BENKELMAN BEAM APPARATUS

The apparatus is used to measure the deflection of flexible pavements under the axion of moving wheel loads.
In operation the beam is placed between the tyres of the test vehicle and in contact with the pavement. The deflection is measured as the vehicle passes over the test area.
The probe is 2440 mm long and the back extension is 1220 mm.
Manufactured in aluminium and chrome finished metals.

- Weight approx.: 15 kg

BENKELMAN BEAM APPARATUS

STANDARDS

- AASHTO T256

ACCESSORIES

35-T1100/FC

Wooden carrying case per Benkelmann beam

80-B0180/1

Spare gauge with bracket

80-B0180/2

Adjustable feet for Benkelman beam complete with two spirit level.

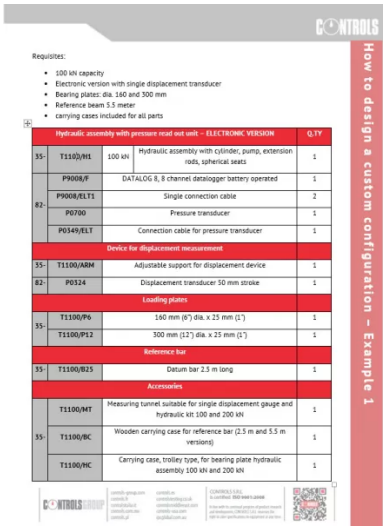
80-B0180/3

Calibration device for Benkelman beam

ORDERING CODE

35-T1100/BF

Benkelman beam apparatus - Conforming to AASHTO T256, NF P98-200-2 and CNRNo. 141. Manufactured from aluminium and chrome finished metals. 2440 mm max lenght, 1220 mm back extension. Complete with adjustable feet and bubble level



CONTROLS

How to design a custom configuration – Example 1

Requisites:

- 100 kN capacity
- Electronic version with single displacement transducer
- Bearing plates: dia. 160 and 300 mm
- Reference beam 5.5 meter
- carrying cases included for all parts

				QTY
Hydraulic assembly with pressure read out unit – ELECTRONIC VERSION				
35-	T1100/H1	100 kN	Hydraulic assembly with cylinder, pump, extension rods, spherical seats	1
82-	P9008/F		DATALOG 8, 8 channel datalogger battery operated	1
	P9008/ELT1		Single connection cable	2
	P0700		Pressure transducer	1
	P0349/ELT		Connection cable for pressure transducer	1
Device for displacement measurement				
35-	T1100/ARM		Adjustable support for displacement device	1
82-	P0324		Displacement transducer 50 mm stroke	1
Loading plates				
35-	T1100/P6		160 mm (6") dia. x 25 mm (1")	1
	T1100/P12		300 mm (12") dia. x 25 mm (1")	1
Reference bar				
35-	T1100/B25		Datum bar 2.5 m long	1
Accessories				
35-	T1100/MT		Measuring tunnel suitable for single displacement gauge and hydraulic kit 100 and 200 kN	1
	T1100/BC		Wooden carrying case for reference bar (2.5 m and 5.5 m versions)	1
	T1100/HC		Carrying case, trolley type, for bearing plate hydraulic assembly 100 kN and 200 kN	1