

# BFS-20

The **BFS-20** is a new device to calibrate the bond force unit of F&K Delvotec fully automatic bond machines. It comes with a serial interface to communicate with the bond machine to carry out automatic calibration runs.

The load cell can measure up to 20N (2 kgs) and is therefore ideally for fine wire and heavy wire bonders. The **BFS-20** can be customized to measure also other force ranges.

Based on its design and easy handling it can be used also on other brands to measure the bond force.

By using the PC-Host software one can analyse dynamic behaviour of the bond force unit, e.g. check the impact of the touch down and stability of the bond force over a bond cycle.



### Specification

Bond force evaluation & calibration	<i>Measurement tasks</i>
Bond force	<i>Measured values</i>
2 selectable ranges	<i>Bond force ranges<sup>1)</sup></i>
range 1: 0 to 2 N (0 to 200 g)	
range 2: 0 to 20 N (0 to 2 kg)	
range 1: ± 0.01 N (±1g)	<i>Bond force measuring accuracy</i>
range 2: ± 0.5%, minimum ± 0.02 N (±2g)	<i>Bond force linearity</i>
	± 0.5%

### Power supply

Plug-in power supply	<i>Type</i>
100 – 240 VAC, 50/60 Hz	<i>Input voltage</i>
15 VDC, stabilized	<i>Output voltage</i>
max. 1.0 A	<i>Output current</i>

### Dimensions, Weight

length / height / width (weight)	<i>Force sensor</i>
2.56" x 0.55" x 0.6" (approx. 40g)	
length / height / width (weight)	<i>Electronic unit</i>
6.1" x 3.54" x 8.03" (approx. 1100g)	
length / height / width (weight)	<i>Power supply</i>
2.76" x 1.97" x 1.57" (approx. 150g)	

### Additional features

USB communication port and PC-Host software  
(PC-Host software runs on MS-Windows 7)<sup>2)</sup>  
Internal data capturing (Min- and Max-values)

<sup>1)</sup> Other measuring ranges are possible, please ask for special calibrations.  
<sup>2)</sup> PC not included.



Storage case example. Colour might be different.

DS-20  
F&K  
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