Makino + System 3R tooling

Ledger for Reference elements and 3Rulers
This ledger is only to guide suitable length of reference elements and 3Ruler for specific machine model. Contents for 3Rulers and/or reference elements, see also TPS-sheets covering the range of 3R-200.yyJ-x, 3R-239-xxx and accessories.

### Makino

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<td>3R-200.6J-1</td>
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</table>

*** 3Ruler is supplied by article no.: D-30227
**MIC – Machine Interface Configuration**

**Makino – PX36, UP6**

Machine table without tooling  
**Working area:**  
X: 650 mm  
Y: 470 mm

**Horizontal configuration**  
This configuration displays one 3Ruler, but two cross bars may be used.  
**Working area:**  
X: 650 mm  
Y: 371 mm

**Vertical configuration**  
This configuration displays one 3Ruler, but two cross bars may be used.  
**Working area:**  
X: 612 mm  
Y: 470 mm

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NOTE: There is no threading in table, thus cut off 50 mm of reference rail for optimal performance.

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.
MIC – Machine Interface Configuration

Makino – U3i, U3 H.E.A.T (Square)

Machine table without tooling
Working area:
  X: 370 mm
  Y: 270 mm

Horizontal configuration
This configuration display one 3Ruler, but two cross bars may be used.

Working area:
  X: 370 mm
  Y: 270 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.
**MIC – Machine Interface Configuration**

**Makino – U3 (U-shape)**

**Machine table without tooling**

Working area:
- X: 370 mm
- Y: 270 mm

**Horizontal configuration**

This configuration display one 3Ruler, but two cross bars may be used.

Working area:
- X: 370 mm
- Y: 270 mm

**Vertical configuration**

This U-shaped machine-table, does not support 3Ruler.

Working area:
- X: 370 mm
- Y: 270 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.
MIC – Machine Interface Configuration

Makino – U3i, U3 H.E.A.T (Square)

Machine table without tooling
Working area:
X: 370 mm
Y: 270 mm

Horizontal configuration
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
X: 370 mm
Y: 270 mm

Vertical configuration
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
X: 312 mm
Y: 270 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.
MIC – Machine Interface Configuration

Makino – U6i, U6 H.E.A.T (Square)

Machine table without tooling
Working area:
  X: 650 mm
  Y: 450 mm

Horizontal configuration
This configuration displays one 3Ruler, but two cross bars may be used.
Working area:
  X: 650 mm
  Y: 411 mm

Vertical configuration
This configuration displays one 3Ruler, but two cross bars may be used.
Working area:
  X: 612 mm
  Y: 450 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.
**MIC – Machine Interface Configuration**

**Makino – U6 (U-shape)**

Machine table without tooling
Working area:
- X: 650 mm
- Y: 450 mm

**Horizontal configuration**
This configuration display one 3Ruler, but two cross bars may be used.

Working area:
- X: 650 mm
- Y: 450 mm

**Vertical configuration**
This U-shaped machine-table, does not support 3Ruler.

Working area:
- X: 650 mm
- Y: 450 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.
MIC – Machine Interface Configuration

Makino – U32j, UP32j, W32FB (Square)

Machine table without tooling
Working area:
X: 370 mm
Y: 270 mm

Horizontal configuration
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
X: 370 mm
Y: 270 mm

Vertical configuration
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
X: 312 mm
Y: 270 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.
MIC – Machine Interface Configuration

July 10, 2019
Subject to modifications
MIC-2837

Makino – U32j, UP32j, W32FB (U-shape)

Machine table without tooling
Working area:
X: 370 mm
Y: 270 mm

Horizontal configuration
This configuration display one 3Ruler, but two cross bars may be used.

Working area:
X: 370 mm
Y: 270 mm

Vertical configuration
This U-shaped machine-table, does not support 3Ruler.

Working area:
X: 370 mm
Y: 270 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.

3R-200.44J-1 (2x)
Reference rail
NOTE: Both rails are mounted 180°

3R-239-415
3Ruler

3R-200.3J-1 (1x)
Reference rail may alone or together with 3R-200.44J-1 support products other than 3Ruler
MIC – Machine Interface Configuration

Makino – U53j, U53Tj, UP53j, W53FB (Square)

Machine table without tooling
Working area:
X: 550 mm
Y: 370 mm

Horizontal configuration
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
X: 550 mm
Y: 370 mm

Vertical configuration
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
X: 487 mm
Y: 370 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.
MIC – Machine Interface Configuration

July 10, 2019
Subject to modifications
MIC-2839

Makino – U53j, U53Tj, UP53j, W53FB (U-shape)

Machine table without tooling
Working area:
X: 550 mm
Y: 370 mm

Horizontal configuration
This configuration display one 3Ruler, but two cross bars may be used.

Working area:
X: 550 mm
Y: 370 mm

Vertical configuration
This U-shaped machine-table, does not support 3Ruler.

Working area:
X: 550 mm
Y: 370 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.
**MIC – Machine Interface Configuration**

**Makino – U86 (L-shape)**

Machine table without tooling
Working area:
- X: 800 mm
- Y: 600 mm

**Horizontal configuration**
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
- X: 800 mm
- Y: 600 mm

**Vertical configuration**
This L-shaped machine-table, does not support 3Ruler.
Working area:
- X: 800 mm
- Y: 600 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like:
- 3R-243.2-1 or 3R-272HP.
**MIC – Machine Interface Configuration**

**Makino – U1310 (L-shape)**

Machine table without tooling

**Working area:**
- X: 1310 mm
- Y: 1010 mm

**Horizontal configuration**

This configuration displays one 3Ruler, but two cross bars may be used.

**Working area:**
- X: 1310 mm
- Y: 1010 mm

**Vertical configuration**

This L-shaped machine-table does not support 3Ruler.

**Working area:**
- X: 1310 mm
- Y: 1010 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-243.2-1 or 3R-272HP.
**MIC – Machine Interface Configuration**

Makino – PX36, UP6

**Machine table without tooling**
Working area:
- X: 650 mm
- Y: 470 mm

**Horizontal configuration**
This configuration display one 3Ruler, but two cross bars may be used.

Working area:
- X: 650 mm
- Y: 371 mm

**Vertical configuration**
This configuration display one 3Ruler, but two cross bars may be used.

Working area:
- X: 612 mm
- Y: 470 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.

**NOTE:** There is no threading in table thus cut off 50 mm of reference rail for optimal performance.
MIC – Machine Interface Configuration

Makino – UPV-3

Makino – UPV-3

Machine table without tooling
Working area:
X: 370 mm
Y: 270 mm

Horizontal configuration
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
X: 370 mm
Y: 270 mm

Vertical configuration
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
X: 312 mm
Y: 270 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.
MIC – Machine Interface Configuration

Makino – UPV-5

Machine table without tooling
Working area:
X: 550 mm
Y: 370 mm

Horizontal configuration
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
X: 550 mm
Y: 370 mm

Vertical configuration
This configuration display one 3Ruler, but two cross bars may be used.
Working area:
X: 487 mm
Y: 370 mm

See also TPS-sheet “3R-239-xxx” covering 3Ruler and recommended accessories.

Note: The reference rail also enables the use of other products like: 3R-218-S, 3R-243.2-1 or 3R-272HP.