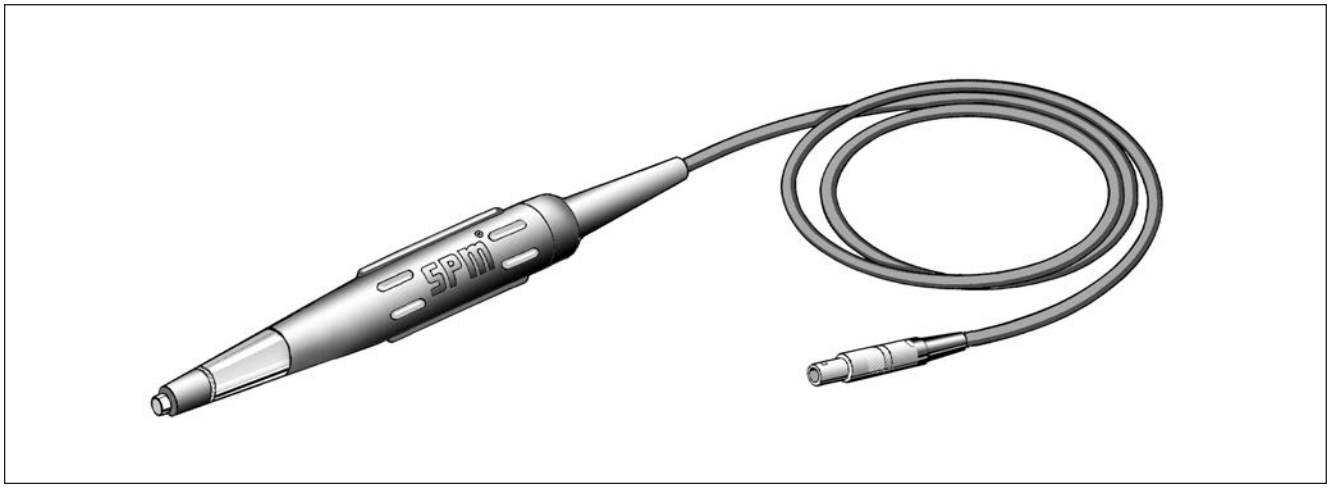
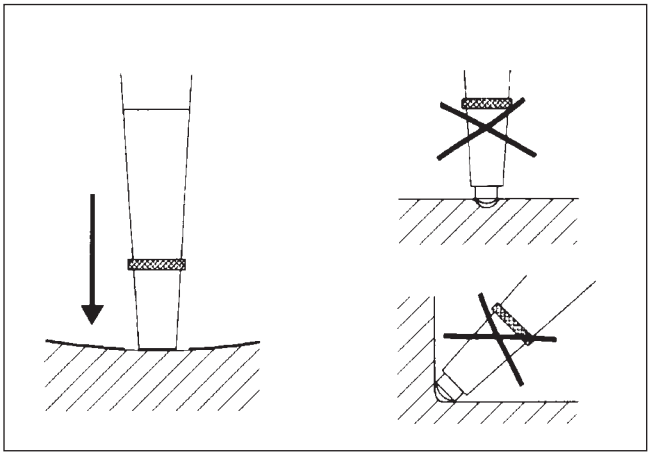
Shock Pulse Transducer with Probe TRA-73

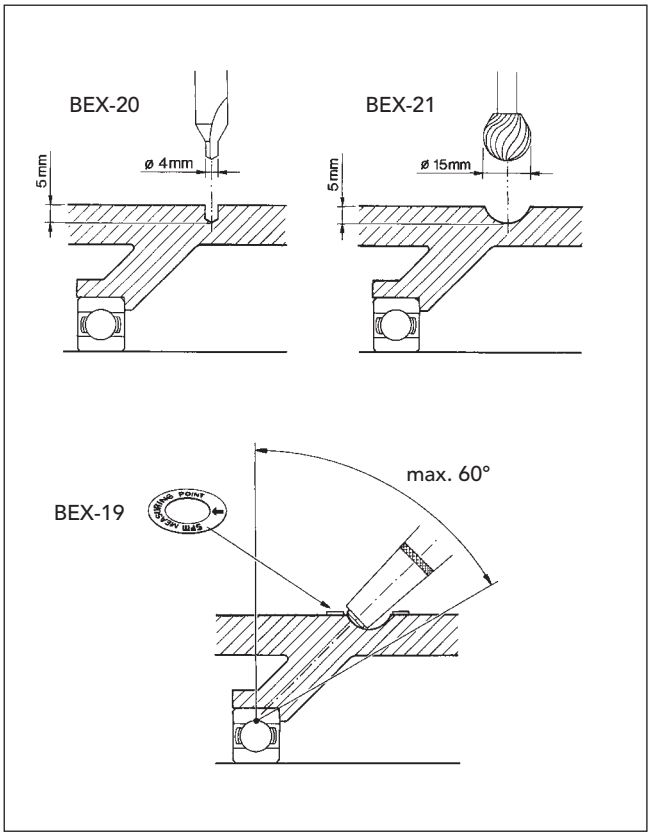


TRA-73 is a hand-held probe, which is used together with BearingChecker. The probe is directionally sensitive and must be held aligned against the bearing and not deviate from this direction by more than ±5°. The probe tip is spring loaded and moves within a sleeve made of chloroprene rubber (neoprene) and tolerates 110 °C (230 °F).

Measuring points for the probe transducer should be located directly on the bearing housing and the signal path should be in a direct line to the contact area. The strongest shock pulses are emitted from the loaded region of the rolling interface in the bearing. The loaded region for radial load covers a sector of ±45° from the load direction, for axial load the region is 360°. Since the transfer of shock pulses to the bearing housing is limited by the width of the bearing, direct radiation of pulses will be restricted to a sector of ±60° from the perpendicular to the rolling surface. Measuring points should be clearly marked, for instance with the SPM marker BEX-19.

To maintain a steady pressure on the tip, press the probe tip against the measuring point until the rubber sleeve is in contact with the surface. Avoid pressing the probe tip against cavaties and fillets which are smaller than the probe tip.





Technical specifications

Coaxial cable	PVC, length 1.5 m (5 ft)
Connector	Mini coax
Temperature range	–30° to +70° C.
Dimensions	260 x 25 mm (10.2 x 1 in)
Weight	275 g (9.7 oz)

Part numbers

TRA-73	Shock pulse transducer, probe assembly
BEX-19	Measuring point marker
BEX-20	Center drill
BEX-21	Rotary file

Spare parts

TRA-15	Transducer with probe
BAX-10	Probe handle
CAB-73	Cable, mini coax connector, 1.5 m (5 ft)
13108	Sleeve for probe tip