# E**-SCLCR/L

## ZANHO Cutting Tools



E□□-SCLC□

Solid Carbide Anti-Vibration Boring Bar

## Feature

ZANHO **E-SCLCR/L series**: High-precision **internal coolant** solid tungsten steel boring bars. Featuring an integrated **coolant-through** design, these bars provide superior chip evacuation and

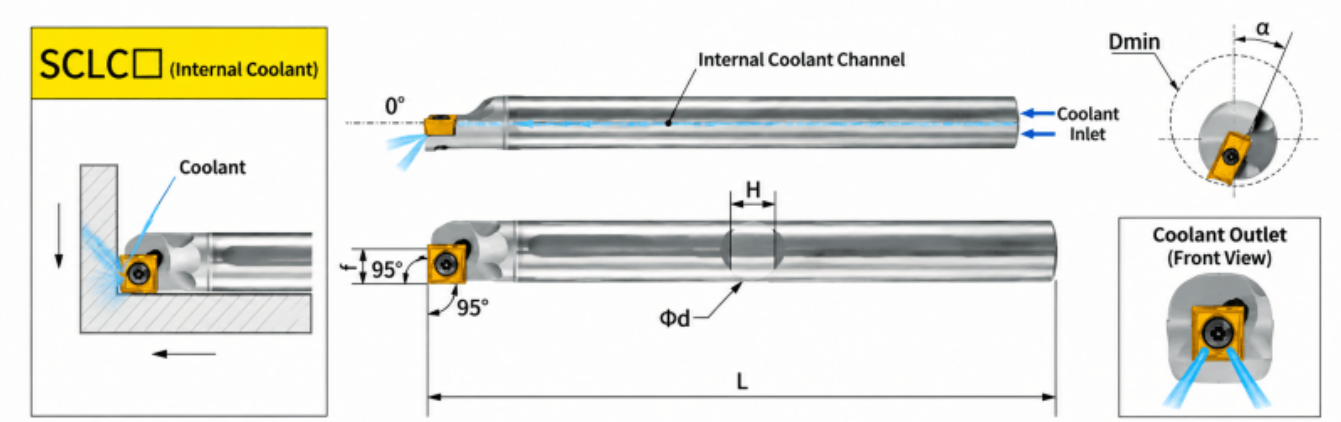
temperature control directly at the cutting edge. Crafted from solid carbide for maximum rigidity and **anti-vibration** performance, they are the ultimate choice for high-accuracy deep hole boring in challenging materials.

# Descriptions

### Technical Advantages (Internal Coolant Type)

- **Integrated Internal Coolant:** Delivers high-pressure coolant directly to the cutting zone, ensuring superior chip evacuation in deep holes.
- **Maximum Thermal Control:** Effectively reduces heat build-up at the edge, significantly extending insert life and improving surface finish.
- **Solid Tungsten Steel Rigidity:** Solid carbide shank offers the highest level of vibration dampening for high-precision boring.
- **Deep Hole Excellence:** Optimized for boring depths where standard bars fail due to chip accumulation or heat.
- **Precision Through-Hole:** Precision-drilled internal channel maintains consistent coolant pressure throughout the bar.

### E-SCLCR/L Series Dimensions (mm) - Internal Coolant




| Model | | Dimensions (mm) | | | | | Accessories | | |
|---|---|---|---|---|---|---|---|---|---|
| Left | Right | Dmin | ?d | L | H | f | Insert | Screw | Wrench |
| E04H-SCLCL03 | E04H-SCLCR03 | 5 | 4 | 100 | 3.7 | 2.5 | CC??0301?? | M1.6x4 | T6 |
| E05H-SCLCL03 | E05H-SCLCR03 | 6 | 5 | 100 | 4.4 | 3 | | | |
| E06K-SCLCL03 | E06K-SCLCR03 | 7 | 6 | 125 | 5.2 | 3.5 | | | |

| Model | | Dimensions (mm) | | | | | Accessories | | |
|---|---|---|---|---|---|---|---|---|---|
| Left | Right | Dmin | ?d | L | H | f | Insert | Screw | Wrench |
| E05H-SCLCL04 | E05H-SCLCR04 | 6 | 5 | 100 | 4.4 | 3 | CC??04T1?? | M2x4 | T6 |
| E06K-SCLCL04 | E06K-SCLCR04 | 7 | 6 | 125 | 5.2 | 3.5 | | | |
| E07K-SCLCL04 | E07K-SCLCR04 | 8 | 7 | 125 | 6.2 | 4 | | | |
| E08K-SCLCL04 | E08K-SCLCR04 | 9 | 8 | 125 | 7 | 4.5 | | | |
| E10K-SCLCL04 | E10K-SCLCR04 | 11 | 10 | 125 | 9 | 5.5 | | | |
| E06K-SCLCL06 | E06K-SCLCR06 | 9 | 6 | 125 | 5.2 | 4.5 | CC??0602?? | M2.5x6 | T8 |
| E07K-SCLCL06 | E07K-SCLCR06 | 9 | 7 | 125 | 6.2 | 4.5 | | | |
| E08K-SCLCL06 | E08K-SCLCR06 | 10 | 8 | 125 | 7 | 4.6 | | | |
| E10K-SCLCL06 | E10K-SCLCR06 | 12 | 10 | 125 | 9 | 5.6 | | | |
| E12M-SCLCL06 | E12M-SCLCR06 | 14 | 12 | 150 | 11 | 7 | | | |
| E14N-SCLCL06 | E14N-SCLCR06 | 16 | 14 | 160 | 13 | 8 | | | |
| E16Q-SCLCL06 | E16Q-SCLCR06 | 18 | 16 | 180 | 14.8 | 9 | | | |
| E20R-SCLCL06 | E20R-SCLCR06 | 23 | 20 | 200 | 18.6 | 11.5 | | | |
| E08K-SCLCL09 | E08K-SCLCR09 | 13 | 8 | 125 | 7 | 7.5 | CC??09T3?? | M4x6 | T15 |
| E10K-SCLCL09 | E10K-SCLCR09 | 13 | 10 | 125 | 9 | 7 | | | |
| E12M-SCLCL09 | E12M-SCLCR09 | 14 | 12 | 150 | 11 | 7 | | M4x8 | |
| E14N-SCLCL09 | E14N-SCLCR09 | 16 | 14 | 160 | 13 | 8.2 | | | |
| E16Q-SCLCL09 | E16Q-SCLCR09 | 18 | 16 | 180 | 14.8 | 9 | | | |
| E18Q-SCLCL09 | E18Q-SCLCR09 | 20 | 18 | 180 | 16.6 | 10 | | | |
| E20R-SCLCL09 | E20R-SCLCR09 | 23 | 20 | 200 | 18.6 | 11.5 | | | |
| E25S-SCLCL09 | E25S-SCLCR09 | 29 | 25 | 250 | 23 | 14.5 | | M4x10 | |

| Model | | Dimensions (mm) | | | | | Accessories | | |
|---|---|---|---|---|---|---|---|---|---|
| Left | Right | Dmin | ?d | L | H | f | Insert | Screw | Wrench |
| E32T-SCLCL09 | E32T-SCLCR09 | 38 | 32 | 300 | 30 | 20 | | | |
| E40T-SCLCR09 | E40T-SCLCR09 | 46 | 40 | 300 | 37 | 24 | | | |
| E20R-SCLCL12 | E20R-SCLCR12 | 24 | 20 | 200 | 18.6 | 12 | CC??1204?? | M5x10 | T20 |
| E25S-SCLCL12 | E25S-SCLCR12 | 29 | 25 | 250 | 23 | 14.5 | | M5x12 | |
| E32T-SCLCL12 | E32T-SCLCR12 | 38 | 32 | 300 | 30 | 20 | | | |
| E40T-SCLCL12 | E40T-SCLCR12 | 46 | 40 | 300 | 37 | 24 | | | |

# HOW TO READ A TOOLHOLDER MODEL NUMBER

## Example: E12M – SCLCR 09

| E | 12 | M | – | S | C | L | C | R | 09 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | | 4 | 5 | 6 | 7 | 8 | 9 |

### 1 Toolholder Material

- **C:** Cemented Carbide
- **E:** Carbide Steel (Tungsten Steel) (With Coolant Hole)
- **S:** Steel

### 2 Shank Diameter

Toolholder shank diameter (mm)

### 7 Insert Clearance Angle




### 8 Cutting Direction

- **R:** Right-hand
- **L:** Left-hand

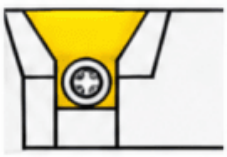
### 9 Cutting Edge Length

Insert cutting edge length

### 3 Toolholder Length (mm)

| | |
|---|---|
| **H:** 100 | **J:** 110 |
| **K:** 125 | **M:** 150 |
| **N:** 160 | **Q:** 180 |
| **R:** 200 | **S:** 250 |
| **T:** 300 | **U:** 350 |

### 4 Clamping Method



**S:** Screw Clamping

### 5 Insert Shape




**C:** Rhombic Insert (80°)

### 6 Toolholder Angle







*Tooling for a Better Tomorrow*