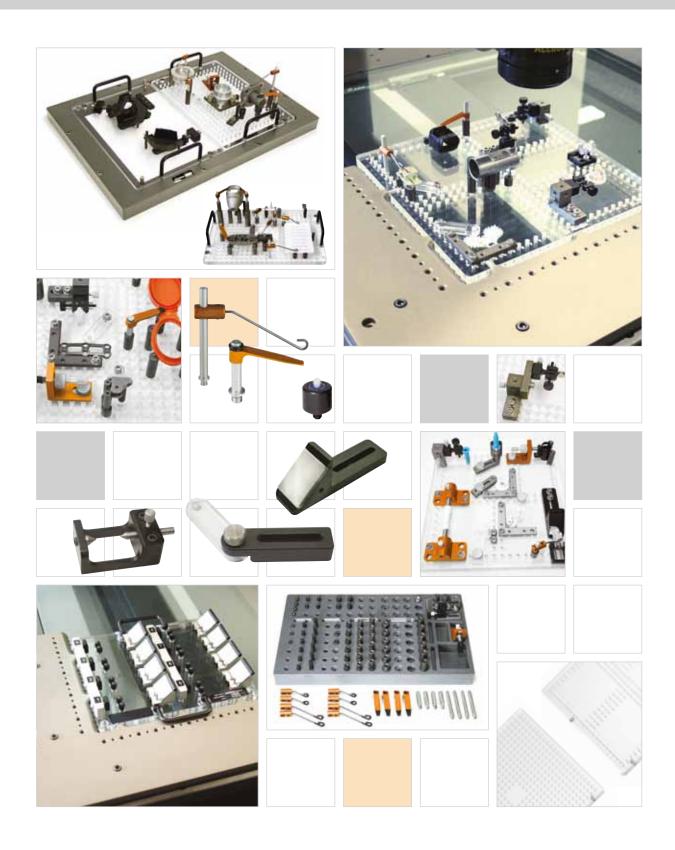


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# **Renishaw vision fixtures**

Your single source for metrology fixturing

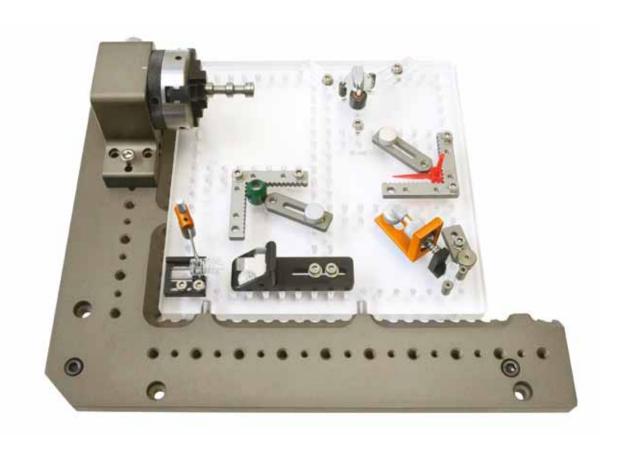






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## Introduction

## Modular fixturing for your vision system

Renishaw vision fixtures are designed for use with vision systems or multi-sensor machines, creating a fast and repeatable way to fixture your part for consistent and accurate inspection.



Quick load corner

Each vision fixture is made with a precision acrylic base plate that allows for backlighting and a clear, clean view of the part. Fixturing components can quickly be threaded into the base plate and arranged in any configuration, allowing the part to be held in a virtually free state with very little force applied to the surface. The part can be viewed easily without obstruction to the backlight or probe path. Fixturing components can be placed within a tight circumference to hold and locate the smallest of parts.

## Renishaw offers two fixturing options to fit your specific vision machine:

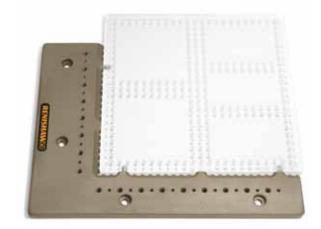
- Quick load corner (QLC)
   designed to fit your specific vision machine
- Interchangeable vision fixture (IVF)
  for vision systems 450 mm × 450 mm or larger,
  customised for your machine and application



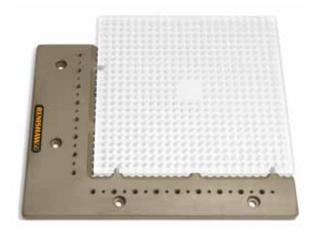
## **Quick load corner**

## **Quick load corner (QLC)**

Renishaw's quick load corner (QLC) system is designed to fit your specific vision machine.



QLC with multi-window plate



QLC with multi-hole plate

This system is made to fit the lower left hand corner of your vision stage and the location of its mounting holes.

The quick load corner contains magnets that enable Renishaw's vision acrylic base plates to snap into a precise and repeatable position, enabling quick and easy loading and unloading of plates.

Steel pins are pressed into the sides of the plate to fit the magnets contained in the QLC.

The edges of the QLC are serrated so that parts can be mounted directly against them and fixed with Renishaw M4 or M6 fixturing components. This enables quick and easy viewing and inspection.

#### There are two plate options to choose from:

#### Multi-hole

Set up and check as many parts as possible at one time with a clear area in the centre of the plate with no holes.

#### Multi-window

More windows for the clearest view of small parts.

Additional sub plates may be purchased for fixturing more parts.

Mounting holes are provided for most major brands of vision systems. To ensure you receive the correct size and proper fit, include your machine make and model number when ordering.



# **QLC** vision fixturing kits

## **Choosing your fixturing kit**

Renishaw vision fixtures are sold in preconfigured kits to make it easy to get started. A kit consists of one acrylic base plate, a quick load corner (QLC) and a comprehensive set of components. The kit to choose will depend on the type of parts you are going to fixture.

#### Renishaw offers two kit choices:

- Multi-hole: more holes for attaching more components
- Multi-window: more windows for optimal viewing of small parts

Kits are available in M4 or M6.

The QLC frame is fitted to your specific vision system. Contact your local sales office stating your machine make and model number to determine which frame you require.

Individual components may also be purchased to expand your fixturing kit.

## How to choose your kit

- 1 Choose a thread size: M4 or M6
- Contact your local sales office to select the correct QLC frame
- Choose a plate type: multi-hole or multi-window
- 4 Choose a set of components





M4 QLC multi-hole vision kit

# **QLC M4 vision kits**

4.1

The QLC M4 vision kit is ideal for parts that fit within a 75 mm  $\times$  75 mm working volume.

A kit includes an acrylic base plate with M4 threaded holes 10 mm on centre, a quick load corner and one set of components (A or B).



NOTE: Each QLC frame is specific to your machine. Please contact your local sales office to determine which frame you need.

#### Plate sizes multi-hole set A

Kit part no.	Base plate size	
R-QLC-PV1-A-4	13 mm × 150 mm × 150 mm	
R-QLC-PV2-A-4	13 mm $\times$ 200 mm $\times$ 200 mm	
R-QLC-PV3-A-4	13 mm × 250 mm × 150 mm	
R-QLC-PV4-A-4	13 mm $\times$ 250 mm $\times$ 250 mm	

#### Plate sizes multi-hole set B

Kit part no.	Base plate size
R-QLC-PV1-B-4	13 mm × 150 mm × 150 mm
R-QLC-PV2-B-4	$13 \text{ mm} \times 200 \text{ mm} \times 200 \text{ mm}$
R-QLC-PV3-B-4	13 mm × 250 mm × 150 mm
R-QLC-PV4-B-4	13 mm × 250 mm × 250 mm

#### Component set A (48) M4 components

Qty	Part no.	Description
3	R-S-610-4	6 mm dia. × 10 mm standoff
3	R-S-625-4	6 mm dia. × 25 mm standoff
3	R-S-95-4	9 mm dia. × 5 mm standoff
3	R-S-910-4	9 mm dia. × 10 mm standoff
3	R-S-920-4	9 mm dia. × 20 mm standoff
3	R-S-925-4	9 mm dia. × 25 mm standoff
3	R-S-1210-4	12 mm dia. × 10 mm standoff
3	R-S-1225-4	12 mm dia. × 25 mm standoff
2	R-SP-610-4	6 mm dia. × 10 mm pin standoff
2	R-SP-910-4	9 mm dia. × 10 mm pin standoff
2	R-CTT-40-25-4	40 mm tension clamp with coated soft tip, 25 mm post
2	R-CWT-25-25-4	25 mm wire clamp with coated soft tip, 25 mm post
2	R-CWT-50-50-4	50 mm wire clamp with coated soft tip, 50 mm post
1	R-CP-4	Pusher clamp
1	R-CVM-B-4	Micro-clamp vice with base
1	R-CSPS-1210-4	Spring pusher standoff clamp
4	R-RPA-4	Aluminium resting pin
1	R-VC-5050-4	50 mm × 50 mm corner viewer
1	R-AJ-9-4	9 mm dia. adjustable jackstand
1	R-AS-30-4	30 mm long adjustable slide
1	R-ASA-45-4	45 mm long adjustable acrylic slide base
1	R-TB-1619-4	Tower block with base 16 mm <sup>2</sup> × 19 mm
1	R-TC-300190-4	300 mm × 190 mm × 25 mm component tray
1	R-BC10	50 mm $\times$ 200 mm $\times$ 150 mm compartment box (not shown)

#### Plate sizes multi-window set A

Kit part no.	Base plate size	
R-QLC-PVW1-A-4	13 mm × 200 mm × 200 mm	
R-QLC-PVW2-A-4	13 mm $\times$ 250 mm $\times$ 150 mm	
R-QLC-PVW3-A-4	13 mm × 250 mm × 250 mm	
R-QLC-PVW4-A-4	13 mm × 400 mm × 400 mm	

#### Plate sizes multi-window set B

Kit part no.	Base plate size
R-QLC-PVW1-B-4	13 mm × 200 mm × 200 mm
R-QLC-PVW2-B-4	13 mm $\times$ 250 mm $\times$ 150 mm
R-QLC-PVW3-B-4	13 mm × 250 mm × 250 mm
R-QLC-PVW4-B-4	$13 \text{ mm} \times 400 \text{ mm} \times 400 \text{ mm}$

#### Component set B (85) M4 components

Component set B (65) M4 components				
Qty	Part no.	Description		
3	R-S-65-4*	6 mm dia. $\times$ 5 mm standoff		
6	R-S-610-4	6 mm dia. × 10 mm standoff		
6	R-S-625-4	6 mm dia. × 25 mm standoff		
3	R-S-95-4	9 mm dia. × 5 mm standoff		
6	R-S-910-4	9 mm dia. × 10 mm standoff		
6	R-S-920-4	9 mm dia. x 20 mm standoff		
6	R-S-925-4	9 mm dia. × 25 mm standoff		
6	R-S-1210-4	12 mm dia. x 10 mm standoff		
6	R-S-1225-4	12 mm dia. × 25 mm standoff		
4	R-SP-610-4	6 mm dia. × 10 mm pin standoff		
4	R-SP-910-4	9 mm dia. × 10 mm pin standoff		
4	R-CTT-40-25-4	40 mm tension clamp with coated soft tip, 25 mm post		
4	R-CWT-25-25-4	25 mm wire clamp with coated soft tip, 25 mm post		
4	R-CWT-50-50-4	50 mm wire clamp with coated soft tip, 50 mm post		
1	R-CP-4	Pusher clamp		
1	R-CVM-B-4	Micro-clamp vice with base		
1	R-CSPS-1210-4	Spring pusher standoff clamp		
4	R-RPA-4	Aluminium resting pin		
1	R-VC-5050-4	50 mm × 50 mm corner viewer		
2	R-AJ-9-4	9 mm dia. adjustable jackstand		
2	R-AS-30-4	30 mm long adjustable slide		
2	R-ASA-45-4	45 mm long adjustable acrylic slide base		
1	R-TB-1619-4	Tower block with base 16 mm <sup>2</sup> × 19 mm		
1	R-TC-300190-4	300 mm × 190 mm × 25 mm component tray		
1	R-BC10	50 mm × 200 mm × 150 mm compartment box (not shown)		
* 4.		dton		

 $<sup>^{\</sup>star}$  = does not have a threaded top



# **QLC M6 vision kits**

The QLC M6 vision kit is a comprehensive kit for holding plastic, aluminium, rubber and other non-ferrous parts.

A kit includes an acrylic base plate with M6 threaded holes 12.5 mm on centre, a quick load corner and one set of components (A).



NOTE: Each QLC frame is specific to your machine. Please contact your local sales office to determine which frame you need.

#### Plate sizes multi-hole set A

Kit part no.	Base plate size
R-QLC1-PV1-A-6	13 mm × 150 mm × 150 mm
R-QLC1-PV2-A-6	13 mm × 250 mm × 250 mm

#### Component set A (54) M6 components

Qty	Part no.	Description
3	R-S-610-6*	6 mm dia. × 10 mm standoff
3	R-S-625-6*	6 mm dia. x 25 mm standoff
3	R-S-95-6*	9 mm dia. × 5 mm standoff
3	R-S-910-6	9 mm dia. × 10 mm standoff
3	R-S-920-6	9 mm dia. × 20 mm standoff
3	R-S-925-6	9 mm dia. x 25 mm standoff
3	R-S-1310-6	13 mm dia. $\times$ 10 mm standoff
3 2	R-S-1320-6	13 mm dia. × 20 mm standoff
2	R-SP-610-6	6 mm dia. × 10 mm pin standoff
2	R-SP-910-6	9 mm dia. × 10 mm pin standoff
4	R-CTT-40-30-6	40 mm tension clamp with coated soft tip, 30 mm post
4	R-CWT-25-25-6	25 mm wire clamp with coated soft tip, 25 mm post
4	R-CWT-50-50-6	50 mm wire clamp with coated soft tip, 50 mm post
1	R-CP-6	Pusher clamp
1	R-CVM-B-6	Micro-clamp vice with base
1	R-CSPS-1925-6	19 mm dia. × 25 mm spring pusher standoff clamp
4	R-RPS-6	Steel resting pin
1	R-VC-7575-6	75 mm × 75 mm corner viewer
1	R-AJ-13-6	13 mm dia. adjustable jackstand
1	R-AS-45-6	45 mm long adjustable slide
1	R-ASA-45-6	45 mm long adjustable acrylic slide base
1	R-TB-2025-6	Tower block with base 20 mm <sup>2</sup> × 30 mm
1	R-TC-300190-6	300 mm × 190 mm × 25 mm component tray
1	R-BC10	50 mm $\times$ 200 mm $\times$ 150 mm compartment box (not shown)

#### Plate sizes multi-window set A

Kit part no.	Base plate size
R-QLC1-PVW1-A-6	13 mm × 250 mm × 250 mm
R-QLC1-PVW2-A-6	13 mm × 400 mm × 400 mm



## Vision plates

Acrylic base plates with dowel pins.



R-PV-13200200-10-4



R-PV-W-13200200-10-4

Part no.	Thread	Height	Width	Depth	Windows	Spacing
M4 multi-hole plates (id-	eal for par	ts 75 mm	× 75 mm c	or smaller)		
R-PV-13150150-10-4	M4	13 mm	150 mm	150 mm	_	10 mm OC
R-PV-13200200-10-4	M4	13 mm	200 mm	200 mm	_	10 mm OC
R-PV-13250150-10-4	M4	13 mm	250 mm	150 mm	_	10 mm OC
R-PV-13250250-10-4	M4	13 mm	250 mm	250 mm	-	10 mm OC
M4 multi-window plates						
R-PV-W-13200200-10-4	M4	13 mm	200 mm	200 mm	5	10 mm OC
R-PV-W-13250150-10-4	M4	13 mm	250 mm	150 mm	3	10 mm OC
R-PV-W-13250250-10-4	M4	13 mm	250 mm	250 mm	5	10 mm OC
R-PV-W-13400400-10-4	M4	13 mm	400 mm	400 mm	7	10 mm OC
M6 multi-hole plates						
R-PV-13150150-12-6	M6	13 mm	150 mm	150 mm	_	12.5 mm OC
R-PV-13250250-12-6	M6	13 mm	250 mm	250 mm	-	12.5 mm OC
M6 multi-window plates						
R-PV-W-13250250-12-6	M6	13 mm	250 mm	250 mm	5	12.5 mm OC
R-PV-W-13400400-12-6	M6	13 mm	400 mm	400 mm	7	12.5 mm OC



# Interchangeable vision fixture

## Interchangeable vision fixture

Renishaw's interchangeable vision fixture (IVF) is ideal for machines 450 mm  $\times$  450 mm or larger.

This fixture consists of a frame and multiple subplates that can be designed to use all, half, or a quarter of the frame's total size.

The frame is made from anodised aluminium and designed to fit your specific vision machine. The frame also allows for the mounting of your probe rack and calibration artefacts.

The interchangeable subplates can be modular with M4 or M6 threaded holes (10 mm or 12.5 mm on centre) or custom. To ensure you receive the correct size and proper fit, include your machine make and model number when ordering.

A combination of both custom and modular subplates and components can be added and made to fit the same frame, allowing for maximum flexibility.









# **Vision components**

Section 9	Adjustables
Section 10	Clamps
Section 11	Magnets
Section 12	Miscellaneous
Section 13	Standoff
Section 14	Towers
Section 15	Trays







# **Adjustables**





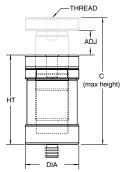


## Adjustable jack stand

To allow variable heights of up to 22 mm and then lock into position.



R-AJ-25-6



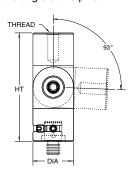
Part no.	Thread	Dia	HT	ADJ	С
R-AJ-9-4	M4	9 mm	19 mm	7 mm	26 mm
R-AJ-13-6	M6	17 mm	42 mm	13 mm	55 mm
R-AJ-25-6	M6	25 mm	42 mm	13 mm	55 mm

## Adjustable pivot joint

For positioning a component at any angle. Lock the rotating base into position and then set the angle of the pivot.



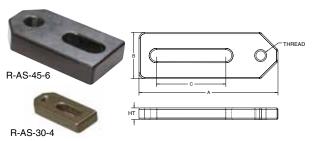




Part no.	Thread	Dia	HT	ADJ
R-APJ-6	M6	19 mm	50 mm	93°

### Adjustable slide

To place components in between holes on the plate.



Part no.	Thread	HT	Α	В	С
R-AS-30-4	M4	5 mm	30 mm	13 mm	9 mm
R-ASA-45-4 (acrylic)	M4	5 mm	45 mm	13 mm	24 mm
R-AS-45-4	M4	5 mm	45 mm	13 mm	24 mm
R-ASA-45-6 (acrylic)	M6	10 mm	44 mm	20 mm	13 mm
R-AS-45-6	M6	10 mm	44 mm	20 mm	13 mm
R-AS-70-6	M6	10 mm	72 mm	25 mm	34 mm
Included: cooks	* * * * * * * * * * * * * * * * * * * *	nd thumb o	orougo		

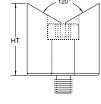
Included: sockethead cap and thumb screws.

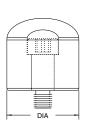
#### **Adjustable V-post**

For holding cylindrical or tubular parts without marring the part's surface. Can be rotated and locked to any orientation.

Part no.	Thread	Dia	HT	ADJ	
R-AVP-2525-6	M6	25 mm	25 mm	360°	
Indudad: aboulder bel					

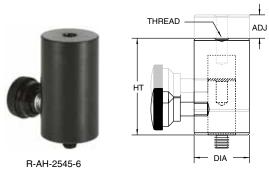






Adjustable height stand

To allow variable heights without marring the part.



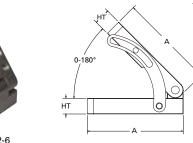
Part no.	Thread	Dia	HT	ADJ	
R-AH-2545-6	M6	25 mm	45 mm	9 mm	

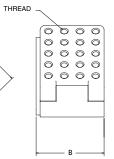
## Adjustable angle plate

Ideal for holding components on an angle. The angle plate is adjustable to  $180^{\circ}$ .

Part no.	Thread	HT	Α	В	ADJ
R-PCA-135075-10-4	M4	13 mm	75 mm	50 mm	0-180°
R-PCA-135075-12-6	M6	13 mm	75 mm	50 mm	0-180°







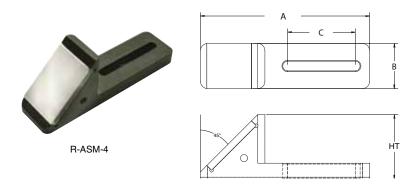
R-PCA-135075-12-6



## Adjustable slide mirror

To aid viewing and inspecting a part.

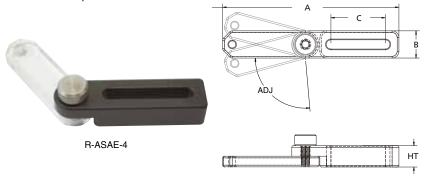
Part no.	Thread	HT	Α	В	С
R-ASM-A	M4	20 mm	75 mm	20 mm	34 mm



## Adjustable slide acrylic extension

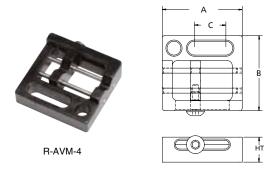
Screw any component onto the acrylic slide to extend the reach of the component.





### Micro adjustable V

For cylindrical parts smaller than 6.5 mm in diameter.



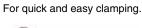


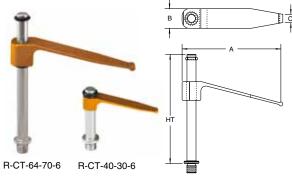






#### **Tension clamp**





Part no.	Thread	HT	Α	В	С
R-CT-40-25-4	M4	25 mm	40 mm	7.6 mm	4 mm
R-CT-40-30-6	M6	30 mm	40 mm	7.6 mm	4 mm
R-CT-40-70-6	M6	68 mm	40 mm	7.6 mm	4 mm
R-CT-64-70-6	M6	68 mm	63.5 mm	13 mm	5 mm
R-CT-95-83-6	M6	83 mm	96 mm	19 mm	9 mm
R-CT-100P-83-6*	M6	83 mm	105 mm	19 mm	9 mm

includes a plunger for reaching over the edge of a part to a more rigid surface or to reach over another support component.

Part number on tension clamp is for reference only. See chart for complete dimensions.

Thread

M4

М6

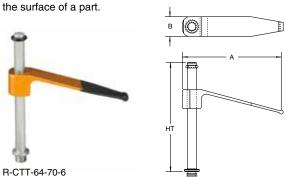
M6

M6

M6

### Soft tip tension clamp

Rubber coated tips hold parts without scratching or marring



<u>C</u>	R-CTT-40-70-6
– A ––––	R-CTT-64-70-6
	R-CTT-95-83-6
	Part number on so complete dimension

Part no.

R-CTT-40-25-4

R-CTT-40-30-6

Part number on soft tip tension clamp is for reference only. See chart for complete dimensions.

25 mm

30 mm

68 mm

83 mm

40 mm

40 mm

7.6 mm 4 mm

7.6 mm 4 mm

40 mm 7.6 mm 4 mm

96 mm 19 mm 9 mm

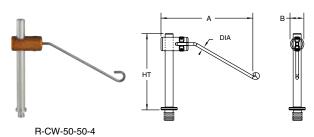
68 mm 63.5 mm 13 mm 5 mm

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#### Spring wire clamp

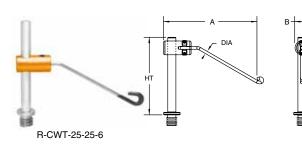
For light clamping of small parts minimising the contact area on a part and for least possible obstruction.



Part no.	Thread	HT	Α	В	Dia.		
R-CW-25-25-4	M4	25 mm	36 mm	8 mm	1.5 mm		
R-CW-50-50-4	M4	45 mm	55 mm	8 mm	1.5 mm		
R-CW-25-25-6	M6	25 mm	36 mm	8 mm	1.5 mm		
R-CW-50-50-6	M6	50 mm	55 mm	8 mm	1.5 mm		
Part number on spring wire clamp is for reference only. See chart for complete dimensions.							

## Soft tip spring wire clamp

With rubber coated tips for light clamping of small parts, minimising the contact area on a part and for least possible obstruction.



Part no.	Thread	HT	Α	В	Dia.		
R-CWT-25-25-4	M4	25 mm	36 mm	8 mm	1.5 mm		
R-CWT-50-50-4	M4	45 mm	55 mm	8 mm	1.5 mm		
R-CWT-25-25-6	M6	25 mm	36 mm	8 mm	1.5 mm		
R-CWT-50-50-6	M6	50 mm	55 mm	8 mm	1.5 mm		
Part number on spring wire clamp is for reference only. See chart for complete dimensions.							

В

32 mm 38 mm 19 mm 8 mm 13 mm 10 mm

32 mm 38 mm 19 mm 8 mm 13 mm 10 mm

D

Part no. Thread

M4

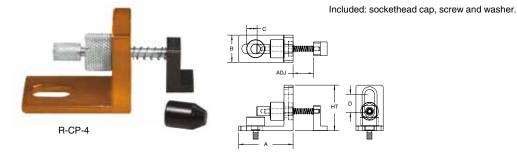
M6

R-CP-4

R-CP-6

### **Pusher clamp**

To push a part against standoffs or into corner (two interchangeable tips are included).



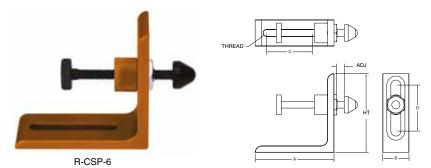
#### Screw pusher clamp

For pushing and holding a part against stops.

 Part no.
 Thread
 HT
 A
 B
 C
 D
 ADJ

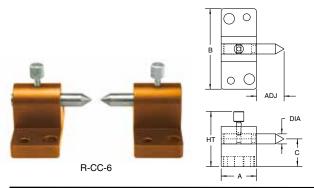
 R-CSP-6
 M6
 76 mm
 76 mm
 25 mm
 44 mm
 44 mm
 38 mm

 Included: sockethead cap, thumb screw and washer.



#### **Centres**

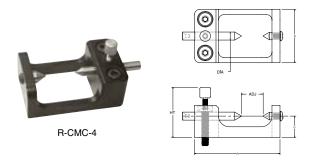
For holding cylindrical parts at each end on their inside diameters.



Part no.	Thread	Dia.	HT	Α	В	С	ADJ	
R-CC-6	M4/M6	6 mm	38 mm	22 mm	51 mm	20 mm	16 mm	
R-CC-13	M4/M6/M8	13 mm	50 mm	38 mm	64 mm	25 mm	38 mm	
R-CC-25	M4/M6/M8	25 mm	69 mm	51 mm	76 mm	35 mm	50 mm	
Included: both male and female centring options; sockethead cap								
screws								

#### Micro centre

Has adjustability to hold cylindrical parts up to 26 mm in length and 25 mm in diameter.



Part no.	Thread	HT	Α	В	Dia.
R-CMC-4	M4	30 mm	51 mm	32 mm	26 mm

#### Mini vice

For clamping a small area of a part. The vice can be rotated  $360^{\circ}$  and then locked into position.

	ADJ	
Direction of the last		0 0
	<b>НТ</b>	$\bigcirc\bigcirc\bigcirc$
4		
	A	<b> </b>
R-CMV-4		- 1

Part no.	Thread	HT	Α	В	Dia.
R-CMV-4	M4	58 mm	32 mm	32 mm	11 mm
R-CMV-6	M6	58 mm	32 mm	32 mm	11 mm

28 mm 38 mm 10 mm

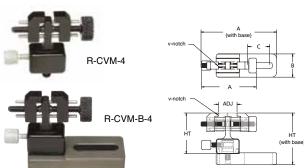
35 mm 51 mm 16 mm 15 mm 13 mm

ADJ

13 mm

#### Micro vice clamp

Ideal for holding parts horizontally or vertically. The jaws have a V notch for holding cylindrical and tubular parts.



(with base)			
R-CVM-6	M6	28 mm 38 mm 10 mm - 13 mr	n
R-CVM-B-6 (with base)	M6	38 mm 78 mm 20 mm 35 mm 13 mr	n

Thread

M4

M4

Part no.

R-CVM-4

R-CVM-B-4

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### Spring pusher standoff clamp

Designed for fixturing small parts in tight or compact space. Ideal for positioning parts and for profile clamping.

Part no.	Thread	Dia.	HT
R-CSPS-1210-4	M4	12 mm	10 mm
R-CSPS-1925-6	M6	19 mm	25 mm





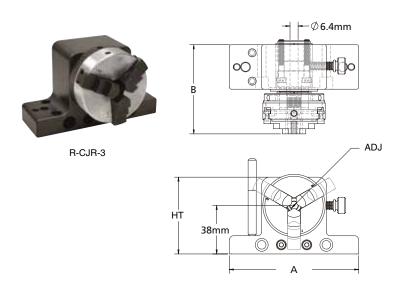


R-CSPS-1210-4 R-CSPS-1925-6

## **Rotating 3-jaw clamp**

For clamping on inner and outer diameter of part, locking into position then rotated to a marked increment.

Part no.	Thread	HT	Α	В	ADJ
R-CJR-3	M4/M6	60 mm	102 mm	70 mm	63 mm





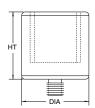




**Magnet**For holding steel or iron parts.





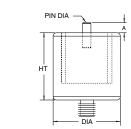


Part no.	Thread	Dia.	HT
R-M-6-4	M4	6 mm	25 mm
R-M-13-4	M4	13 mm	25 mm
R-M-13-6	M6	13 mm	25 mm
R-M-19-6	M6	19 mm	25 mm
R-M-25-6	M6	25 mm	25 mm
R-M-32-6	M6	32 mm	25 mm

## Pin magnet

For holding and locating steel or iron parts.





Part no.	Thread	Dia.	HT	Pin dia.	Α
R-MP-6-4	M4	6 mm	25 mm	1.6 mm	3.8 mm
R-MP-13-4	M4	13 mm	25 mm	1.6 mm	3.8 mm
R-MP-13-6	М6	13 mm	25 mm	3 mm	3.8 mm
R-MP-19-6	M6	19 mm	25 mm	3 mm	3.8 mm
R-MP-25-6	M6	25 mm	25 mm	3 mm	3.8 mm

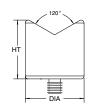
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## V magnet

For holding cylindrical parts and bent tubing.



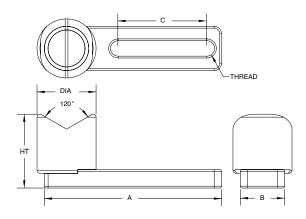


Part no.	Thread	Dia.	HT	
R-MV-13-6	M6	13 mm	25 mm	
R-MV-19-6	M6	19 mm	25 mm	
R-MV-25-6	M6	25 mm	25 mm	
R-MV-32-6	M6	32 mm	25 mm	

# V magnet with base For holding round and tubular parts.



R-MVB-25-6



Part no.	Thread	Dia.	HT	Α	В	С
R-MVB-13-6	M6	13 mm	32 mm	76 mm	19 mm	36 mm
R-MVB-19-6	M6	19 mm	32 mm	76 mm	19 mm	36 mm
R-MVB-25-6	M6	25 mm	32 mm	76 mm	19 mm	36 mm
R-MVB-32-6	M6	32 mm	32 mm	76 mm	19 mm	36 mm
Included: socke	thead ca	n thumh	screws a	nd washe	ire	







### Cone

To rest a part on a rounded point for single-point contact.

Part no.	Thread	Dia.	HT	Material	
R-RCD-6	M6	16 mm	13 mm	Delrin <sup>®</sup>	
R-RCS-6	M6	16 mm	13 mm	Steel	
R-RCA-6	M6	25 mm	19 mm	Aluminium	



Delrin® R-RCD-6



Steel R-RCS-6



Aluminium R-RCA-6



## **Resting pin**

To rest a part on a rounded point.



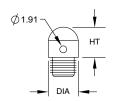
Steel R-RPS-6



Aluminium R-RPA-4



Delrin® R-RPD-6



Part no.	Thread	Dia.	HT	Material
R-RPD-4	M4	6 mm	5 mm	Delrin®
R-RPA-4	M4	6 mm	5 mm	Aluninium
R-RPD-6	M6	9 mm	10 mm	Delrin®
R-RPS-6	M6	9 mm	10 mm	Steel



### **Screws and adaptors**

Component replacement parts.



Part no.	Thread	Dia.	HT
Thumb screw			
R-AATK-6	M6	12 mm	20 mm
Screw			
R-AATS-14	МЗ	6 mm	15 mm
R-AATS-20	МЗ	6 mm	20 mm
R-ATS-4	M4	13 mm	15 mm
Adaptor			
R-AAS-4	M4	8 mm	15 mm
R-AAS-6	M6	8 mm	15 mm

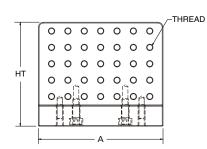
## Vertical base plate

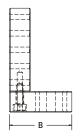
For holding components vertically.

Part no.	Thread	HT	Α	В
R-PCV-507540-10-4	M4	63.5 mm	75 mm	40 mm



R-PCV-507540-10-4



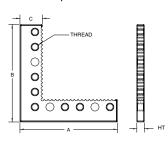


#### **Corner viewer**

For allowing a part to be located in a corner. The serrations allow backlighting along the sides of the part.







Part no.	Thread	Height	Α	В	С		
R-VC-5050-4	M4	5 mm	50 mm	50 mm	10 mm		
R-VC-7575-6	M6	6 mm	83 mm	83 mm	19 mm		
Included: sockethead cap screws							

# **Standoffs**

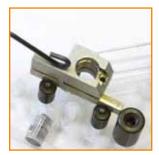
#### 13.1





Part no.

M6 standoffs



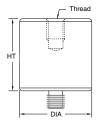
Thread

#### **Standoff**

To elevate and locate a part.



R-S-2550-6 R-S-920-4 R-S-620-4\*



Part no.	Thread	Dia.	HT
M4 standoff	s		
R-S-65-4*	M4	6 mm	5 mm
R-S-610-4*	M4	6 mm	10 mm
R-S-615-4	M4	6 mm	15 mm
R-S-620-4*	M4	6 mm	20 mm
R-S-625-4*	M4	6 mm	25 mm
R-S95-4*	M4	9 mm	5 mm
R-S-910-4	M4	9 mm	10 mm
R-S-915-4	M4	9 mm	15 mm
R-S-920-4	M4	9 mm	20 mm
R-S-925-4	M4	9 mm	25 mm
R-S-950-4	M4	9 mm	50 mm
R-S-125-4	M4	12 mm	5 mm
R-S-1210-4	M4	12 mm	10 mm
R-S-1215-4	M4	12 mm	15 mm
R-S-1220-4	M4	12 mm	20 mm
R-S-1225-4	M4	12 mm	25 mm
R-S-1250-4	M4	12 mm	50 mm

 <sup>\* =</sup> does not have a threaded top.
 M4 standoffs are made of aluminium.
 M6 standoffs are made of steel.

R-S-610-6*	M6	6 mm	10 mm
R-S-625-6*	M6	6 mm	25 mm
R-S95-6*	M6	9 mm	5 mm
R-S-910-6	M6	9 mm	10 mm
R-S-915-6	M6	9 mm	15 mm
R-S-920-6	M6	9 mm	20 mm
R-S-925-6	M6	9 mm	25 mm
R-S-1310-6	M6	13 mm	10 mm
R-S-1315-6	M6	13 mm	15 mm
R-S-1320-6	M6	13 mm	20 mm
R-S-1325-6	M6	13 mm	25 mm
R-S-1350-6	M6	13 mm	50 mm
R-S-13100-6	M6	13 mm	100 mm
R-S-13150-6	M6	13 mm	150 mm
R-S-1910-6	M6	19 mm	10 mm
R-S-1915-6	M6	19 mm	15 mm
R-S-1920-6	M6	19 mm	20 mm
R-S-1925-6	M6	19 mm	25 mm
R-S-1950-6	M6	19 mm	50 mm
R-S-19100-6	M6	19 mm	100 mm
R-S-19150-6	M6	19 mm	150 mm
R-S-2515-6	M6	25 mm	15 mm
R-S-2520-6	M6	25 mm	20 mm
R-S-2525-6	M6	25 mm	25 mm
R-S-2550-6	M6	25 mm	50 mm
R-S-25100-6	M6	25 mm	100 mm
R-S-25150-6	M6	25 mm	150 mm
R-S-3825-6	M6	38 mm	25 mm
R-S-3850-6	M6	38 mm	50 mm
R-S-38150-6	M6	38 mm	150 mm



#### Delrin® standoffs

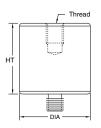
To elevate and locate a part using a non-marring material.

Part no.	Thread	Dia.	HT
R-SD-610-4	M4	6 mm	10 mm
R-SD-910-4	M4	9 mm	10 mm
R-SD-1210-4	M4	12 mm	10 mm
R-SD-925-6	M6	9 mm	25 mm
R-SD-1325-6	M6	13 mm	25 mm
R-SD-1925-6	M6	19 mm	25 mm







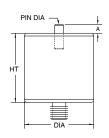


#### Pin standoff

To elevate and locate a part against the pin.







Part no.	Thread	Dia.	HT	Α	Pin dia.
R-SP-610-4	M4	6 mm	10 mm	3.8 mm	2 mm
R-SP-910-4	M4	9 mm	10 mm	3.8 mm	2 mm
R-SP-1210-4	M4	12 mm	10 mm	3.8 mm	2 mm
R-SP-610-6	M6	6 mm	10 mm	3.8 mm	2 mm
R-SP-910-6	M6	9 mm	10 mm	3.8 mm	2 mm
R-SP-1325-6	M6	13 mm	25 mm	3.8 mm	3 mm
R-SP-1925-6	M6	19 mm	25 mm	3.8 mm	3 mm

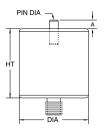
## Delrin® pin standoffs

To elevate and locate a part against a pin using a non-marring material.

Part no.	Thread	Dia.	HT	Α	Pin dia.
R-SPD-910-4	M4	9 mm	10 mm	3.8 mm	2 mm
R-SPD-1325-6	M6	13 mm	25 mm	3.8 mm	3 mm







# 2-way and 4-way spring-loaded pin standoff

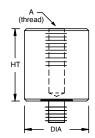


	Part no.	Thread	Dia.	HT	С	D	ADJ
	2-way pins						
ı	R-S-1350-2W-6	M6	13 mm	50 mm	2 mm	9 mm	12.5 mm
ı	R-S-2550-2W-6	M6	25 mm	50 mm	7 mm	19 mm	12.5 mm
	4-way pins						
ı	R-S-1350-4W-6	M6	13 mm	50 mm	2 mm	9 mm	12.5 mm
ı	R-S-2550-4W-6	M6	25 mm	50 mm	7 mm	19 mm	12.5 mm

## Standoff adaptor

For step clamps and calibration sphere.





Part no.	Thread	Dia.	HT	Α
R-SA-6-4	M4	19 mm	15 mm	M6
R-SA-4-6	M6	9 mm	15 mm	M4
R-SA-8-6	M6	25 mm	25 mm	M8

25 mm

25 mm

19 mm

Part no.

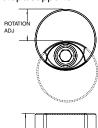
R-SR-2525-6

Thread

M6

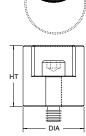
### **Rotator standoff**

To secure parts against stops/supports.







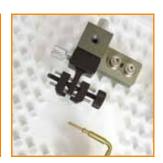


### 14.1

# **Towers**

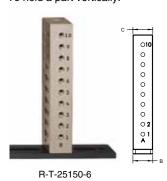


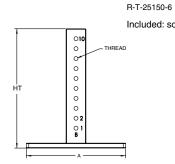




### Tower

To hold a part vertically.





Part no.	Thread	HT	A	В	С	Threaded rows
R-T-25150-6	M6	150 mm	127 mm	25 mm	25 mm	1

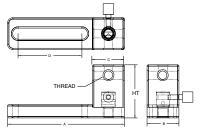
Included: sockethead cap screws.

### Tower block with base

For positioning a component vertically to the part set-up. Can be used without the base to allow full rotation.

Part no.	Thread	HT	Α	В	С	D		
R-TB-1619-4	M4	26 mm	41 mm	16 mm	16 mm	15 mm		
R-TB-2025-6	M6	35 mm	70 mm	20 mm	16 mm	15 mm		
Included: sockethead can screws								







## **Medium component tray**

To hold and organise components.

Part no.	Thread	HT	Width	Depth
B-TC-500200	M6/M8	25 mm	500 mm	200 mm



R-TC-500200

## **Small component tray**

To hold and organise components.



R-TC-300190-4

Part no.	Thread	HT	Width	Depth
R-TC-300190-4	M4	25 mm	300 mm	190 mm
R-TC-300190-6	M6	25 mm	300 mm	190 mm



## **Component storage box**

10-compartment box to hold and organise components.

Part no.	HT	Width	Depth
R-BC10	45 mm	203 mm	152 mm

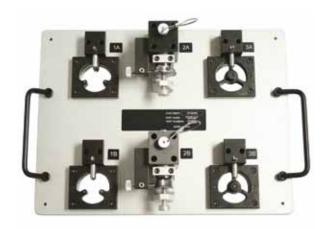


R-BC10

## **Custom fixtures**

## **Custom fixtures for your system**

If Renishaw's standard range of modular fixturing does not meet your requirements, we can provide you with custom fixtures for your vision system.



Renishaw's engineers will develop and design a custom fixture best suited to your application. All aspects of the specific job are taken into consideration, including:

- · how frequently the part will be measured
- the type of material, size and shape of the part
- the dimensions and tolerances of the part
- the datums or orientation of the part
- the weight and size of the fixture.

To enable us to provide the best solution, you can submit your pictures, parts, prints or CAD files for review. For more information, please contact your local sales office.





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