

Sample holder catalog

for X-ray Microscopy

Sample Holder

for X-ray Microscopy

When you choose ZEISS microscopes, we make it our mission to help you achieve consistently brilliant results.

Customized sample holders

To ensure that your microscope continues to deliver first-class results and provides ease of use handling in accordance with your demands and applications, ZEISS provides a variety of sample holders for a wide range of customer application needs in electron microscopy.

For applications beyond the current offerings, custom holders can be designed using our existing Sample Holder Base.

The Sample Holder Base drawing can be made available upon request from your local service representative.

Learn more!

If you would like to have any additional information or if you have any questions, please do not hesitate to contact us by sending your request to:

microscopy@zeiss.com

We will get back to you!







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Xradia Versa Family / VersaXRM-500 / Context microCT Standard sample holders

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Xradia Versa Family / VersaXRM-500 / Context microCT Sample holders

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Standard sample holders

Screw Clamp	Part-No. 345360-0000-028 Description Screw clamp type sample holder and adaptor base Dimensions* 90mm height; Jaw gap up to 10mm Applications Semiconductor or flat sample. Sample should be no thicker than 10mm				
Spring Clip	Part-No. Description Dimensions* Applications	345360-0000-029 Spring clip type sample holder and adaptor base 91mm height; Clamp gap up to 5mm Semiconductor, flat, or rigid material. Sample should be thin and flat, no thicker than 5mm			
Tall Aluminum Base	Part-No. Description Dimensions* Applications	345360-0000-032 Cylindrical aluminum mounting rod sample holder and adaptor base 80mm height; 15mm diameter Smaller solid material (such as rock core samples) that requires a stable 15mm flat mounting surface			
Short Aluminum Base	Part-No. Description Dimensions* Applications	345360-0001-485 Cylindrical aluminum mounting rod sample holder and adaptor base 35mm height; 19mm diameter Tall solid material (such as rock core samples) that requires a stable 19mm flat mounting surface			
Sample Holder Base	Part-No. Description Dimensions* Applications	345360-0000-026 Standard adaptor base 10mm height; Standard kinematic mount To build or use your own sample holders and to mount the custom holder to our tomography stage	ه څه ه		

 $^{^*}$ Height includes the adaptor base height.

MicroXCT-200/400

Compatible with Xradia Versa Family / Context microCT

Screw Clamp	Part-No.	345360-0000-072	
	Description	Screw clamp type sample holder and adaptor base	
	Dimensions*	55mm height; Jaw gap up to 10mm	
	Applications	Semiconductor or flat sample. Sample should be no thicker than 10mm	
Spring Clip	Part-No.	345360-0000-073	
	Description	Spring clip type sample holder and adaptor base	
	Dimensions*	57mm height; Clamp gap up to 5mm	
	Applications	Seminconductor, flat, or rigid material. Sample should be thin and flat,	
		no thicker than 5mm	
Pin Vise	Part-No.	345360-1004-509	
(1.3-3.2mm vise	Description	Pin vise type sample holder and adaptor base	
diameter)	Dimensions*	58mm height; Pin vise opening 1.3 to 3.2mm	
	Applications	Solid material (such as rock core samples, or thin, long pieces of material).	
		Sample (or toothpick or rod) should be 3mm or less in diameter	
Pin Vise	Part-No.	345360-1004-749	
(up to 0.6mm	Description	Pin vise type sample holder and adaptor base	^
vise diameter)	Dimensions*	63mm height; pin vise opening up to 0.6mm	
	Applications	Special use case for holding very narrow post. Mounting (or toothpick	
		or rod) should be 0.6mm or less in diameter	
Small Cradle	Part-No.	345360-0000-030	
	Description	Small cradle type sample holder and adaptor base	Con a
	Dimensions*	29mm height; Clamp gap up to 5mm width; 14mm clamp gap depth	
	Applications	Flat objects like PC boards or flat materials	
Sample Holder	Part-No.	345360-0000-026	
Base	Description	Standard adaptor base	
	Dimensions*	10mm height; Standard kinematic mount	
	Applications	To build or use your own sample holders and to mount the custom holder to	, ° ° °
		our tomography stage	

 $^{^*}$ Height includes the adaptor base height.

Sample holders (Autoloader compatible)

Dimensions* 100mm height; Jaw gap		345360-0000-038 Screw clamp sample holder and adaptor base 100mm height; Jaw gap up to 10mm Semiconductor or flat sample. Sample should be no thicker than 10mm	Too o
Spring Clip	Part-No. Description Dimensions* Applications	345360-0000-037 Spring clip type sample holder and adaptor base 101mm height; Clamp gap up to 5mm Semiconductor, flat, or rigid material. Sample should be thin and flat, no thicker than 5mm	
Tall Aluminum Base	Part-No. Description Dimensions* Applications	345360-0000-039 Cylindrical aluminum mounting rod sample holder and adaptor base 90mm height; 15mm diameter Smaller solid material (such as rock core samples) that requires a stable 15mm flat mounting surface	
Sample Holder Base	Part-No. Description Dimensions* Applications	345360-0000-034 Adaptor base with kinematic grip Autoloader kinematic mount To build or use your own sample holders to use with the ZEISS autoloader	\$ o d
Small Cradle	Part-No. Description Dimensions* Applications	345360-0000-177 Small cradle sample holder 56mm height; Clamp gap up to 6.35mm width Flat objects like PC boards or flat materials	
Large Cradle			
Stackable Post	Part-No. Description Dimensions* Applications	345360-0000-178 25mm diameter stackable post sample holder 20mm base with post height of 6.35mm, 12.5mm, 19mm, 25mm, 50mm from top to bottom Solid material (such as rock core samples) that requires a stable 25mm flat mounting surface. Stackable for sample height adjustments. Can be used with 345360-000-172/173/174 to increase mount diameter up to 100mm	

^{*}Height includes the adaptor base height.

Sample holders (Autoloader compatible)

Description Dimensions* Adjustable angle sample holder 102.8mm by 30mm face surface with max, angle range of 45 deg. Applications Adjustable angle base for attaching flat samples to allow tilting for better FOV Pin Vise (up to 0.6mm Vise Uper sample holder and adaptor base Pin vise type sample holder and adaptor base Vibrations Solid material (such as rock core samples, or thin, long pieces of material), Mounting (or toothpick or rod) should be 0.6mm or less in diameter Pin Vise (up to 1.0mm Description Pin vise sample holder and adaptor base Vibrations Solid material (such as rock, core samples, or thin, long pieces of material). Sample (or pin or rod) should be 1.0mm Vise diameter) Pin Vise (0.8-1.6mm vise (0.8-1.6mm vise Sample holder and adaptor base Vibrations Solid material (such as rock, core samples, or thin, long pieces of material). Sample (or pin or rod) should be 1.6mm or less in diameter Pin Vise (0.8-1.6mm vise Applications Solid material (such as rock core samples, or thin, long pieces of material). Sample (or pin or rod) should be 1.6mm or less in diameter Pin Vise (0.8-1.6mm vise Description Pin vise sample holder and adaptor base diameter) Pin Vise Part-No. 345360-1004-416 (1.3-3-2.2mm vise Description Pin vise sample holder and adaptor base Dimensions* Applications Solid material (such as rock core samples, or thin, long pieces of material). Mounting (toothpick or rod) should be 3.mm or less in diameter Pin Vise Part-No. 345360-1004-416 Pin Vise Part-No. 345360-1004-439 Pin vise Sample holder and adaptor base Dimensions* Solid material (such as rock core samples, or thin, long pieces of material). Mounting (toothpick or rod) should be 3.mm or less in diameter Pin Vise Part-No. 345360-1004-439 Pin vise sample holder and adaptor base Dimensions* Solid material (such as rock core samples, or thin, long pieces of material). Sample (or pin or rod) should be 4.8mm or less in diameter	Adjustable Angle	Part-No.	345360-0000-179	
Applications Adjustable angle base for attaching flat samples to allow tilting for better FOV Pin Vise (up to 0.6mm		Description	Adjustable angle sample holder	Λ
Pin Vise (up to 0.6mm Description Dimensions* Applications Dimensions* Dimensions* Applications Dimensions* Dimensions* Applications Dimensions* Dimensions* Applications Dimensions* Dimensions* Applications Dimensions* Dimensions* Dimensions* Dimensions* Dimensions* Applications Dimensions*		Dimensions*	102.8mm by 30mm face surface with max. angle range of 45 deg.	
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(2.9-4.8mm vise Description Pin vise sample holder and adaptor base diameter) Pin vise sample holder and adaptor base 98mm height; Pin vise opening 2.9mm to 4.8mm Applications Solid material (such as rock core samples, or thin, long pieces of material).			Mounting (toothpick or rod) should be 3mm or less in diameter	
diameter) Dimensions* Applications 98mm height; Pin vise opening 2.9mm to 4.8mm Solid material (such as rock core samples, or thin, long pieces of material).	Pin Vise	Part-No.	345360-1004-439	B
Applications Solid material (such as rock core samples, or thin, long pieces of material).	(2.9-4.8mm vise	Description	Pin vise sample holder and adaptor base	
	diameter)	Dimensions*	98mm height; Pin vise opening 2.9mm to 4.8mm	\forall
Sample (or pin or rod) should be 4.8mm or less in diameter		Applications	Solid material (such as rock core samples, or thin, long pieces of material).	
			Sample (or pin or rod) should be 4.8mm or less in diameter	

^{*}Height includes the adaptor base height.

Small Cradle	Part-No. Description Dimensions* Applications	345360-0000-170 Small cradle sample holder 35mm height; Clamp gap up to 6.35mm width Flat objects like PC boards or flat materials					
Large Cradle	Part-No. Description Dimensions* Applications	345360-0000-171 Large cradle sample holder 41.75mm height; Clamp gap up to 12.7mm width Flat objects like PC boards or flat materials					
Stackable Post							
Sample Base Clamp	Part-No. Description Applications	345360-0000-169 Sample stage to sample base clamp. Thumb screw tightened Clamp sample holders to the stage while scanning very large unbalanced samples					
Adjustable Angle	Part-No. Description Dimensions* Applications	345360-0000-175 Adjustable angle sample holder 102.8mm x 30mm face surface, with max. angle range of 45 deg. Adjustable angle base for attaching flat samples to allow tilting for better FOV					
Sample Mount Part-No. 345360-0000-172; 345360-0000-173; 345360-0000-174 Disk Description Description Dimensions* Dimensions* Dimensions* Sol.8mm, 72.6mm, 101.6mm diameter, with 6.35mm height Applications To be used with 345360-0000-168. These disks provide mounting surfaces for solid material (such as rock core samples) that requires a stable flat surface from 50-100mm in diameter		0					
Holder Kit Description Samp 3453 Dimensions* Refer		345360-0000-167 Sample holder kit, consisting of: 345360-0000-168 / 169 / 170 / 171 / 172 / 173 / 174 Refer to specifications of individual part Comes standard with FPX optional imaging module					

^{*}Height includes the adaptor base height.

Pin Vise (up to 0.6mm vise diameter)	Part-No. Description Dimensions* Applications	345360-1004-684 Pin vise type sample holder and adaptor base 98mm height; Pin vise opening up to 0.6mm Solid material (such as rock core samples, or thin, long pieces of material). Mounting (or toothpick or rod) should be 0.6mm or less in diameter	
Pin Vise (up to 1.0mm vise diameter)	Part-No. Description Dimensions* Applications	345360-1004-422 Pin vise sample holder and adaptor base 98mm height; Pin vise opening up to 1.0mm Solid material (such as rock core samples, or thin, long pieces of material). Sample (or pin or rod) should be 1mm or less in diameter	
Pin Vise (0.8-1.6mm vise diameter)	Part-No. Description Dimensions* Applications	345360-1004-426 Pin vise sample holder and adaptor base 98mm height; Pin vise opening 0.8mm to 1.6mm Solid material (such as rock core samples, or thin, long pieces of material). Sample (or toothpick or rod) should be 1.6mm or less in diameter	
Pin Vise (1.3-3.2mm vise diameter)	Pin Vise Part-No. 345360-1004-414 1.3-3.2mm vise Description Pin vise sample holder and adaptor base		
Pin Vise (2.9-4.8mm vise diameter)	Part-No. Description Dimensions* Applications	345360-1004-428 Pin vise sample holder and adaptor base 98mm height; Pin vise opening 2.9mm to 4.8mm Solid material (such as rock core samples, or thin, long pieces of material). Sample (or toothpick or rod) should be 4.8mm or less in diameter	

^{*}Height includes the adaptor base height.

Xradia Ultra Family / UltraXRM-L200

Spring Clip	Part-No. Description Dimensions* Applications	345360-0000-129 Spring clip style sample holder. For use with Xradia 800/810 Ultra and UltraXRM-L200. Includes extension for use with Xradia Versa 41mm height Pin-mounted or rigid sample. Sample should be no thicker than 2mm to be clipped directly. Pin should be no thicker than 2mm and no longer than 30mm	
Pin Vise	Part-No.	345360-1004-684	
(up to 0.6mm vise diameter)	Description	Pin vise sample holder. For use with Xradia 800/810 Ultra and UltraXRM-L200. Includes extension for use with Xradia Versa	ê
	Dimensions* Applications	41mm height Pin-mounted sample. Pin should be no thicker than 0.6mm and no longer than 15mm	
Flat-Backed Clip	Part-No.	345360-0000-131	
	Description	Flat back sample holder. For use with Xradia 800 Ultra and UltraXRM-L200. Not compatible with Xradia 810 Ultra.	0
	Dimensions*	Includes extension for use with Xradia Versa 41mm height	
	Applications	Chip or other large, flat sample. Sample should be no thicker than 1mm and no larger than 25mm x 25mm	
SEM Stub	Part-No.	345360-0000-137	
	Description	Sample holder for standard SEM stubs (recommended TedPella Part#16188). For use with Xradia 800/810 Ultra and UltraXRM-L200	
	Dimensions*	41mm height	
	Applications	Samples mounted on standard SEM stubs for easy transfer between SEM or	
		FIB-SEM and Xradia Ultra. Samples that can be attached to a flat horizontal surface	
Sample Holder	Part-No.	345360-0000-130	
Base	Description	Adaptor base for custom designed sample holders	
	Dimensions*	Standard kinematic mount	00
	Applications	To build or use your own sample holders and to mount the custom holder to Xradia tomography stage	

 $^{^*}$ Height includes the adaptor base height.

Xradia nanoXCT-100

Spring Clip	Part-No.	345360-0000-121	
	Description	Spring clip style sample holder with adjustable base. For use with Xradia	
		nanoXCT-100. Also compatible with Xradia 800/810 Ultra and UltraXRM-L200	
	Dimensions*	41mm height	
	Applications	Pin-mounted or rigid sample. Sample should be no thicker than 2mm to be	
		clipped directly. Pin should be no thicker than 2mm and no longer than 30mm	
Pin Vise	Part-No.	345360-0000-122	
(up to 0.6mm	Description	Pin vise sample holder with adjustable base. For use with Xradia nanoXCT-100.	
vise diameter)		Also compatible with Xradia 800/810 Ultra and Ultra/XRM-L200	
	Dimensions*	41mm height	
	Applications	Pin-mounted sample. Pin should be no thicker than 0.6mm and no longer	0 0
		than 15mm	
Flat-Backed Clip	Part-No.	345360-0000-123	
	Description	Flat back sample holder with adjustable base. For use with Xradia nanoXCT-100.	
		Also compatible with Xradia 800 Ultra and UltraXRM-L200 (not Xradia 810 Ultra)	15
	Dimensions*	41mm height	
	Applications	Chip or other large, flat sample. Sample should be no thicker than 1mm	0

^{*}Height includes the adaptor base height.

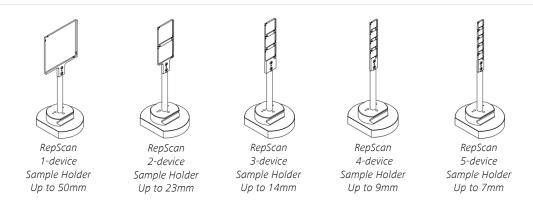
RepScan Multi-site sample holders

For X-ray Microscopy

RepScan module

RepScan is an optional module for the ZEISS Xradia Versa X-ray microscope that is primarily focused on streamlining the workflow for semiconductor packaging analysis in applications for low-, medium-, and high-volume 3D high-resolution repetitive imaging of identical packages. RepScan is optimally used with the ZEISS Xradia Autoloader – a hardware option with 14 stations that supports robotic automated sample handling, improving system utilization and minimizing operator interaction. RepScan sample holders enable mounting up to five devices on a single sample holder, depending on device dimensions. Devices are accurately and easily placed onto the relief features of the sample mount and secured precisely using radiation-stable bands.

With RepScan, the instrument user creates an imaging protocol that contains registration information of the device. This allows the Xradia Versa to automatically and precisely locate the region of interest for scanning. Then, this imaging protocol can be applied to all similarly designed parts in a job queue. The 14 stations of the Autoloader may be populated with five parts per sample holder, supporting automated repetitive imaging of 70 devices, with no further interaction once the job queue is started.



RepScan Multi-site sample holders

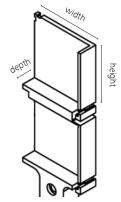
Typical devices are high aspect ratio, having a relatively square width and length, and are thin. ZEISS has designed five different sample holder types distinguished by the number of devices that can be held. The sample holders can hold devices up to 50 mm in the lateral dimension. Custom holders can be made available on special request. Contact your local ZEISS X-ray sales representative for details.

See the sample holder designs shown above, and refer to the table on the next page for the full range of sample holder designs optimized for fastest scan times.

RepScan Multi-site sample holders

Individual designs

Part number	# Sites	Width [mm]	Height [mm]	Depth [mm]
345360-1004-878	5	5	7	0.5
345360-1004-880	5	6	7	0.5
345360-1004-882	5	7	7	0.5
345360-1004-884	4	7	9	0.5
345360-1004-886	4	8	9	0.5
345360-1004-888	4	9	9	0.5
345360-1004-948	3	8	14	1
345360-1004-890	3	10	14	1
345360-1004-892	3	11	14	1
345360-1004-894	3	12	14	1
345360-1004-896	3	13	14	1
345360-1004-898	3	14	14	1
345360-1004-902	2	16	23	1
345360-1004-904	2	18	23	1
345360-1004-906	2	20	23	1
345360-1004-908	2	22	23	1
345360-1004-910	1	25	50	1.5
345360-1004-912	1	27	50	1.5
345360-1004-914	1	30	50	1.5
345360-1004-916	1	32	50	1.5
345360-1004-918	1	35	50	1.5
345360-1004-920	1	37	50	1.5
345360-1004-922	1	40	50	1.5
345360-1004-924	1	45	50	1.5
345360-1004-926	1	50	50	1.5



2-device sample holder shown

Please note that the device should be placed with the smaller length in the horizontal orientation.

Securing your sample: The Elastic Band Kit comes with radiation-resistant elastic bands and appropiate tweezers to quickly secure and release your parts from the sample holders. We offer high capacity and low capacity Elastic Kits as shown below.

Elastic band kits

Part number	Description
345360-1004-775	High Capacity, Qty 200, 10 diameters, 2 sets of tweezers
345360-1005-149	Low Capacity, Qty 50, 10 diameters, 1 set of tweezers

RepScan Multi-site sample holders

Developer kits

Kit	Part number	# Sites	Width [mm]	Height [mm]	Depth [mm]	Qty per Kit
	345360-1004-890	3	10	14	1	3
	345360-1004-902	2	16	23	1	3
Full range	345360-1004-906	2	20	23	1	3
[345360-1004-744]	345360-1004-914	1	30	50	1.5	3
	345360-1004-922	1	40	50	1.5	3
	345360-1004-926	1	50	50	1.5	3
	345360-1004-948	3	8	14	1	3
	345360-1004-890	3	10	14	1	3
Small format	345360-1004-894	3	12	14	1	3
[345360-1004-745]	345360-1004-902	2	16	23	1	3
	345360-1004-906	2	20	23	1	3
	345360-1004-910	1	25	50	1.5	3
	345360-1004-890	3	10	14	1	3
	345360-1004-898	3	14	14	1	3
Medium format	345360-1004-904	2	18	23	1	3
[345360-1004-746]	345360-1004-908	2	22	23	1	3
	345360-1004-914	1	30	50	1.5	3
	345360-1004-918	1	35	50	1.5	3
	345360-1004-906	2	20	23	1	3
	345360-1004-910	1	25	50	1.5	3
Large format	345360-1004-918	1	35	50	1.5	3
[345360-1004-747]	345360-1004-922	1	40	50	1.5	3
	345360-1004-924	1	45	50	1.5	3
	345360-1004-926	1	50	50	1.5	3

All Developer kits include High Capacity Elastic Band kit (part number 345360-1004-775).



