

# DIN 51220:2022-10 (E)

## Materials testing machines - General requirements, calibration and verification of materials testing machines

---

<b>Contents</b>		<b>Page</b>
<b>Foreword</b> .....		<b>3</b>
<b>1</b> <b>Scope</b> .....		<b>4</b>
<b>2</b> <b>Normative references</b> .....		<b>4</b>
<b>3</b> <b>Terms and definitions</b> .....		<b>6</b>
<b>4</b> <b>General requirements on materials testing machines</b> .....		<b>6</b>
4.1 <b>Testing requirements</b> .....		<b>6</b>
4.2 <b>Requirements on force measuring systems</b> .....		<b>6</b>
4.3 <b>Requirements on extensometers</b> .....		<b>6</b>
4.4 <b>Requirements on stationary hardness testing machines</b> .....		<b>7</b>
4.5 <b>Requirements on mobile hardness testing machines</b> .....		<b>7</b>
4.6 <b>Requirements on torque measuring systems</b> .....		<b>7</b>
4.7 <b>Requirements on notch bar impact testing devices and drop weight impact testing devices</b> .....		<b>7</b>
<b>5</b> <b>Safety requirements</b> .....		<b>7</b>
<b>6</b> <b>Verification and calibration of materials testing machines</b> .....		<b>7</b>
6.1 <b>General</b> .....		<b>7</b>
6.2 <b>Scope of verification and calibration</b> .....		<b>7</b>
6.3 <b>Frequency of verification and calibration</b> .....		<b>8</b>
6.4 <b>Calibration certificate</b> .....		<b>8</b>
<b>Annex A (informative) Overview of the national standards and supplements containing specifications on the requirements for and on the verification and calibration of materials testing machines</b> .....		<b>9</b>
<b>Bibliography</b> .....		<b>12</b>
<b>Tables Table A.1 -- Overview of relevant standards</b> .....		<b>9</b>