

# Macro – Chucks

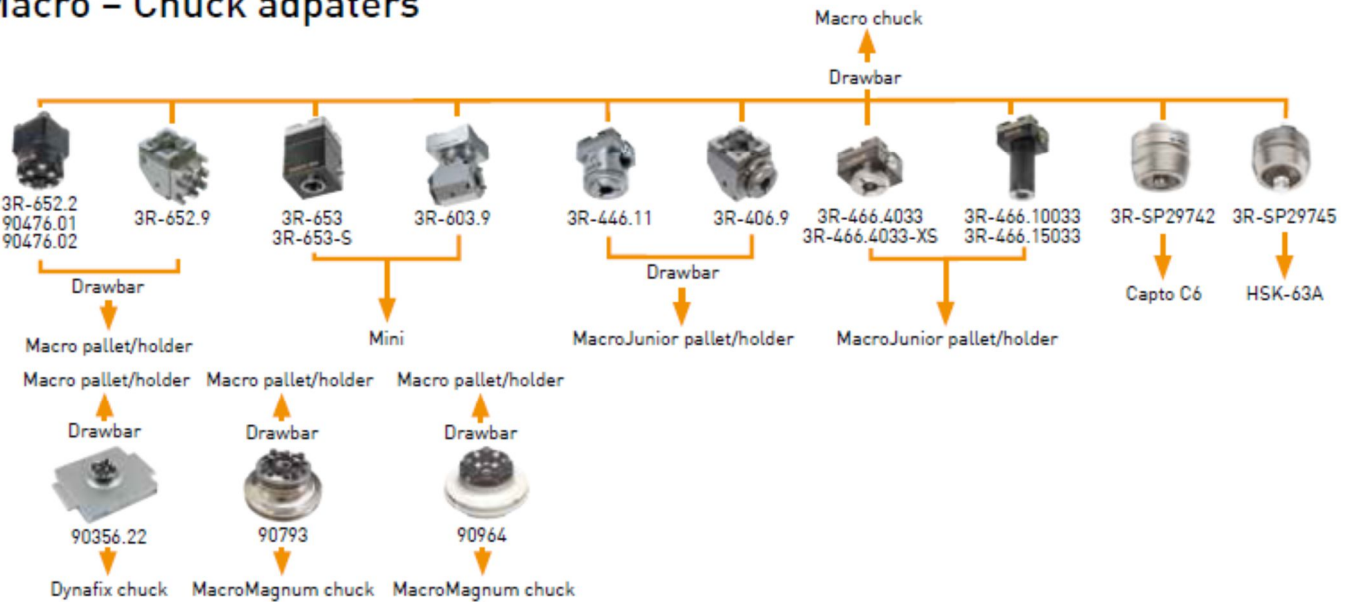
## Pneumatic chuck, Macro Quad, 3R-640.14-30

For permanent mounting on the machine table. All connections from the side or back of the chuck.

- Required drawbar 3R-605.2 or similar
- Required air pressure 6±1 bar
- Fixed index positions 4x90°
- Permissible torque 135 mm
- Air-blast cleaning of the Z-references
- Solid X & Y-references
- Turbo locking
- Weight 10 kg.



## Macro – Chuck adapters



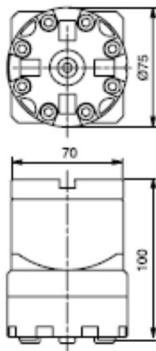
Chuck adapters	Article number	Drawbar	Feature
Manual	3R-652.2	3R-605.2	100 mm
Manual	3R-652.9	-	90°. Locking screw with M6 drawpin
Manual	3R-653	-	Macro ► Mini, rust resistant
Manual	3R-653-S	-	Macro ► Mini
Manual	3R-603.9	-	Macro ► Mini 90°, rust resistant
Manual	3R-446.11	3R-405.11	Macro ► MacroJunior
Manual	3R-466.4033	-	Macro ► MacroJunior: locking screw
Manual	3R-466.4033-S	-	Macro ► MacroJunior: locking screw
Manual	3R-406.9	-	Macro ► MacroJunior 90°. locking screw
Manual	3R-466.10033	-	Macro ► MacroJunior 100 mm. locking screw
Manual	3R-466.15033	-	Macro ► MacroJunior 150 mm. locking screw
Manual	3R-SP29742	-	Macro ► Capto C6, rust resistant
Manual	3R-SP29745	-	Macro ► HSK-63A, rust resistant
Pneumatic	90356.22	3R-605.1 / 3R-605.4	Dynafix ► Macro
Pneumatic	90793	3R-605.1 / 3R-605.4	MacroMagnum ► Macro
Manual	90964	3R-605.2	MacroMagnum ► Macro

## Macro – Chuck adapters

### Manual chuck adapter, Macro-Macro, 3R-652.2

Distance adapter to extend the machine spindle. Mechanical clamping from the side.

- Required drawbar 3R-605.2
- Solid X & Y-references
- Height 100 mm
- Adapted for automatic changing
- Flushing duct
- Recommended clamping torque 6 Nm
- Permissible torque: 135 Nm
- Weight 4.5 kg.



### Manual chuck adapter, Macro-Macro, 90476.01

Distance adapter to extend the machine spindle. Mechanical clamping from the side.

- Required drawbar 3R-605.2
- Solid X & Y-references
- Height 200 mm
- Adapted for automatic changing
- Flushing duct
- Recommended clamping torque 6 Nm
- Permissible torque: 135 Nm
- Weight 8 kg.



### Manual chuck adapter, Macro-Macro, 90476.02

Distance adapter to extend the machine spindle. Mechanical clamping from the side.

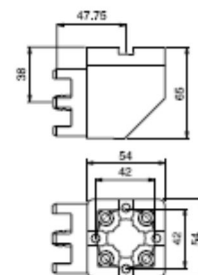
- Required drawbar 3R-605.2
- Solid X & Y-references
- Height 250 mm
- Adapted for automatic changing
- Flushing duct
- Recommended clamping torque 6 Nm
- Permissible torque: 135 Nm
- Weight 9 kg.



### Manual chuck adapter 90°, Macro-Macro, 3R-652.9

For horizontal mounting of Macro holders. Supplied with drawbar for screw locking.

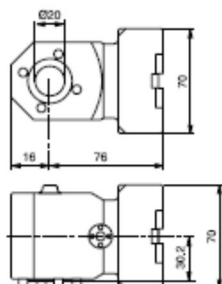
- Rust resistant
- Weight 2.4 kg.



### Manual chuck adapter 90°, Macro-Mini, 3R-603.9

For horizontal mounting of Mini holders in the Macro system.

- Rust resistant
- Flushing connection
- Weight 1.9 kg.



## Macro – Chuck adapters

### Manual chuck adapter, Macro-Mini, 3R-653-S

For mounting Mini holders in the Macro system.

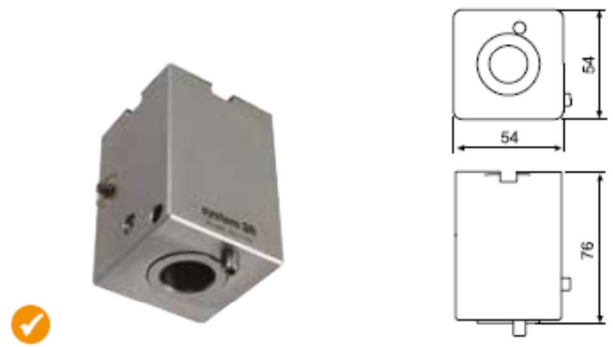
- MacroStandard coupling
- Can be changed automatically
- Weight 1.3 kg.



### Manual chuck adapter, Macro-Mini, 3R-653

For mounting Mini holders in the Macro system.

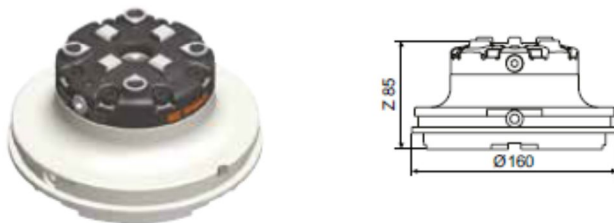
- MacroHP coupling
- Can be changed automatically
- Rust-resistant
- Weight 1.3 kg.



### Manual chuck adapter, MacroMagnum-Macro, 90964

From MacroMagnum into Macro system. Chuck adapter with built-in Macro chuck.

- Requires drawbar 3R-605.2 or similar.
- Solid X & Y-References
- Recommended clamping torque 6 Nm
- Permissible torque 135 Nm
- Clamping force 6000 N
- Max load 50 kg to acquire accuracy 0.002 mm
- Weight 4.3 kg.



### Pneumatic chuck adapter, MacroMagnum-Macro, 3R-682.600-A

Chuck adapter with built-in pneumatic Macro chuck for mounting in 3R-680.10-2A.

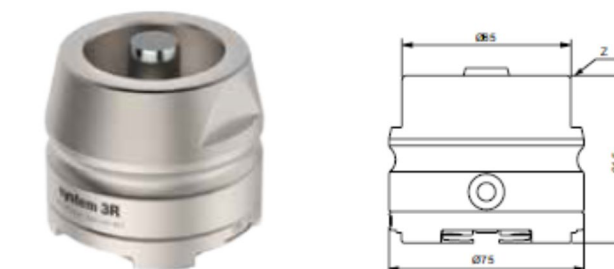
- Weight 4.5 kg.



### Manual adapter, Macro-Capto C6, 3R-SP29742

Access to clamping from underneath.  
Torque wrench for optimal performance.

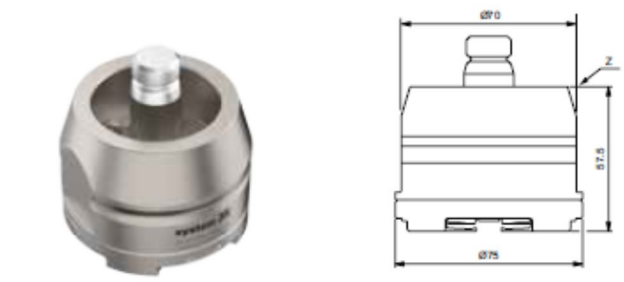
- Suitable for automatic changer.
- Recommended clamping torque 30 Nm
- Rust-resistant
- Weight 1.5 kg.



### Manual adapter, Macro-HSK-63A, 3R-SP29745

Access to clamping from underneath.  
Torque wrench for optimal performance.

- Suitable for automatic changer.
- Recommended clamping torque 30 Nm
- Rust-resistant
- Weight 1.5 kg.

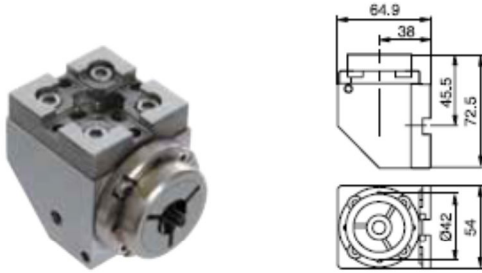


## Macro – Chuck adapters

### Manual chuck adapter 90°, Macro-MacroJunior, 3R-406.9

For horizontal mounting of MacroJunior holders in the Macro system. Screw locking.

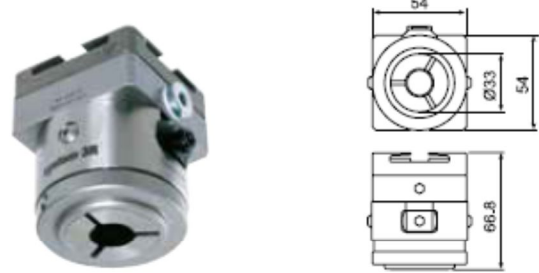
- Adapted for automatic changing
- Rust-resistant
- Fixed index positions 3x120°
- Weight 2.4 kg.



### Manual chuck adapter, Macro-MacroJunior, 3R-446.11

For mounting in the Macro system. Side locking of the MacroJunior holder. Duct for flushing through the electrode.

- Required drawbar 3R-405.11
- Precision-cast Macro reference element
- Adapted for automatic changing
- Fixed index positions 3x120°
- Weight 1.3 kg.



### Manual chuck adapters, Macro-MacroJunior

For mounting in the Macro system. Axial locking screw with channel for flushing through the electrode.

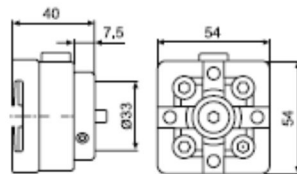
#### 3R-466.4033

- Precision-cast Macro reference element
- Adapted for automatic changing
- Fixed index positions 3x120°
- Weight 1.1 kg.

#### 3R-466.4033-S

Note: For EDM machining only.

- Adapted for automatic changing
- Fixed index positions 3x120°
- Weight 1 kg.



# Macro – Chuck adapters & Rotating spindles

## Manual chuck adapters, Macro-MacroJunior

For mounting in the Macro system. Axial locking screw with channel for flushing through the electrode.  
 Note: For EDM machining only.

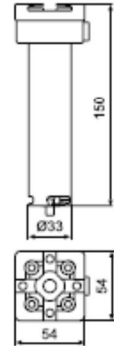
### 3R-466.10033

- Fixed index positions 3x120°
- Adapted for automatic changing
- Height 100 mm
- Weight 0.8 kg.



### 3R-466.15033

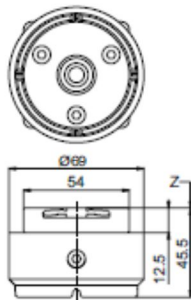
- Fixed index positions 3x120°
- Adapted for automatic changing
- Height 150 mm
- Weight 1.2 kg.



## Manual chuck adapter, Macro-GPS 70, C 188 550

Adaption of Macro on GPS 70.

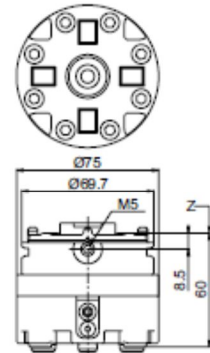
- Required drawbar N 901 800
- Built-up height 45.5 mm
- Tightening torque 2.8 Nm
- Weight 1 kg.



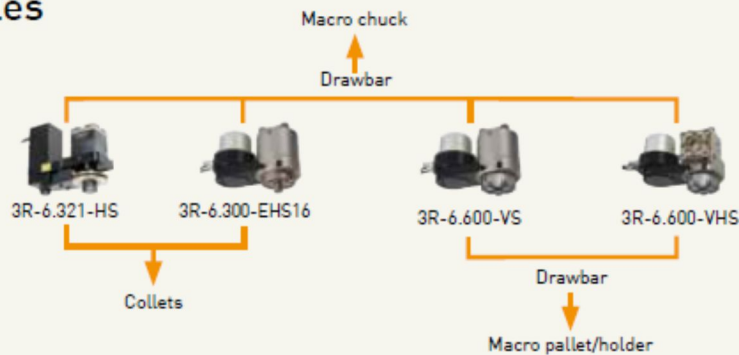
## Manual chuck adapter, GPS 70-Macro, C 188 560

Adaption of GPS 70 on Macro.

- Required drawbar 3R-605.2
- Built-up height 60 mm
- Weight 1.9 kg.



# Macro – Rotating spindles



Rotating spindles	Article number	Drawbar	Feature
Vertical standard	3R-6.321-HS	-	collets
Vertical standard	3R-6.600-VS	3R-605.2	rust resistant
Vertical and horizontal standard	3R-6.600-VHS	3R-605.2	rust resistant
Vertical standard	3R-6.300-EHS16	-	collets, ER-16, rust-resistant