 | 3.110 | 3.110 | 3.110 | 2.323 | 0.949 | 0.949 | 2.323 | 2.323 |
| | 4 | - | 1.654 | 1.654 | 1.654 | 0.866 | 0.866 | 1.654 | 1.654 |
| | 5 | - | 1.969 | 1.969 | 1.575 | 0.787 | 0.787 | 1.575 | 1.575 |
| | 6 | - | 1.890 | 1.890 | 1.496 | 0.709 | 0.709 | 1.496 | 1.496 |
| Reference page | | P175 | P176 | P177 | P178 | P179 | P179 | P180 | P182 |

1. Inserts*: ACD/ACS series are only applicable to grooving and parting off machining
2. - : Indicates that the insert is not a choice
3. Having selected the range of tool holder, please check the minimum face grooving machining diameter of the selected insert

Grooving

AGPFR/L Face Grooving and Turning Holder



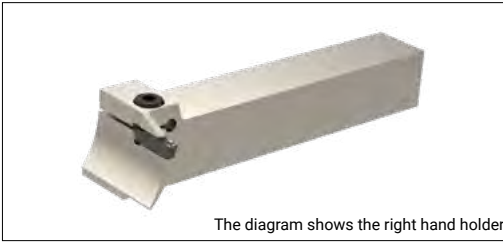
| Product code | Insert Size (mm) | Dimension (inch) | | | | | | | Spare parts | |
|--------------|------------------|------------------|-------|-------|-------|-------|-------|-------|-------------|-------|
| | | H | B | HF | LF | LH | CDX | Screw | Wrench | |
| AGPFR/L | 12-4 | 2,3,4 | 0.750 | 0.750 | 0.750 | 5.000 | 0.709 | 0.181 | SH060200 | LT-H5 |
| | 16-4 | 2,3,4 | 1.000 | 1.000 | 1.000 | 6.000 | 0.709 | 0.181 | SH060250 | LT-H5 |
| | 16-6 | 5,6 | 1.000 | 1.000 | 1.000 | 6.000 | 0.866 | 0.181 | | |

Applicable Insert

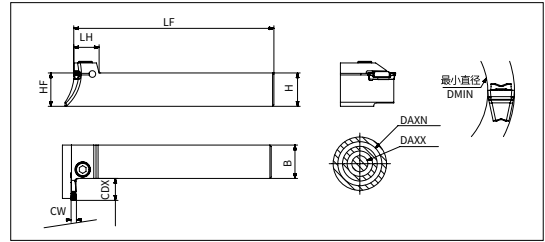
| Application | Insert shape | Insert Size (mm) | Low feed rate | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground |
|----------------|--|------------------|---------------|----------------------|--------------------------|-----------|---------------|------------------|-----------|--------|
| | | | CS | CM | CH | GS | TS | TM | RM | G |
| AGPFR/L** | Minimum machining diameter DMIN (inch) | 2 | 7.717 | 7.717 | 7.717 | 3.937 | 7.717 | - | 7.717 | 3.937 |
| | | 3 | 3.110 | 3.110 | 3.110 | 2.323 | 0.949 | 0.949 | 2.323 | 2.323 |
| | | 4 | - | 1.654 | 1.654 | 1.654 | 0.866 | 0.866 | 1.654 | 1.654 |
| | | 5 | - | 1.969 | 1.969 | 1.575 | 0.787 | 0.787 | 1.575 | 1.575 |
| | | 6 | - | 1.890 | 1.890 | 1.496 | 0.709 | 0.709 | 1.496 | 1.496 |
| Reference page | | | P175 | P176 | P177 | P178 | P179 | P179 | P180 | P182 |

1. Inserts*: ACD/ACS series are only applicable to grooving and parting off machining
2. — : Indicates that the insert is not a choice
3. Having selected the range of tool holder, please check the minimum face grooving machining diameter of the selected insert

ATPFR/L Face Grooving and Turning Holder



The diagram shows the right hand holder



| Product code | Insert Size (mm) | Dimension (inch) | | | | | | | | Spare parts | |
|-------------------|-------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|
| | | H | B | LF | LH | CDX | DAXX | DAXN | Screw | Wrench | |
| ATPFR/L | 16-3T0394-30-40 | 3 | 1.000 | 1.000 | 6.000 | 0.709 | 0.394 | 1.181 | 1.575 | SH050250 | LT-H4 |
| | 16-3T0394-35-50 | 3 | 1.000 | 1.000 | 6.000 | 0.709 | 0.394 | 1.378 | 1.969 | | |
| | 16-3T0591-45-60 | 3 | 1.000 | 1.000 | 6.000 | 0.709 | 0.591 | 1.772 | 2.362 | | |
| | 16-3T0591-55-85 | 3 | 1.000 | 1.000 | 6.000 | 0.709 | 0.591 | 2.165 | 3.346 | | |
| | 16-4T0472-25-40 | 4 | 1.000 | 1.000 | 6.000 | 0.728 | 0.472 | 0.984 | 1.575 | SH060250 | LT-H5 |
| | 16-4T0591-35-50 | 4 | 1.000 | 1.000 | 6.000 | 0.728 | 0.591 | 1.378 | 1.969 | | |
| | 16-4T0591-45-60 | 4 | 1.000 | 1.000 | 6.000 | 0.728 | 0.591 | 1.772 | 2.362 | | |
| | 16-4T0591-55-85 | 4 | 1.000 | 1.000 | 6.000 | 0.728 | 0.591 | 2.165 | 3.346 | | |
| | 16-5T0787-50-80 | 5 | 1.000 | 1.000 | 6.000 | 0.866 | 0.787 | 1.969 | 3.150 | SH080250 | LT-H6 |
| | 16-5T0787-70-110 | 5 | 1.000 | 1.000 | 6.000 | 0.866 | 0.787 | 2.756 | 4.331 | | |
| | 16-5T0787-100-150 | 5 | 1.000 | 1.000 | 6.000 | 0.866 | 0.787 | 3.937 | 5.906 | | |
| | 16-5T0787-140-200 | 5 | 1.000 | 1.000 | 6.000 | 0.866 | 0.787 | 5.512 | 7.874 | | |
| | 16-5T0787-190-000 | 5 | 1.000 | 1.000 | 6.000 | 0.866 | 0.787 | 7.480 | ∞ | SH080250 | LT-H6 |
| | 16-6T0787-50-85 | 6 | 1.000 | 1.000 | 6.000 | 0.866 | 0.787 | 1.969 | 3.346 | | |
| | 16-6T0787-75-150 | 6 | 1.000 | 1.000 | 6.000 | 0.866 | 0.787 | 2.953 | 5.906 | | |
| | 16-6T0787-140-250 | 6 | 1.000 | 1.000 | 6.000 | 0.866 | 0.787 | 5.512 | 9.843 | | |
| 16-6T0787-240-000 | 6 | 1.000 | 1.000 | 6.000 | 0.866 | 0.787 | 9.449 | ∞ | | | |

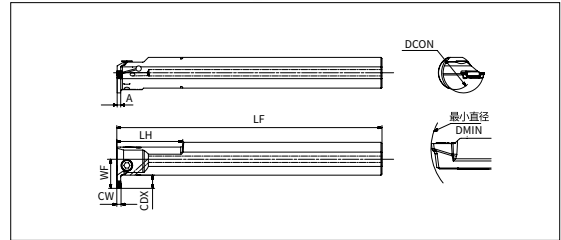
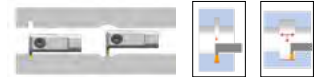
Grooving

Applicable Insert

| Application | Insert shape | Insert Size (mm) | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground |
|----------------|--------------|------------------|----------------------|--------------------------|-----------|---------------|------------------|-----------|--------|
| | | | CM | CH | GS | TS | TM | RM | G |
| ATPFR/L 16-3T | | 3 | 3.110 | 3.110 | 2.323 | 1.378 | 1.378 | 2.323 | 2.323 |
| ATPFR/L 16-4T | | 4 | 1.654 | 1.654 | 1.654 | 1.378 | 1.378 | 1.654 | 1.654 |
| ATPFR/L 16-5T | | 5 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 |
| ATPFR/L 16-6T | | 6 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 | 1.969 |
| Reference page | | | P176 | P177 | P178 | P179 | P179 | P180 | P182 |

1. Inserts*: ACD/ACS series are only applicable to grooving and parting off machining
2. Having selected the range of tool holder, please check the minimum face grooving machining diameter of the selected insert

ATPIR/L Internal Turning, Grooving and Profiling Holder



| Product code | | Dimension (inch) | | | | | | | Spare parts | |
|------------------|------------------|------------------|--------|-------|-------|-------|-------|----------|-------------|--------|
| | | DCON | LF | LH | WF | A | CDX | DMIN | Screw | Wrench |
| ATPIR/L | 0750-2T0236-25-C | 0.750 | 6.500 | 1.575 | 0.622 | 0.071 | 0.236 | 0.984 | SH050120 | LT-H4 |
| | 1000-2T0197-25-C | 1.000 | 8.000 | 1.575 | 0.689 | 0.071 | 0.197 | 0.984 | SH050160 | |
| | 1250-2T0197-30-C | 1.250 | 10.000 | 1.575 | 0.780 | 0.071 | 0.197 | 1.181 | SH050120 | |
| | 0750-3T0236-25-C | 0.750 | 6.500 | 1.575 | 0.622 | 0.094 | 0.236 | 0.984 | SH050160 | |
| | 1000-3T0197-25-C | 1.000 | 8.000 | 1.575 | 0.689 | 0.094 | 0.197 | 0.984 | SH050160 | |
| | 1000-3T0315-32-C | 1.000 | 8.000 | 1.575 | 0.846 | 0.094 | 0.315 | 1.260 | SH050160 | |
| | 1250-3T0197-30-C | 1.250 | 10.000 | 2.362 | 0.780 | 0.094 | 0.197 | 1.181 | SH050160 | |
| | 1250-3T0394-40-C | 1.250 | 8.000 | 2.362 | 1.063 | 0.094 | 0.394 | 1.575 | SH050160 | |
| | 1500-3T0472-50-C | 1.500 | 12.000 | 2.559 | 1.299 | 0.094 | 0.472 | 1.969 | SH050160 | |
| | 0750-4T0236-25-C | 0.750 | 6.500 | 1.575 | 0.622 | 0.132 | 0.236 | 0.984 | SH050120 | |
| | 1000-4T0197-25-C | 1.000 | 8.000 | 1.575 | 0.689 | 0.132 | 0.197 | 0.984 | SH050160 | |
| | 1000-4T0315-32-C | 1.000 | 8.000 | 1.575 | 0.846 | 0.132 | 0.315 | 1.260 | SH050160 | |
| | 1250-4T0197-30-C | 1.250 | 10.000 | 2.362 | 0.819 | 0.132 | 0.197 | 1.181 | SH060160 | LT-H5 |
| | 1250-4T0394-40-C | 1.250 | 10.000 | 2.362 | 1.063 | 0.132 | 0.394 | 1.575 | SH060160 | |
| | 1500-4T0472-50-C | 1.500 | 12.000 | 2.559 | 1.299 | 0.132 | 0.472 | 1.969 | SH060160 | |
| | 2000-4T0551-60-C | 2.000 | 14.000 | 2.756 | 1.575 | 0.132 | 0.551 | 2.362 | SH060200 | |
| | 1000-5T0197-31-C | 1.000 | 8.000 | 1.575 | 0.681 | 0.171 | 0.197 | 1.220 | SH060160 | |
| | 1250-5T0197-31-C | 1.250 | 10.000 | 2.362 | 0.819 | 0.171 | 0.197 | 1.220 | SH060200 | |
| | 1250-5T0394-40-C | 1.250 | 10.000 | 2.362 | 1.063 | 0.171 | 0.394 | 1.575 | SH060200 | |
| | 1500-5T0472-50-C | 1.500 | 12.000 | 2.559 | 1.299 | 0.171 | 0.472 | 1.969 | SH060250 | |
| 2000-5T0551-60-C | 2.000 | 14.000 | 2.756 | 1.575 | 0.171 | 0.551 | 2.362 | SH060250 | | |
| 1250-6T0197-31-C | 1.250 | 10.000 | 2.362 | 0.819 | 0.211 | 0.197 | 1.220 | SH060200 | | |
| 1250-6T0394-40-C | 1.250 | 10.000 | 2.362 | 1.063 | 0.211 | 0.394 | 1.575 | SH060200 | | |
| 1500-6T0472-50-C | 1.500 | 12.000 | 2.559 | 1.299 | 0.211 | 0.472 | 1.969 | SH060250 | | |
| 2000-6T0551-60-C | 2.000 | 14.000 | 2.756 | 1.575 | 0.211 | 0.551 | 2.362 | SH060250 | | |
| 1250-8T0236-38-C | 1.250 | 10.000 | 2.362 | 0.839 | 0.244 | 0.236 | 1.496 | SH060200 | | |
| 1500-8T0236-42-C | 1.500 | 12.000 | 2.559 | 1.016 | 0.244 | 0.236 | 1.654 | SH060250 | | |

Applicable Insert

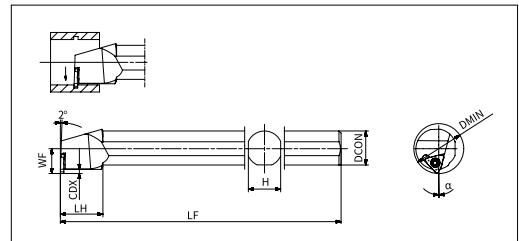
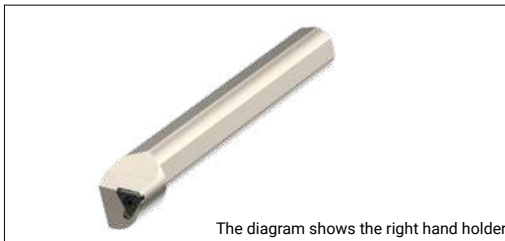
| Application | Insert shape | Insert Size (mm) | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground |
|----------------|--------------|------------------|----------------------|--------------------------|-----------|---------------|------------------|-----------|--------|
| | | | CM | CH | GS | TS | TM | RM | G |
| ATPIR/L **-2T | | 2 | - | - | 0.984 | 0.984 | 0.984 | - | 0.984 |
| ATPIR/L **-3T | | 3 | 1.969 | 1.969 | 0.984 | 0.984 | 0.984 | 0.984 | 0.984 |
| ATPIR/L **-4T | | 4 | 1.969 | 1.969 | 0.984 | 0.984 | 0.984 | 0.984 | 0.984 |
| ATPIR/L **-5T | | 5 | 1.969 | 1.969 | 1.221 | 1.221 | 1.221 | 1.221 | 1.221 |
| ATPIR/L **-6T | | 6 | 1.969 | 1.969 | 1.221 | 1.221 | 1.221 | 1.221 | 1.221 |
| ATPIR/L **-8T | | 8 | - | - | - | 1.496 | 1.496 | 1.496 | 1.496 |
| Reference page | | | P176 | P177 | P178 | P179 | P179 | P180 | P182 |

1. Inserts*: ACD/ACS series are only applicable to grooving and parting off machining
2. - : Indicates that the insert is not a choice
3. Having selected the range of tool holder, please check the minimum face grooving machining diameter of the selected insert

ATGI Tool Holder Denomination System

| | | | | | | | | | | |
|---|---------------|---|---------------|---|------------------|---|----------------|-------------------------------------|----------------|------------------|
| A 1 | T 2 | G 3 | I 4 | R 5 | 1000 6 | S 7 | 43 8 | - - | 40 9 | T30 10 |
| 1-Company Name ACHTECK | | 2-Matching Insert Type T Triangular | | 3-Application G Grooving | | 4-Holder Type I Internal machining | | 5-Hand of Tool L Left R Right | | |
| 6-Holder Size 25=0.984inch 32=1.260inch | | 7-Holder Length R:8.661inch S:9.843inch | | 8-Matching Insert Size (IC) 43=0.500inch | | 9-Minimum Internal Machining Diameter 40=1.575inch | | 10-Maximum Ap T30=0.118inch | | |

ATGIR/L Internal Grooving Holder



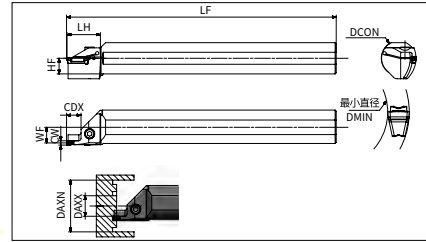
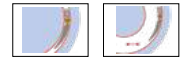
| Product code | | Dimension (inch) | | | | | | Spare parts | |
|----------------|-----------------|------------------|-------|-------|-------|-------|-------|-------------|---------|
| | | DMIN | DCON | LF | LH | WF | CDX | Screw | Wrench |
| ATGIR/L | 1000R32-35T0110 | 1.378 | 1.000 | 8.661 | 1.181 | 0.689 | 0.110 | SP040085 | FT-TP15 |
| | 1250S43-40T0118 | 1.575 | 1.250 | 9.843 | 1.181 | 0.906 | 0.118 | SP05008550 | FT-TP20 |

Applicable Insert

| Application | Grooving | Profiling |
|---------------------|----------|-----------|
| Insert shape | | |
| Product code | | |
| ATGIR/L** 32 | ATG 32 | ATG 32 |
| ATGIR/L** 43 | ATG 43 | ATG 43 |
| Reference page | P173 | P174 |

Grooving

ATSIR/L Internal Facing Grooving and Turning Holder



| Product code | | Dimension (inch) | | | | | | | | Spare parts | |
|--------------|----------------------|------------------|--------|-------|-------|-------|-------|-------|-------|-------------|--------|
| | | DCON | LF | LH | WF | A | CDX | DMIN | DMAX | Screw | Wrench |
| ATSIR/L | 1000-3T0472-35-45-C | 1.000 | 8.000 | 1.220 | 0.453 | 0.453 | 0.472 | 1.378 | 1.772 | SH050160 | LT-H4 |
| | 1000-3T0472-40-60-C | 1.000 | 8.000 | 1.220 | 0.453 | 0.453 | 0.472 | 1.575 | 2.362 | | |
| | 1000-3T0472-55-90-C | 1.000 | 8.000 | 1.220 | 0.453 | 0.453 | 0.472 | 2.165 | 3.543 | | |
| | 1000-3T0472-80-150-C | 1.000 | 8.000 | 1.220 | 0.453 | 0.453 | 0.472 | 3.150 | 5.906 | | |
| | 1000-4T0472-20-35-C | 1.000 | 8.000 | 1.220 | 0.433 | 0.453 | 0.472 | 0.787 | 1.378 | | |
| | 1000-4T0472-28-45-C | 1.000 | 8.000 | 1.220 | 0.433 | 0.453 | 0.472 | 1.102 | 1.772 | | |
| | 1000-4T0472-35-55-C | 1.000 | 8.000 | 1.220 | 0.433 | 0.453 | 0.472 | 1.378 | 2.165 | | |
| | 1250-4T0472-45-70-C | 1.250 | 10.000 | 1.220 | 0.571 | 0.591 | 0.472 | 1.772 | 2.756 | | |
| | 1250-4T0472-60-100-C | 1.250 | 10.000 | 1.220 | 0.571 | 0.591 | 0.472 | 2.362 | 3.937 | | |
| | 1250-4T0472-90-180-C | 1.250 | 10.000 | 1.220 | 0.571 | 0.591 | 0.472 | 3.543 | 7.087 | | |

Applicable Insert

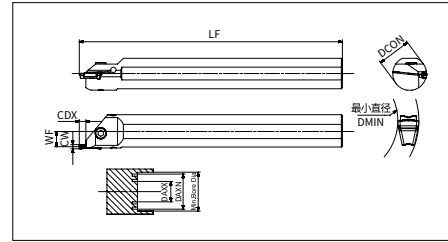
| Application | Insert shape | Insert Size (mm) | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground |
|---------------------|---------------------------------------|------------------|----------------------|--------------------------|-----------|---------------|------------------|-----------|--------|
| | | | CM | CH | GS | TS | TM | RM | G |
| Product code | Minimum machining diameter DMIN(inch) | | | | | | | | |
| ATSIR/L **3T | | 3 | 3.15 | 3.15 | 2.323 | 1.378 | 1.378 | 2.323 | 2.323 |
| ATSIR/L **4T | | 4 | 1.654 | 1.654 | 1.654 | 0.866 | 0.866 | 1.654 | 1.654 |
| Reference page | | | P176 | P177 | P175 | P179 | P179 | P180 | P182 |

1. Inserts*: ACD/ACS series are only applicable to grooving and parting off machining
2. Having selected the range of tool holder, please check the minimum face grooving machining diameter of the selected insert

AGSIR/L Internal Facing Grooving and Turning Holder



The diagram shows the right hand holder



| Product code | | Insert Size(mm) | Dimension (inch) | | | | | Spare parts | |
|----------------|----------------------|-----------------|------------------|--------|-------|-------|-------|-------------|--------|
| | | | DCON | LF | LH | WF | CDX | Screw | Wrench |
| AGSIR/L | 1000-4T0228-C | 2,3,4 | 1.000 | 8.000 | 0.484 | 0.429 | 0.228 | SH060160 | LT-H5 |
| | 1000-6T0228-C | 5,6 | 1.000 | 8.000 | 0.484 | 0.406 | 0.228 | | |
| | 1250-4T0228-C | 2,3,4 | 1.250 | 10.000 | 0.622 | 0.571 | 0.228 | | |
| | 1250-6T0228-C | 5,6 | 1.250 | 10.000 | 0.622 | 0.543 | 0.228 | | |

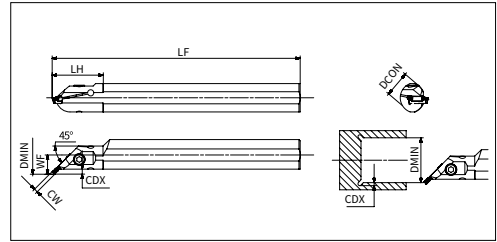
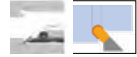
Applicable Insert

| Application | Insert Shape | Low feed rate | Low-Medium feed rate | Medium to high feed rate | Finishing | Low feed rate | Medium feed rate | Profiling | Ground |
|------------------|--------------|---------------|----------------------|--------------------------|-----------|---------------|------------------|-----------|--------|
| | | CS | CM | CH | GS | TS | TM | RM | G |
| AGSIR/L** | 2 | 7.717 | 7.717 | 7.717 | 3.937 | 7.717 | - | 7.717 | 3.937 |
| | 3 | 3.110 | 3.110 | 3.110 | 2.323 | 0.949 | 0.949 | 2.323 | 2.323 |
| | 4 | - | 1.654 | 1.654 | 1.654 | 0.866 | 0.866 | 1.654 | 1.654 |
| | 5 | - | 1.969 | 1.969 | 1.575 | 0.787 | 0.787 | 1.575 | 1.575 |
| | 6 | - | 1.890 | 1.890 | 1.496 | 0.709 | 0.709 | 1.496 | 1.496 |
| Reference page | | P175 | P176 | P177 | P178 | P179 | P179 | P180 | P182 |

1. Inserts*: ACD/ACS series are only applicable to grooving and parting off machining
2. - : Indicates that the insert is not a choice
3. Having selected the range of tool holder, please check the minimum face grooving machining diameter of the selected insert

Grooving

AGUIR/L Internal Undercutting holder



| Product code | | Insert Size(mm) | Dimension (inch) | | | | | | Spare parts | |
|----------------|-----------------------|-----------------|------------------|-------|-------|-------|-------|-------|-------------|--------|
| | | | DCON | LF | LH | WF | CDX | DIMN | Screw | Wrench |
| AGUIR/L | 0750-3T0118-45 | 3 | 0.750 | 6.000 | 1.575 | 0.484 | 0.118 | 1.772 | SH050120 | LT-H4 |
| | 0750-4T0118-45 | 4 | 0.750 | 6.000 | 1.575 | 0.484 | 0.118 | 1.772 | | |
| | 0750-3T0118-45 | 3 | 1.000 | 8.000 | 1.575 | 0.567 | 0.118 | 1.772 | SH050160 | |
| | 1000-4T0118-45 | 4 | 1.000 | 8.000 | 1.575 | 0.567 | 0.118 | 1.772 | | |
| | 1000-6T0118-45 | 5,6 | 1.000 | 8.000 | 1.575 | 0.567 | 0.118 | 1.772 | SH060160 | |

Applicable Insert

| Application | Profiling | Ground Profiling | Ground |
|------------------|-----------------------------|-----------------------------|-------------------------------|
| Insert shape | RM | RA | G |
| Product code | | | |
| AGUER/L** | ATD 315 ATD 630 | ATD 315 ATD 630 | ATD 300E ATD 600E |
| Reference page | P180 | P180 | P182 |

Grooving Grade Description

Grade for Parting off and Grooving

P

Steel, cast steel, long chipping malleable cast iron.

Basic grade

AP301U P25(P15-P35)

PVD coated grade, suitable for steel, stainless steel and heat resistant alloy grooving. High strength and wear resistant submicron carbide substrate with nanostructured PVD coating. Good coating adhesion, high wear resistance.

AC230P P20(P10-P30)

CVD coated grade. It's mainly used in steel, grey cast iron and nodular cast iron grooving, turning and profiling under high cutting speed. High toughness and wear resistant substrate combined with nano-structured coating offered good wear resistance, coating adhesion, machining stability and longer tool life.

Supplemental grade

AP330M P35(P25-P45)

Brand new PVD coated grade. Suitable for stainless steel and steel finish, semi-finish and rough grooving. It's the 1st choice for stainless steel turning, and good for steel turning as well. It has high thermal stability, wear resistance, and excellent thermal crack resistance. Enriched cobalt superfine grain substrate offers high hardness and good anti shock capability which reduces the edge chipping problem.

M

Austenitic/ferrite/martensite, cast iron, manganese steel, alloyed cast iron, malleable cast iron, free cutting iron

Basic grade

AP330M M35(M25-M45)

Brand new PVD coated grade. Suitable for stainless steel and steel finish, semi-finish and rough grooving. It's the 1st choice for stainless steel turning, and good for steel turning as well. It has high thermal stability, wear resistance, and excellent thermal crack resistance. Enriched cobalt superfine grain substrate offers high hardness and good anti shock capability which reduces the edge chipping problem.

Supplemental grade

AP301U M20(M15-M35)

PVD coated grade. Suitable for steel, stainless steel and heat resistant alloy grooving. High strength and wear resistant submicron carbide substrate with nanostructured PVD coating. Good coating adhesion, high wear resistance.

N

Non-ferrous metal

Basic grade

AW100K N15 (N05-N25)

Uncoated ultra-fine grain substrate, specially treated cutting edge, suitable for aluminum alloy grooving.