

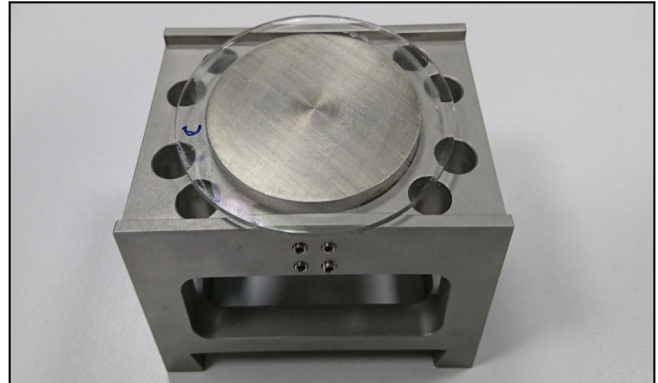
Product Information

Sample holders for ZHN Nanoindenter

CTA: 98982 98983



Steel specimen holder for 5 small specimen inserts, Ø 24 mm, insulated upper section

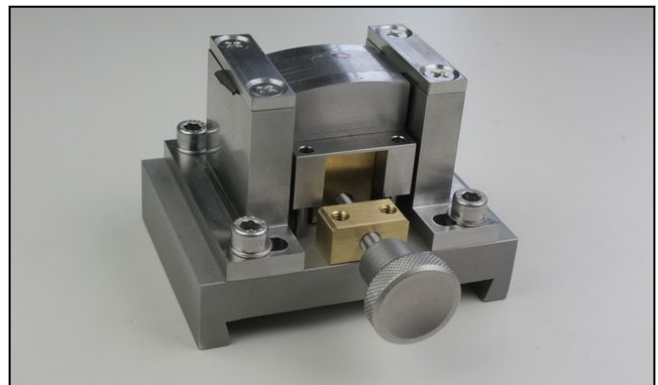


Steel specimen holder for 1 large specimen insert, Ø 50 mm

CTA: 101467 101513

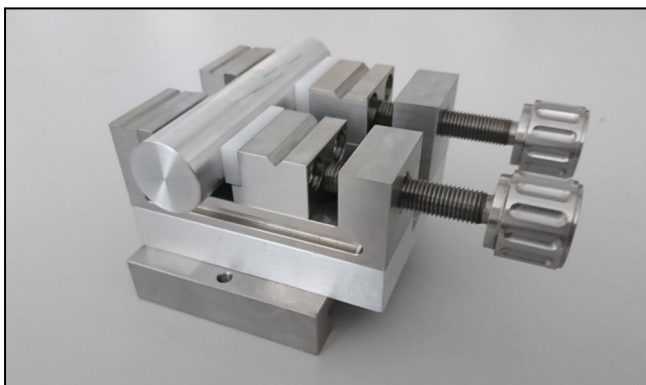


Set of specimen holder inserts, dia. 50 mm, for liquids

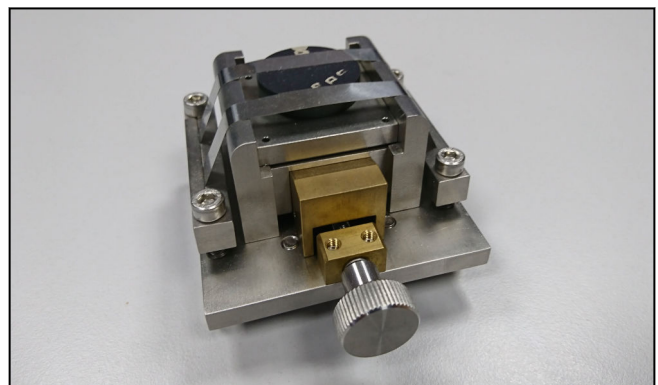


Specimen holder for films/foils

CTA: 161064 101504



Screw grip for round specimen



Clamp-type specimen holder

Applications

The Universal Nanomechanical Tester ZHN is designed for the determination of hardness and elastic modulus of materials and coating systems. Further on it is used as a micro scratch tester, profilometer, fatigue tester

and micro wear tester. To be able to test the various styles of samples, ZwickRoell is offering a wide range of sample holders, e.g. for foils, liquids and round specimens.

Product Information

Sample holders for ZHN Nanoindenter

Technical data

The technical data of the different sample holders are described below. Furthermore, a sample heater (up to 400 °C) is available, see separate product information. Similarly, specific adjustments to specific samples are available upon request.

Description	Item number
Steel specimen holder for 1 large specimen insert, Ø 50 mm <ul style="list-style-type: none"> • Work surface 80 mm x 60 mm • With dovetail guide, quartz glass calibration material 	1011433
Replacement specimen insert, Ø 50 mm, 1 piece <ul style="list-style-type: none"> • for steel specimen holders with dovetail guide 	1016673
Set of specimen holder inserts for steel specimen holders with 50mm Ø specimen insert <ul style="list-style-type: none"> • Comprising: 1 x insert with 3 mm recess for liquids, 1 x insert with 6 mm recess for liquids, 1 x insert with 12 mm recess for liquids 	1024800
Steel specimen holder for 5 small specimen inserts, Ø 24 mm <ul style="list-style-type: none"> • Insulated upper section with electrical connection for contact resistance measurement of tip to specimen • Work surface 80 mm x 80 mm • With dovetail guide 	1011432
Replacement specimen insert, Ø 24 mm, 1 piece <ul style="list-style-type: none"> • for steel specimen holders with dovetail guide 	1016675
Clamp-type holder for rapid securing of specimens without gluing <ul style="list-style-type: none"> • Maximum specimen length: <ul style="list-style-type: none"> for specimens up to 7.5 mm, height: 39.5 mm for specimens between 7.5 mm and 16 mm, height: 33.5 mm • Adjustable slot width between clamping plates; 6 mm to 12 mm • Maximum specimen width: 10 mm to 16 mm (depending on slot width) 	1019419
Specimen holder for films/foils, thin metal sheets and wire <ul style="list-style-type: none"> • Minimum specimen length for fastening: 50 mm • Maximum specimen width: 18 mm • Maximum measurement area: 10 x 10 mm² 	1019420
Screw grip for ZHN Nanoindenter <ul style="list-style-type: none"> • Maximum size of specimen (width x length): <ul style="list-style-type: none"> for 2 specimens: 25 mm x 40 mm for 1 specimen: 25 mm x 80 mm 	1063148

Hard wax/hotplate (optional accessory for specimen holders)

Different types of hot wax can be used to secure specimens to the specimen holder inserts. The wax is heated on a glass ceramic hotplate.

Description	Item number
Crystalbond hard wax, Type 555 (56 °C)	1016423
Crystalbond hard wax, Type 509 (85 to 110°C)	1016424
Glass ceramic hotplate <ul style="list-style-type: none"> • For securing specimens to the specimen holder (hard wax melted) • Heating temperature 50 to 500°C • Exact temperature setting via digital display (LED) • Footprint 100 x 100 mm • Heating power 250 W • incl. colophonium and 1 pack of lint-free dusters 	1018033