

# Pneumatic Wedge Grip

TA175

## TA175 Pneumatic Wedge Grips 10, 20, 50, 100 and 300 kN

- Self-aligning centric jaw movement
- Self-intensifying clamping system to hold a sample securely in place, very high clamping load
- Ideal for complicated samples with low coefficient of friction such as hard steel foils, plastic or rubber with fibers
- Can be supplied with pull rods of different lengths for use in temperature chambers\*
- -70° to +300°C temperature range possible with special sealings on request

Item Number:	TA175-10
Load:	10 kN
Clamping force:	20 kN at 7 bar and 10 kN tension 26 kN at 16 bar and 10 kN tension
Jaw clamping surface:	33x40 mm (height x width)
Standard temperature range:	-70° to 280°C
Standard coupling:	Af159 or Af20 Further couplings on request
Body:	Stainless steel
Jaws:	Hardened steel 58 HRC
Weight per grip without jaws:	Ca. 2.8 kg
Scope of delivery:	1 pair of grips without jaws
*Pull rods of different lengths are available on request (not included in price). Item Number: TAS521	



### Jaws for TA175-10:

Item Number	Surface	Opening	Clamping surface (h x w)	Weight per pair	
Pyramid (serrated) jaws for flat samples:					
TA175-10-BP6	Pyramid (serrated)	0-6 mm	33x40 mm	0.3 kg	 Pyramid 1x45°
TA175-10-BP12	Pyramid (serrated)	6-12 mm	33x40 mm	0.2 kg	
TA175-10-BP16	Pyramid (serrated)	10-16 mm	33x40 mm	0.2 kg	
V Jaws for round samples:					
TA175-10-BV6	V Jaws	2-6 mm	Clamping height 33 mm	0.3 kg	 V Jaw
TA175-10-BV12	V Jaws	6-12 mm	Clamping height 33 mm	0.2 kg	

Scope of delivery: 1 set = 4 jaws  
Jaws with other surface coatings and openings are available on request



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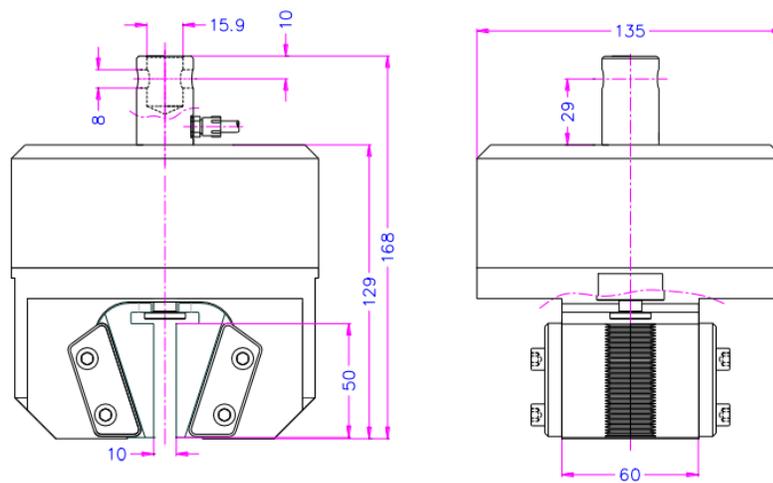
<b>Item Number:</b>	<b>TA175-20</b>
Load:	20 kN
Clamping force:	43 kN at 7 bar and 20 kN load
Jaw clamping surface:	50x60 mm (height x width)
Standard temperature range:	0° to +180°C Further ranges on request
Standard coupling:	Af159 or Af20 Further couplings on request
Body:	Steel, nickel-plated
Jaws:	Hardened steel 58HRC
Weight per grip without jaws:	Ca. 8.9 kg
Scope of delivery:	1 pair of grips without jaws

## Jaws for TA175-20:

Item Number	Surface	Clamping surface (h x w)	Opening	Weight per pair
TA175-20-BP8	Pyramid (serrated)	50x60 mm	0-8 mm	1 kg
TA175-20-BP14	Pyramid (serrated)	50x60 mm	5-14 mm	0.9 kg
TA175-20-BP20	Pyramid (serrated)	50x60 mm	12-20 mm	0.8 kg
TA175-20-BV8	V-jaws for round samples	Clamping height 50 mm	3-8 mm	1 kg
TA175-20-BV14	V-jaws for round samples	Clamping height 50 mm	8-14 mm	0.9 kg
TA175-20-BV20	V-jaws for round samples	Clamping height 50 mm	13-20 mm	0.8 kg

Scope of delivery: 1 set = 4 jaws

Jaws with other surface coatings and openings are available on request



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<b>Item Number:</b>	<b>TA175-50</b>
Load:	50 kN
Clamping force:	103 kN at 7 bar and 50 kN load
Jaw clamping surface:	67x60 mm (height x width)
Standard temperature range:	-30° ... +180°C Further ranges on request
Standard coupling:	Af318 Further couplings on request
Body:	Steel, nickel-plated
Jaws:	Hardened steel 58 HRC
Weight per grip without jaws:	20.5 kg
Scope of delivery:	1 pair of grips without jaws

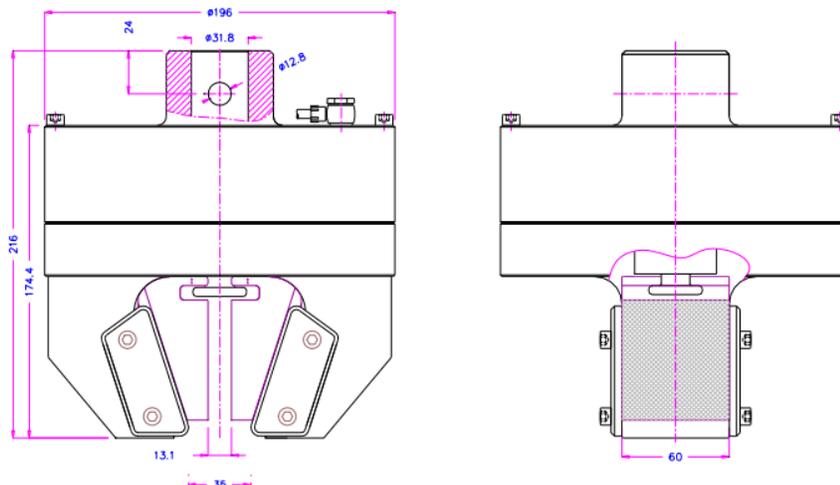
## Jaws for TA175-50:

Item Number.	Surface	Clamping surface (h x w)	Opening	Weight per pair
TA175-50-BP12	Pyramid (serrated)	67x60 mm	0-12 mm	2.2 kg
TA175-50-BP22	Pyramid (serrated)	67x60 mm	10-22 mm	1.9 kg
TA175-50-BP32	Pyramid (serrated)	67x60 mm	20-32 mm	1.5 kg
TA175-50-BP42+SG+RN48*	Pyramid (serrated)	67x60 mm	30-42 mm	1.4 kg
TA175-50-BV12	V-jaws for round samples	Clamping height 67 mm	5-12 mm	2.2 kg
TA175-50-BV22	V-jaws for round samples	Clamping height 67 mm	12-22 mm	1.9 kg
TA175-50-BV32	V-jaws for round samples	Clamping height 67 mm	22-32 mm	1.5 kg
TA175-50-BV42+SG+RN48*	V-jaws for round samples	Clamping height 67 mm	32-42 mm	1.4 kg

\*supplied with special guides and retracting nose (included in the price)

Scope of delivery: 1 set = 4 jaws

Jaws with other surface coatings and openings are available on request



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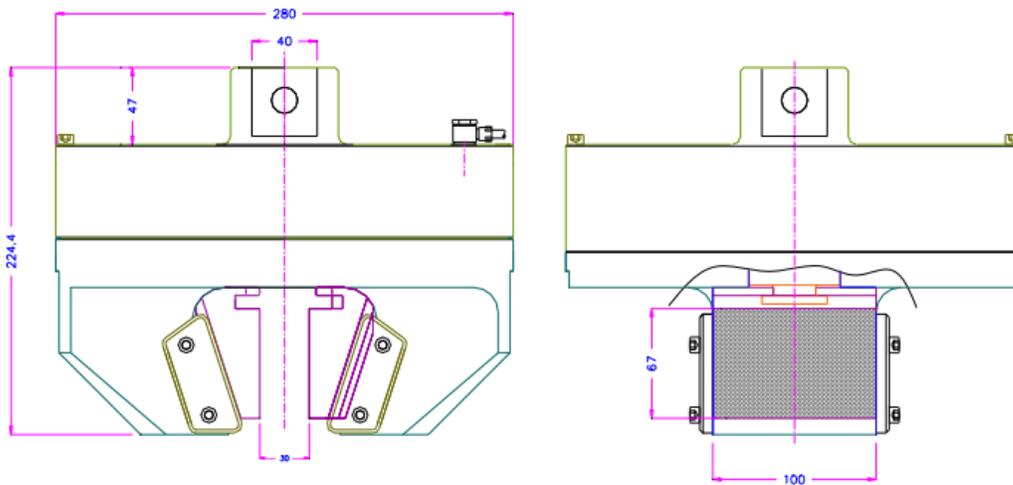
<b>Item Number:</b>	<b>TA175-100</b>
Load:	100 kN
Clamping force:	210 kN (7 bar 100 kN ) 274 kN (15 bar 100 kN )
Jaw clamping surface:	67x100 mm (height x width)
Standard temperature range:	-30° ... +180°C Further ranges on request
Standard coupling:	Af40 Further couplings on request
Body:	Steel, nickel-plated
Jaws:	Hardened steel 58 HRC
Weight per grip without jaws:	42 kg
Scope of delivery:	1 pair of grips without jaws

## Jaws for TA175-100:

Item Number	Surface	Clamping surface (h x w)	Opening	Weight per pair
TA175-100-BP12	Pyramid (serrated)	67x100 mm	0-12 mm	3.8 kg
TA175-100-BP22	Pyramid (serrated)	67x100 mm	10-22 mm	3.3 kg
TA175-100-BP32	Pyramid (serrated)	67x100 mm	20-32 mm	2.7 kg
TA175-100-BV13	V-jaws for round samples	Clamping height 67 mm	4-13 mm	3.7 kg
TA175-100-BV22	V-jaws for round samples	Clamping height 67 mm	13-22 mm	3.2 kg
TA175-100-BV32	V-jaws for round samples	Clamping height 67 mm	22-32 mm	2.9 kg

Scope of delivery: 1 set = 4 jaws

Jaws with other surface coatings and openings are available on request



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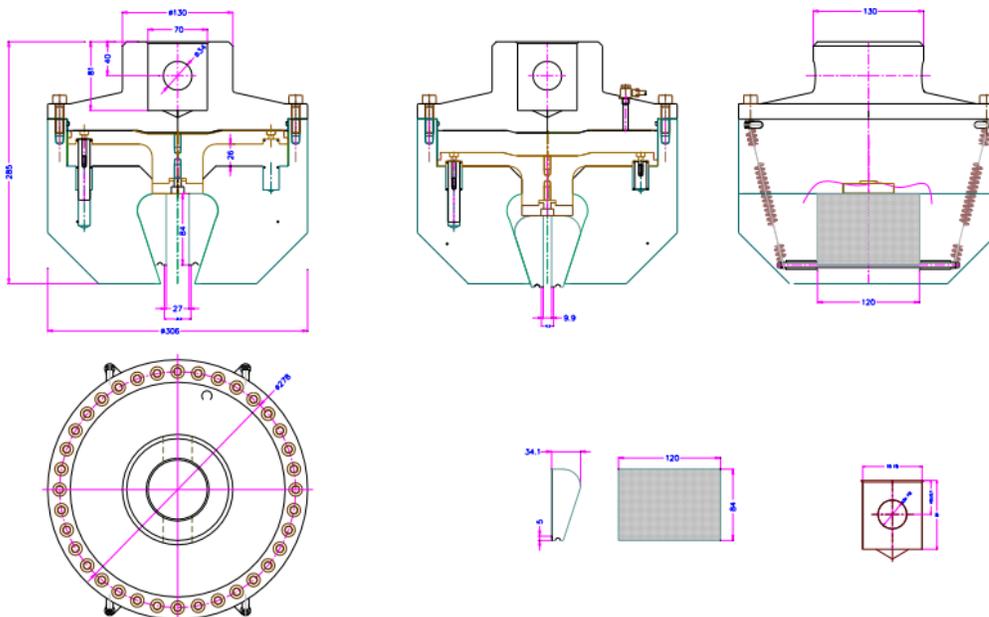
<b>Item Number:</b>	<b>TA175-300</b>
Load:	300 kN
Clamping force:	517 kN at 7 bar and 300 kN load
Jaw clamping surface:	84x120 mm (height x width)
Standard temperature range:	-30° ... +180°C Further ranges on request
Body:	Steel, nickel-plated
Jaws:	Hardened steel 58 HRC
Weight per grip without jaws:	Ca. 100 kg
Scope of delivery:	1 pair of grips without jaws

## Jaws for TA175-300:

Item Number	Surface	Clamping surface (h x w)	Opening	Weight per pair
TA175-300-B25	Blank jaws	84x120 mm	10-25 mm	Ca. 3.9 kg
TA175-300-BP25	Pyramid (serrated) jaws	84x120 mm	10-25 mm	Ca. 3.9 kg
TA175-300-BW25	Wave jaws	84x120 mm	10-25 mm	Ca. 3.8 kg
TA175-300-BD25	Diamond jaws	84x120 mm	10-25 mm	Ca. 3.9 kg
TA175-300-BV15	V-jaws for round samples	Clamping height 84 mm	5-15 mm	Ca. 4.4 kg

Scope of delivery: 1 set = 4 jaws

Jaws with other surface coatings and openings are available on request



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