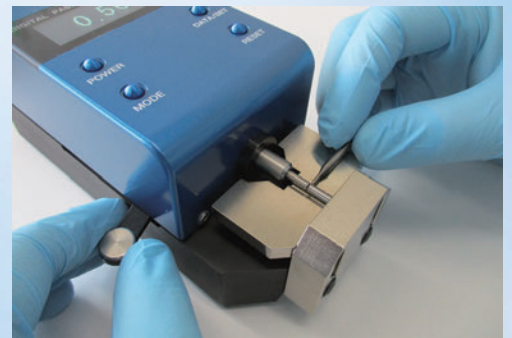


*Desktop digital display indicator  
that anyone can measure stably and  
with high accuracy by lever operation.*



## DIGITAL PASSAMETER DS-1

Simple! High-accuracy measurement



### What DS-1 can do.

- Accurate measurement of the thickness of components and the outer diameter of tools with a resolution of 1  $\mu\text{m}$ .
- Nimble measurement by adopting the crossed roller guide.
- Measuring force is constant over full stroke.
- Optimum measuring force can be set for a workpiece.
- Optional lineup of measuring probe shapes and measuring terminal boards suitable for workpieces.
- Data communication via USB and bus-powered operation.
- Supporting a mobile battery and usable in locations where there is no power outlet.

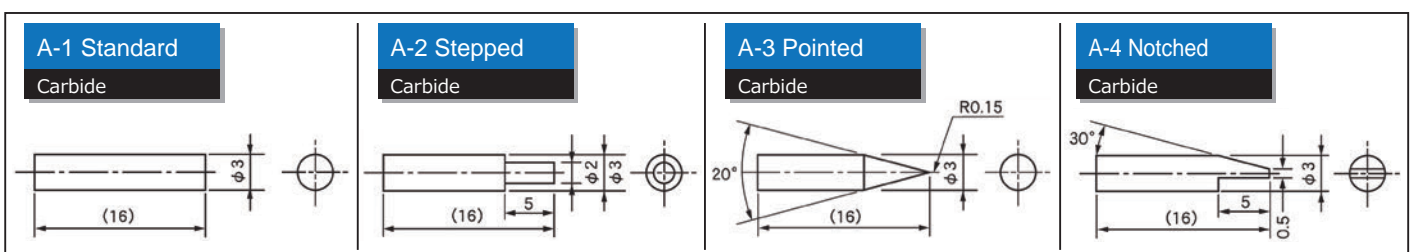
Equipped  
with USB



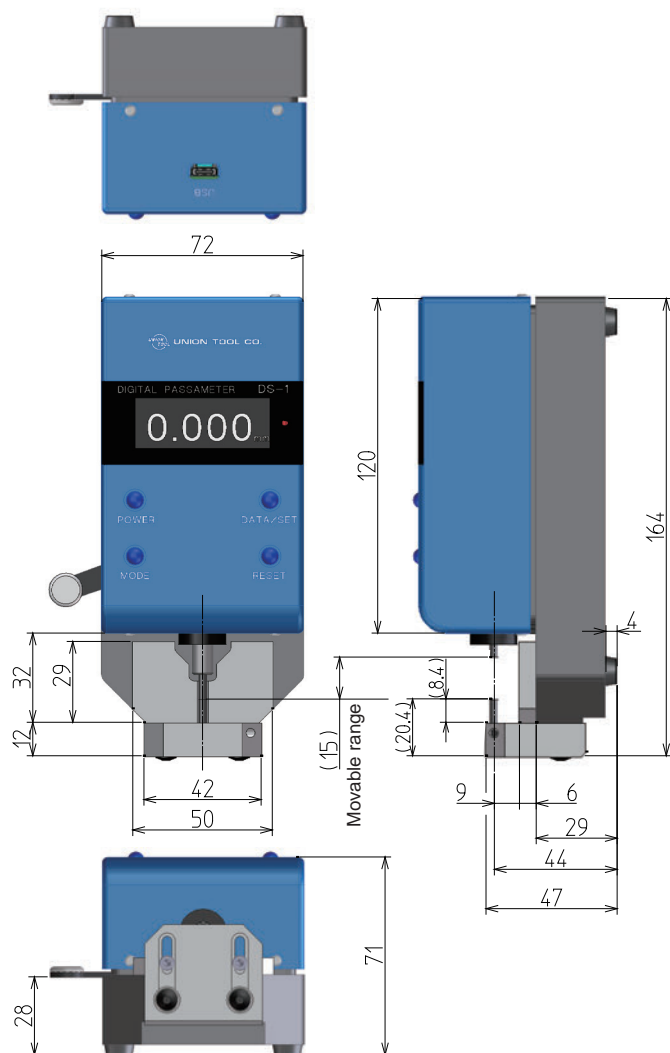
Mobile  
battery  
powered



■Anvil type, form or dimensions (mm)



## ■Dimensions Plan



## ■General specifications

Item	Specifications
Name	Digital Passameter DS-1
Measurement target	Precision machined parts such as PCB drills, probe pins, crystal pieces
Measuring range	0~15 mm
Resolution	1 μm
Measuring precision (20°C) ※1	2 μm
Maximum Response Speed※2	2 m/s
Measuring Force	0.15, 0.29 (factory default), 0.49, 0.98 N Can be changed by changing the hanging of springs
Probe	φ3.0mm carbide
Interface	USB 2.0 Type-C receptacle (shared use of power and data communication)
Temperature and humidity range	Operating temperature and humidity: 5 to 35°C, 45 to 85% Storage temperature: -20 to 60°C (no condensation)
Dimensions	W72 × D164 × H71 mm (Not including protrusions)
Mass	1.7 kg
Power※3	+5VDC (USB power supply) At startup: approx. 170 mA, At measurement: approx. 120 mA In standby mode: approx. 100 mA

\*1.Excluding quantization error.

\*2.Maximum electrical response speed.

\*3.In addition to the included AC adapter, a commercially available USB-AC adapter or mobile battery can be used to supply power.

## ■Examples of the DS series in use

<p>For dimensional inspection of machined parts, pin gauges, etc.</p>	<p>For measurement of thin lines, such as optical fiber or other fibers</p>	<p>For measurement of steel balls</p>	<p>For measurement of a stepped component, such as a test pin</p> <p>A-4 Notched used</p>
<p>For measuring drill outer diameter</p> <p>DS-1/P1</p>	<p>For measuring drill total length</p> <p>DS-1/P2</p>	<p>For measuring drill ring depth</p> <p>DS-1/P3</p>	<p>For measurement of places where the standard probe cannot be inserted, such as the depth of a groove</p> <p>A-3 Pointed used</p>

Please note the above specifications may be changed without prior notice due to modification, etc.