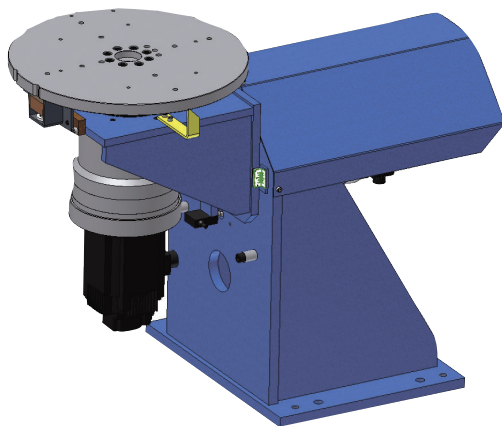


# MT1-250

One-station tilt-rotate positioner.



- Space saving design.
- Direct drive on tilt and rotating axes.
- Easy to install and operate.

This is a one station tilt-rotate positioner for workpieces requiring rotation about two axes. Due to its compact and space saving design, it is suitable for integration in e.g. compact welding stations.

The fixture disc can be tilted in synchronisation with the robot,  $\pm 90^\circ$ .

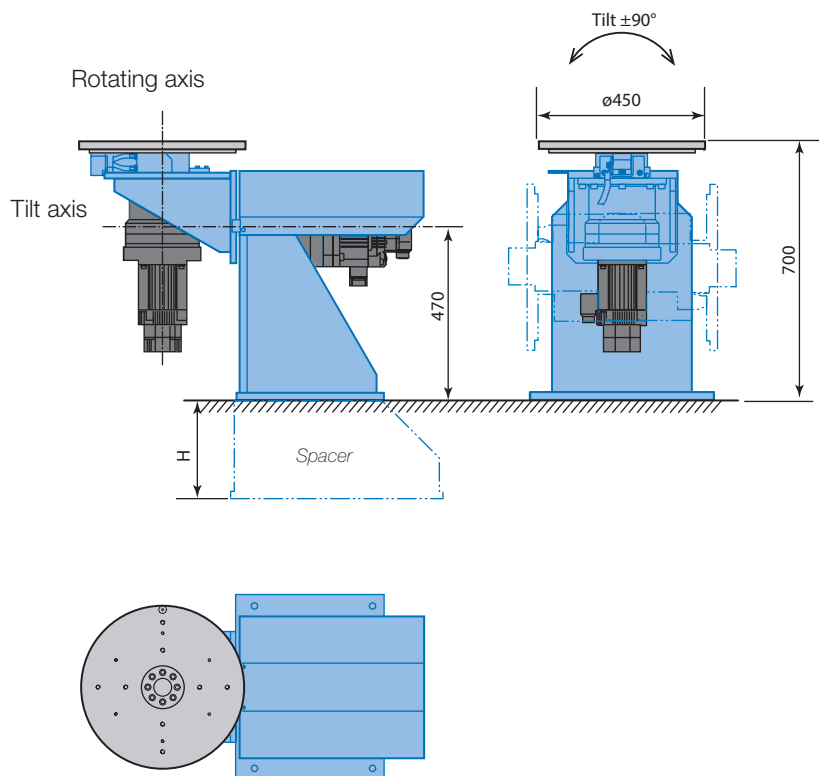
#### Option

- Spacer (H = 270 mm)

| Technical data                            |                                      | MT1-250 S2D             |
|-------------------------------------------|--------------------------------------|-------------------------|
| Max. payload                              |                                      | 250 kg                  |
| Welding capacity                          | 100% duty cycle<br>60% duty cycle    | 350 A<br>460 A          |
| Tilt axis torque                          | dynamic<br>static                    | 1108 Nm<br>896 Nm       |
| Tilt axis rated speed                     |                                      | 0-12.6 rpm              |
| Rotating axis torque                      | dynamic<br>static                    | 1046 Nm<br>837 Nm       |
| Rotating axis rated speed                 |                                      | 0-9.8 rpm               |
| Rated offset from centre of gravity (COG) |                                      | 275 mm                  |
| Weight                                    |                                      | 300 kg                  |
| Part No.                                  | MT1-250 S2D<br>Option: Spacer 270 mm | 124614-100<br>254322-81 |

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**YRC1000**

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**DX200**

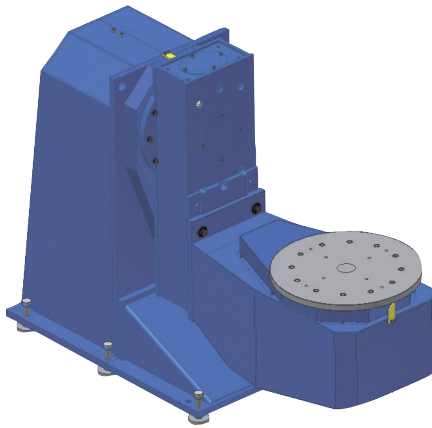


# YASKAWA



# MT1-500, MT1-750

One-station tilt-rotate positioner for heavy workpieces.



- Rigid design.
- High freedom of positioning.
- Easy to install and operate.

This is a tilt-rotate one station positioner for workpieces requiring rotation about two axes. Its high freedom of positioning makes it easy to find the optimum position even in complicated workpieces.

This MT1 positioner with its L arm design is able to withstand the strain of handling heavy workpieces.

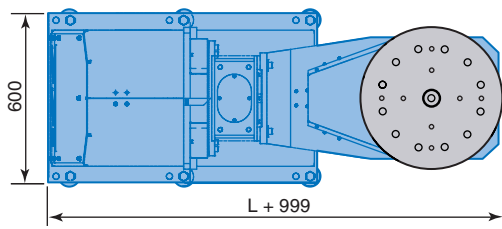
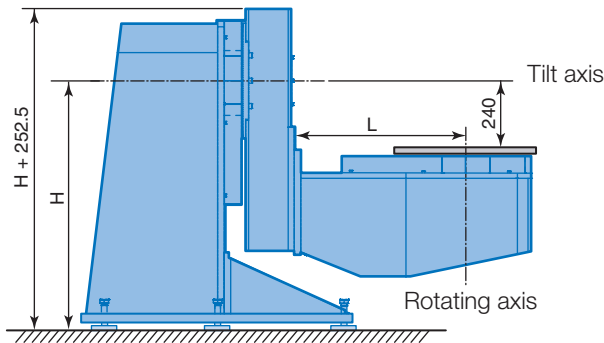
| Technical data                            |                                   | MT1-500 S2DL         | MT1-750 S2DL         |
|-------------------------------------------|-----------------------------------|----------------------|----------------------|
| Max. payload                              |                                   | 500 kg               | 750 kg               |
| Welding capacity                          | 100% duty cycle<br>60% duty cycle | 2x 350 A<br>2x 460 A | 2x 350 A<br>2x 460 A |
| Tilt axis torque                          | dynamic<br>static                 | 2600 Nm<br>2080 Nm   | 2600 Nm<br>2080 Nm   |
| Tilt axis rated speed                     |                                   | 0-5.3 rpm            | 0-5.3 rpm            |
| Rotating axis torque                      | dynamic<br>static                 | 2600 rpm<br>2080 rpm | 2600 rpm<br>2080 rpm |
| Rotating axis rated speed                 |                                   | 0-5.3 rpm            | 0-5.3 rpm            |
| Rated offset from centre of gravity (COG) |                                   | 424 mm               | 283 mm               |

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DX200

# MT1-500, -750

## MT1-500 S2DL, MT1-750 S2DL



|                     | H (mm) | L (mm) | Weight | Part No.   |
|---------------------|--------|--------|--------|------------|
| <b>MT1-500 S2DL</b> | 850    | 850    | 785 kg | 124615-104 |
| <b>MT1-750 S2DL</b> | 650    | 600    | 636 kg | 124616-100 |
|                     | 650    | 750    | 650 kg | 124616-101 |
|                     | 850    | 600    | 752 kg | 124616-102 |
|                     | 850    | 750    | 766 kg | 124616-103 |

**YASKAWA**

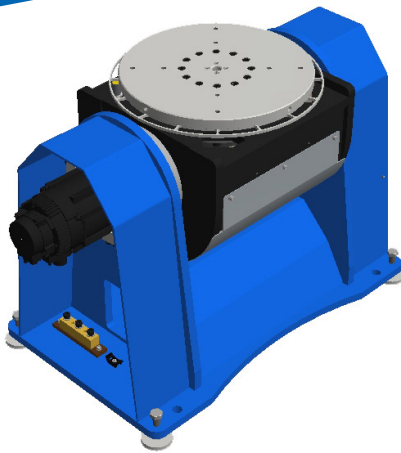


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# MT1-500 S2HD

One-station tilt-rotate positioner.



- Space saving design.
- Hollow drive.
- Easy to install and operate.

This is a one station tilt-rotate positioner for workpieces requiring rotation about two axes. Due to its compact and space saving design, it is suitable for integration in e.g. compact welding stations.

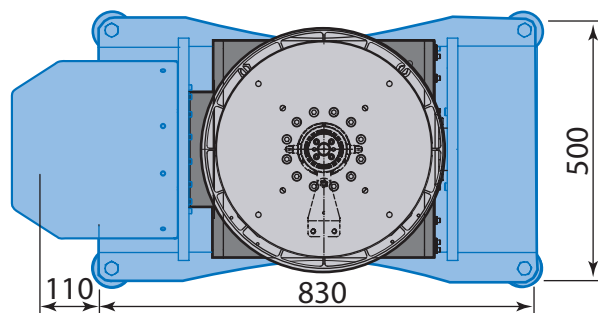
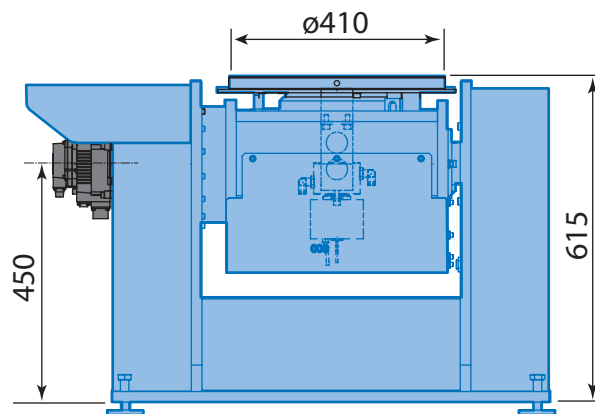
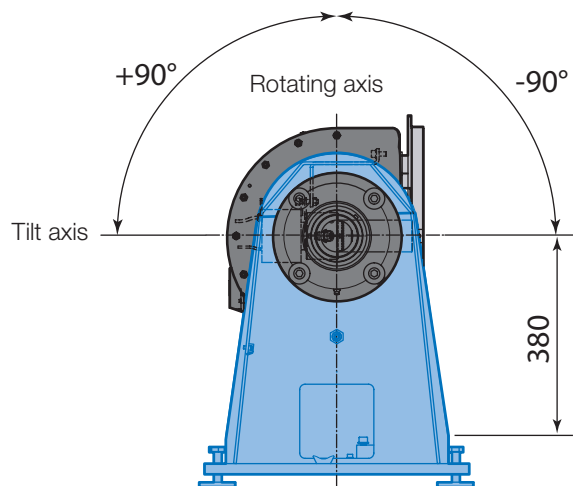
The fixture disc can be tilted in synchronisation with the robot,  $\pm 90^\circ$

| Technical data                            |                                   | MT1-500S2HD          |
|-------------------------------------------|-----------------------------------|----------------------|
| Max. payload per station                  |                                   | 500 kg               |
| Welding capacity                          | 100% duty cycle<br>60% duty cycle | 350 A<br>460 A       |
| Tilt axis torque                          | dynamic<br>static                 | 1612 Nm<br>1330 M,   |
| Tilt axis rated speed                     |                                   | 0-10.6 rpm           |
| Rotating axis torque                      | dynamic<br>static                 | 1108 Nm<br>896 Nm    |
| Rotating axis rated speed                 |                                   | 0-11.3 rpm           |
| Max. inertia                              |                                   | 100 kgm <sup>2</sup> |
| Rated offset from centre of gravity (COG) |                                   | 145 mm               |
| Weight                                    |                                   | 321 kg               |

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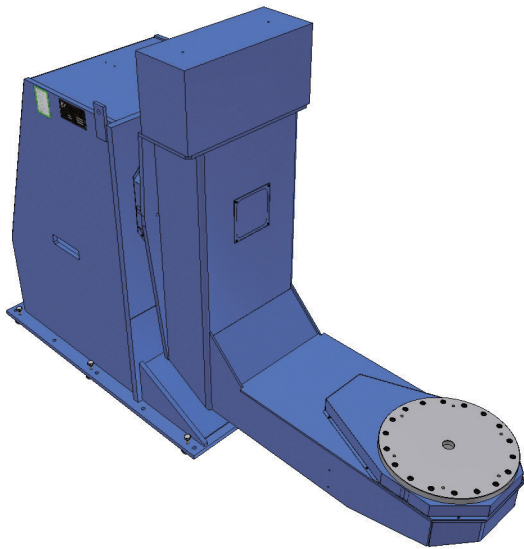
# MT1-500 S2HD



# YASKAWA



# MT1-1000, MT1-1500



- Rigid design.
- High freedom of positioning.
- Heavy payloads.

This is a one station positioner for workpieces requiring rotation about two axes. Its high freedom of positioning makes it easy to find the optimum position even in complicated workpieces.

This MT1 positioner with its L arm design is able to withstand the strain of handling heavy workpieces.

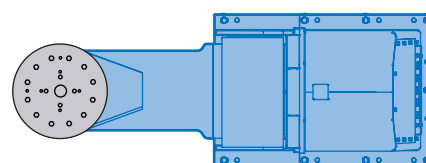
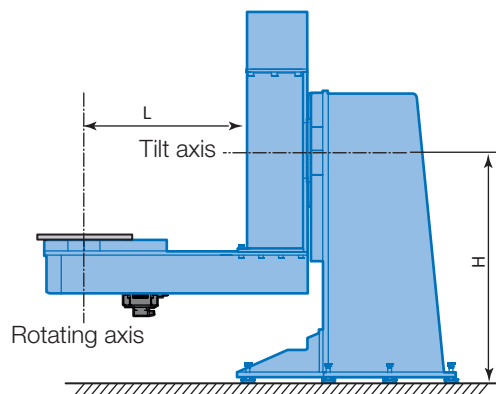
When used together with a Gantry robot it provides the best possible workpiece access.

| Technical data                            |                                   | MT1-1000 S2D         | MT1-1500 S2D         |
|-------------------------------------------|-----------------------------------|----------------------|----------------------|
| Max. payload                              |                                   | 1000 kg              | 1500 kg              |
| Welding capacity                          | 100% duty cycle<br>60% duty cycle | 2x 350 A<br>2x 460 A | 2x 350 A<br>2x 460 A |
| Tilt axis torque                          | dynamic<br>static                 | 4236 Nm<br>3389 Nm   | 8290 Nm<br>6632 Nm   |
| Tilt axis                                 | rated speed<br>maximum speed      | 0-3.6 rpm<br>9.6 rpm | 0-3.4 rpm<br>9.1 rpm |
| Rotating axis torque                      | dynamic<br>static                 | 2830 Nm<br>2264 Nm   | 6480 Nm<br>5184 Nm   |
| Rotating axis                             | rated speed<br>maximum speed      | 0-5.3 rpm<br>15 rpm  | 0-4.3 rpm<br>15 rpm  |
| Rated offset from centre of gravity (COG) |                                   | 230 mm               | 352 mm               |

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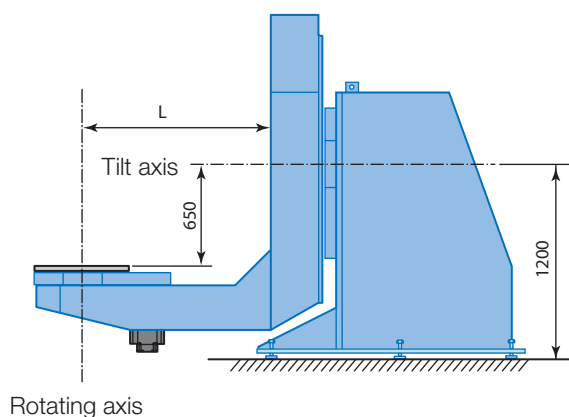
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DX200

## MT1-1000 S2D

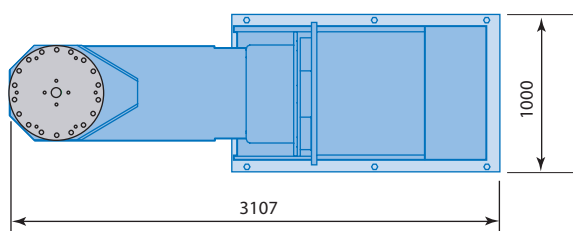


|                      | H (mm) | L (mm) | Weight  | Part No.   |
|----------------------|--------|--------|---------|------------|
| <b>MT1-1000 S2D</b>  | 1200   | 850    | 1610 kg | 124617-102 |
|                      | 1200   | 1100   | 1647 kg | 124617-103 |
| <b>MT1-1500 S2DL</b> | 1200   | 1195   | 3484 kg | 124618-100 |
|                      | 1500   | 1615   | 4010 kg | 124619-100 |

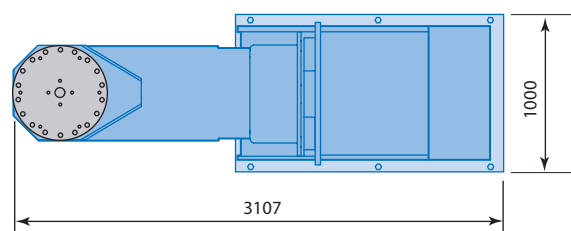
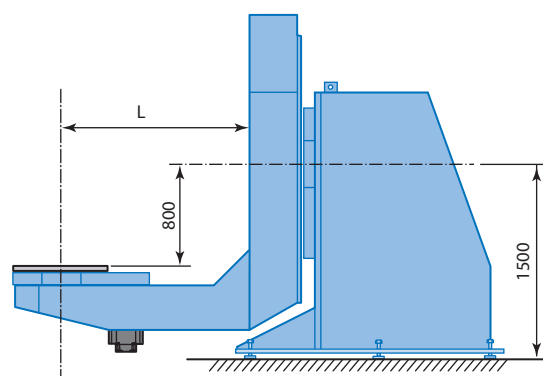
### MT1-1500 S2D (H = 1200)



Rotating axis



### MT1-1500 S2D (H = 1500)



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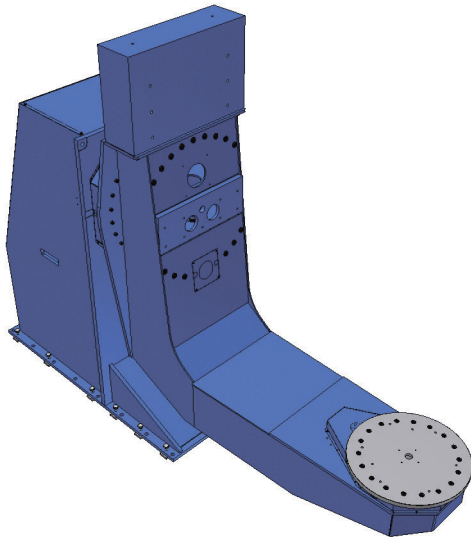


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# MT1-3000, MT1-5000

One-station tilt-rotate positioner for very heavy workpieces.



- Rigid design.
- High freedom of positioning.
- Ideal for very heavy parts.

This is a one station positioner for workpieces requiring rotation about two axes. Its high freedom of positioning makes it easy to find the optimum position even in complicated workpieces.

This MT1 positioner with its L arm design is able to withstand the strain of handling heavy workpieces.

When used together with a Gantry robot it provides the best possible workpiece access.

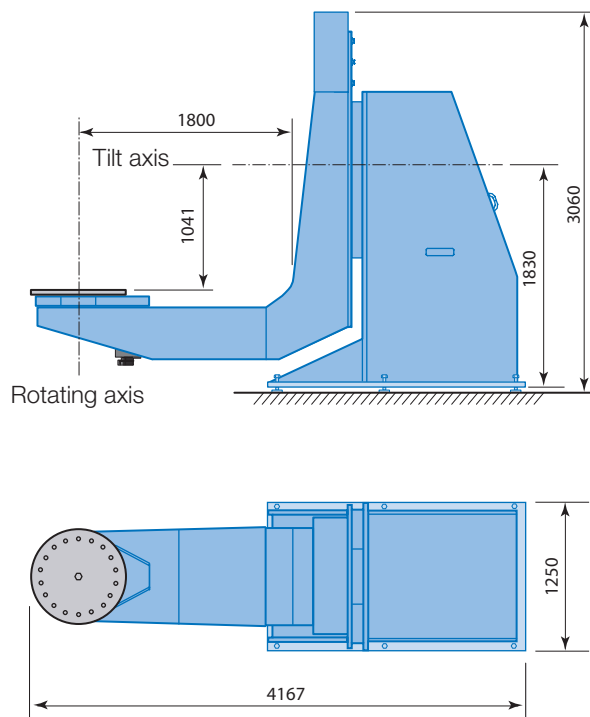
| Technical data                            |                                   | MT1-3000 S2D         | MT1-5000 S2D         |
|-------------------------------------------|-----------------------------------|----------------------|----------------------|
| Max. payload                              |                                   | 3000 kg              | 5000 kg              |
| Welding capacity                          | 100% duty cycle<br>60% duty cycle | 2x 350 A<br>2x 460 A | 2x 350 A<br>2x 460 A |
| Tilt axis torque                          | dynamic<br>static                 | 15058 Nm<br>12045 Nm | 15058 Nm<br>12045 Nm |
| Tilt axis                                 | rated speed<br>maximum speed      | 0-1.9 rpm<br>2.5 rpm | 0-1.9 rpm<br>2.5 rpm |
| Rotating axis torque                      | dynamic<br>static                 | 10498 Nm<br>8398 Nm  | 10498 Nm<br>8298 Nm  |
| Rotating axis                             | rated speed<br>maximum speed      | 0-2.7 rpm<br>3.6 rpm | 0-2.7 rpm<br>3.6 rpm |
| Rated offset from centre of gravity (COG) |                                   | 285 mm               | 171 mm               |
| Weight                                    |                                   | 7061 kg              | 7044 kg              |

Controlled by  
YRC1000

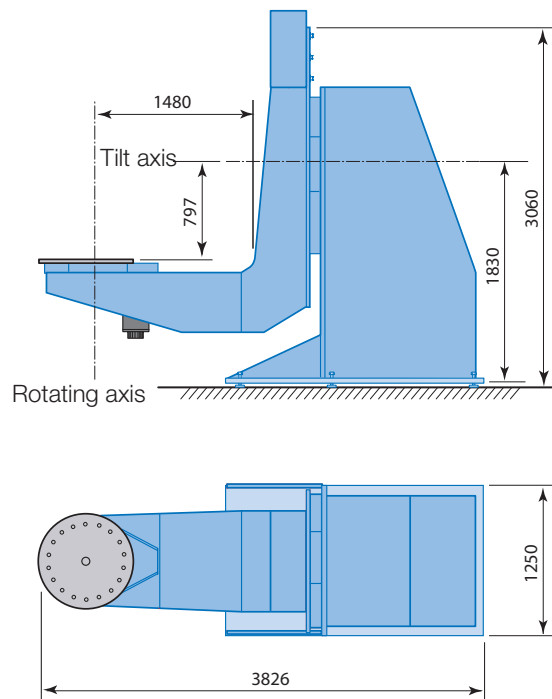
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DX200

# MT1-3000, -5000

**MT1-3000 S2D**



**MT1-5000 S2D**



|                     | H (mm) | L (mm) | Part No.   |
|---------------------|--------|--------|------------|
| <b>MT1-3000 S2D</b> | 1830   | 1800   | 124620-100 |
| <b>MT1-5000 S2D</b> | 1830   | 1480   | 124621-100 |

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