

# NEW PRODUCT NEWS

**MEGA**  
TECH  
METAL WORK CO.,LTD

Member IMC Group



N-Swiss JOINT

## N-Swiss JOINT

Modular Type I Quick-change tool series for automatic lathes



Reduces tool change and set-up times.

The easy-to-use mechanism makes it easy for anyone to achieve consistent repeatability

*CERtainly* [but not only] *CERamics*  
Outstanding solutions for demanding applications

## N-Swiss JOINT



All application heads can be mounted on the same shank and shared.  
The wide range of uses significantly improves work efficiency.

## N-Swiss JOINT

Modular Type | Quick-change tool series for automatic lathes

## N-Swiss JOINT

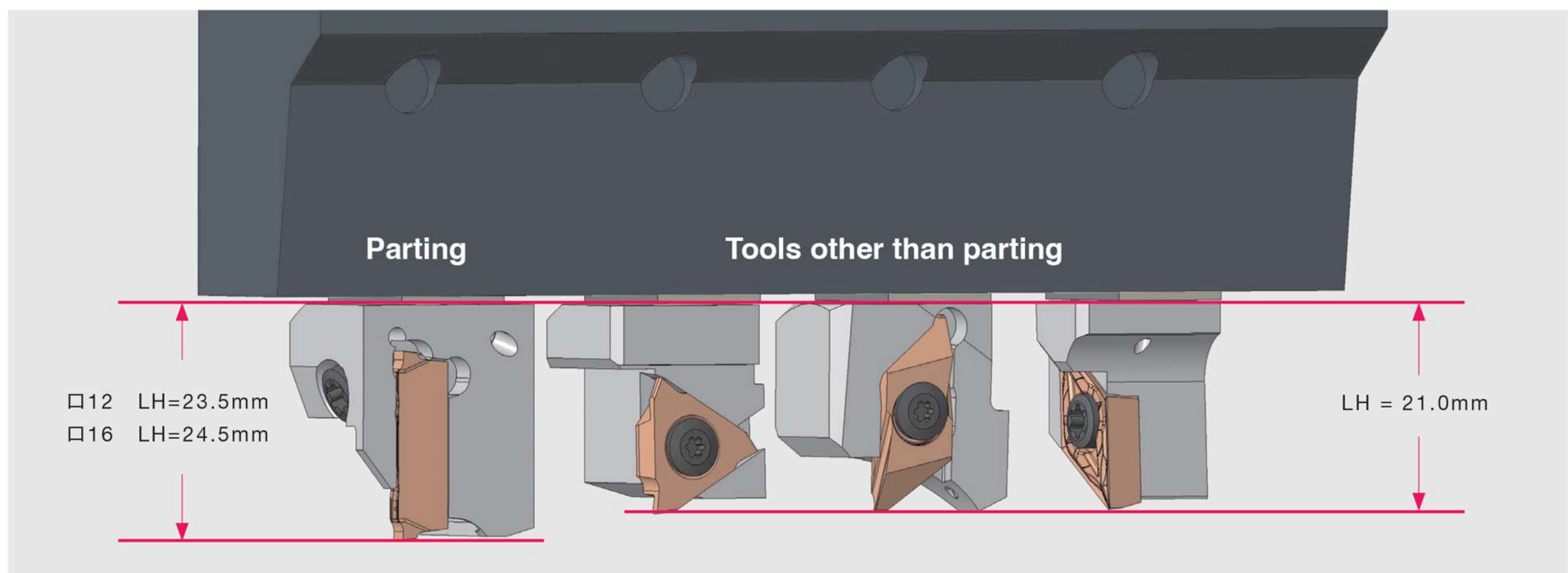


\*The head, shank, and insert corner are identical during measurement.

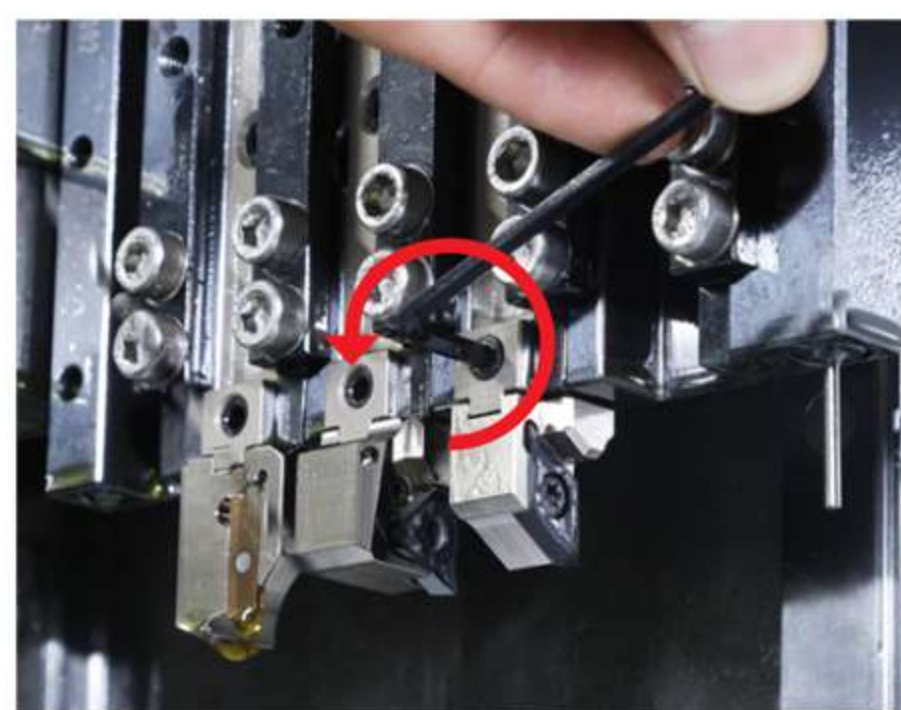


### Standardization of head sizes

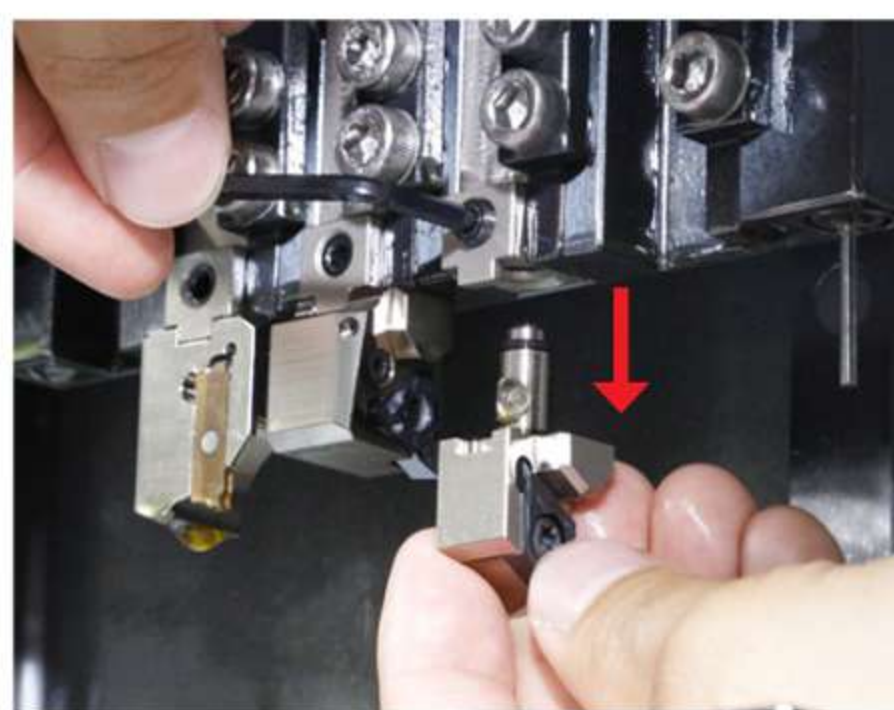
All heads are set to have the same cutting edge position  
(The shank size and numerical values for parting tools and other tools differ)



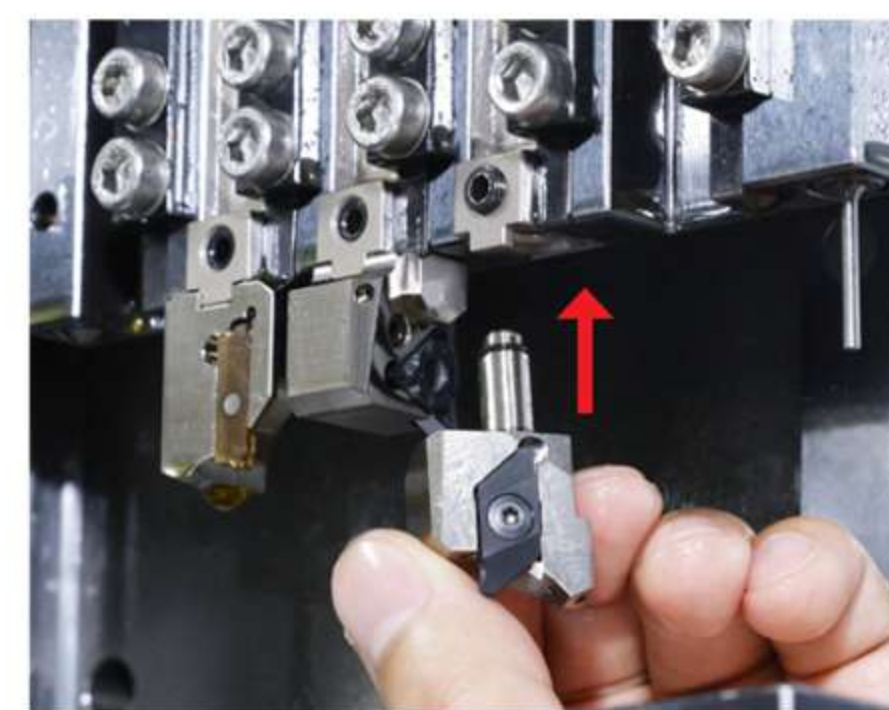
### Attachment / Detachment Method



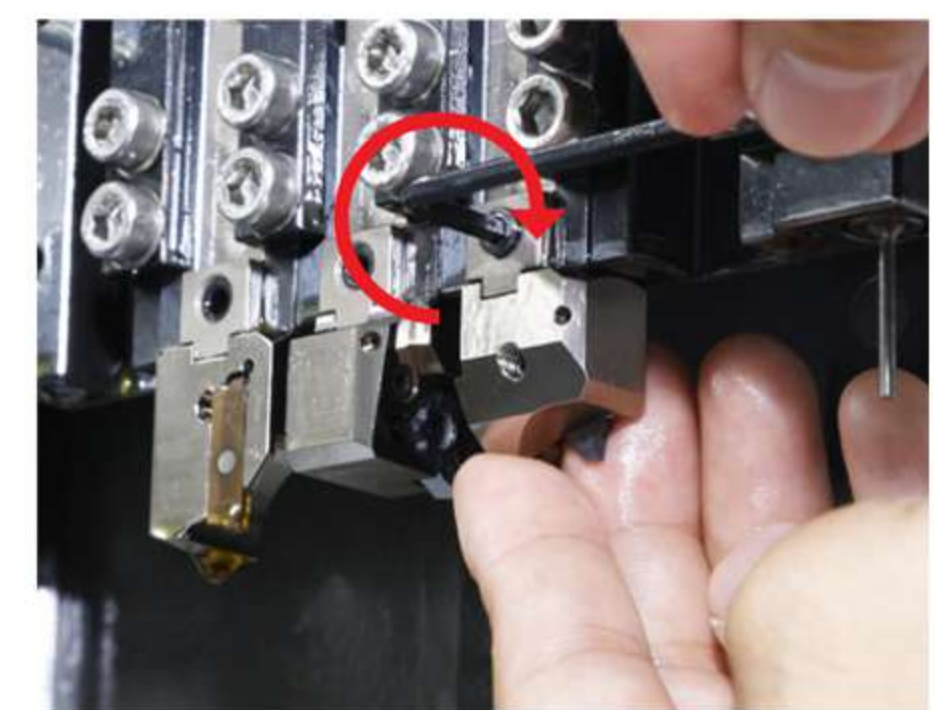
① Loosen the screw



② The head can be removed without fully detaching the screw



③ Insert the head with the replaced insert.



④ Tighten the screw on the side while holding the head.



⑤ Tool replacement completed.

## N-Swiss JOINT

### | Line up

### Shanks



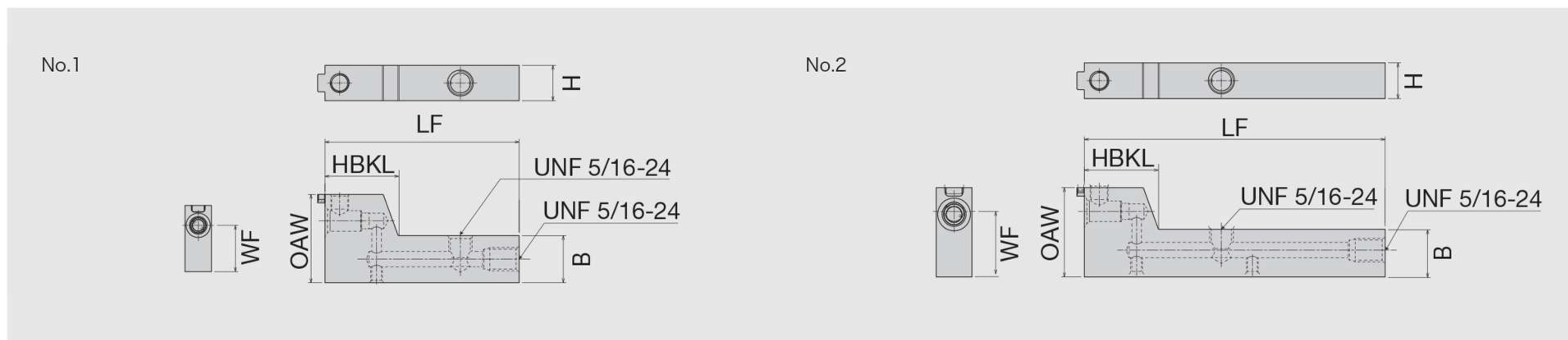
| Item Number                 | Internal coolant | H  | B  | LF  | OAW | Torque * | Figure |
|-----------------------------|------------------|----|----|-----|-----|----------|--------|
| QC-1212F-OH                 |                  | 12 | 12 | 65  | 15  | 3        | 1      |
| QC-1212X-OH2 <sup>(1)</sup> |                  | 12 | 12 | 100 | 15  | 3        | 2      |

<sup>(1)</sup> OH2 :Compatible with direct coolant supply from the machine's tool post to the tool.

\*Torque : Recommended clamping torque (N·m)

### Spare parts

| Item Number  | Screw      | Screw    | Screw       | Wrench | Wrench | Wrench |
|--------------|------------|----------|-------------|--------|--------|--------|
| QC-1212F-OH  | M6*0.5-TSC | -        | 5/16UNF-TSC | -      | TR-3   | TR-4   |
| QC-1212X-OH2 | M6*0.5-TSC | SSM4*6-T | 5/16UNF-TSC | TR-2   | TR-3   | TR-4   |



| Type             | Item Number                     | Internal coolant | H  | B  | LF  | OAW | WF | HBKL | Torque * | Figure |
|------------------|---------------------------------|------------------|----|----|-----|-----|----|------|----------|--------|
| 15mm Shift Shank | QC-1216F-F15-OH                 |                  | 12 | 16 | 65  | 30  | 21 | 25   | 3        | 1      |
| 15mm Shift Shank | QC-1216X-F15-OH2 <sup>(1)</sup> |                  | 12 | 16 | 100 | 30  | 21 | 25   | 3        | 2      |

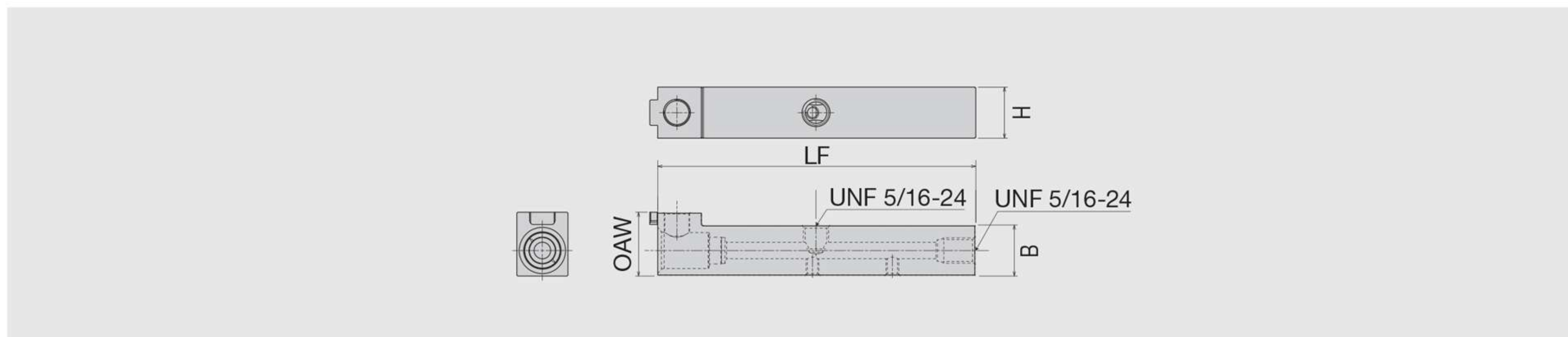
Shift Shank : By shifting the cutting edge position, machining can be performed without the workpiece detaching from the guide bush. This makes it easier for coolant to reach the cutting point, improving chip control.

<sup>(1)</sup> OH2 :Compatible with direct coolant supply from the machine's tool post to the tool.

\*Torque : Recommended clamping torque (N·m)

### Spare parts

| Item Number      | Screw      | Screw    | Screw       | Wrench | Wrench | Wrench |
|------------------|------------|----------|-------------|--------|--------|--------|
| QC-1216F-F15-OH  | M6*0.5-TSC | -        | 5/16UNF-TSC | -      | TR-3   | TR-4   |
| QC-1216X-F15-OH2 | M6*0.5-TSC | SSM4*6-T | 5/16UNF-TSC | TR-2   | TR-3   | TR-4   |



| Type  | Item Number                 | Internal coolant | H  | B  | LF | OAW | Torque * |
|-------|-----------------------------|------------------|----|----|----|-----|----------|
| Shank | QC-1616X-OH2 <sup>(1)</sup> |                  | 16 | 16 | 99 | 20  | 8.5      |

<sup>(1)</sup> OH2 :Compatible with direct coolant supply from the machine's tool post to the tool.

\*Torque : Recommended clamping torque (N·m)

### Spare parts

| Item Number  | Screw      | Screw    | Screw       | Wrench | Wrench | Wrench |
|--------------|------------|----------|-------------|--------|--------|--------|
| QC-1616X-OH2 | M8*0.5-TSC | SSM4*6-T | 5/16UNF-TSC | TR-2   | TR-4   | TR-5   |

## N-Swiss JOINT

### Heads

**Front turning**

| Item Number         | Internal coolant | H  | B  | LH   | HF | WF  | Insert     | Applicable shank size |
|---------------------|------------------|----|----|------|----|-----|------------|-----------------------|
| QC12-SDJCR11-F02-OH |                  | 12 | 12 | 21.0 | 12 | 2.0 | DC..11T3.. | QC-12..               |

**Front turning**

| Item Number         | Internal coolant | H  | B  | LH   | HF | WF  | Insert     | Applicable shank size |
|---------------------|------------------|----|----|------|----|-----|------------|-----------------------|
| QC12-SCLCR09-F02-OH |                  | 12 | 12 | 21.0 | 12 | 2.0 | CC..09T3.. | QC-12..               |

**Front turning**

| Item Number         | Internal coolant | H  | B  | LH   | HF | WF  | Insert     | Applicable shank size |
|---------------------|------------------|----|----|------|----|-----|------------|-----------------------|
| QC12-SVJCR11-F02-OH |                  | 12 | 12 | 21.0 | 12 | 2.0 | VC..1103.. | QC-12..               |

### Spare parts



| Item Number         | O-Rings   | Screw      | Wrench  | Wrench  |
|---------------------|-----------|------------|---------|---------|
| QC12-SDJCR11-F02-OH | OR-450*10 | LRIS-4*10  | LLR-25S | -       |
| QC12-SCLCR09-F02-OH | OR-450*10 | LRIS-4*10  | LLR-25S | -       |
| QC12-SVJCR11-F02-OH | OR-450*10 | LRIS-2.5*7 | -       | CLR-15S |

**Front turning**

| Item Number     | Internal coolant | H  | B  | LH   | HF | WF  | Insert     | Applicable shank size |
|-----------------|------------------|----|----|------|----|-----|------------|-----------------------|
| QC12-PTXNR16-OH |                  | 12 | 12 | 21.0 | 12 | 0.0 | TN..1604.. | QC-12..               |

### Spare parts

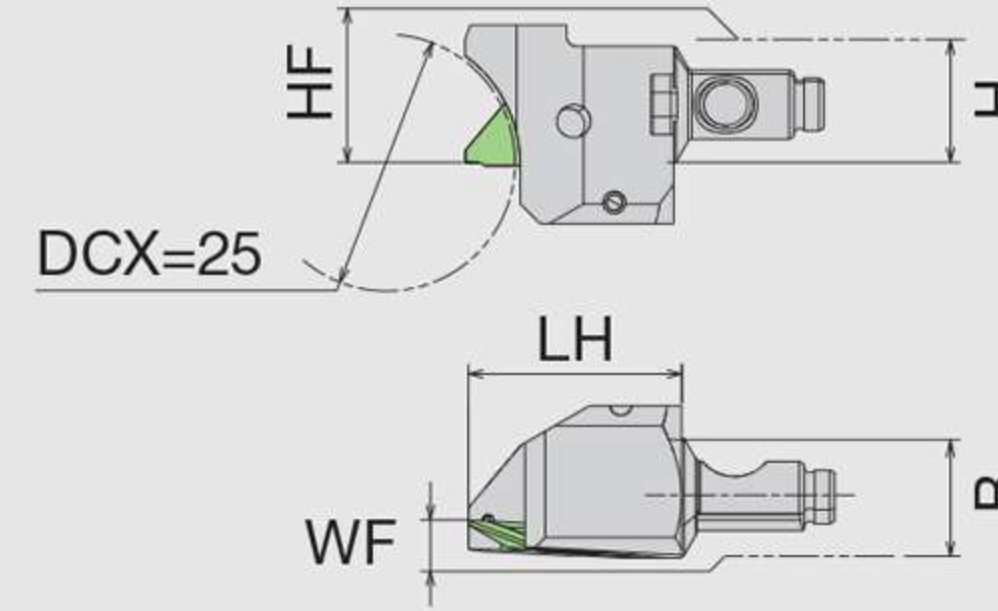
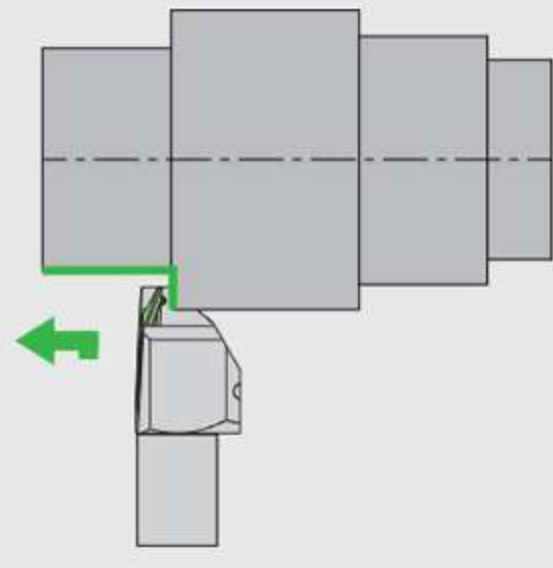


| Item Number     | O-Rings   | Lever  | Screw | Wrench |
|-----------------|-----------|--------|-------|--------|
| QC12-PTXNR16-OH | OR-450*10 | LCL33N | LCS33 | LW-2   |

## N-Swiss JOINT

### Heads

#### Back Turning



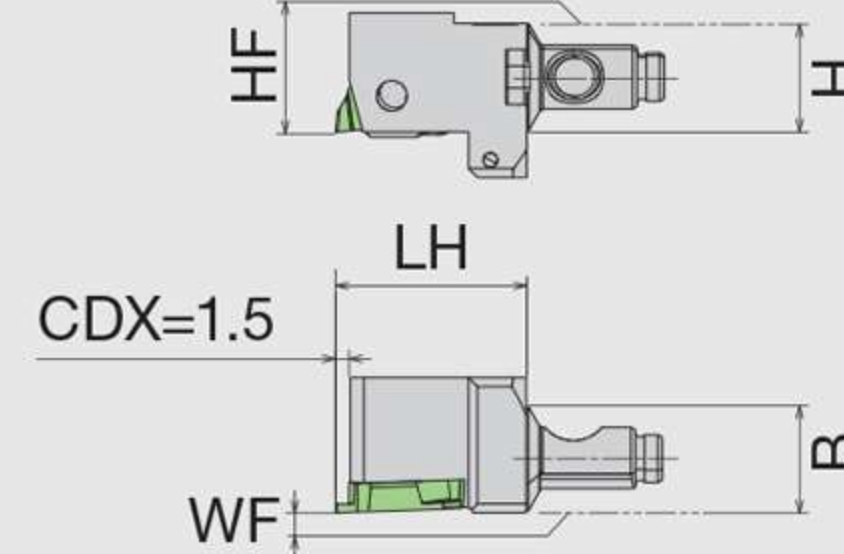
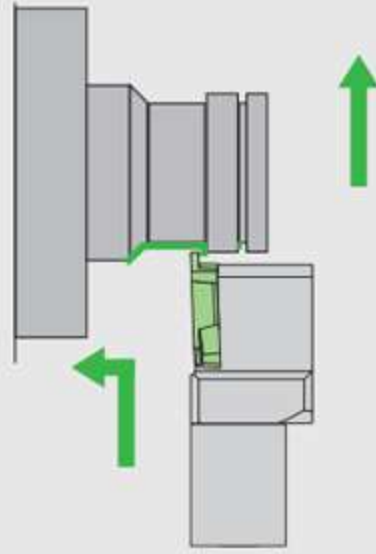
| Item Number  | Internal coolant | H  | B  | LH   | HF | WF  | Insert   | Applicable shank size |
|--------------|------------------|----|----|------|----|-----|----------|-----------------------|
| QC12-TBPR-OH |                  | 12 | 12 | 21.0 | 12 | 3.5 | TBP..R.. | QC-12..               |

#### Spare parts



| Item Number  | O-Rings   | Screw       | Wrench  |
|--------------|-----------|-------------|---------|
| QC12-TBPR-OH | OR-450*10 | LRIS-4*12PW | CLR-15S |

#### Grooving



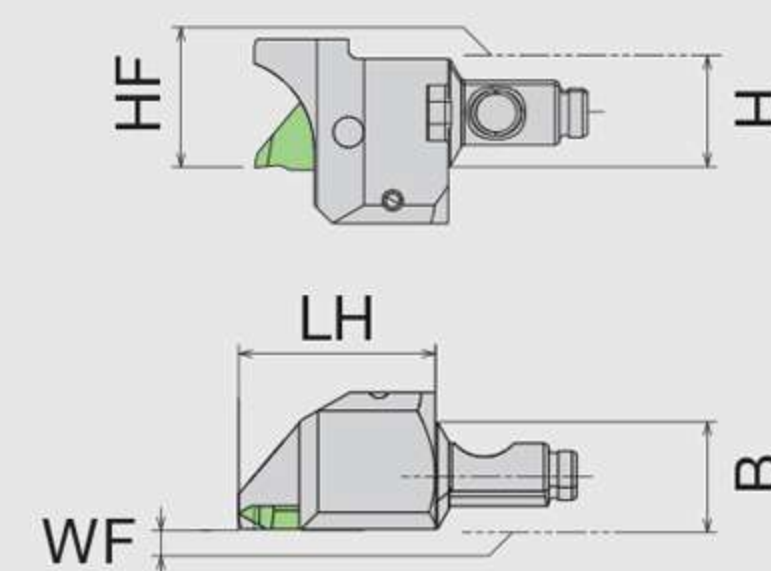
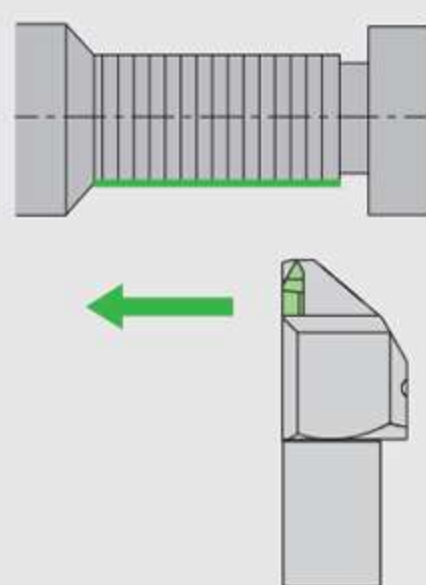
| Item Number    | Internal coolant | H  | B  | LH   | HF | WF  | Insert      | Applicable shank size |
|----------------|------------------|----|----|------|----|-----|-------------|-----------------------|
| QC12-GTTR00-OH |                  | 12 | 12 | 21.0 | 12 | 0.0 | GT..32..R.. | QC-12..               |

#### Spare parts



| Item Number    | O-Rings   | Screw       | Wrench  |
|----------------|-----------|-------------|---------|
| QC12-GTTR00-OH | OR-450*10 | LR-S-4*10PW | CLR-15S |

#### Threading



| Item Number  | Internal coolant | H  | B  | LH   | HF | WF  | Insert  | Applicable shank size |
|--------------|------------------|----|----|------|----|-----|---------|-----------------------|
| QC12-TTPR-OH |                  | 12 | 12 | 21.0 | 12 | 0.2 | TTP..R. | QC-12..               |

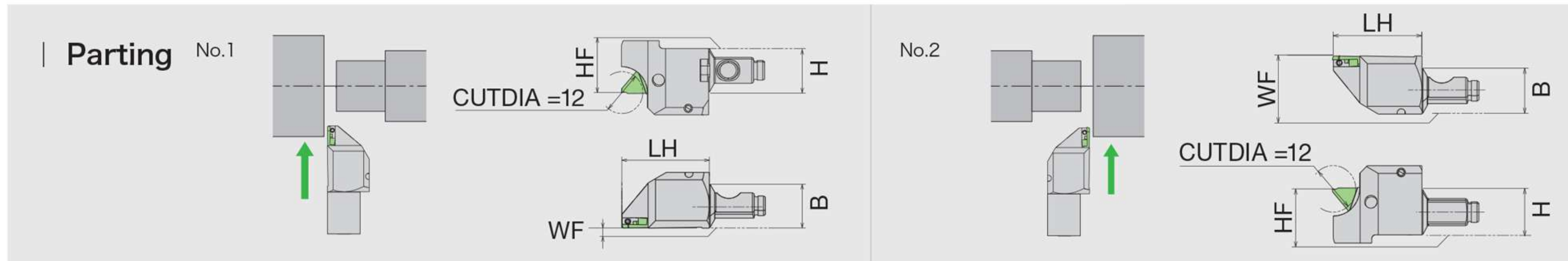
#### Spare parts



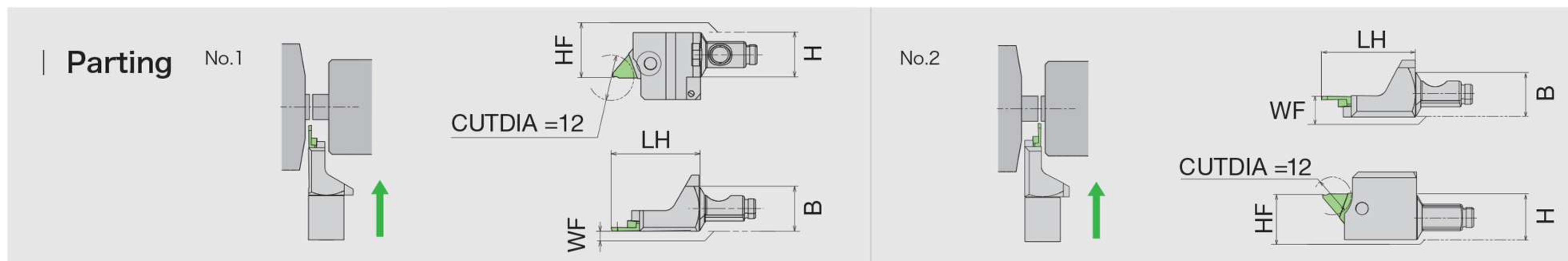
| Item Number  | O-Rings   | Screw       | Wrench  |
|--------------|-----------|-------------|---------|
| QC12-TTPR-OH | OR-450*10 | LRIS-4*12PW | CLR-15S |

## N-Swiss JOINT

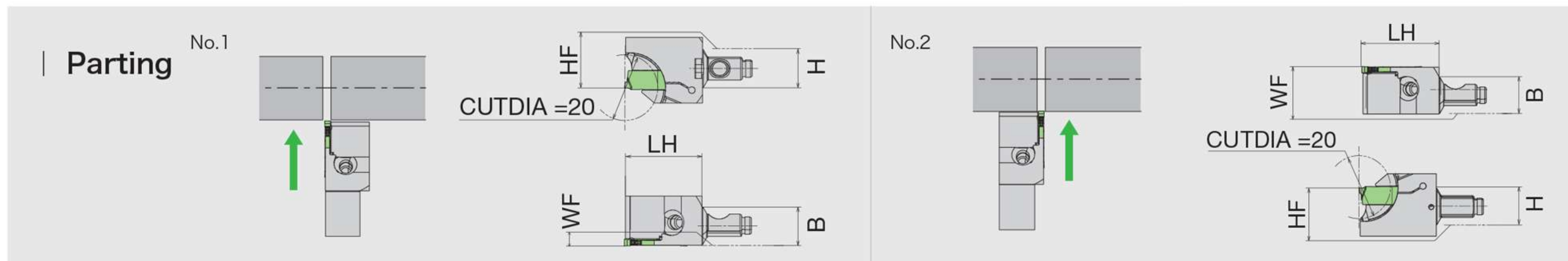
### Heads



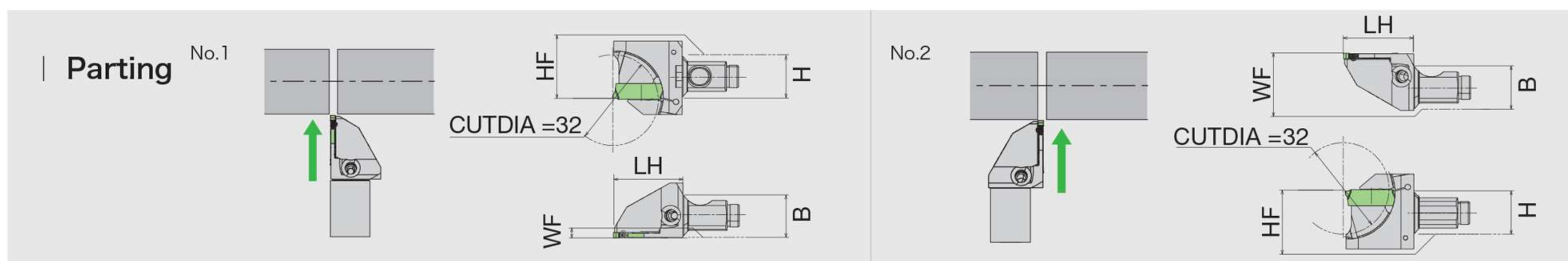
| Item Number  | Internal coolant | H  | B  | LH   | HF | WF   | Insert  | Applicable shank size | Figure |
|--------------|------------------|----|----|------|----|------|---------|-----------------------|--------|
| QC12-CTPR-OH |                  | 12 | 12 | 23.5 | 12 | 0.0  | CTP.R.. | QC-12..               | 1      |
| QC12-CTPL-OH |                  | 12 | 12 | 23.5 | 12 | 15.0 | CTP.L.. | QC-12..               | 2      |



| Item Number      | Internal coolant | H  | B  | LH   | HF | WF  | Insert  | Applicable shank size | Figure |
|------------------|------------------|----|----|------|----|-----|---------|-----------------------|--------|
| QC12-CTPR-SUB-OH |                  | 12 | 12 | 23.5 | 12 | 0.0 | CTP.R.. | QC-12..               | 1      |
| QC12-CTPL-SUB-OH |                  | 12 | 12 | 23.5 | 12 | 5.5 | CTP.L.. | QC-12..               | 2      |



| Item Number         | Internal coolant | H  | B  | LH   | HF | WF   | Insert   | Applicable shank size | Figure |
|---------------------|------------------|----|----|------|----|------|----------|-----------------------|--------|
| QC12-CTDPR-20D20-OH |                  | 12 | 12 | 23.5 | 12 | 0.2  | CTDP20.. | QC-12..               | 1      |
| QC12-CTDPL-20D20-OH |                  | 12 | 12 | 23.5 | 12 | 15.2 | CTDP20.. | QC-12..               | 2      |



| Item Number         | Internal coolant | H  | B  | LH   | HF | WF   | Insert   | Applicable shank size | Figure |
|---------------------|------------------|----|----|------|----|------|----------|-----------------------|--------|
| QC16-CTDPR-20D32-OH |                  | 16 | 16 | 24.5 | 16 | 0.2  | CTDP20.. | QC-16..               | 1      |
| QC16-CTDPL-20D32-OH |                  | 16 | 16 | 24.5 | 16 | 20.2 | CTDP20.. | QC-16..               | 2      |

### Spare parts



| Item Number         | O-Rings   | Screw       | Wrench  | Wrench  |
|---------------------|-----------|-------------|---------|---------|
| QC12-CTPR-OH        | OR-450*10 | LRIS-4*12PW | CLR-15S | -       |
| QC12-CTPL-OH        | OR-450*10 | LRIS-4*12PW | CLR-15S | -       |
| QC12-CTPR-SUB-OH    | OR-450*10 | LRIS-4*5    | -       | LLR-25S |
| QC12-CTPL-SUB-OH    | OR-450*10 | LRIS-4*5    | -       | LLR-25S |
| QC12-CTDPR-20D20-OH | OR-450*10 | LRIS-4*12   | -       | LLR-25S |
| QC12-CTDPL-20D20-OH | OR-450*10 | LRIS-4*12   | -       | LLR-25S |
| QC16-CTDPR-20D32-OH | OR-750*10 | LRIS-4*12   | -       | LLR-25S |
| QC16-CTDPL-20D32-OH | OR-750*10 | LRIS-4*12   | -       | LLR-25S |

# CONTACT US



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