

# Manual test fixture MA 3212/D/H/S-7

Item 43630



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**ingun**<sup>®</sup>  
Partner for Future Technology

- 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

## INGUN SELECTION



### Note:

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

### General data

Test system interface: Not pre-wired  
Product group: Manual test fixtures (MA)  
Main series: MA xxxx  
Subseries: MA 32xx  
Series: MA 3212  
Size: xx12  
Test fixture type: Exchangeable test fixture  
Contact stroke generation: Manual  
Housing type: Desk housing  
Max. interface signals: 1190  
Interface blocks required: Test system side  
Max. internal interface blocks: 7  
Contacting direction: Double-sided (top/bottom)  
Max. contact force: 2,000 N [7,193 ozf]  
Approx. parallel contact stroke: 22 mm [.866 in]  
Weight: 13.6 kg [29.9 lbs]  
Min. temperature: 10 °C [50 °F]  
Max. temperature: 60 °C [140 °F]  
Low voltage: Yes, with suitable additional option  
ESD-compliant: <p>Yes, with compatible exchangeable kit</p>  
RoHS-compliant: Yes

### 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: 300 N (L: 100 N / R: 200 N)  
Pressure frame opening angle: 69 °  
Standard version: <p>Yes, with compatible exchangeable kit</p>  
Useable area, standard (WxD): 285 x 240 mm [11.2 x 9.44 in]  
ESD version: <p>Yes, with compatible exchangeable kit</p>  
Useable area, ESD (WxD): 285 x 240 mm [11.2 x 9.44 in]  
Radio frequency version: <p>Yes, with compatible exchangeable kit</p>  
Useable area, radio frequency (WxD): 215 x 180 mm [8.46 x 7.08 in]  
Rigid pin version: Yes  
Useable area, rigid pin (WxD): 255 x 220 mm [10 x 8.66 in]  
Dual-stage version: <p>Yes, with compatible additional option</p>  
Useable area, dual-stage (WxD): 285 x 240 mm [11.2 x 9.44 in]  
Additional contacting unit (ZSK), top: Yes, with suitable additional option  
Outer dimensions, open (WxDxH): 492 x 464 x 607 mm [19.3 x 18.2 x 23.8 in]  
Outer dimensions, closed (WxDxH): 492 x 533 x 270 mm [19.3 x 20.9 x 10.6 in]

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