

Optional probes and measuring tables

The following probes and measuring tables are suitable for the FRTS series.

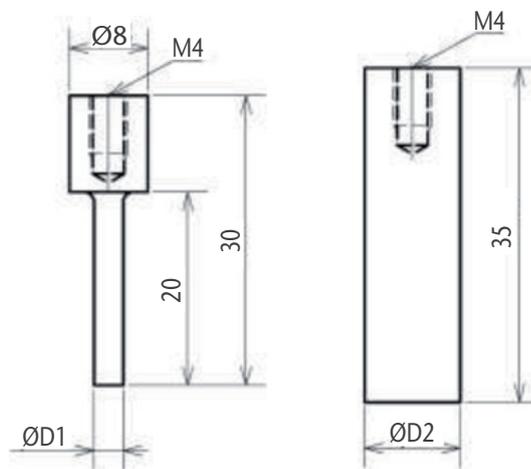
We offer a wide range of probes and table sizes for a variety of tests.

If necessary, you can obtain probes and measuring tables in other sizes.

Compression tests

Cylindrical probe FR-EC

Stick shaped for testing the indentation force

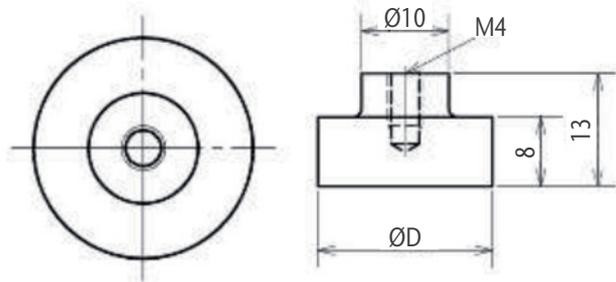


Model	FR-EC-3J	FR-EC-3S	FR-EC-5J	FR-EC-5S
Diameter (D1)	3 mm		5 mm	
Material	Polyacetal	Stainless steel	Polyacetal	Stainless steel
Weight	2 g	11 g	2 g	23 g
Capacity	50 N	100 N	50 N	100 N

Model	FR-EC-8J	FR-EC-10J	FR-EC-12.7J	FR-EC-15J
Diameter (D2)	8 mm	10 mm	12.7 mm	15 mm
Material	Polyacetal			
Weight	4 g		6 g	9 g
Capacity	50 N			

Disc probe FR-HA

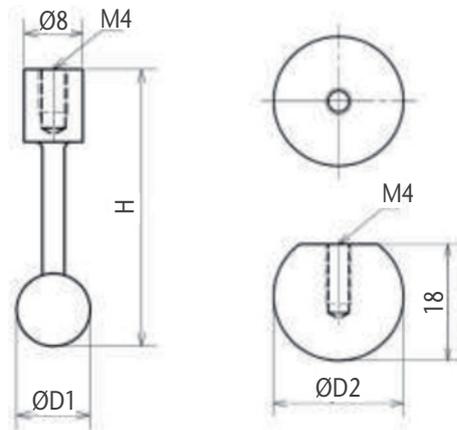
Disc probe for compression tests on a larger area of the sample



Model	FR-HA-20J (Standard accessory)	FR-HA-20S	FR-HA-30J	FR-HA-50J
Diameter (D)	20 mm		30 mm	50 mm
Material	Polyacetal	Stainless steel	Polyacetal	
Weight	4 g	23 g	9 g	23 g
Capacity	50 N	100 N	50 N	

Sphere probe FR-SR

Sphere shaped probe for crushing tests



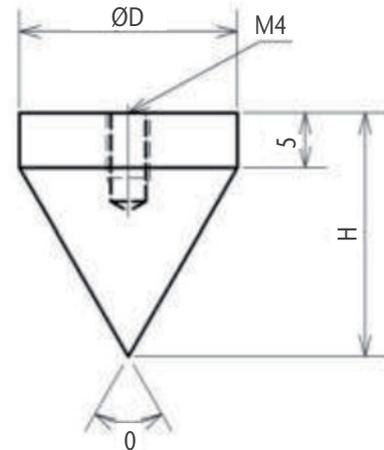
Design A

Design B

Model	FR-SR-5SJ	FR-SR-7SJ	FR-SR-10SJ	FR-SR-20SJ (Standard accessory)
Diameter (D)	5 mm	7 mm	10 mm	20 mm
Height (H)	35 mm	35 mm	38 mm	18 mm
Material	Stainless steel			
Weight	5 g	6 g	9 g	32 g
Capacity	100 N			
Design	A			B

Conical probe FR-ES

Conical probe for testing the penetration force

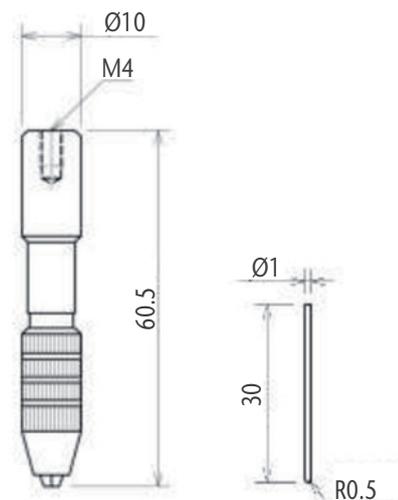


Model	FR-ES-45-20J	FR-ES-45-30J
Angle (θ)	45°	
Diameter (D)	20 mm	30 mm
Height (H)	29.1 mm	41.2 mm
Material	Polyacetal	
Weight	4 g	13 g
Capacity	50 N	

Model	FR-ES-60-20J (Standard accessory)	FR-ES-60-20S	FR-ES-60-30J
Angle (θ)	60°		
Diameter (D)	20 mm		30 mm
Height (H)	22.5		
Material	Polyacetal	Stainless steel	Polyacetal
Weight	3 g	19 g	10 g
Capacity	50 N	100 N	50 N

Vice pin FR-CP-3

Suitable for penetration tests,
e.g. for packaging material

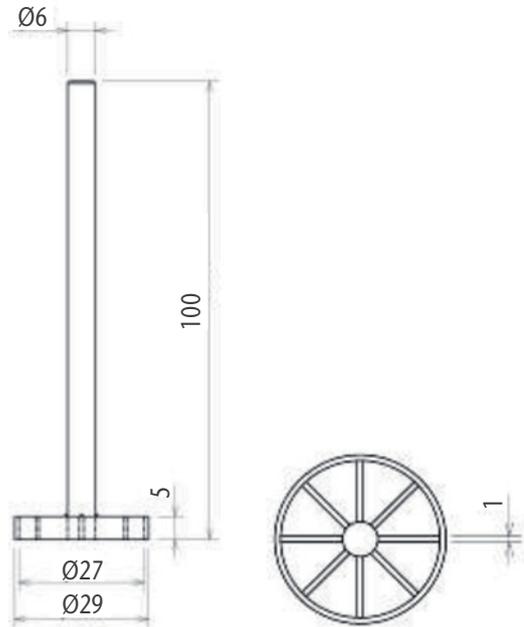


Vice pin	Grip diameter	max. Ø 3.2 mm
	Material	Stahl
	Weight	24 g

Pin	Diameter	1 mm
	Length	30 mm
	Material	Stainless steel
	Capacity	20 N

Yogurt cutter FR-YN-29

For testing the elasticity or
Strength of semi-solid samples



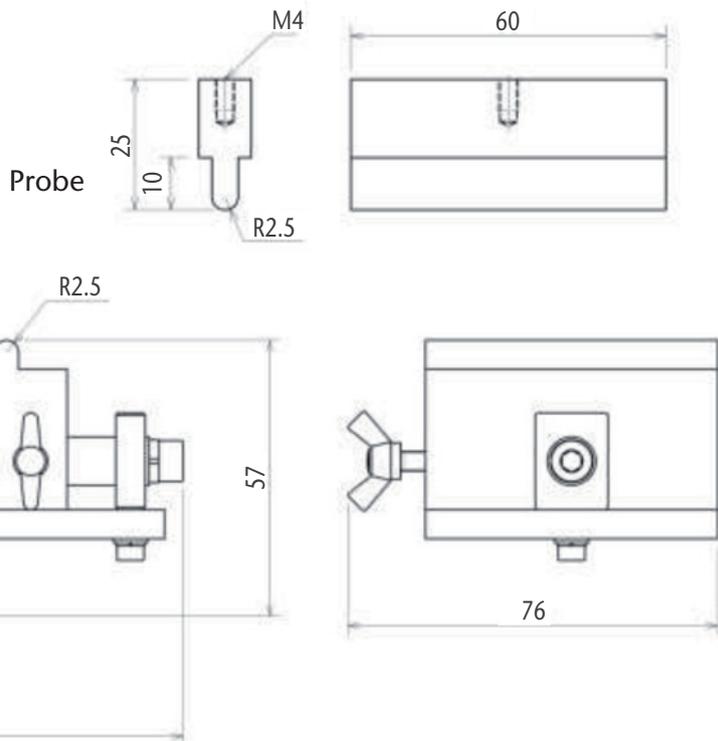
Material	Stainless steel
Weight	29 g
Capacity	50 N

Bending fixture FR-TP-60

For measuring the deflection force of
rods and plates.



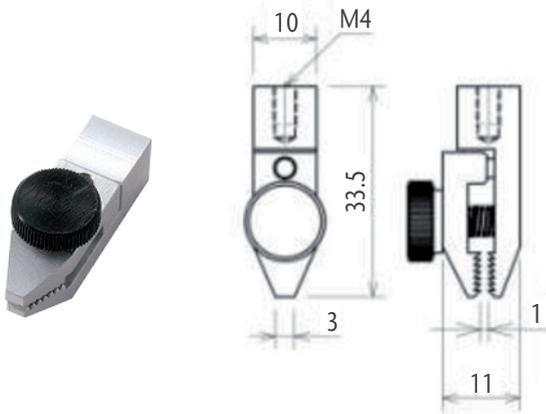
Probe	Material	Aluminium
	Weight	32 g
Table	Opening width	5 - 70 mm
	Material	Aluminium
	Capacity	100 N



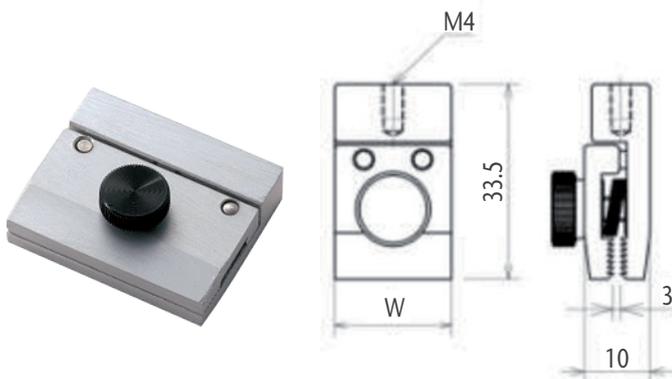
Tensile tests

Small grips FR-SC and FR-FC

Suitable for tensile tests on thin sample such as foils, films, etc.



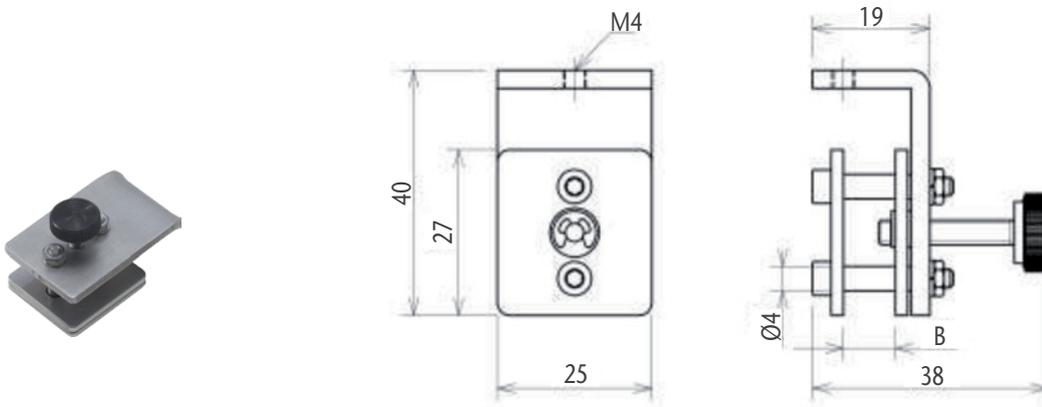
Model	FR-SC-3
Material	Aluminium
Weight	10 g
Capacity	100 N



Typ	FR-FC-21	FR-FC-41
Jaw face width (W)	20 mm	40 mm
Material	Aluminium	
Weight	18 g	33 g
Capacity	100 N	

Special grip for noodles FR-NP-25

Suitable to measure chewing texture of noodles and pasta

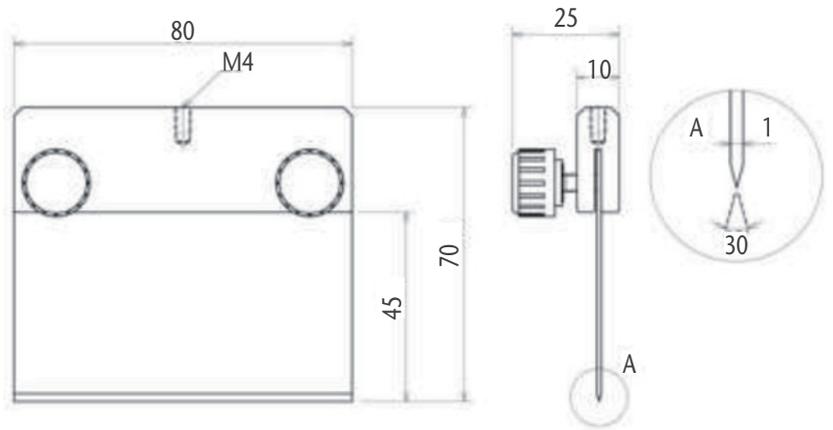


Max. sample diameter	4 mm
Weight	53 g
Capacity	50 N

Cutting tests

Cutter FR-NB-80

Suitable for testing elastic samples, such as meat



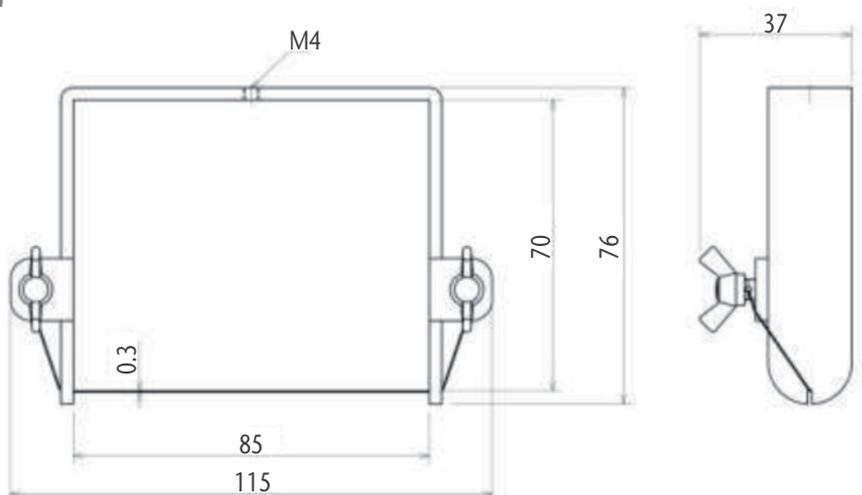
Max. sample width	80 mm
Max. sample height	40 mm
Material	Stainless steel
Weight	53 g
Capacity	50 N

Wire-cutter FR-WK-85

Suitable to cut soft samples like cheese or butter

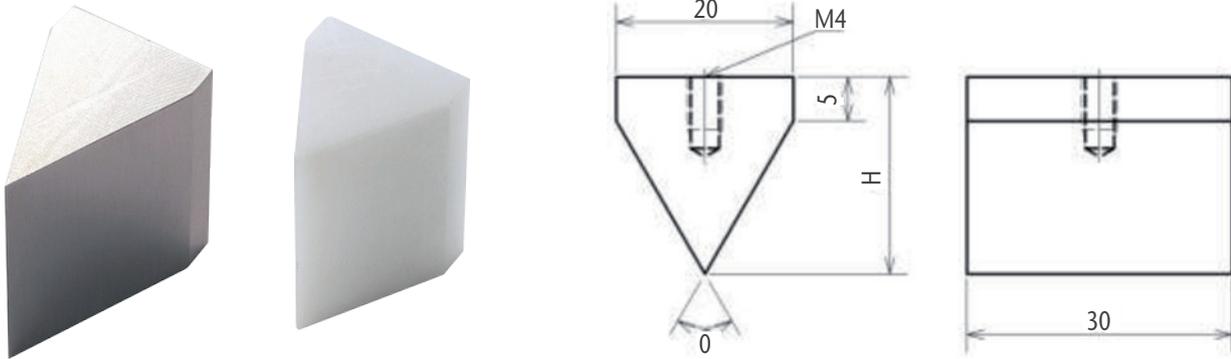


Max. sample width	80 mm
Max. sample height	65 mm
Material	Wire rope
Weight	123 g
Capacity	50 N



Wedge probe KS

Suitable for stiffness measurement



Model	FR-KS45-2030J	FR-KS45-2030S	FR-KS60-2030J	FR-KS60-2030S
Angle (θ)	45°		60°	
Height (H)	29 mm		22 mm	
Material	Polyacetal	Stainless steel	Polyacetal	Stainless steel
Weight	53 g	70 g	10 g	53 g
Capacity	50 N	100 N	50 N	100 N

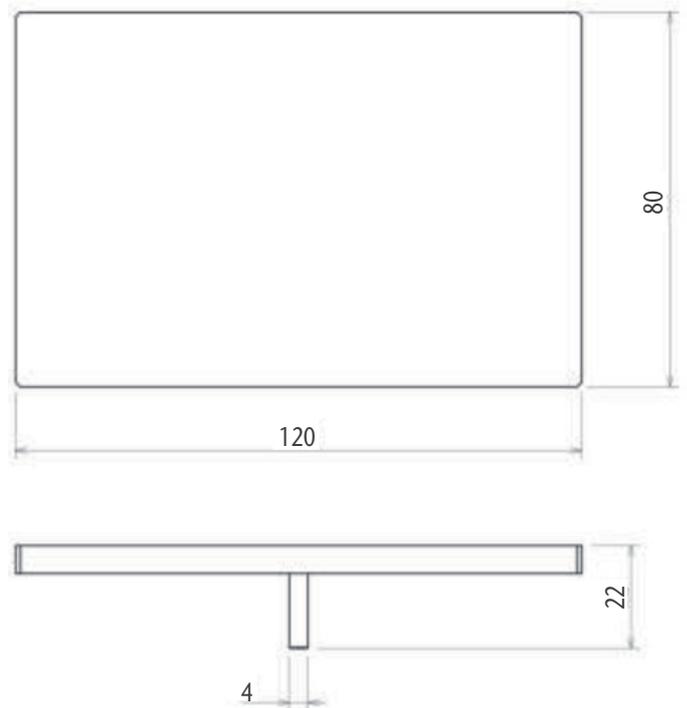
Measuring tables

Wide table FR-LT-120

Suitable for wide samples

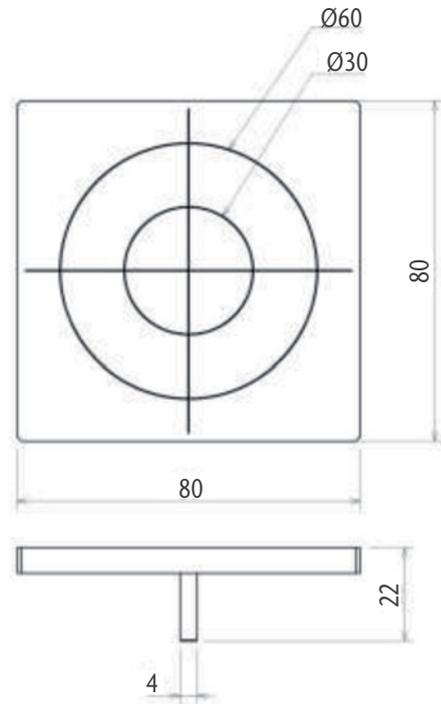


Material	Stainless steel
Weight	460 N



Center lined table FR-CT-80

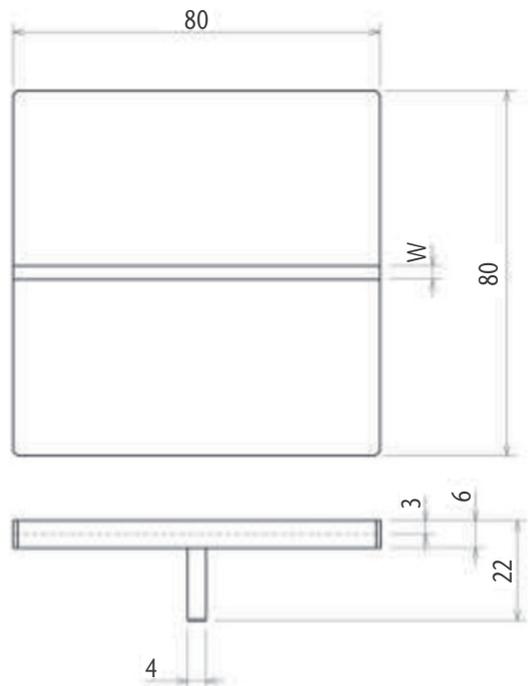
Lines make it easy to put samples in the center.



Material	Stainless steel
Weight	307 N

Table with trench GT

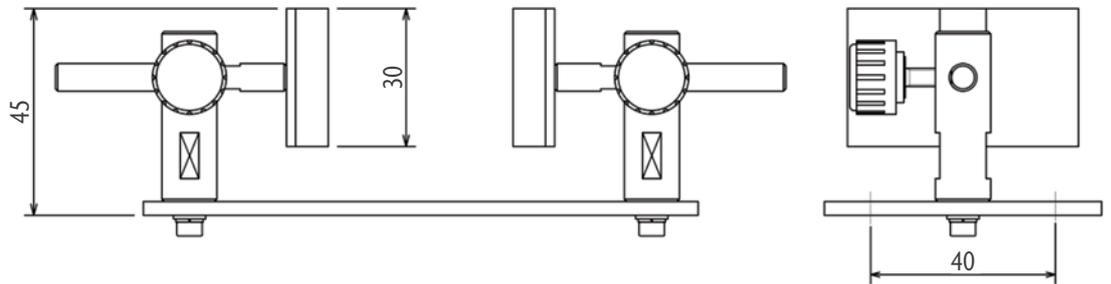
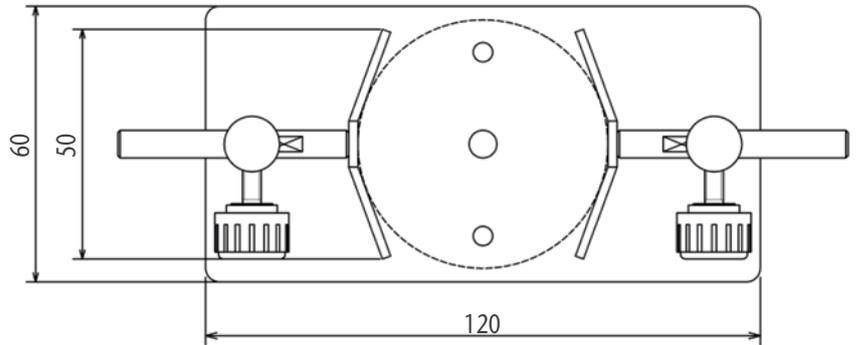
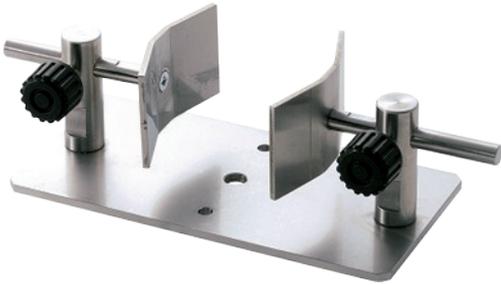
For cut off samples



Model	FR-GT-3	FR-GT-5	FR-GT-10
Width of trench	3 mm	5 mm	10 mm
Depth of trench	3 mm		
Material	Stainless steel		
Gewicht	300 N		

Container holder table FR-BG-60

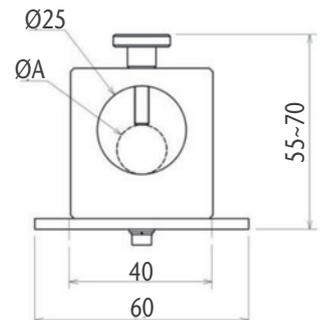
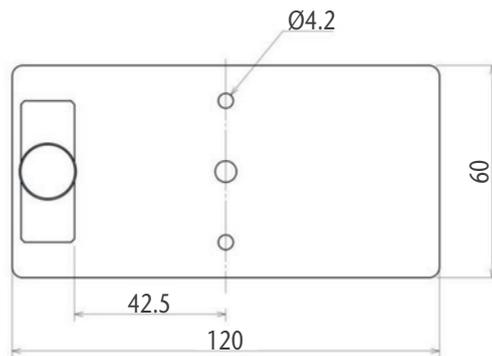
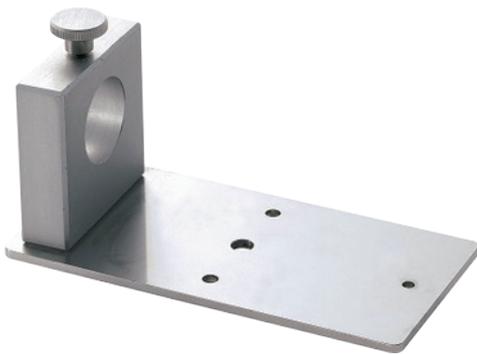
Table for fixing containers



Sample diameter	14 - 80 mm
Sample height	15 - 100 mm
Weight	295 g

Stick holder FR-ST-25

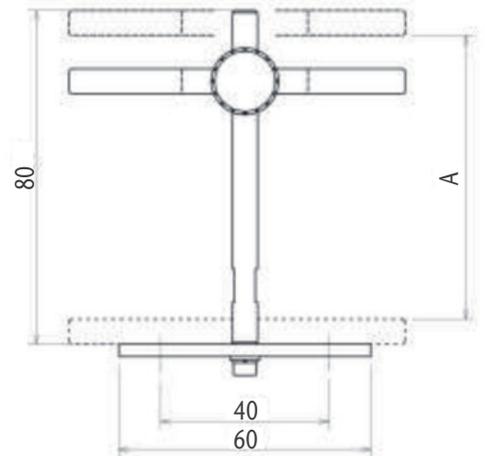
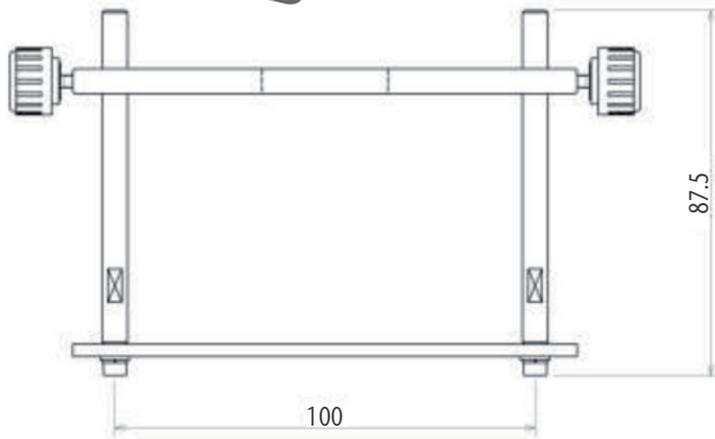
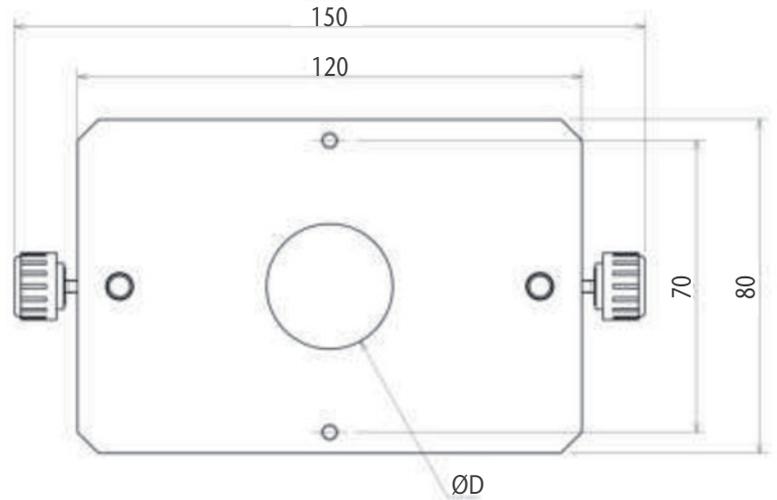
Suitable for bending rod-shaped samples, such as a lipstick



Sample diameter	14 - 25 mm
Material	Aluminium
Weight	253 g

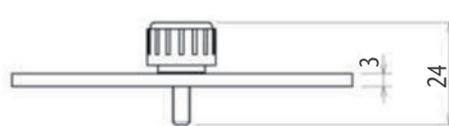
Sample holder table FR-UP

Suitable for squeezing tablets out of the package or for pulling off the stem of a cherry

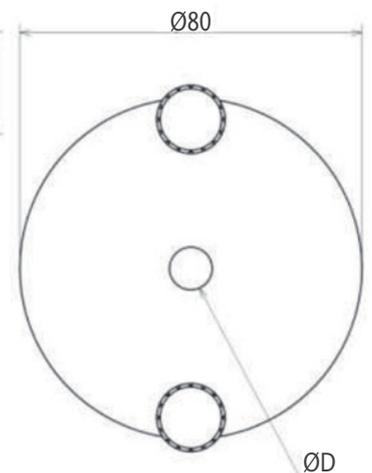


Model	FR-UP-5	FR-UP-10	FR-UP-25	FR-UP-50
Hole diameter (D)	5 mm	10 mm	25 mm	50 mm
Material	Aluminium			
Weight	357 g	355 g	350 g	327 g

Stick guide plate FR-KP



The stick guide plate is suitable for mounting thin samples and must be used together with a sample holder model FR-UP.

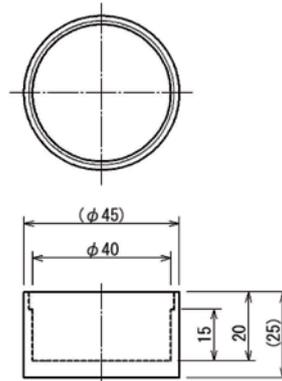


Model	FR-KP-3	FR-KP-5	FR-KP-10
Hole diameter (D)	3 mm	5 mm	10 mm
Material	Polycarbonat		
Weight	24 g		

Cup for samples with pasty consistence FR-CUP-4020



Diameter	40 mm
Material	Resin
Weight	20 g



Anti-scattering sheet FR-DP-80

Provides protection from shattering and splashing samples



Material	Polycarbonat
Weight	89 g

