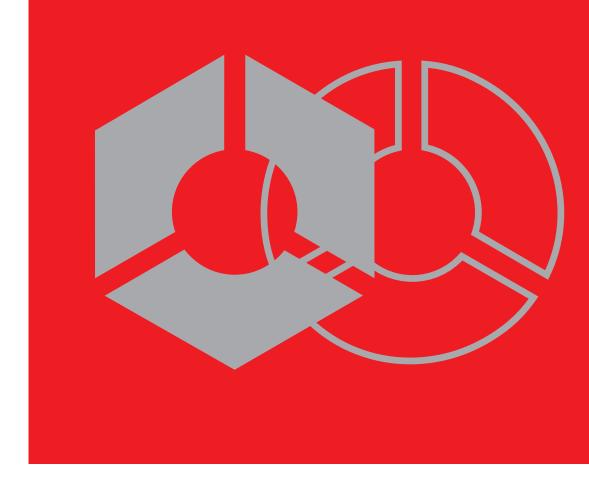




TESTit



CATALOGUE 2019



Utilis AG, Precision Tools Kreuzlingerstrasse 22, CH-8555 Müllheim, Switzerland Phone +41 52 762 62 62, Fax +41 52 762 62 00 info@utilis.com, www.utilis.com

TESTit

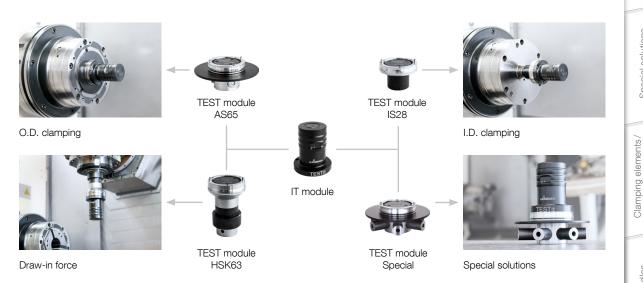
Safe processes through clamping force measurement



A regular check of the clamping force and draw-in force is imperative for a safe, precise, and productive process. These days no one can afford to manufacture with »theoretical clamping forces/draw-in forces«. Not to mention the fact that DIN EN 1550 requires that static clamping force measurements be carried out at regular intervals. The TESTit clamping force gauge measures and records the clamping force for O.D. clamping and I.D. clamping and even the draw-in force of hollow tapered shank locations. TESTit consists of two parts: The basic unit, which is the IT module, and the measuring units, which are the TEST modules. You only need the IT module once - regardless of whether you want to measure the clamping force at O.D. clamping or I.D. clamping or the draw-in force. It is so-to-speak the basis. Depending on the measurement application, there are different TEST modules that you can easily connect to the IT module via plug & play. Even special design TEST modules fit on the IT module. All aspects have been carefully considered! With TESTit you do not leave clamping force and draw-in force up to chance; you do prevent workpiece deformation and reduce scrap.

Key advantages

- Clamping force measurement for O.D. and I.D. clamping
- Draw-in force measurement of hollow tapered shanks
- Two units, connected with plug & play: IT module – the basic unit, TEST module – add on for various measurement applications
- Can be used rotating [under RPM] and for stationary applications
- Software for visualization and archiving



Measuring technology/Automation

Quick changeover systems

Special solutions

Accessories

TEST AND MEASUREMENT TECHNOLOGY **TESTit clamping force measuring device**

TESTit variants

	O.D. clamping 1	O.D. clamping 2&3	I.D. clamping	Draw-in force hollow tapered shanks	
Sizes	AS18	AS32, AS65, AS65-4	IS28, IS50, IS70	HSK40, HSK50, HSK63, HSK100	
Description	Clamping force measurement for O.D. clamping devices with round and smooth clamping surface	Clamping force measurement for O.D. clamping devices with smooth clamping surface	Clamping force measurement for I.D. clamping devices with round and smooth clamping surface	Draw-in force measurement in the hollow tapered shank tool location	
Use	 Clamping heads and collets 3-jaw chucks 	 For O.D. clamping 2: Clamping heads and collets / 3-jaw chucks / 2-jaw chucks / vises / centric vises For O.D. clamping 3: 4-jaw chucks / 2x2 chucks / 2-jaw chucks / vises / centric vices 	 Segmented clamping bushings 	 Hollow tapered shanks 	
Applications	Multi spindle	Machining center, lathe	Machining center, lathe	Machining center	

Order overview IT module

Product	Variant	In stock	Order no.
IT module	Without display device	 ✓ 	10014934
	With display device	 ✓ 	10014933

Tablet with 10 inch display

Storage case

Measurement and archiving software

Scope of delivery with display device IT module [basic unit], battery operating time approx. 8 h

Please note:

IT module and TEST module are available separately.

System requirements software: Operating system Windows 10, version 1709 or higher.

Scope of delivery without display device

- IT module [basic unit], battery operating time approx. 8 h
- Measurement and archiving software [USB-Stick]
- Bluetooth[®] stick
- Storage case

TESTit software

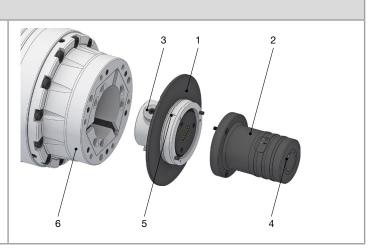
- 3 options for visualizing the measured results; bar graph, speedometer or line diagram [force / RPM diagram]
- Archive the results as .pdf or .csv file
- Bluetooth[®] connection for the TESTit devices



TESTit for O.D. clamping in detail

Designation

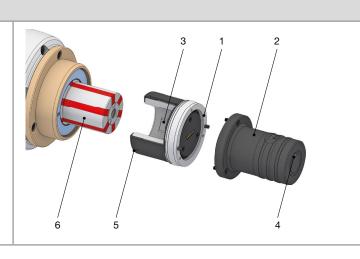
- 1 TEST module [measuring unit]
- 2 IT module [basic unit]
- 3 Measuring segments $[3 \times 120^{\circ}$ displaceable for O.D. clamping 1/2, $2 \times 180^{\circ}$ displaceable for 2-jaw measuring for O.D. clamping 2/3 and $4 \times 90^{\circ}$ displaceable for O.D. clamping 3]
- 4 USB-outlet for charging of the battery
- 5 Marking for positioning
- 6 Chuck with standard clamping head [smooth bore]



TESTit for I.D. clamping in detail

Designation

- 1 TEST module [measuring unit]
- 2 IT module [basic unit]
- 3 Measuring segments [3 x 120° offset]
- 4 USB-outlet for charging of the battery
- 5 Marking for positioning
- 6 Mandrel with standard segmented clamping bushing [smooth clamping surface]



TESTit for draw-in force of hollow tapered shanks in detail

Designation

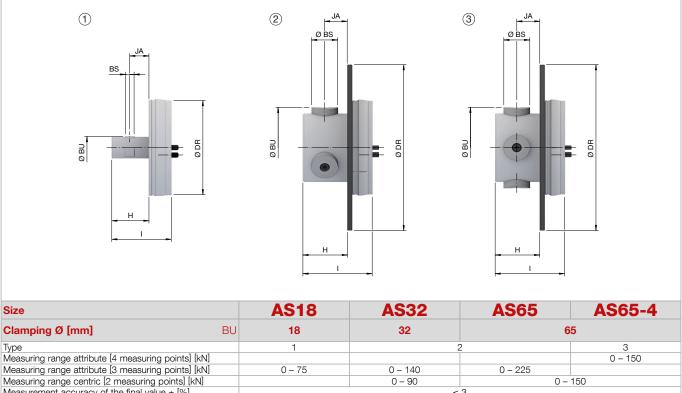
- 1 TEST module [measuring unit]
- 2 IT module [basic unit]
- 3 Measuring element
- 4 USB-outlet for charging of the battery
- 5 Turret spindle with hollow tapered shank



Quick changeover systems

TEST AND MEASUREMENT TECHNOLOGY **TESTit clamping force measuring device**

TEST modules for O.D. clamping. Technical data



Measuring range centric [2 measuring points] [kN]		0 - 90	0 -	150		
Measurement accuracy of the final value ± [%]		≤ 3				
RPM n max. [1/min.]	10000 8000		6000			
Total length [mm]	4	48 56		56		
Outer Ø [mm] DR	76	134				
Length [mm] H	30	28	36			
Length 2 [mm] BS	7	14	21			
Distance [mm] JA	15,5	14,5 18,5		3,5		
In stock	×	~	V	V		
Order no.	10014843	10014845	10014846	10014847		

Scope of delivery

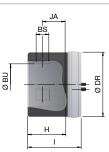
- TEST module incl. one set of measuring bolts in
- the specified clamping diameter [except for AS18]
- Service Pass
- Storage case

Plug gauge

Product	Figure	Suitable for	Clamping Ø [mm]	Application	In stock	Order no.
Plug gauge		32	For 2-point clamping force measurement	~	10015181	
		AS32			 ✓ 	10015184
		A532	42	For 3-point clamping force	-	10015185
			52	measurement	-	10015187
			0.5		~	10015188
		4005	65		~	10015190
			80	For 3-point and 2-point	-	10015191
		AS65	100	clamping force measurement	~	10015193
			120	1	~	10015195
		1005 1	65	For 4-point and 2-point	~	10015197
		AS65-4	120	clamping force measurement	~	10015198

TEST AND MEASUREMENT TECHNOLOGY **TESTit clamping force measuring device**

TEST modules for I.D. clamping. Technical data

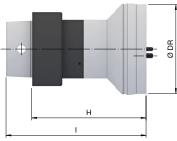


Size		IS28	IS50	IS70
Clamping Ø [mm]	BU	28	50	70
Measuring range attribute [3 measuring points] [kN]		0 – 100	0 – 200	0 - 240
Measurement accuracy of the final value ± [%]			≤ 5	
RPM n max. [1/min.]		-	7000	6000
Total length [mm]	1	53	63	68
Outer Ø [mm]	DR		76	95,5
Length [mm]	Н	35	45	50
Length 2 [mm]	BS		15	19
Distance [mm]	JA	21,5	27,5	30,5
In stock		~	V	V
Order no.		10014840	10014841	10014842

Scope of delivery

- TEST module
- Service Pass
- Storage case

TEST module for draw-in force of hollow tapered shanks. Technical data



Size	HSK40	HSK50	HSK63	HSK100 0 - 90	
Max. measuring range axial [kN]	0 –	20	0 – 50		
Measurement accuracy of the final value \pm [%]	≤ 3				
Total length [mm]	105	115,5	120	188,5	
Outer Ø [mm] DR	· · · · · · · · · · · · · · · · · · ·	100			
Length [mm] H	91 98			138,5	
In stock	-	-	V	-	
Order no.	10015203	10015204	10014848	10015205	

Scope of delivery

- TEST module
- Service Pass
- Storage case