

SYNOPSIS OF INDIAN STANDARDS

Number and Title of the Indian Standard:	IS 17252 (Part 1) : 2019 ISO 15616-1 : 2003 Acceptance tests for CO ₂ -laser beam machines for high quality welding and cutting — Part 1: General principles, acceptance conditions
a. Scope:	<p>This Part of the Standard is applicable to CO₂-laser beam machines for welding and cutting in two operating directions (2D).</p> <p>The main purpose of this standard is to provide requirements for acceptance testing of CO₂-laser beam machines prior to or during installation at the user's premises. The acceptance tests are used to document the ability of CO₂-laser beam machines to produce welded joints and cuts of consistent quality.</p> <p>This standard is intended to be used for preparation of the technical specification for CO₂-laser beam machines for high quality welding and cutting in two operating directions (2D). This standard specifies basic requirements. Additional tests and requirements may be specified in the technical specification for the CO₂- laser beam machine.</p> <p>However, the standard may also be used for testing as part of maintenance, as appropriate.</p> <p>If modifications are made to a CO₂-laser beam machine (rebuilding, repairs, modifications to the operating conditions etc.) that may have an effect on the acceptance testing, repeat test may be necessary covering the machine parameters affected by such modifications.</p> <p>If a CO₂-laser beam machine that has already been accepted is dismantled (e.g. in order to change its location) such tests may involve verification according to the requirements in 6.4 as a minimum.</p>
b. Salient features of content:	<p>The standard comprises of :</p> <ul style="list-style-type: none">- Terms, definitions and symbols- Acceptance test conditions- Acceptance test principles- Acceptance test