

# AROUND THE BALL

## MANUFACTURE AND MATERIAL

The ball and connecting parts are made of free-cutting steel with a high-gloss chrome plating. The high-precision manufacture of the ball guarantees absolute roundness in order to ensure permanent ease of movement. The powder-coated parts are made of an aluminum alloy with high strength values. Our quality management carries out constant controls during the manufacturing process. During disassembly, every vice and ball joint holder is subject to a quality and function control.

The individual parts are made in Germany from Remscheid, eco-friendly and sustainably produced. When procuring raw materials and accessories, we work with selected suppliers who adhere to environmental compliance and ethical principles.

The traditional brand BERNSTEIN stands for durable products for professionals, which many customers have enjoyed for decades.

## CLAMPING FORCE AND TORQUE

The size of the steel ball determines the holding force

Ø 40 mm

Maximum torque in the ball socket	approx. 24 Nm
Holding force at height of threaded pin	approx. 45 kg (441 N)

Ø 60 mm

Maximum torque in the ball socket	approx. 100 Nm
Holding force at height of threaded pin	approx. 140 kg (1372 N)

By degreasing the ball, you increase the maximum holding or clamping force.

For safety-relevant parts, please note that we cannot give a guarantee of the holding forces without knowing your specific application. The ball may behave differently under different physical conditions than it does in our test laboratory in an optimal test environment.

## THREADED CONNECTION

The threaded pin on the ball has an M12 thread with a 1.5 mm pitch (special thread).

We offer matching threaded connection adapters 1/4 inch or metric threads from M6 to M12. With internal or external thread, straight or 45° bent length from 50 to 100 mm. Other threaded connections are available on request.

