

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 $\pm 10^\circ$
- 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

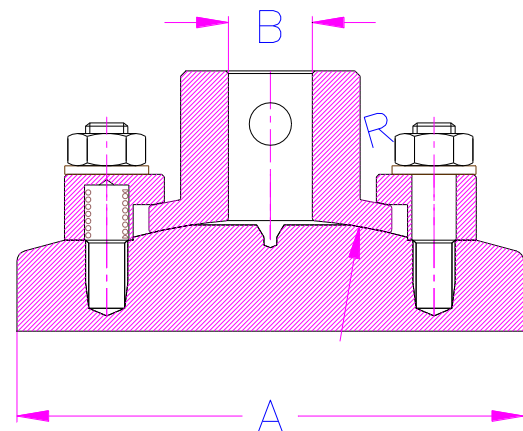
THS223z for adapters larger than 60 mm Ø			
On request			

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	$\pm 10^\circ$
THS223b-150-Al	150 mm	1.5 kg	$\pm 10^\circ$
THS223b-200-Al	200 mm	2.1 kg	$\pm 10^\circ$
THS223b-200-St	200 mm	5.2 kg	$\pm 10^\circ$

Adapters to mount THS223 platen on TH36 platen	
Item no.	Description:
THS223k-Af159-TH36	Adapter to mount THS223k on TH36, angle $\pm 1.5^\circ$, coupling Af15.9 mm
THS223g-Af159-TH36	Adapter to mount THS223g on TH36, angle $\pm 1.5^\circ$, coupling Af15.9 mm
THS223b-Af159-TH36	Adapter to mount THS223b on TH36, angle $\pm 10^\circ$, coupling Af15.9 mm

Further dimensions and modifications on request



Max. capacity depends on coupling size (B).

Types i k g w Z b X:

i = very small
k = small
g = large
w = very large
Z = very large, pitch circle diameter
B = large angle
X = eXotic solution

i = adapter 8, spherical radius R50
k = adapter 14-20, spherical radius R100
g = adapter 30-50, spherical radius R200
w = adapter 60-70, spherical radius R300, inner Ø of clamping ring 116 mm
Z = adapter 80, spherical radius R300, inner Ø of clamping ring 125 mm
B = $\pm 10^\circ$ swivelling, spherical radius b30 (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

Temperature range: -70 ... + 180°C (aluminium); -70 ... +280°C (steel)
Further temperature ranges on request

		
<p>THS223i-56-Af8</p>	<p>THS223k-116-Af159</p>	<p>THS223b-100-Af159-Al Aluminum</p>

	
<p>THS223b-200-Af159-St Steel</p>	<p>TH23-56-Af159-St + 1 x THS223k-56</p>

		
<p>TH36-250-Af159</p>	<p>THS223k-Af159+TH36-250</p>	

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:

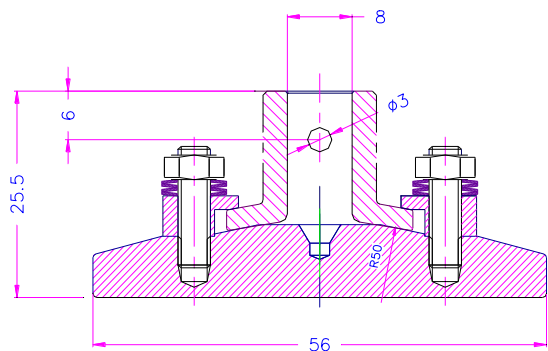
<https://youtu.be/ZdKfzv8AZZA>



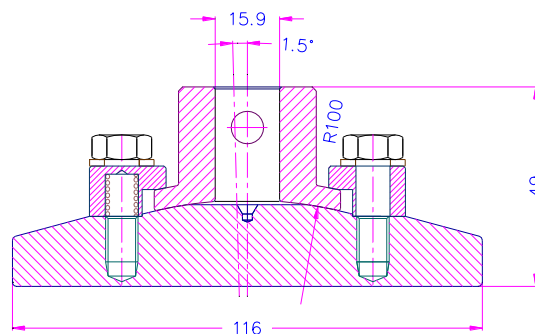
The self-aligning movement of the platen can be fixed by tightening the 4 nuts:

<https://youtu.be/Sq-gL84vvUk>

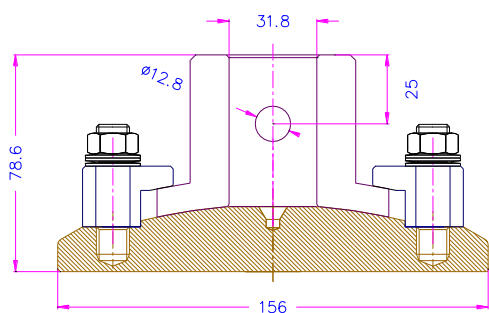




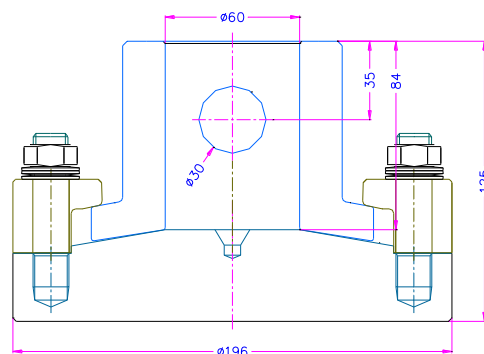
60gr Alu THS223i-56-Af8



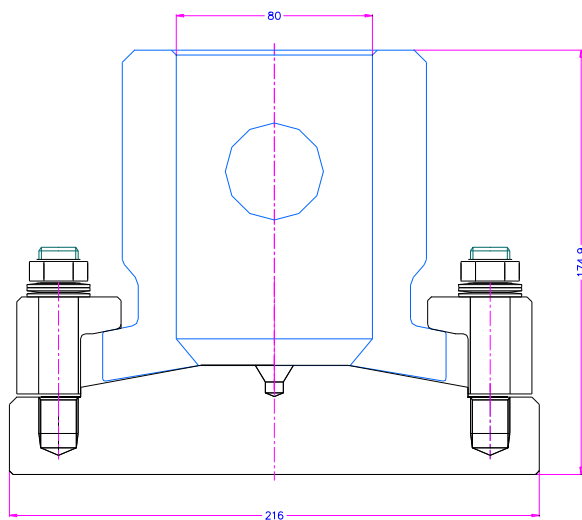
THS223k-116-Af159



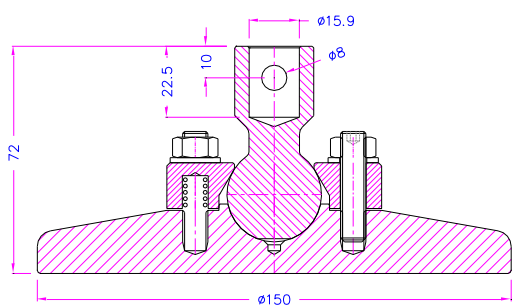
THS223g-156-Af318



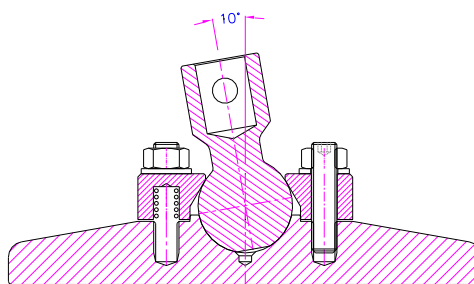
THS223w-196-6030-35








THS223z-156-Af80



THS223b-150-Af-Af159



Examples for customized modifications:

	
<p>THS223X-220-M20</p> <p>Steel spherically-seated compression platen Not fixable Max. load 600 kN</p>	<p>THS223X-136-AFM36</p> <p>Not fixable</p>
	
<p>THS223k-Af159-TH36 + TH36L-D200-L6x20-AL</p>	<p>TH223b-56-Af159</p> <p>56 mm diameter spherically-seated, fixable, angle $\pm 10^\circ$</p>
	<p>TH36-D200-R1 + THS223b-Af159 - DIN EN ISO2439</p> <p>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</p> <p>For bottom platen we recommend TH36L-400-L6x20</p>