

The BENDER Endpin

for Cello and Double Bass

The BENDER Button

for Violin and Viola

by Klaus Bender, Germany



distributed by **Fiedler Cases Berlin**



www.fiedler-cases.com

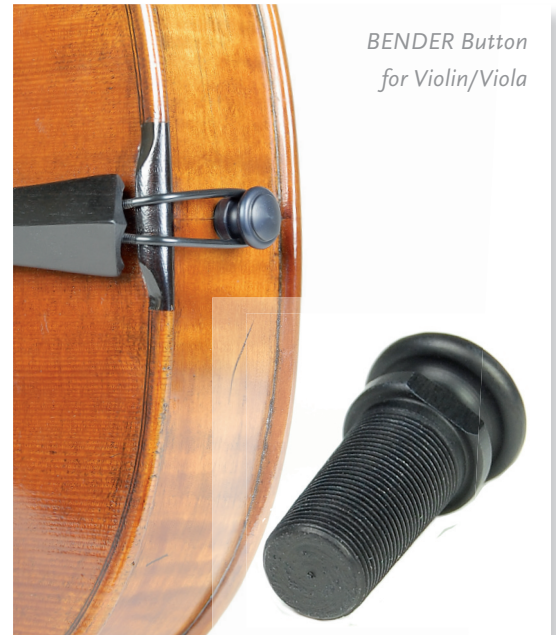
The BENDER Endpin

Developed by Klaus Bender, a dedicated cellist and engineer, who had been researching function and sound of cello and double bass endpins.

Function ▶ The Bender endpin is not just push fitted into the instrument, but screwed into the bottom block of the instrument. The fine thread on the cone nearly doubles the area of contact compared to conventional smooth cones. Screwed in tightly, this allows perfect sound transfer between tailpiece, instrument and end pin. The improvement of the sound is unmistakable.

The rod in the Bender cone is tightened with a non-slip collet nut. Here the tightening force onto the rod is distributed evenly around it, thus avoiding any punctual pressure damage to carbon fiber or slipping on other materials. The thread is larger and more stable than is the case with a classical thin tightening screw on the side.

Four (cello) or two (double bass) diameters of the cone are available, so any instrument can have its perfect Bender endpin.



*BENDER Button
for Violin/Viola*

*The BENDER endpin is unique as to its material, form, and function.
It is exclusively manufactured in Germany.*

*Titanium, Carbon Fiber,
Aluminum and Steel
Cello Endpins*



*Cello Endpin
Carbon*



Form ▶ The big, non-slip collet nut can be safely used even with damp hands – and it still looks good into the bargain. The collet is easy on the right hand even for players with small hands.

Material ▶ The cones of the Bender endpin and end button are made of aluminum. They have more mass than the regular wooden or plastic cones, a fact that has been tested and shown to improve the sound.

Weighing only 135g (4.3 ounces) the Bender endpin with a carbon rod is still one of the lightest on the market.

Aluminum is not influenced by changes in temperature or humidity. The Bender cone thus firmly remains in the instrument, a big advantage for musicians who do a lot of traveling.

Cello facts ▶

Cone diameters: 23.5 mm, 25 mm, 26.5 mm, 28 mm

Material of cello rod: Carbon fiber tube, titanium tube, aluminum tube, steel tube

Endpin diameter: 10 mm

Endpin length: 60 cm (24 inches)

Double bass facts ▶

Cone diameters: 31.5 mm, 33 mm

Material of doublebass rod: titanium tube, titanium solid rod

Endpin diameter: 10 mm

Endpin length: 35 cm (14 inches)

Violin/Viola facts ▶

Cone diameter: 9.5 mm

Service ▶ All components of the Bender endpin can be ordered separately. The tempered rod tip can be exchanged.



Double Bass Endpin Titanium