COMPRESSION PLATENS

Self-aligning and fixable platens.
Spherical seat – the platen adjusts to the specimen.
It is possible to fix the platen at a required angle with 4 nuts.

THS223i:
• For lightweight specimens (packaging material etc.)
• Aluminum, anodized

THS223k, THS223g, THS223w, THS223z:
• Applicable for all types of compression tests; for concrete etc.
• Steel 58 HRC, nickel-plated

THS223b:
• Platens with a large angular displacement of up to ±15°
• Aluminum, anodized (-Al) or steel 58 HRC, nickel-plated (-St)

Ordering information
Scope of delivery: 1 platen

THS223i for adapters up to 8 -10 mm Ø			
Item no.	Diameter	Weight	Radius
THS223i-56	56 mm	60 g	50
THS223k for adapters 12 - 25 mm Ø			
Item no.	Diameter	Weight	Radius
THS223k-56	56 mm	1.27 kg	100
THS223k-96	96 mm	1.4 kg	100
THS223k-116	116 mm	1.7 kg	100
THS223k-156	156 mm	2.7 kg	100
THS223k-196	196 mm	3.95 kg	100
THS223g for adapters 30 - 50 mm Ø			
Item no.	Diameter	Weight	Radius
THS223g-56	56 mm	5.3 kg	200
THS223g-96	96 mm	6.1 kg	200
THS223g-116	116 mm	6.5 kg	200
THS223g-156	156 mm	7.1 kg	200
THS223g-196	196 mm	7.4 kg	200
THS223w for adapters 50 - 60 mm Ø			
Item no.	Diameter	Weight	Radius
THS223w-156	156 mm	7 kg	300
THS223w-196	196 mm	9.8 kg	300
THS223z for adapters larger than 60 mm Ø			
On request			
THS223b: big angle version standard adapter Af15.9 mm			
Further adapters on request			
Item no.	Diameter	Weight	Angle
THS223b-100-Al	100 mm	0.9 kg	±15°
THS223b-150-Al	150 mm	1.5 kg	±15°
THS223b-200-Al	200 mm	2.1 kg	±15°
THS223b-200-St	200 mm	5.2 kg	±15°
Adapters to mount THS223 platen on TH36 platen			
Item no.	Description:		
THS223k-Af159-TH36	Adapter to mount THS223k on TH36, angle ±1.5°, coupling Af15.9 mm		
THS223g-Af159-TH36	Adapter to mount THS223g on TH36, angle ±1.5°, coupling Af15.9 mm		
THS223b-Af159-TH36	Adapter to mount THS223b on TH36, angle ±15°, coupling Af15.9 mm		

Max. capacity depends on coupling size (B).

Further dimensions and modifications on request

Types i k g w Z b X:	i = adapter 8, spherical radius R50
	k = adapter 14-20, spherical radius R100
i = very small	g = adapter 30-50, spherical radius R200
k = small	w = adapter 60-70, spherical radius R300,
g = large	inner Ø of clamping ring 116 mm
w = very large	Z = adapter 80, spherical radius R300,
Z = very large, pitch circle diameter	inner Ø of clamping ring 125 mm
B = large angle	B = ±15° swivelling, spherical radius b30
X = eXotic solution	(30 mm Ø for Af159 and Af20; -b60 - 60 mm Ø for Af30)
	X = with pitch circle, external spring
	(without Af or Am adapter)
	S = with internal thread, external spring, exotic solution

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THS223i-56-Af8	THS223k-116-Af159	THS223b-100-Af159-Al Aluminum

THS223b-200-Af159-St Steel	TH23-56-Af159-St + 1 x THS223k-56

TH36-250-Af159   THS223k-Af159+TH36-250

Self-aligning platen THS223 can be combined with a square platen TH36

Combination for square platen: 1x rigid and 1x self-aligning platen.
For example, on the picture above: 1 pair of square TH36-250 platens combined with an intermediate platen
THS223k-Af159-TH36 with self-aligning adapter. The intermediate platen is mounted on the aluminium platen.

Videos demonstrate how the platens work:

The self-aligning movement of the platen does not need much force:

https://youtu.be/ZdKfnv8AZZA

The self-aligning movement of the platen can be fixed by tightening the 4 nuts:

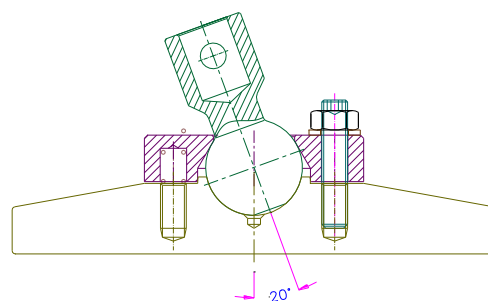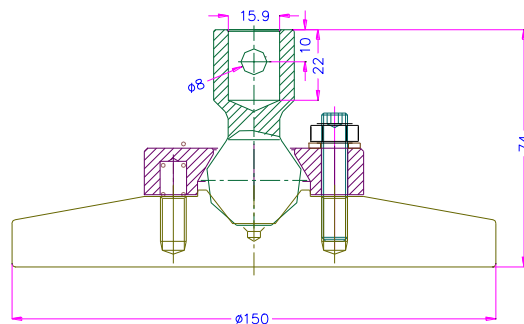https://youtu.be/Sq-gL84vvUk
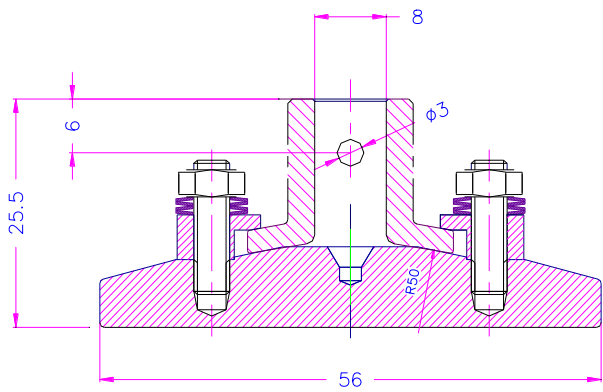
60gr Alu   THS223i−56−Af8
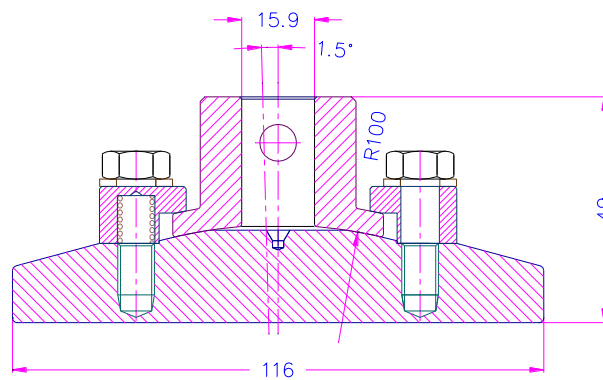
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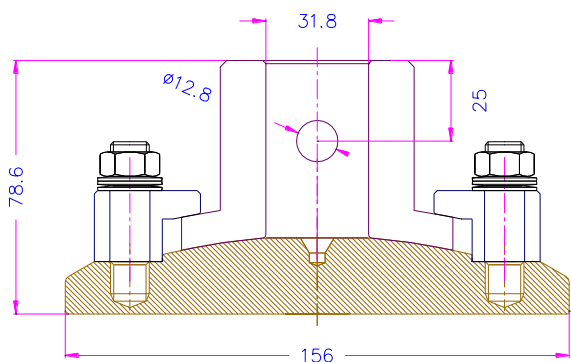
THS223g−156−Af318
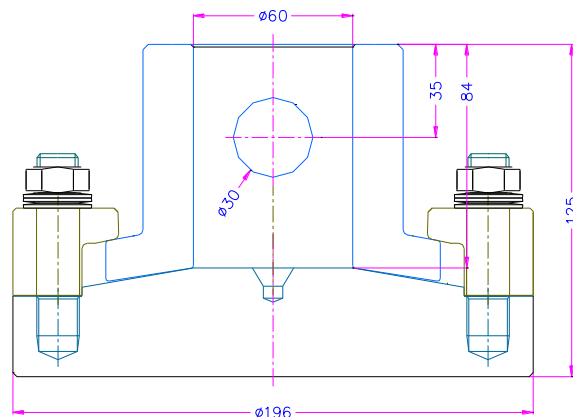
THS223w−196−6030−35
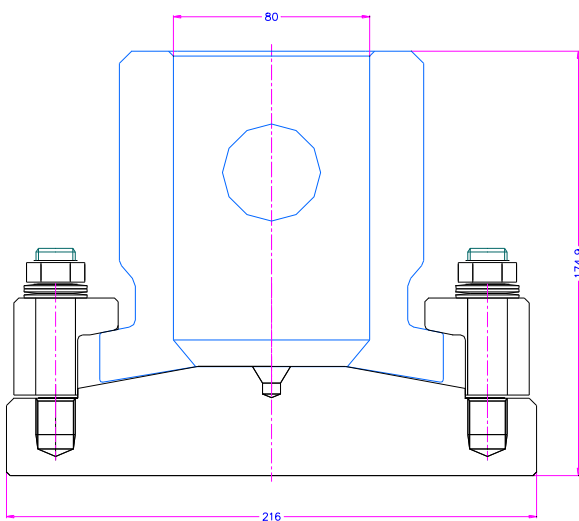
THS223z−156−Af80

THS223b−150−Af159−Al

Examples for customized modifications:

THS223X-220-M20

Steel spherically-seated compression platen
Not fixable
Max. load 600 kN

THS223X-136-AFM36

Not fixable

**THS223k-Af159-TH36 +
TH36L-D200-L6x20-AL**

TH223b-56-Af159

56 mm diameter
spherically-seated, fixable, big angle ±20°

TH36-D200-R1 + THS223b-Af159 - DIN EN ISO2439

Compression platen with ball joint
to measure the indentation hardness
of flexible cellular materials according to DIN EN ISO2439
Diameter 200 mm, radius 1 mm

For bottom platen we recommend TH36L-400-L6x20

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