# Manual test fixture

## MA 3213/D/H/S-10

Item 43580





 Manual test fixtures with parallel closing drive mechanism for testing large PCB quantities with the highest quality and precision

- Ultra-robust long-life test fixture with increased parallel stroke of 21 mm
- Interchangeable set of test fixtures without preconfigured test system interface
- Standard, ESD, and RF exchangeable kits that can be installed without tools and used without readjustment
- Modularly configurable signal transmission using interface blocks, which can be quickly detached
- Detailed accompanying documents (e.g., customising guidelines)
- Maximum opening angle may vary due to the length tolerance of +/- 2 mm of the gas spring

### Note

By replacing the gas springs, an additional weight of 3 kg car be loaded onto the pressure frame for every 100 N increase.





### **General data**

RoHS-compliant:

Test system interface: Not pre-wired Manual test fixtures (MA) Product group: Main series: MA xxxx Subseries: MA 32xx Series: MA 3213 Size: xx13 Exchangeable test fixture Test fixture type: Contact stroke generation: Manual Desk housing Housing type: Max. interface signals: 1.700 Interface blocks required: Test system side Max. internal interface blocks: 10 Double-sided (top/bottom) Contacting direction: Max. contact force: 2 N [7.19 ozf] 22 mm [.866 in] Approx. parallel contact stroke: 16.8 kg [37 lbs] Weight: Min. temperature: 10 °C [50 °F] Max. temperature: 60 °C [140 °F] Low voltage: Yes, with suitable additional option ESD-compliant: Yes, with compatible exchangeable kit

### **Technical data**

Test probe installation height, top: 16 mm [.629 in] Test probe installation height, bottom: 10.5 mm [.413 in] Test probe installation height, dual-stage, bottom: 16 mm [.629 in] Free space above PCB: 58 mm [2.28 in] Force of gas pressure springs: 400 N (L: 200 N / R: 200 N) Pressure frame opening angle: Standard version: Yes, with compatible exchangeable kit 440 x 310 mm [17.3 x 12.2 in] Useable area, standard (WxD): ESD version: Yes, with compatible exchangeable kit Useable area, ESD (WxD): 440 x 310 mm [17.3 x 12.2 in] Radio frequency version: Yes, with compatible exchangeable kit Useable area, radio frequency (WxD): 375 x 240 mm [14.7 x 9.44 in] Rigid pin version: Yes, with compatible additional option Dual-stage version: 440 x 310 mm [17.3 x 12.2 in] Useable area, dual-stage (WxD): Additional contacting unit (ZSK), top: Yes, with suitable additional option Outer dimensions, open (WxDxH): 648 x 533 x 670 mm [25.5 x 20.9 x Outer dimensions, closed (WxDxH): 648 x 601 x 270 mm [25.5 x 23.6 x 10.6 in]

Yes

# MANUAL TEST FIXTURE

# Manual test fixture MA 3213/D/H/S-10

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Learn more about Manual test fixtures (MA)

