



NORIS WE-L

Quick-change adapters WE – L

Operating instruction

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## Warning signs, symbols

This operating instruction uses the following symbols:



### Attention

Marks special instructions, rules and prohibitions which are important in order to avoid any damage.

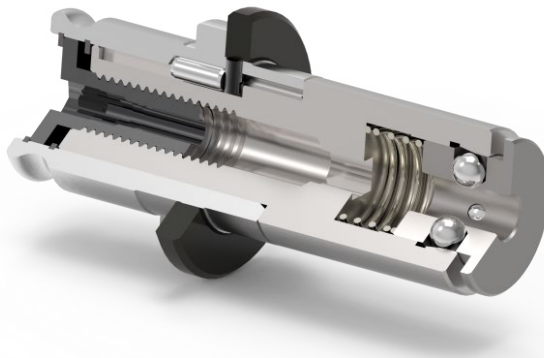
▶ Please observe these instructions!



### Note

Marks application instructions and other useful information.

Sectional view:



Quick-change adapter NORIS WE-L

## 1 Application range, safety instructions and technical data

### 1.1 Application range, determined use

Application of the quick-change adapters:

- Adaptation of taps/cold-forming taps according to:  
DIN or ISO or ASME dimensions
- These adapters are designed to be used in all quick-change tap holders, REIME NORIS types:

NORIS UNI            NORIS UNI HP

as well as compatible quick-change holders of other manufactures.

The size of the adapter to be used is defined by the size of quick-change tap holder.

- For taps/cold-forming taps **with** internal coolant-lubricant supply (oil channel).  
The maximum coolant-lubricant pressure is determined by the used quick-change tap holder, but not more than 50 bar.
- Main application range: Production of through hole threads on multi-spindle heads and transfer lines
- Production of right-hand and left-hand threads
- All machining directions



#### Note

Special quick-change adapters are available if problems are encountered with chip locking between quick-change adapter and quick-change tap holder when overhead machining.

The adaptation of the tap/cold-forming tap is executed via a quick-change-ball clamping system, the tap/cold-forming tap is centered at the shank. The torque arising during the thread producing operation is transferred via the square in the quick-change adapter.

The required clamping diameter is defined by the tap/cold-forming tap used. Owing to the quick-change principle, each shank diameter requires a separate quick-change adapter.

**The non-determined use exempts the manufacturer from any liability.**

## 1.2 Safety instructions and hints

For all works, i.e. putting into operation, production and maintenance, please observe the details given in the operating instructions.

All relevant safety regulations as well as local instructions are to be observed when working.

Below please find some basic rules:



### Attention



- ▶ Please wear gloves during tool change to avoid injury.
- ▶ Basically change the tool yourself to avoid the sudden start of the spindle caused by mis-operating.



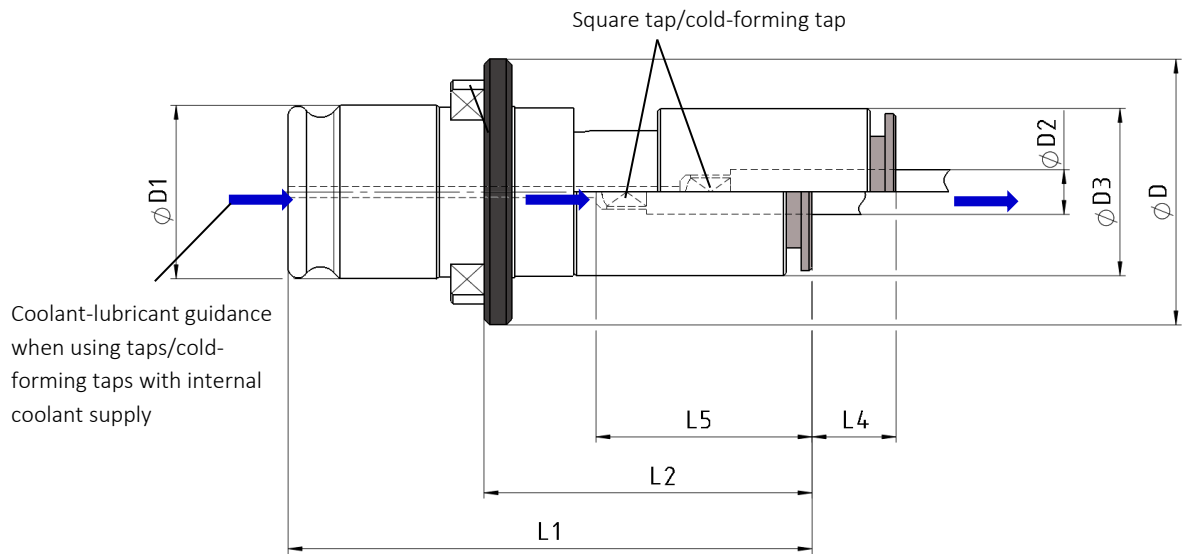
- ▶ Hold the tool when loosening the tool clamping to avoid it falling down and damaging the tool and the work piece.
- ▶ There are maximum values for cutting speeds and feeds for every kind of machining. Please observe such data.
- ▶ Please observe the maximum tool dimensions.
- ▶ Furthermore, the instructions of the tool manufacturers are valid!

## 1.3 Proprietary rights

The entire contents of these operating instructions are subject to German proprietary rights legislation.

Any form of multiplication, processing, broadcasting, passing on to third parties - also in the form of extracts - and any kind of use outside the boundaries of proprietary rights requires the written consent of REIME NORIS GmbH.

1.4 Dimensions and technical data



Picture 1: Dimensions of the quick-change adapters NORIS WE-L

Table 1: Technical data of the quick-change adapters NORIS WE-L

Type	Cutting range	adaptersize <sup>1</sup>	ØD [mm]	ØD <sub>1</sub> [mm]	ØD <sub>2</sub> <sup>2</sup> [mm]	ØD <sub>3</sub> [mm]	L <sub>1</sub> [mm]	L <sub>2</sub> [mm]	L <sub>4</sub> [mm]	L <sub>5</sub> <sup>3</sup> [mm]	Tool type
WE00-L	M1-M10	00	23	13	2,5-7	13	48	29	8	21-24	DIN
	M1-M9				2,24-7,1					20-24	ISO
WE01-L	M3-M14	01	30	19	3,5-11	18	55	33	10	22-29	DIN
	M3,5-M14				3,55-11,2					22-29	ISO
WE03-L	M4,5-M24	03	48	31	6-18	30	94	59	15	38-47	DIN
	M6-M24				6,3-18					38-48	ISO
WE04-L	M14-M36	04	70	48	11-28	47	137	81	25	55-68	DIN
	M14-M36				11,2-28					55-69	ISO
WE05-L	M22-M48	05	92	60	18-36	58	205	142	40	94-109	DIN
	M24-M48				18-31,5					95-105	ISO

For further dimensions please refer to our REIME NORIS main catalogue.

<sup>1</sup> Size is defined by the used quick-change tap holder.

<sup>2</sup> Clamping diameter is defined by the required tap/cold-forming tap.

<sup>3</sup> Plug-in depth is defined by the used tap/cold-forming tap.

## 2 Putting the quick-change adapters into operation

### 2.1 Unpacking

- Take the quick-change adapter from the plastic case.
- Clean the quick-change adapter with a duster to remove any conservation oil.

#### Note

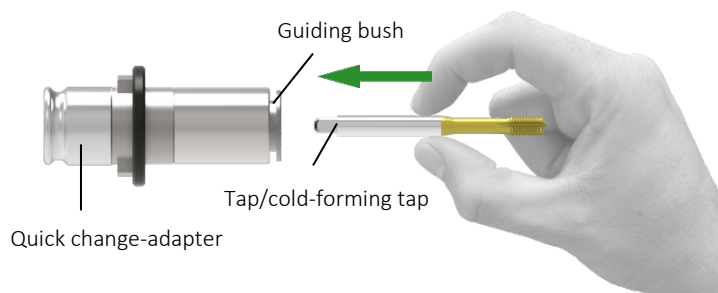
- ▶ Do not use any aggressive solvents.
- ▶ Do not use fibrous materials i.e. steel wool.

The quick-change adapter is now ready for operation

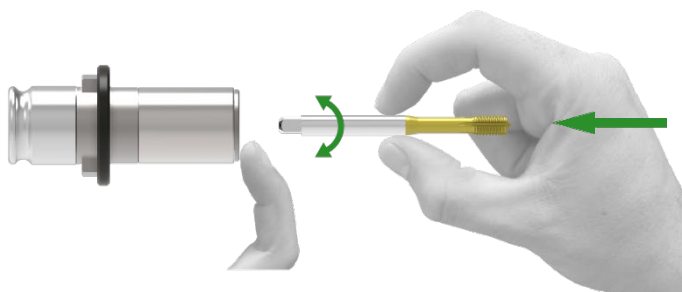
### 2.2 Insert tap/cold-forming tap

#### Attention

- ▶ Choose the appropriate quick-change adapter for the required tap/cold-forming tap.
- ▶ The exchange of the tap/cold-forming tap must not be executed while the machine spindle rotates!



1. Press guiding bush back and hold it



2. Push tap/cold-forming tap into the guiding bush.

#### Note

Bring the square into the correct position by turning the tap/cold-forming tap.



3. Let go of the guiding bush

Now insert the quick-change adapter into the quick-change tap holder as described in the operating instruction of the used tap holder.

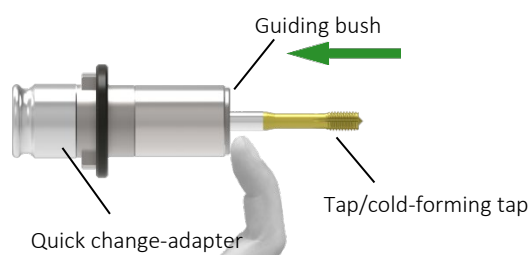
**! Note**

The tap/cold-forming tap may also be changed according to the above mentioned method if the quick-change adapter is fixed in the quick-change tap holder.

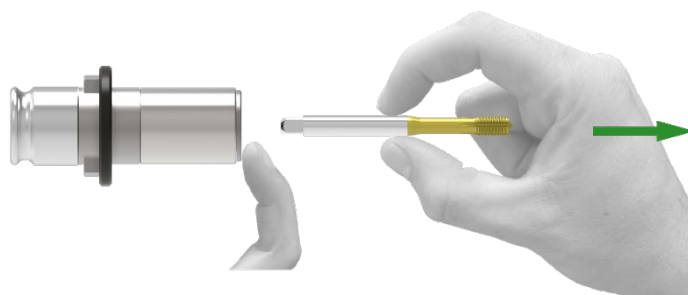
**2.3 Detach tap/cold-forming tap**

**! Attention**

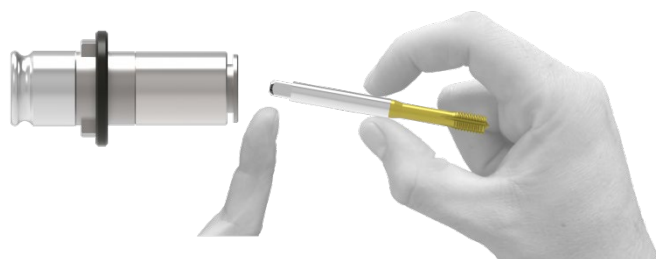
▶ The exchange of the tap/cold-forming tap must not be executed while the machine spindle rotates!



1. Press guiding bush back and hold it



2. Pull out tap/cold-forming tap



3. Let go of guiding bush

**! Note**

The tap/cold-forming tap may also be loosened according to the above mentioned method if the quick-change adapter is fixed in the quick-change tap holder.



## 2.4 Length adjustment

The overhang length of the quick-change adapters EM-L may be adjusted if required. This could be necessary, eg when adjusting a predetermined length on multi spindle heads.

### ! Note

The length can only be adjusted if the quick-change adapter is **not** fixed in the quick-change tap holder.

#### Required tool:

Hexagon socket wrench size:

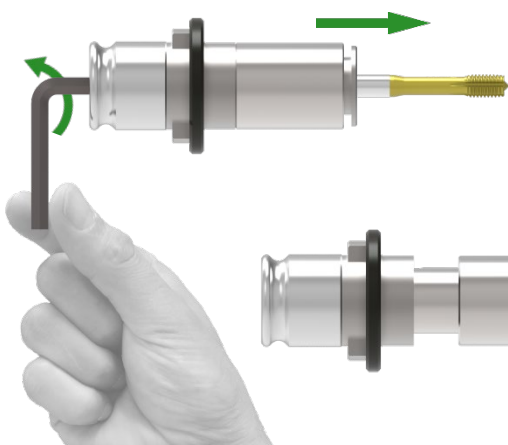
WE00-L: SW 2,5

WE04-L: SW 10

WE01-L: SW 4

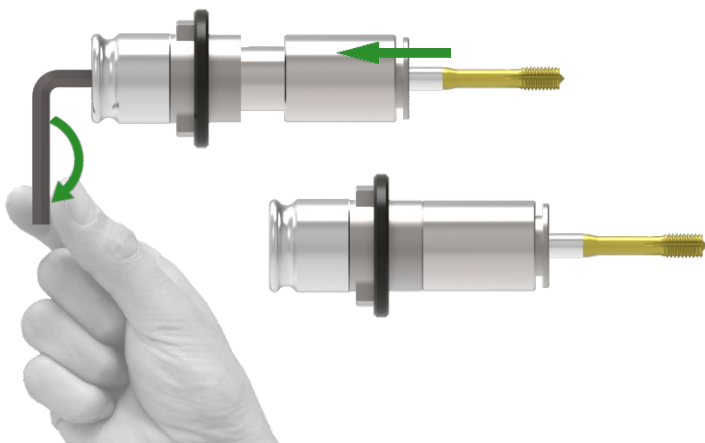
WE05-L: SW 8

WE03-L: SW 6



a) Turn hexagon socket wrench  
**anti-clock-wise**

⇒ Extension



b) Turn hexagon socket wrench  
**clock-wise**

⇒ Reduction


### 3 Maintenance

#### 3.1 Maintenance schedule

What?	When?	Who?
External cleaning	Periodically, depending on the degree of dirt.	Operator

#### 3.2 External cleaning

Clean the quick-change adapter at periodic intervals depending on how dirty the adapter is.


 **Note**

- ▶ Do not use any aggressive solvents.
- ▶ Do not use fibrous materials i.e. steel wool.

### 4 Storage when not in use

If the quick-change adapter is taken out of service, please go through the following working steps:

1. Clean the quick-change adapter with a duster, see chapter 3.2
2. Spray the quick-change adapter with a preservation oil to avoid rusting and to preserve the easy running of the adapter

 **Attention**

Before storage all evidence of coolant-lubricant and machining residues must be removed!

## 5 Application and choice of other quick-change adapters

Type	Description	Recommended Applications
WE..	Rigid type	Through hole threads
WE../MMS	Rigid type, for minimum-quantity lubrication (MQL)	Through hole threads
WE..-U	With adjustable overload clutch	Blind hole threads
WE..-U/MKBA	With adjustable overload clutch, and internal coolant supply through channels along the tap/cold-forming tap shank.	Blind hole threads
WE..-UL	With adjustable overload clutch and length adjustment	Blind hole threads on multi-spindle heads
WE..-Z	Rigid type with adaptation for collets according to DIN ISO 15488	Clamping of carbide tools High coolant-lubricant pressures High-speed machining
WE..-Z/MMS	Rigid type with adaptation for collets according to DIN ISO 15488, for minimum-quantity lubrication, with adjustment screw for presetting the tap/cold-forming tap length	Clamping of carbide tools High-speed machining
WE..L/ER/MKB	With length adjustment and adaptation for collets according to DIN ISO 15488	On multi-spindle heads and transfer lines Clamping of carbide tools High coolant-lubricant pressures High-speed machining
WE..-PGR	Rigid type with adaptation for collets according to type PGR (GB)	Clamping of carbide tools High coolant-lubricant pressures High-speed machining
WE..-SE	Rigid type with adaptation for dies according to DIN 223	External threads
WE..-R	Reducing adaptation for all EM types	For the extension of the clamping range downwards

All quick-change adapters, unless stated otherwise, can be used for internal coolant supply when the taps/cold-forming taps are designed accordingly.


**REIME NORIS quick-change adapter NORIS WE-L**  
**Operating instruction**


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Please keep this for future use!


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