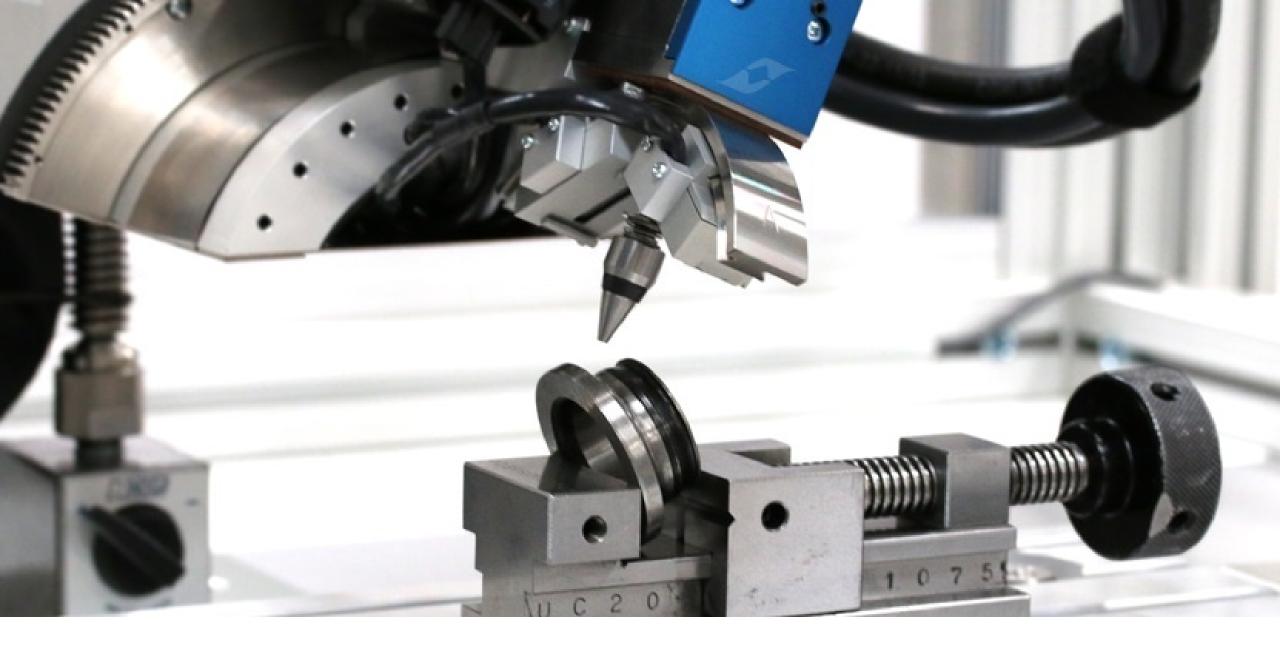
2019-11-07



Measure for success



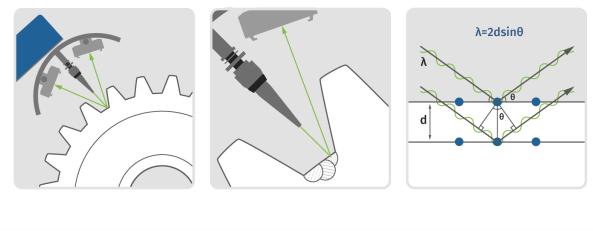


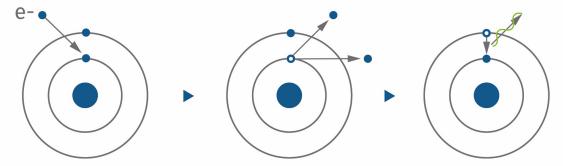


Manufacturing processes like heat treatment, machining, welding, shot peening and grinding generate residual stresses in manufactured components.

**X-ray diffraction** is a powerful method for measuring these stresses both in component surface and beneath the surface as a stress depth profile.

X-ray diffractometer **Xstress G2** represents advances in design and construction, which provide enhanced reliability and function in a truly portable residual stress and retained austenite analyzer.







- Non-destructive
- Suitable for laboratory, factory and field use
- Quick assembly, ready to use in 10 minutes
- Easy replacement of X-ray tube (Cr, Cu, Co, Fe, V, Ti, Mn) which enables measuring different materials
- Measurement distance 50 mm
- Two NMOS position sensitive detectors
- ✓ Instantly adjustable 2θ-angle
- XTronic software for running the measurement and calculating residual stresses and retained austenite content (optional)
- d-sin<sup>2</sup>χ and Ω-measurement modes as a standard





Standard system	ltem 100041
Xstress G2 diffractometer	288600100F
X-ray tube Chromium (Cr)	288409020
<ul> <li>Short collimators Ø 1-5 mm spot size</li> <li>✓ 1 mm</li> <li>✓ 2 mm</li> <li>✓ 3 mm</li> <li>✓ 4 mm</li> <li>✓ 5 mm</li> </ul>	35006831640 35006831641 35006831642 35006831643 35006831644
G2 detector short	288500010
Detector arc 50 mm	35006831604C
Xstress main unit	288603000
Xstress alarm light	281000130

Software	Item
XTronic	100097
Cables	ltem
Power cable	270110250
LAN Ethernet cable	270120070
G2 accessories	ltem
Measuring accessories set	288490010

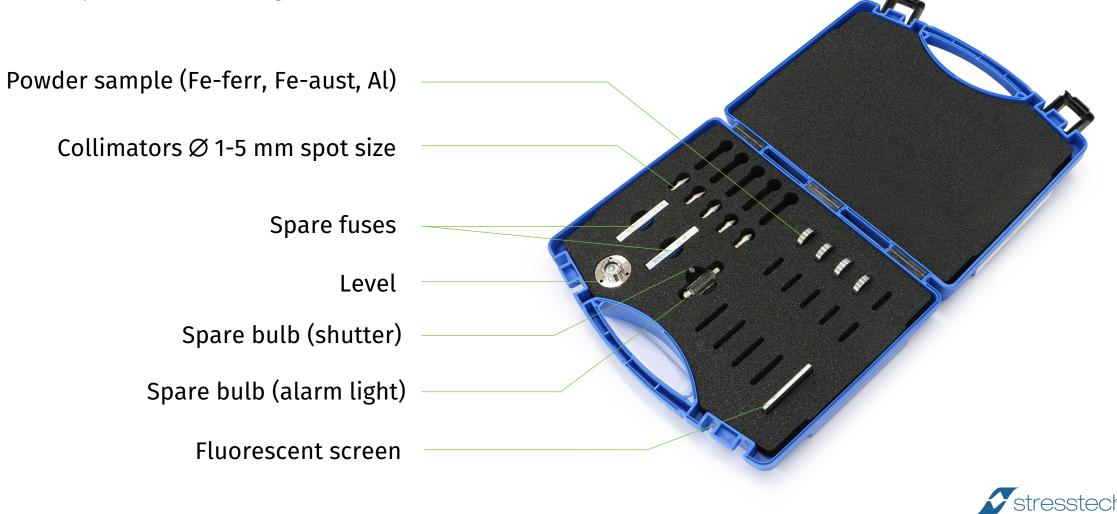
Transport packages	Item
Xstress G2 package	290404250
Xstress main unit package	290404100

288490005

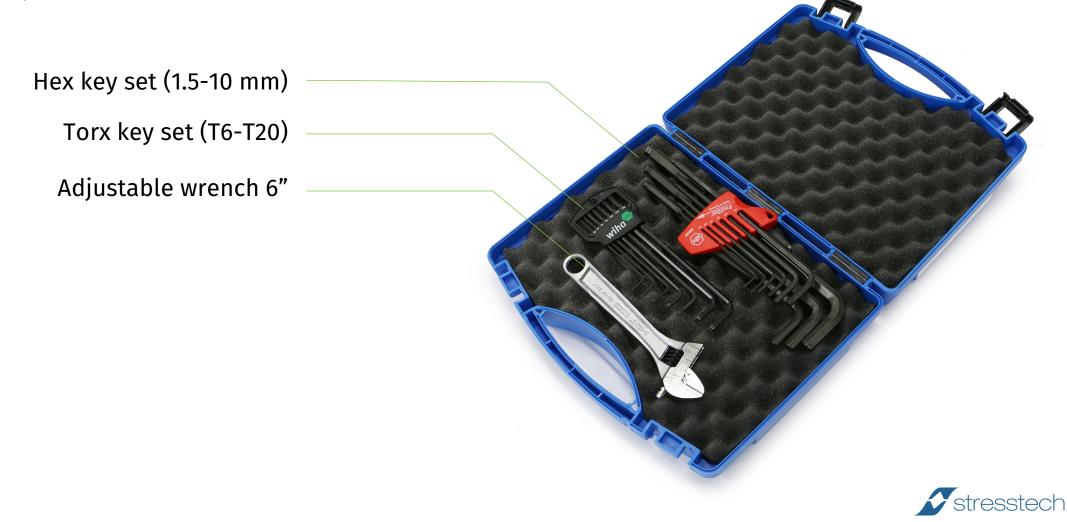
Tool set



Standard system includes - Measuring accessories set



Standard system includes - Tool set



#### Options

Xstress accessories	ltem
Safety enclosure	100069
Table for X-ray	100070
Safety wall	100161
Vertical column for table for X-ray	128500030
X-Y system: 200/300/400 mm stroke	100061/100062/100156
Floor stand (motorized)	100067, (100068)
X-ray elastic constant determination system, (HD 5 mm)	100059, (100137)
<ul> <li>Retained austenite measurement package:</li> <li>XTronic option</li> <li>Retained austenite detector arc 50 mm</li> <li>Vanadium filter short</li> </ul>	6010005302 35006831699 288500050
Customized special collimators	contact sales

Xstress accessories (Depth profile)	ltem
Electrolytic polisher Movipol 5	100092
Depth measuring stand, movable/ Depth measuring stand for table for X-ray	36907708050/ 36907555030B
Dial indicator: 12.5/25.0 mm	300130032/300201641
Release cable for dial indicator	300130033



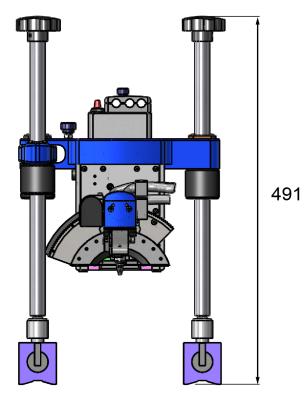
#### Options

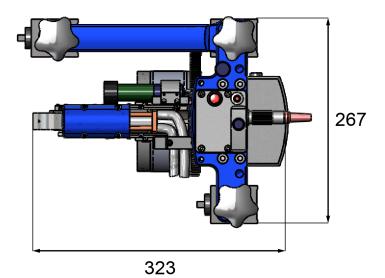
Xstress accessories (Tubes)	ltem
Chromium (Cr)	288409020
Cobalt (Co)	288409080
Copper (Cu)	288409040
Iron (Fe)	288409090
Manganese (Mn)	288409060
Molybdenum (Mo)	288409100
Nickel (Ni)	288409110
Titanium (Ti)	288409070
Vanadium (V)	288409120



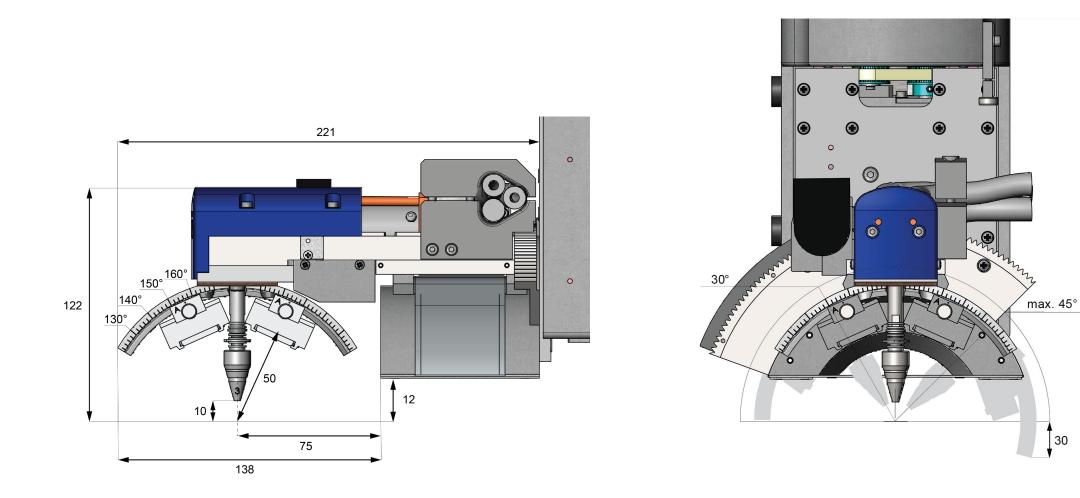


Dimensions		
Depth	323 mm	12.72 in
Width	267 mm	10.51 in
Height	491 mm	19.33 in
Weight	10 kg	22.1 lbs





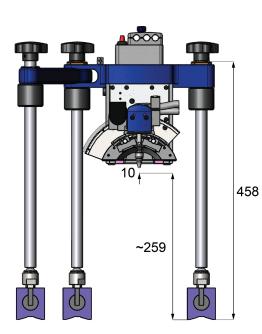


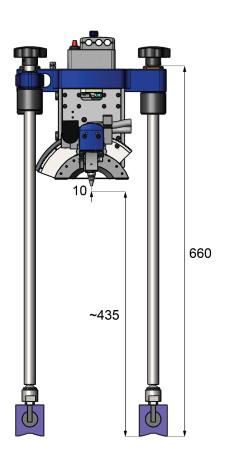






Technical specifications – diffractometer reach



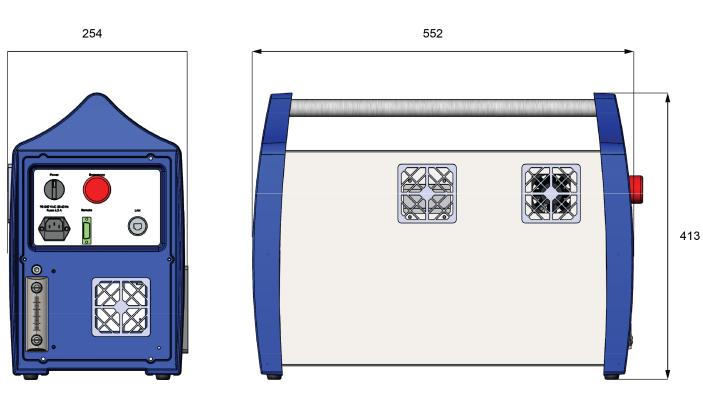


Standard legs

Extended legs 35006831198



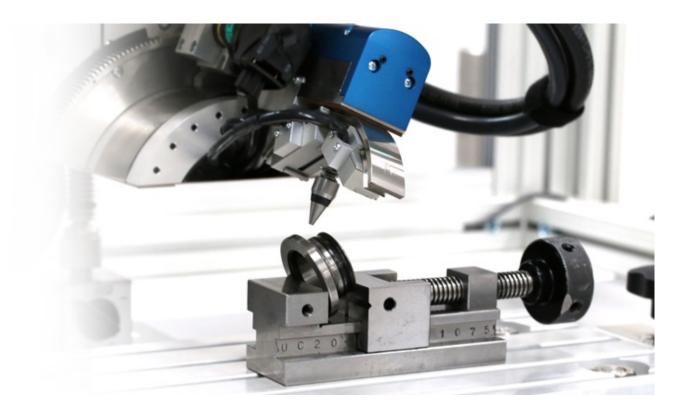
Xstress main unit dimensions		
Depth	552 mm	21.73 in
Width	254 mm	10.00 in
Height	413 mm	16.26 in
Weight	26 kg	57.3 lbs







Power demands	
Voltage	100-240 V AC,
	50-60 Hz





Xstress G2 package dimensions		
Depth	500 mm	19.68 in
Width	350 mm	13.78 in
Height	490 mm	19.29 in
Weight	28 kg	61.7 lbs

Xstress main unit package dimensions		
Depth	640 mm	25.19 in
Width	360 mm	14.17 in
Height	520 mm	20.47 in
Weight	37 kg	81.6 lbs





XTronic software takes care of the measurements with Xstress systems from running the measurement to calculating the residual stress or retained austenite values. Whether it's a a single measurement or mapping project, XTronic handles it.

