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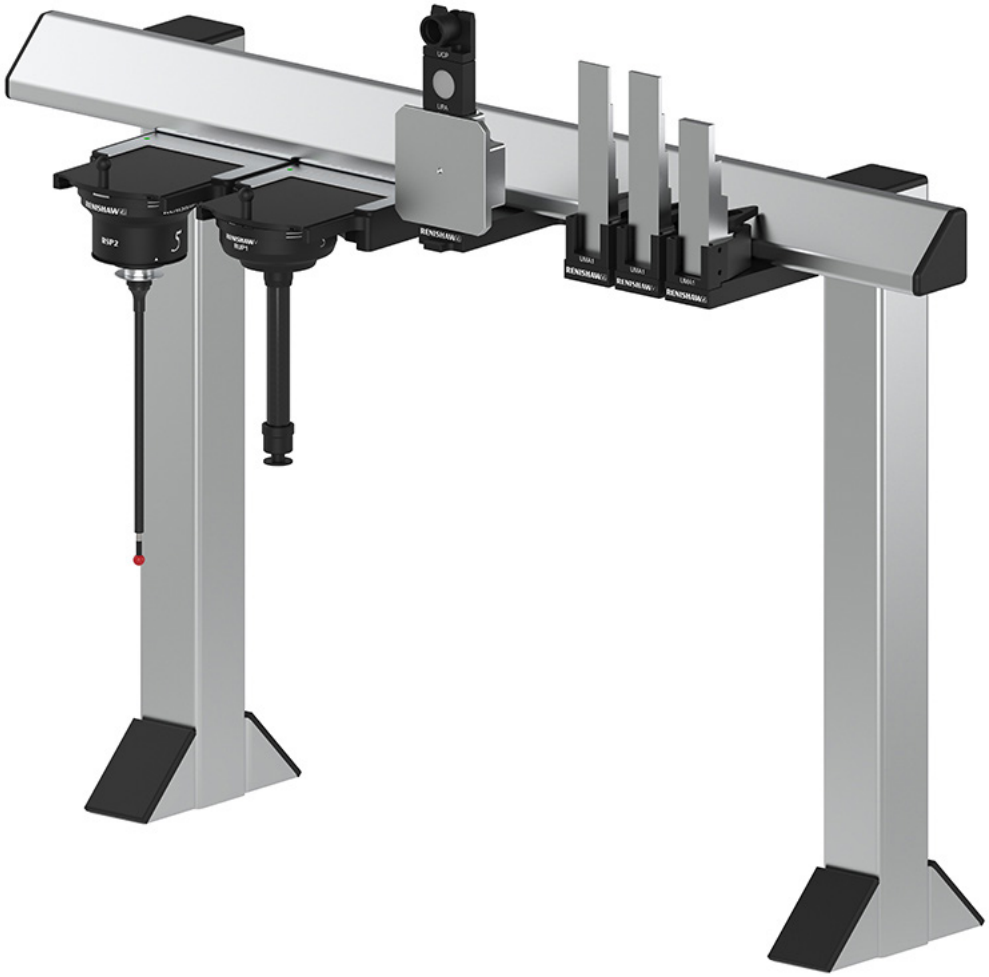
REVO-2 change system port spacing



www.renishaw.com/REVO-2

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Contents

References and associated documents

The following Renishaw documents are referred to in this document or may be a source of further relevant information. They can easily be acquired from Renishaw web site www.renishaw.com.

Title	Document number
Installation and user's guide: REVO-2 and RSP2	H-1000-7590
Installation and user's guide: RSP3	H-1000-5124
Installation and user's guide: SFP2	H-1000-5365
User's guide: RVP	H-1000-3322
User's guide: RFP1	H-1000-5430
User's guide: RUP1	H-1000-5396
User's guide: RTP1	H-1000-5406
User's guide: SP25M	H-1000-5104
Installation guide: UCC S5	H-1000-7598
Installation guide: SPA3-2	H-1000-5364
Installation & user's guide: MCUlite-2, MCU5-2 and MCU W-2	H-1000-5280
Installation and user's guide: MRS modular rack system	H-1000-5088
Installation guide: MRS2 modular rack system	H-1000-5255
Technical specifications guide: Styli and accessories	H-1000-3200

Spacing REVO-2 ports

It is imperative that adjacent ports and artefacts are positioned correctly on the Renishaw modular rack system. Failure to position ports and artefacts correctly could result in the REVO head colliding with counterbalance arms, sensors or artefacts. The correct spacing for each port and artefact is detailed in this guide.

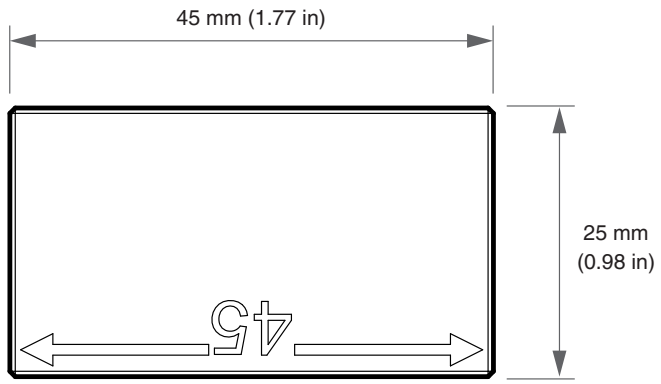
Setting the correct spacing

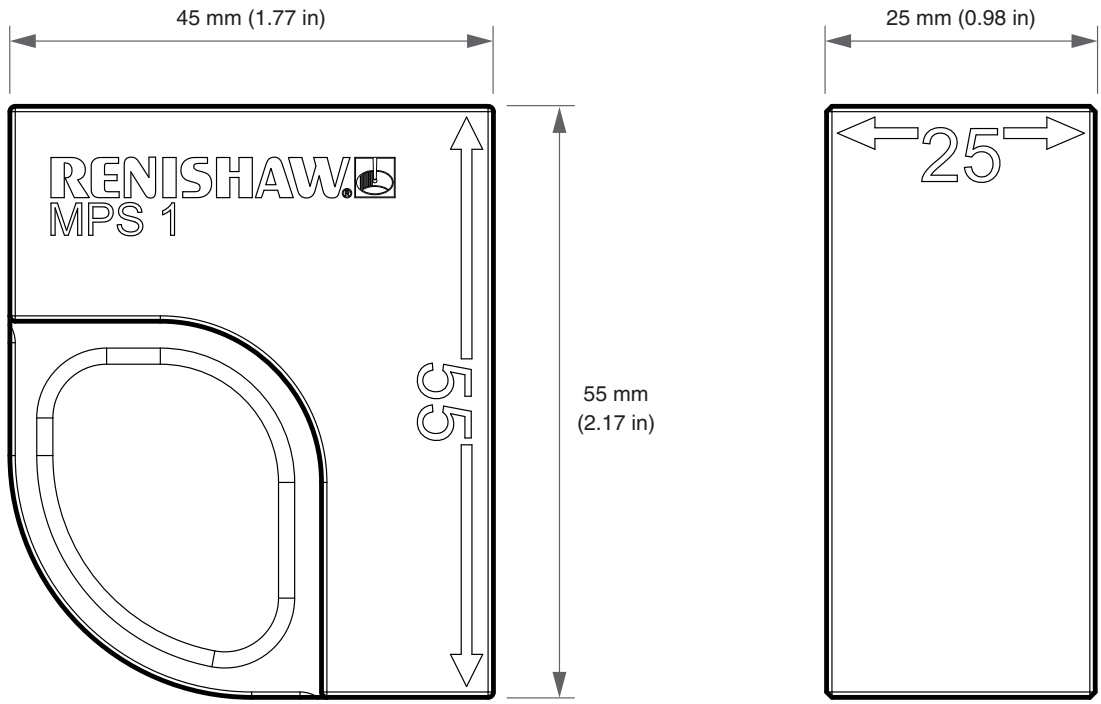
Port and artefact spacing can be set by any appropriate measuring tool or method. MPS1 and MPS2 port spacing tools are available to provide a quick method of setting the most commonly required spacing.

Dimensions

	Height	Width	Depth
MPS1	55 mm	45 mm	25 mm

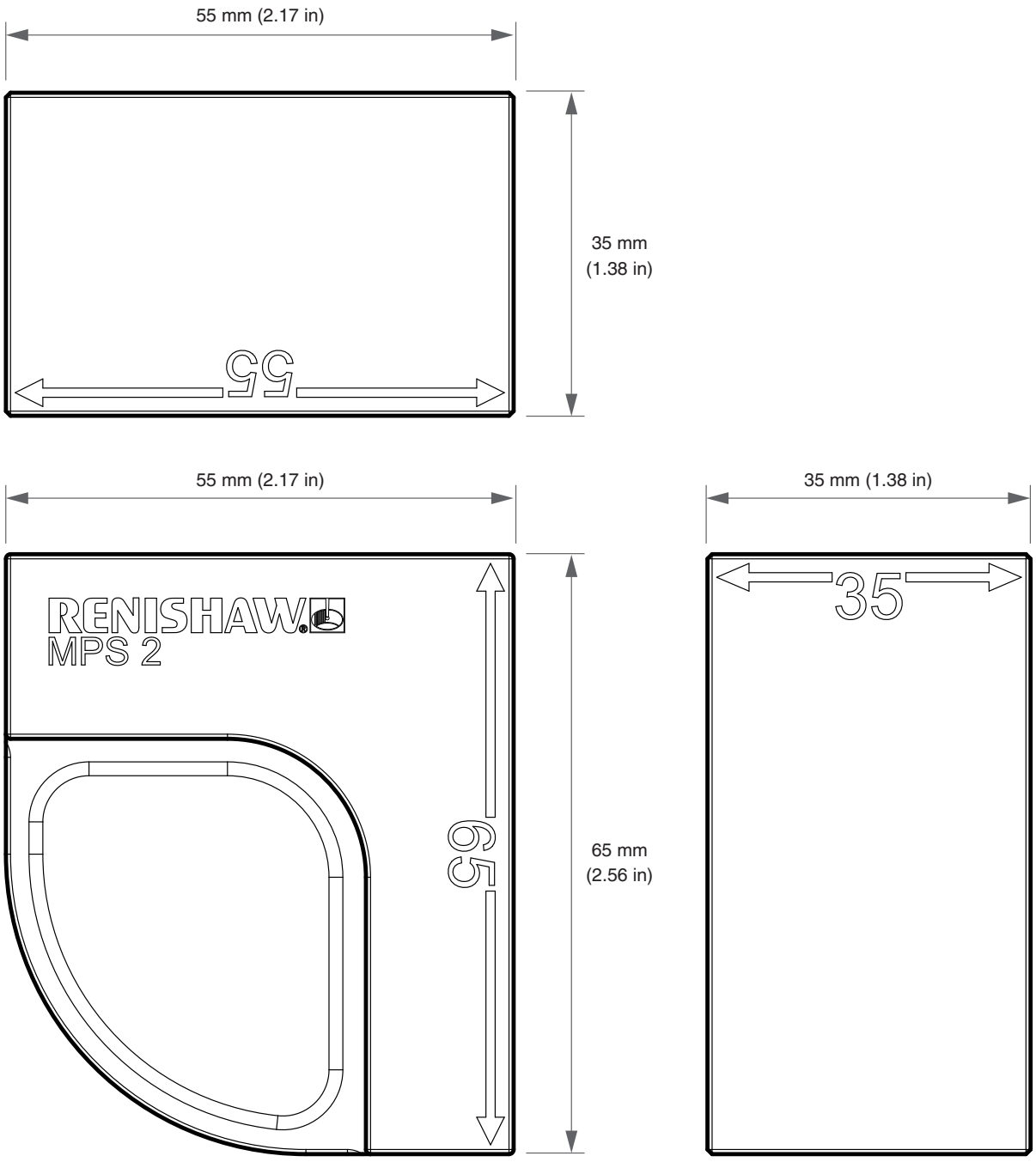
MPS1





	Height	Width	Depth
MPS2	65 mm	55 mm	35 mm

MPS2



Spacing guidance for the REVO-2 system

Sensor		RSH#	RSH3-6	SFH-#	RSP2	RSP3-#	RUP1	RTP1	RSP3-6	SFP2	RSH3-#	VM#	ACM	RVP	RFP1	-	-
	Port / artefact	RCP2	RCP2	RCP2	RCP TC-2	RCP TC-2	RCP TC-3	RCP TC-3	RCP TC-3	RCP TC-3	FCR25	VMCP	VMCP	VPCP	VPCP	RUP1 artefact	RUP1 cal. plate
RSH#	RCP2	0	0	0	0	0	0	0	45	45	0	0	0	50	50	20	20
RSH3-6	RCP2	0	0	0	0	0	0	0	15	50	0	0	0	60	60	20	5
SFH-#	RCP2	0	0	0	0	0	0	0	50	15	0	0	0	65	65	35	0
RSP2	RCP TC-2	0	0	0	0	0	0	0	25	25	0	0	0	35	35	5	5
RSP3-#	RCP TC-2	0	0	0	0	0	0	0	25	25	0	0	0	35	35	5	5
RUP1	RCP TC-3	0	0	0	0	0	0	0	30	25	0	0	0	35	35	2	2
RTP1	RCP TC-3	0	0	0	0	0	0	0	30	25	0	0	0	35	35	2	2
RSP3-6	RCP TC-3	45	15	50	25	25	30	30	50	45	55	30	65	55	55	15	25
SFP2	RCP TC-3	45	50	15	25	25	25	25	45	45	55	30	60	55	50	15	25
RSH3-#	FCR25	0	0	0	0	0	0	0	55	55	0	0	0	65	65	35	35
VM#	VMCP	0	0	0	0	0	0	0	30	30	0	0	0	0	65	35	20
ACM	VMCP	0	0	0	0	0	0	0	65	60	0	0	0	0	65	40	30
RVP	VPCP	50	60	65	35	35	35	35	55	55	65	0	0	65	65	30	45
RFP1	VPCP	50	60	65	35	35	35	35	55	50	65	65	65	65	65	30	45
-	RUP1 artefact	20	20	35	5	5	5	5	15	15	35	35	40	30	30	0	0
-	RUP1 cal. plate	20	5	0	5	5	5	5	25	25	35	20	30	45	45	0	0

CAUTION: It is imperative that the ports used to store adjacent sensors and artefacts are positioned according to the guidelines above. Failure to follow these guidelines could result in collisions between the REVO-2 head and the counterbalance arms of other sensors.

NOTE: For SFA artefacts, see page 18. For TFP tip find probe, see page 19.

RCP2	RCP TC-2	RCP TC-3	FCR25
			
VMCP	**VPCP**	**RUP1 artefact**	**RUP1 calibration plate**
			

RSP2

The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RSP2 in an RCP TC-2 port.

Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RCP TC-2 with RSP2	RCP2	RSH#	0	-
	RCP2	RSH3-6	0	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	0	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	0	-
	RCP TC-3	RUP1	0	-
	RCP TC-3	RTP1	0	-
	RCP TC-3	RSP3-6	25	MPS1 (25)
	RCP TC-3	SFP2	25	MPS1 (25)
	FCR25	RSH3 (-1, -2, -3 and -4)	0	-
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	35	MPS2 (35)
	VPCP	RFP1	35	MPS2 (35)
	RUP1 artefacts	-	5	-
	RUP1 XY calibration plate	-	5	-

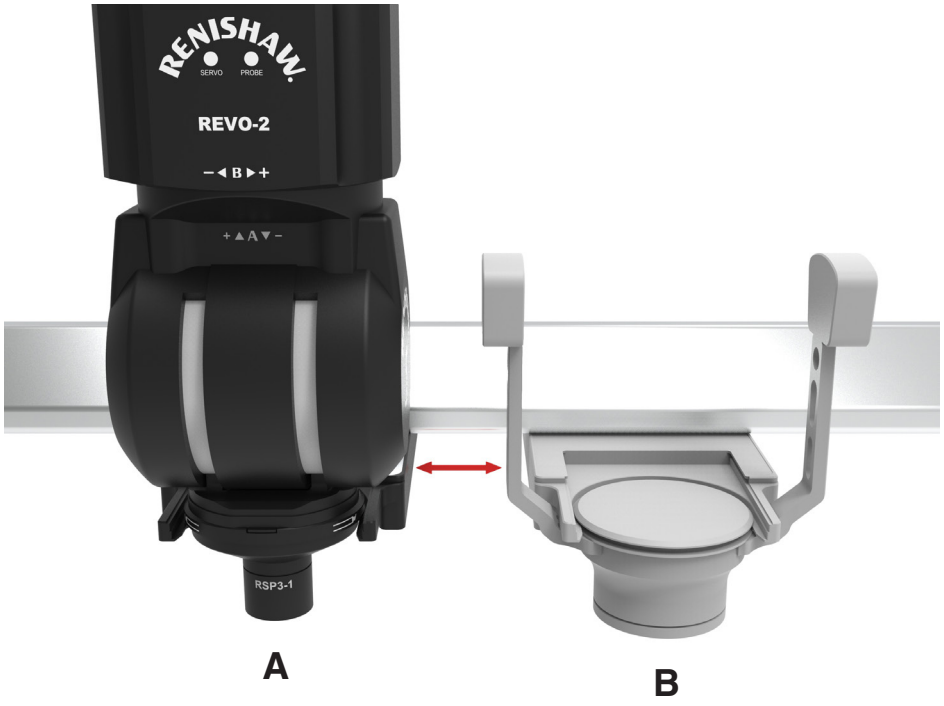
RSH#

The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RSH# in an RCP2 port.

Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RCP2 with RSH#	RCP2	RSH#	0	-
	RCP2	RSH3-6	0	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	0	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	0	-
	RCP TC-3	RUP1	0	-
	RCP TC-3	RTP1	0	-
	RCP TC-3	RSP3-6	45	MPS1 (45)
	RCP TC-3	SFP2	45	MPS1 (45)
	FCR25	RSH3 (-1, -2, -3 and -4)	0	-
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	50	MPS1 or MPS2 (55)
	VPCP	RFP1	50	MPS1 or MPS2 (55)
	RUP1 artefacts	-	20	MPS1 (25)
	RUP1 XY calibration plate	-	20	MPS1 (25)

RSP3 (-1, -2, -3 and -4)

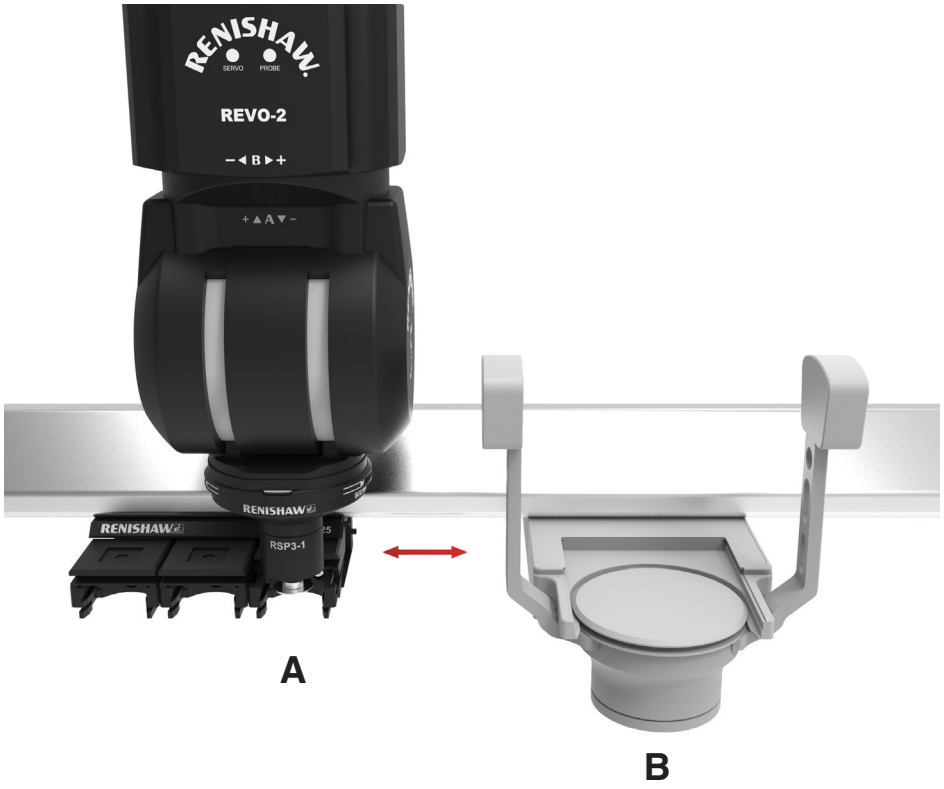
The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RSP3-# in an RCP TC-2 port.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RCP TC-2 with RSP3-#	RCP2	RSH#	0	-
	RCP2	RSH3-6	0	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	0	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	0	-
	RCP TC-3	RUP1	0	-
	RCP TC-3	RTP1	0	-
	RCP TC-3	RSP3-6	25	MPS1 (25)
	RCP TC-3	SFP2	25	MPS1 (25)
	FCR25	RSH3 (-1, -2, -3 and -4)	0	-
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	35	MPS2 (35)
	VPCP	RFP1	35	MPS2 (35)
	RUP1 artefacts	-	5	-
	RUP1 XY calibration plate	-	5	-

RSH3 (-1, -2, -3 and -4)

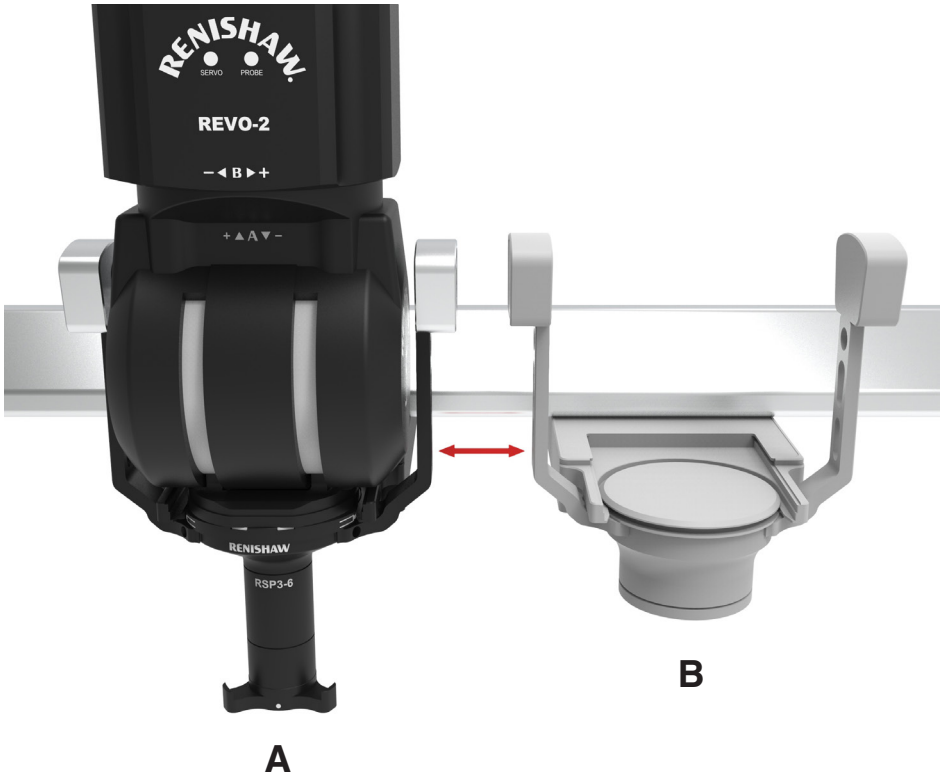
The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RSH3-# in an FCR25 rack.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
FCR25 with RSH3-#	RCP2	RSH#	0	-
	RCP2	RSH3-6	0	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	0	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	0	-
	RCP TC-3	RUP1	0	-
	RCP TC-3	RTP1	0	-
	RCP TC-3	RSP3-6	55	MPS1 or MPS2 (55)
	RCP TC-3	SFP2	55	MPS1 or MPS2 (55)
	FCR25	RSH3 (-1, -2, -3 and -4)	0	-
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	65	MPS2 (65)
	VPCP	RFP1	65	MPS2 (65)
	RUP1 artefacts	-	35	MPS2 (35)
	RUP1 XY calibration plate	-	35	MPS2 (35)

RSP3-6

The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RSP3-6 in an RCP TC-3 port.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RCP TC-3 with RSP3-6	RCP2	RSH#	45	MPS1 (45)
	RCP2	RSH3-6	15	-
	RCP2	SFH (-1 and -2)	50	MPS1 or MPS2 (55)
	RCP TC-2	RSP2	25	MPS1 (25)
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	25	MPS1 (25)
	RCP TC-3	RUP1	30	MPS2 (35)
	RCP TC-3	RTP1	30	MPS2 (35)
	RCP TC-3	RSP3-6	50	MPS1 or MPS2 (55)
	RCP TC-3	SFP2	45	MPS1 (45)
	FCR25	RSH3 (-1, -2, -3 and -4)	55	MPS1 or MPS2 (55)
	VMCP	VM10, VM11-2 and VM12	30	MPS2 (35)
	VMCP	ACM	65	MPS2 (65)
	VPCP	RVP	55	MPS1 or MPS2 (55)
	VPCP	RFP1	55	MPS1 or MPS2 (55)
	RUP1 artefacts	-	15	-
	RUP1 XY calibration plate	-	25	MPS1 (25)

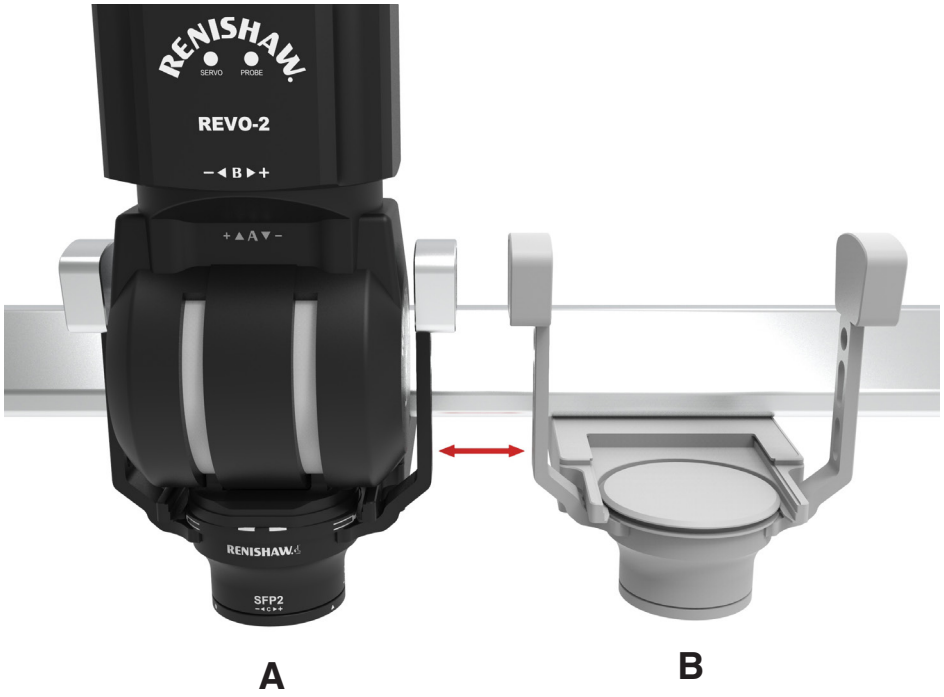
RSH3-6

The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RSH3-6 in an RCP2 port.

Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RCP2 with RSH3-6	RCP2	RSH#	0	-
	RCP2	RSH3-6	0	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	0	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	0	-
	RCP TC-3	RUP1	0	-
	RCP TC-3	RTP1	0	-
	RCP TC-3	RSP3-6	15	-
	RCP TC-3	SFP2	50	MPS1 or MPS2 (55)
	FCR25	RSH3 (-1, -2, -3 and -4)	0	-
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	60	MPS2 (65)
	VPCP	RFP1	60	MPS2 (65)
	RUP1 artefacts	-	20	MPS1 (25)
	RUP1 XY calibration plate	-	5	-

SFP2

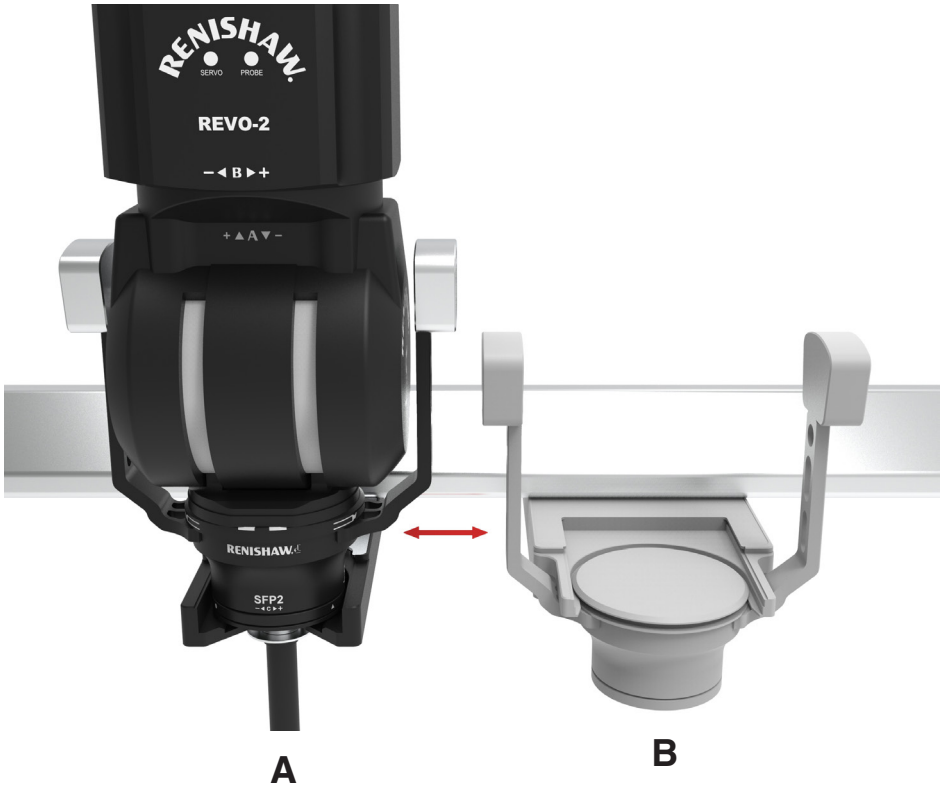
The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an SFP2 in an RCP TC-3 port.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RCP TC-3 with SFP2	RCP2	RSH#	45	MPS1 (45)
	RCP2	RSH3-6	50	MPS1 or MPS2 (55)
	RCP2	SFH (-1 and -2)	15	-
	RCP TC-2	RSP2	25	MPS1 (25)
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	25	MPS1 (25)
	RCP TC-3	RUP1	25	MPS1 (25)
	RCP TC-3	RTP1	25	MPS1 (25)
	RCP TC-3	RSP3-6	45	MPS1 (45)
	RCP TC-3	SFP2	45	MPS1 (45)
	FCR25	RSH3 (-1, -2, -3 and -4)	55	MPS1 or MPS2 (55)
	VMCP	VM10, VM11-2 and VM12	30	MPS2 (35)
	VMCP	ACM	60	MPS2 (65)
	VPCP	RVP	55	MPS1 or MPS2 (55)
	VPCP	RFP1	50	MPS1 or MPS2 (55)
	RUP1 artefacts	-	15	-
	RUP1 XY calibration plate	-	25	MPS1 (25)

SFH (-1 and -2)

The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an SFH-# in an RCP2 port.

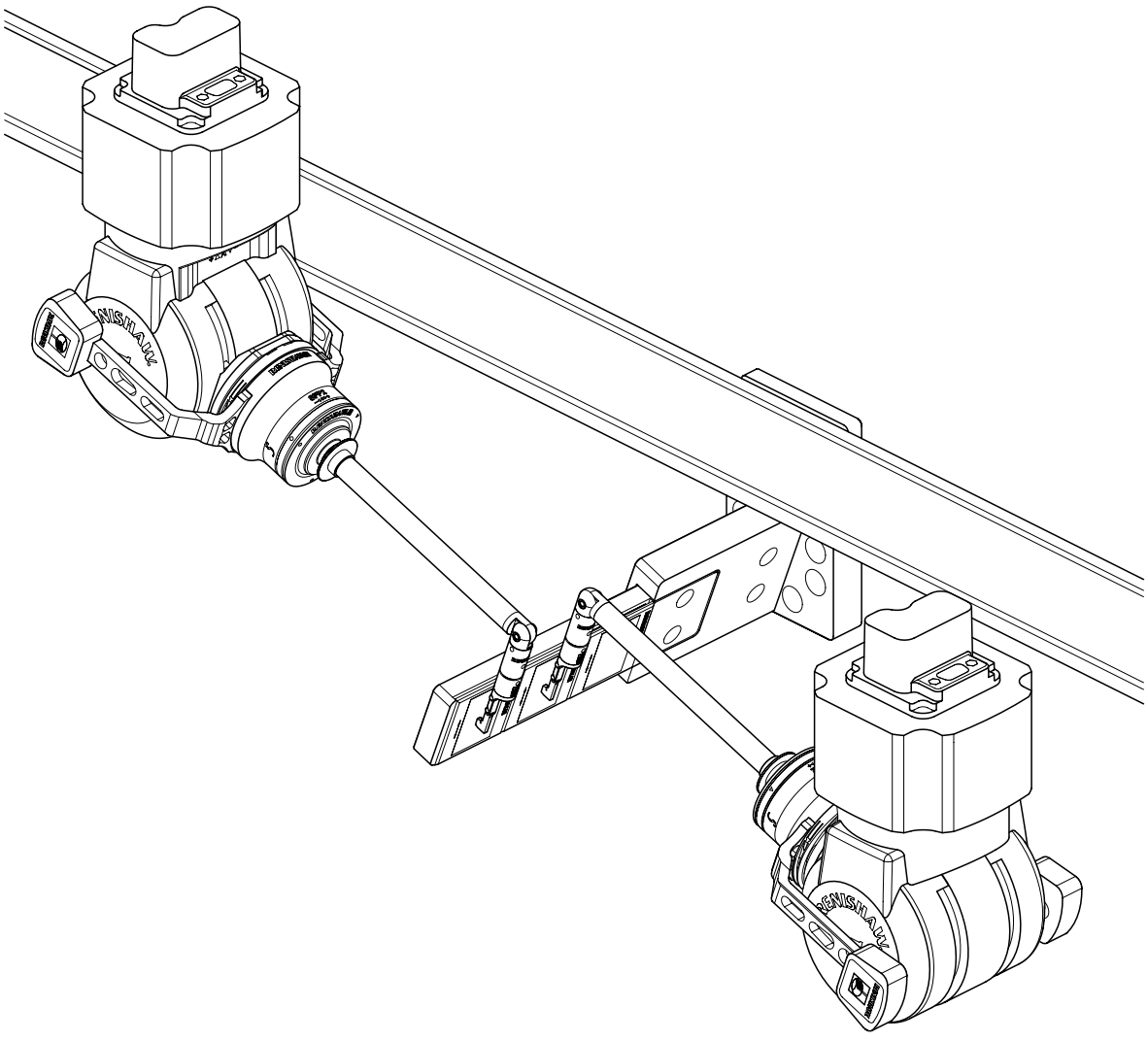


Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RCP2 with SFH-#	RCP2	RSH#	0	-
	RCP2	RSH3-6	0	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	0	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	0	-
	RCP TC-3	RUP1	0	-
	RCP TC-3	RTP1	0	-
	RCP TC-3	RSP3-6	50	MPS1 or MPS2 (55)
	RCP TC-3	SFP2	15	-
	FCR25	RSH3 (-1, -2, -3 and -4)	0	-
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	65	MPS2 (65)
	VPCP	RFP1	65	MPS2 (65)
	RUP1 artefacts	-	35	MPS2 (35)
	RUP1 XY calibration plate	-	0	-

SFA

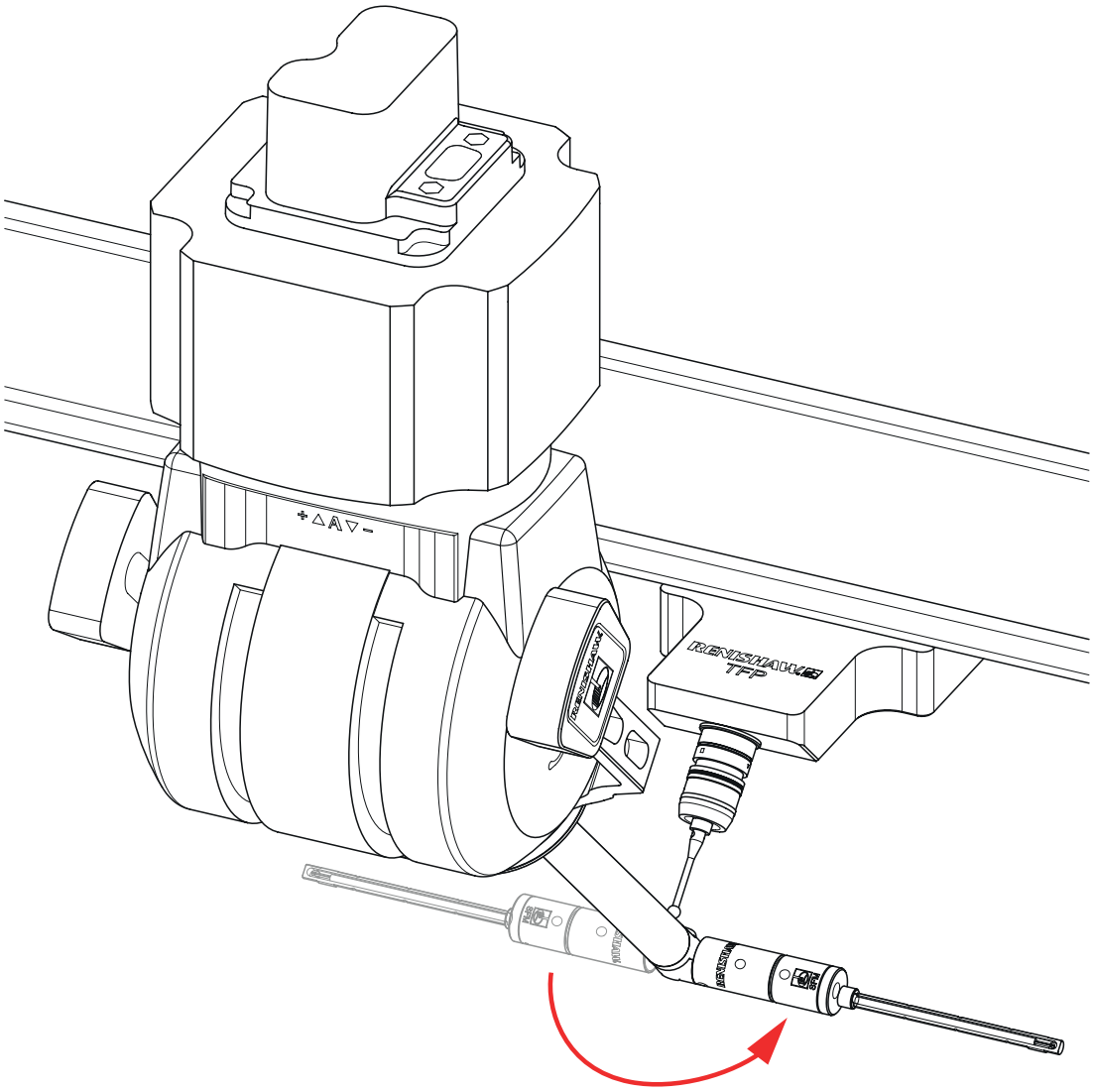
SFA artefacts are mounted to the rail via SFAH-# holders and plates. The mounting angle is adjustable to suit the SFM-# modules and knuckle angles in use. Rail space is required for movement of the REVO head around the artefact and is dependent on the modules, knuckle angles and SFAH-# mounting angle. The mounting angle can be optimised to reduce rail spacing requirements.

The images below show the SFA mounting arrangement that covers all possible SFM-# module and knuckle angle combinations. The module / knuckle arrangements shown in the image demonstrate the maximum possible extent of the space required. It is the responsibility of the system installer to ensure sufficient space is provided to allow the SFA artefact to be used.



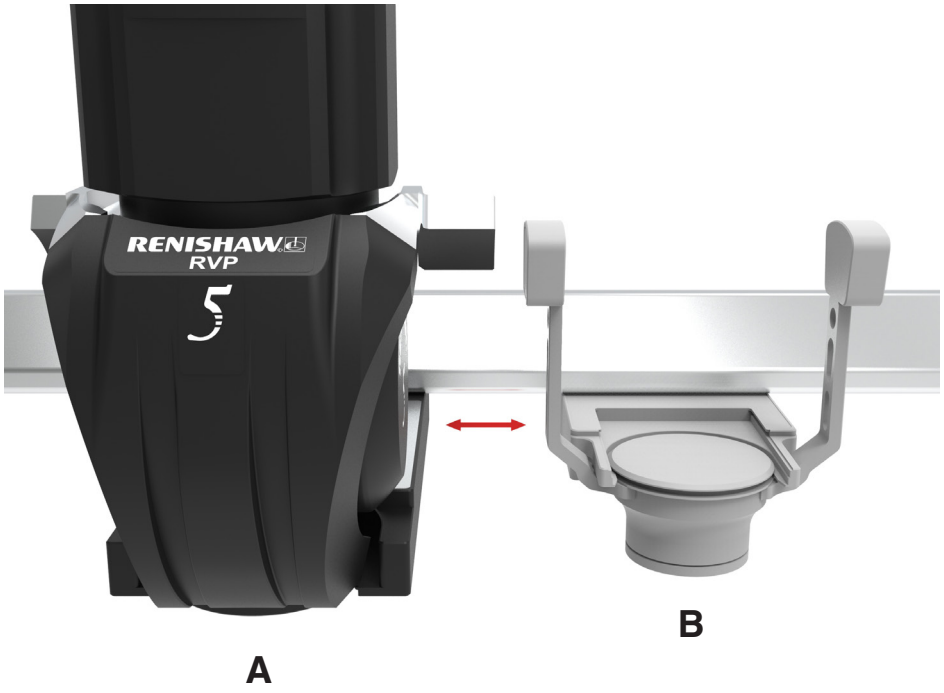
TFP

Rail space is required around the TFP to accommodate the module during calibration of the C-axis geometry, knuckle angle and tip position. The space required is dependent on the module length and knuckle angle. It is at maximum with a knuckle angle of 90° and is required equally on both sides. It is the responsibility of the system installer to ensure sufficient space is provided to allow the TFP to be used.



RVP

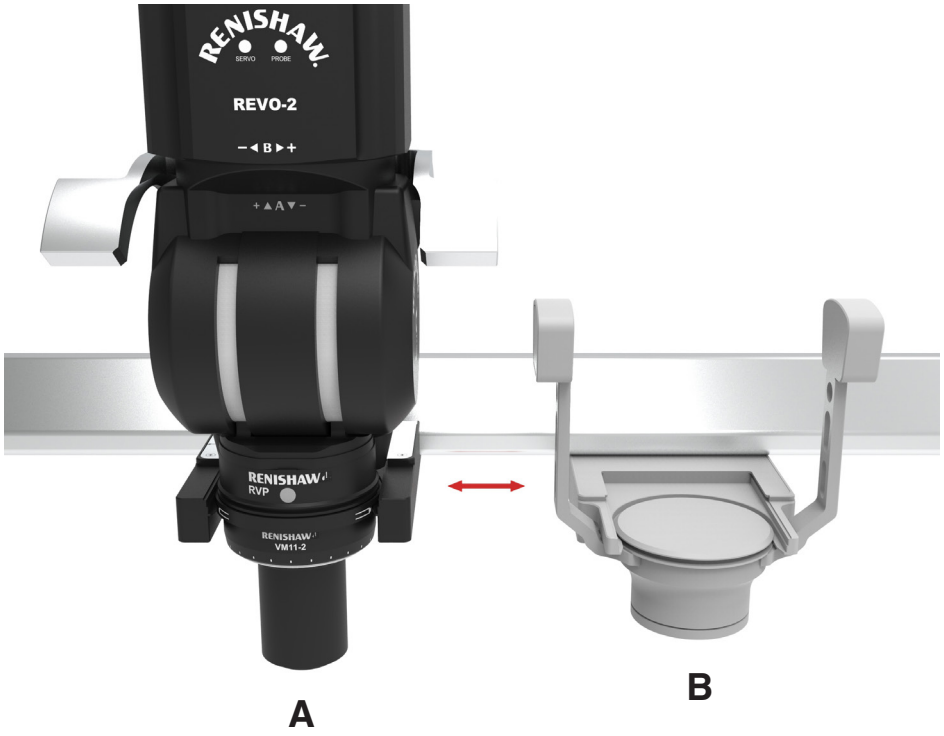
The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RVP in a VPCP port.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
VPCP with RVP	RCP2	RSH#	50	MPS1 or MPS2 (55)
	RCP2	RSH3-6	60	MPS2 (65)
	RCP2	SFH (-1 and -2)	65	MPS2 (65)
	RCP TC-2	RSP2	35	MPS2 (35)
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	35	MPS2 (35)
	RCP TC-3	RUP1	35	MPS2 (35)
	RCP TC-3	RTP1	35	MPS2 (35)
	RCP TC-3	RSP3-6	55	MPS1 or MPS2 (55)
	RCP TC-3	SFP2	55	MPS1 or MPS2 (55)
	FCR25	RSH3 (-1, -2, -3 and -4)	65	MPS2 (65)
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	65	MPS2 (65)
	VPCP	RFP1	65	MPS2 (65)
	RUP1 artefacts	-	30	MPS2 (35)
	RUP1 XY calibration plate	-	45	MPS1 (45)

VM10, VM11-2 and VM12

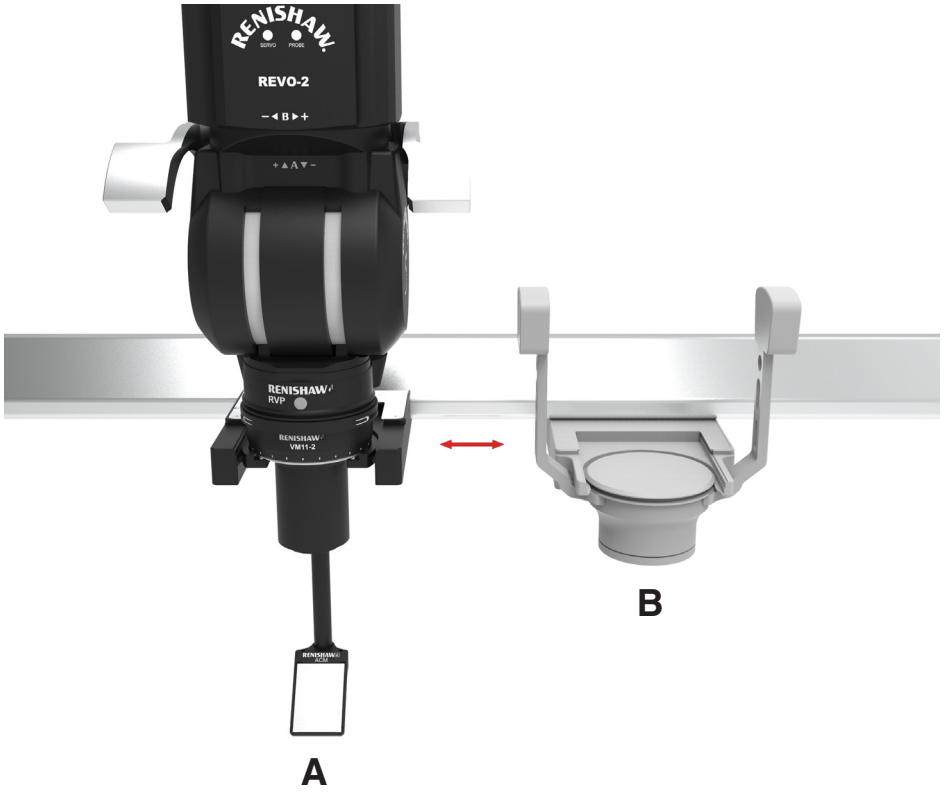
The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to a VM# in a VMCP port.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
VMCP with VM#	RCP2	RSH#	0	-
	RCP2	RSH3-6	0	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	0	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	0	-
	RCP TC-3	RUP1	0	-
	RCP TC-3	RTP1	0	-
	RCP TC-3	RSP3-6	30	MPS2 (35)
	RCP TC-3	SFP2	30	MPS2 (35)
	FCR25	RSH3 (-1, -2, -3 and -4)	0	-
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	0	-
	VPCP	RFP1	65	MPS2 (65)
	RUP1 artefacts	-	35	MPS2 (35)
	RUP1 XY calibration plate	-	20	MPS1 (25)

ACM

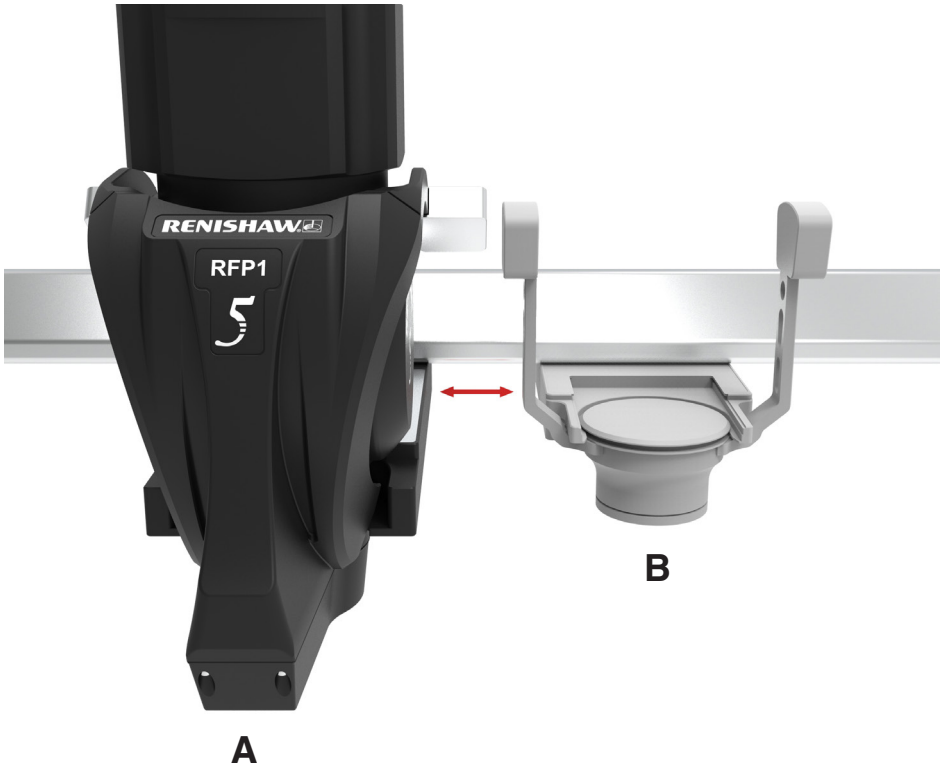
The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an ACM in a VMCP port.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
VMCP with ACM	RCP2	RSH#	0	-
	RCP2	RSH3-6	0	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	0	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	0	-
	RCP TC-3	RUP1	0	-
	RCP TC-3	RTP1	0	-
	RCP TC-3	RSP3-6	65	MPS2 (65)
	RCP TC-3	SFP2	60	MPS2 (65)
	FCR25	RSH3 (-1, -2, -3 and -4)	0	-
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	0	-
	VPCP	RFP1	65	MPS2 (65)
	RUP1 artefacts	-	40	MPS1 (45)
	RUP1 XY calibration plate	-	30	MPS2 (35)

RFP1

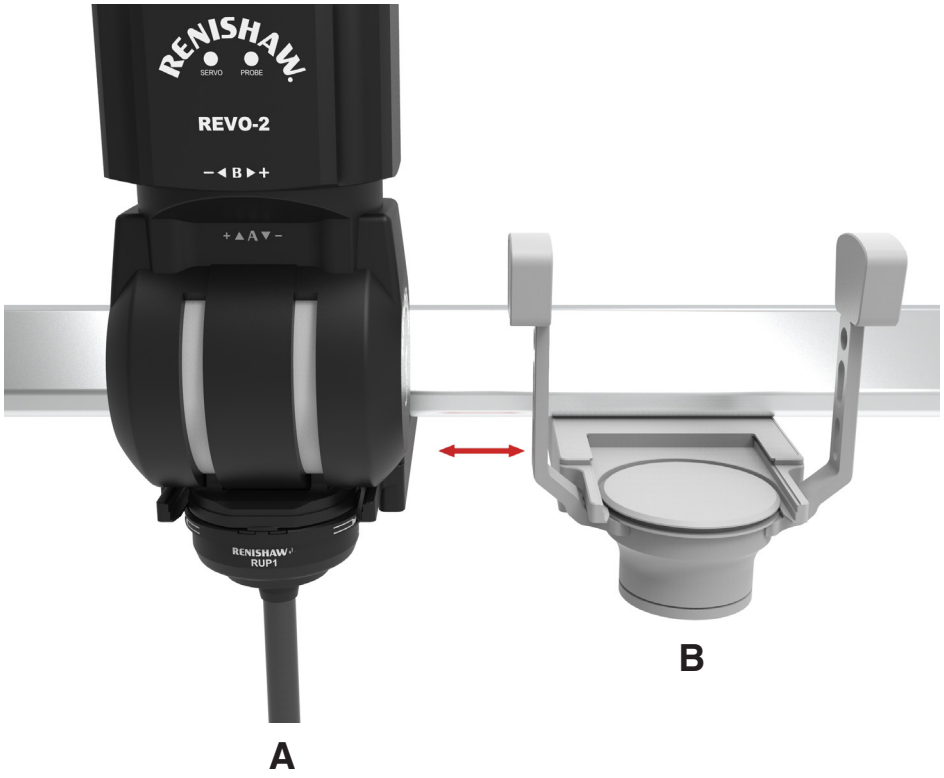
The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RFP1 in a VPCP port.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
VPCP with RFP1	RCP2	RSH#	50	MPS1 or MPS2 (55)
	RCP2	RSH3-6	60	MPS2 (65)
	RCP2	SFH (-1 and -2)	65	MPS2 (65)
	RCP TC-2	RSP2	35	MPS2 (35)
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	35	MPS2 (35)
	RCP TC-3	RUP1	35	MPS2 (35)
	RCP TC-3	RTP1	35	MPS2 (35)
	RCP TC-3	RSP3-6	55	MPS1 or MPS2 (55)
	RCP TC-3	SFP2	50	MPS1 or MPS2 (55)
	FCR25	RSH3 (-1, -2, -3 and -4)	65	MPS2 (65)
	VMCP	VM10, VM11-2 and VM12	65	MPS2 (65)
	VMCP	ACM	65	MPS2 (65)
	VPCP	RVP	65	MPS2 (65)
	VPCP	RFP1	65	MPS2 (65)
	RUP1 artefacts	-	30	MPS2 (35)
	RUP1 XY calibration plate	-	45	MPS1 (45)

RUP1

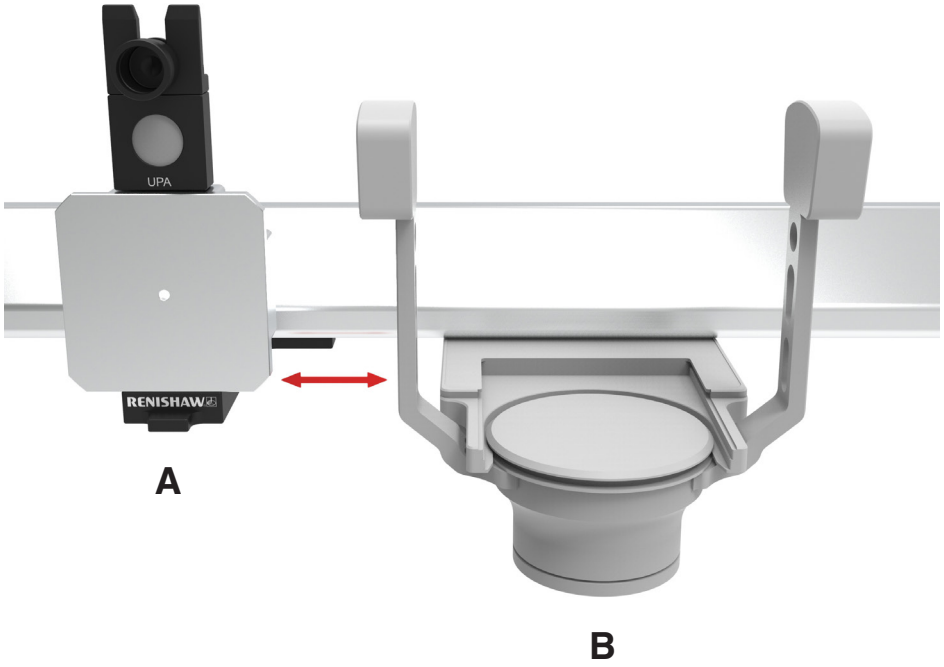
The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RUP1 in an RCP TC-3 port.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RCP TC-3 with RUP1	RCP2	RSH#	0	-
	RCP2	RSH3-6	0	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	0	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	0	-
	RCP TC-3	RUP1	0	-
	RCP TC-3	RTP1	0	-
	RCP TC-3	RSP3-6	30	MPS2 (35)
	RCP TC-3	SFP2	25	MPS1 (25)
	FCR25	RSH3 (-1, -2, -3 and -4)	0	-
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	35	MPS2 (35)
	VPCP	RFP1	35	MPS2 (35)
	RUP1 artefacts	-	5	-
	RUP1 XY calibration plate	-	5	-

RUP1 artefacts

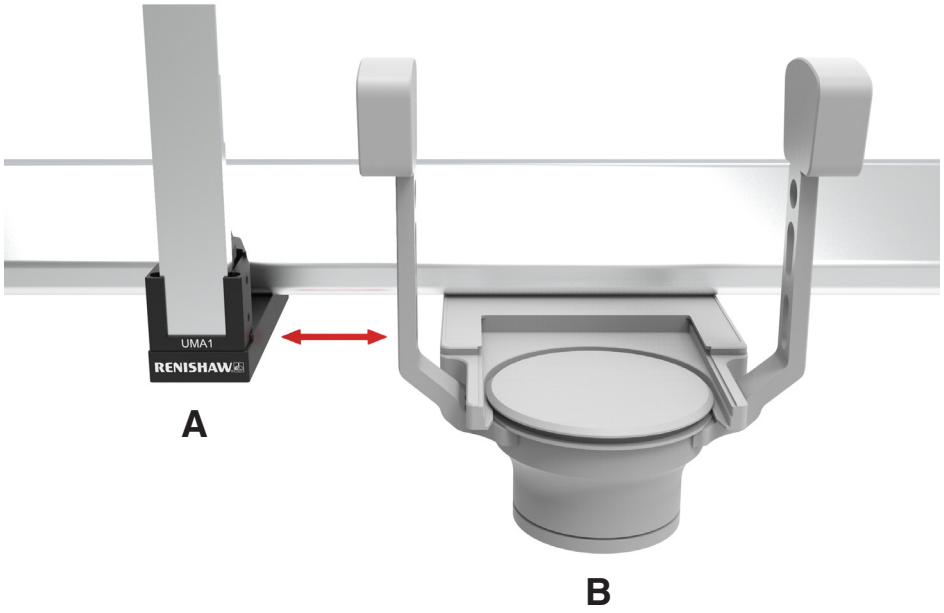
The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to the RUP1 artefacts.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RUP1 artefacts	RCP2	RSH#	20	MPS1 (25)
	RCP2	RSH3-6	20	MPS1 (25)
	RCP2	SFH (-1 and -2)	35	MPS2 (35)
	RCP TC-2	RSP2	5	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	5	-
	RCP TC-3	RUP1	5	-
	RCP TC-3	RTP1	5	-
	RCP TC-3	RSP3-6	15	-
	RCP TC-3	SFP2	15	-
	FCR25	RSH3 (-1, -2, -3 and -4)	35	MPS2 (35)
	VMCP	VM10, VM11-2 and VM12	35	MPS2 (35)
	VMCP	ACM	40	MPS1 (45)
	VPCP	RVP	30	MPS2 (35)
	VPCP	RFP1	30	MPS2 (35)
	RUP1 artefacts	-	0	-
	RUP1 XY calibration plate	-	0	-

RUP1 XY calibration plate

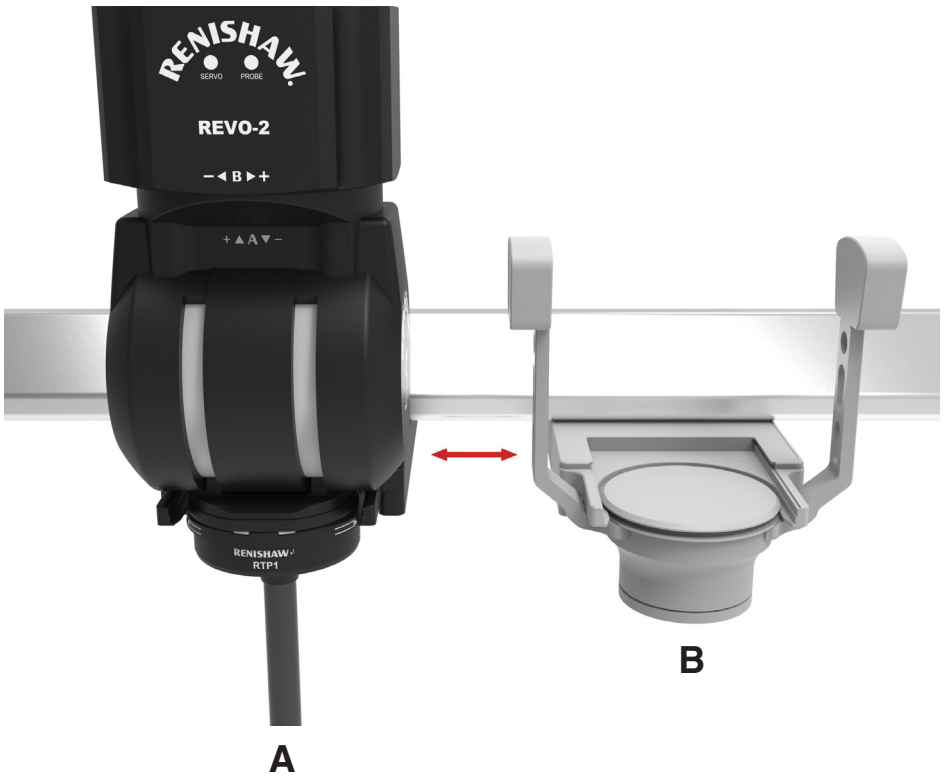
The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RUP1 XY calibration plate.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RUP1 XY calibration plate	RCP2	RSH#	20	MPS1 (25)
	RCP2	RSH3-6	5	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	5	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	5	-
	RCP TC-3	RUP1	5	-
	RCP TC-3	RTP1	5	-
	RCP TC-3	RSP3-6	25	MPS1 (25)
	RCP TC-3	SFP2	25	MPS1 (25)
	FCR25	RSH3 (-1, -2, -3 and -4)	35	MPS2 (35)
	VMCP	VM10, VM11-2 and VM12	20	MPS1 (25)
	VMCP	ACM	30	MPS2 (35)
	VPCP	RVP	45	MPS1 (45)
	VPCP	RFP1	45	MPS1 (45)
	RUP1 artefacts	-	0	-
	RUP1 XY calibration plate	-	0	-

RTP1

The table below shows the recommended spacing for positioning all sensors and artefacts adjacent to an RTP1 in an RCP TC-3 port.



Port and sensor A	Port B	Sensor B	Recommended spacing (mm)	Recommended spacer
RCP TC-3 with RTP1	RCP2	RSH#	0	-
	RCP2	RSH3-6	0	-
	RCP2	SFH (-1 and -2)	0	-
	RCP TC-2	RSP2	0	-
	RCP TC-2	RSP3 (-1, -2, -3 and -4)	0	-
	RCP TC-3	RUP1	0	-
	RCP TC-3	RTP1	0	-
	RCP TC-3	RSP3-6	30	MPS2 (35)
	RCP TC-3	SFP2	25	MPS1 (25)
	FCR25	RSH3 (-1, -2, -3 and -4)	0	-
	VMCP	VM10, VM11-2 and VM12	0	-
	VMCP	ACM	0	-
	VPCP	RVP	35	MPS2 (35)
	VPCP	RFP1	35	MPS2 (35)
	RUP1 artefacts	-	5	-
	RUP1 XY calibration plate	-	5	-

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