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AMENDMENT 1
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Harvesting equipment — Blades for agricultural rotary mowers — Requirements

AMENDMENT 1

Matériel de récolte — Lames pour faucheuses rotatives agricoles — Prescriptions

AMENDEMENT 1

Reference number
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This document was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 7, *Equipment for harvesting and conservation*.

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Harvesting equipment — Blades for agricultural rotary mowers — Requirements

AMENDMENT 1

4.2.2.1

Replace the present text and note by the following:

4.2.2.1.1 This test is applicable for all types of blades as follows.

4.2.2.1.2 For blades made of homogenous material, it is only necessary for one blade out of each heat of steel independent of its geometry. For this purpose, the test of a reference blade is considered as sufficient.

NOTE Typically, heats are over 50 tons with many mills running heats about 300 tons.

4.2.2.1.3 For blades made of non-homogenous material and/or non-homogenous metallurgic properties and/or which are only partly heat-treated, it is required for one blade out of each production lot.

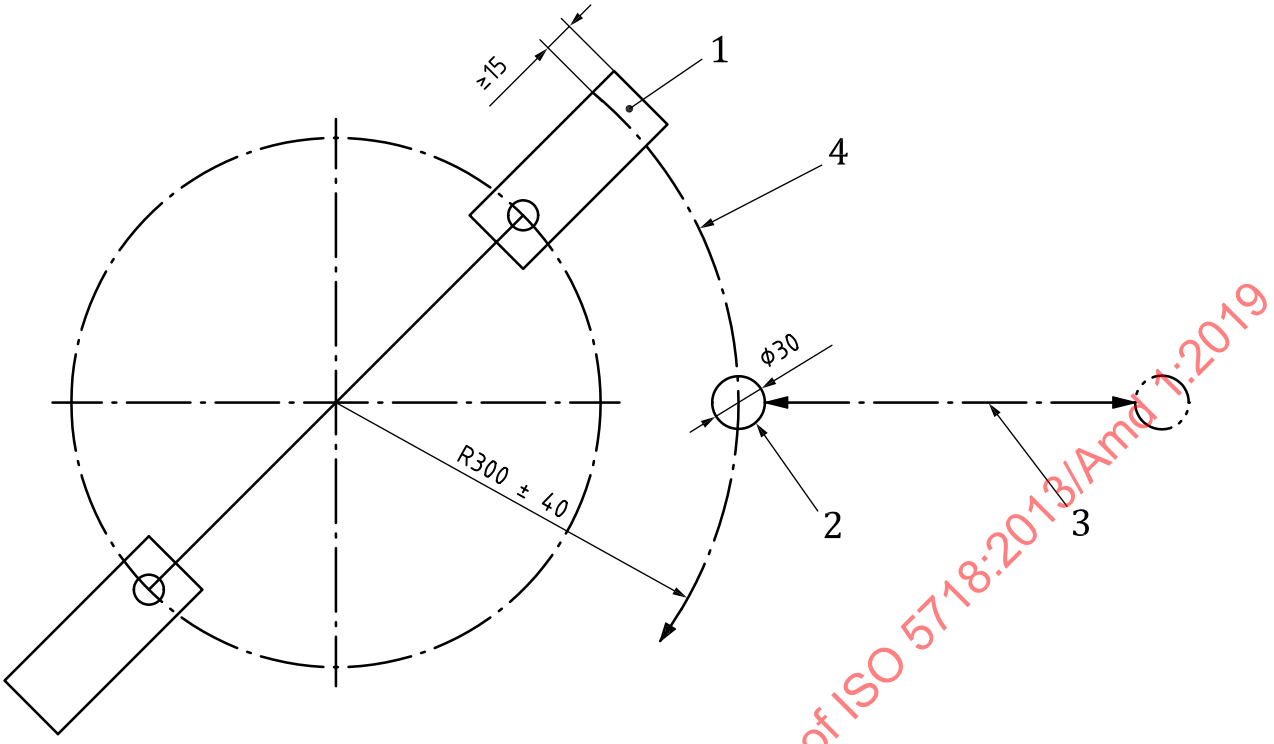
4.2.2.2

In the first paragraph replace the present text by the following:

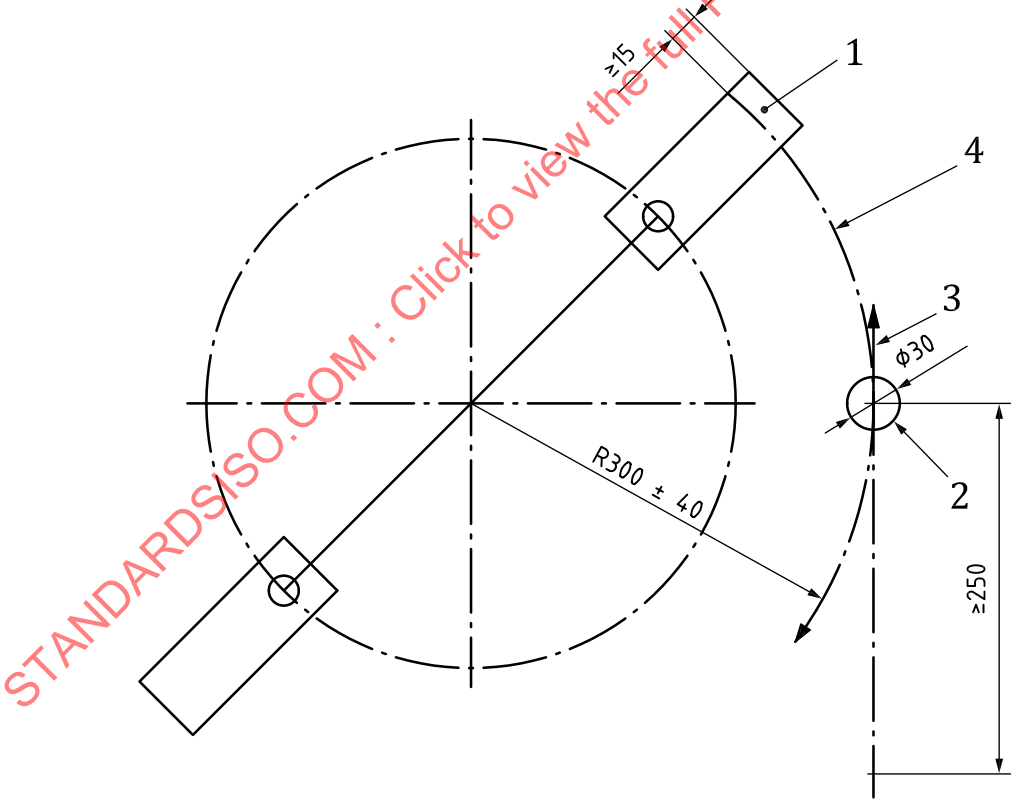
All blades selected for impact testing shall be tested on a test fixture as shown in Figure 4.

Figure 4

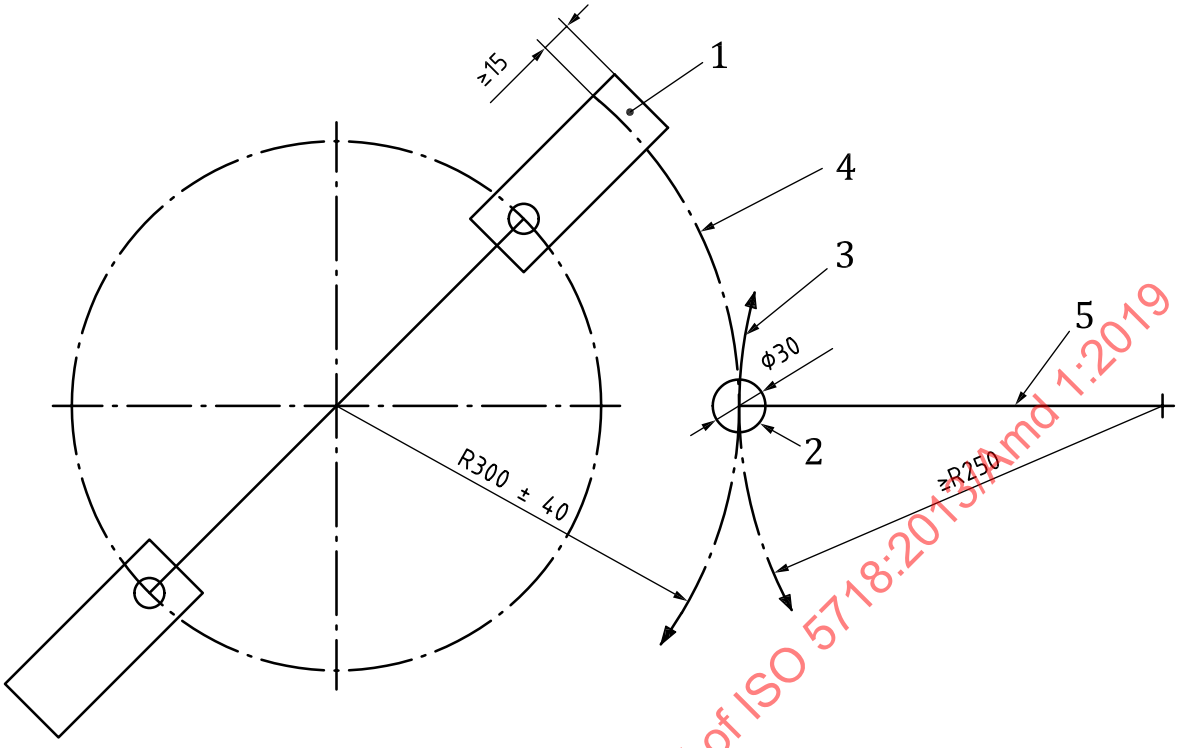
Replace Figures 4 a), b), c) and d) by the following:



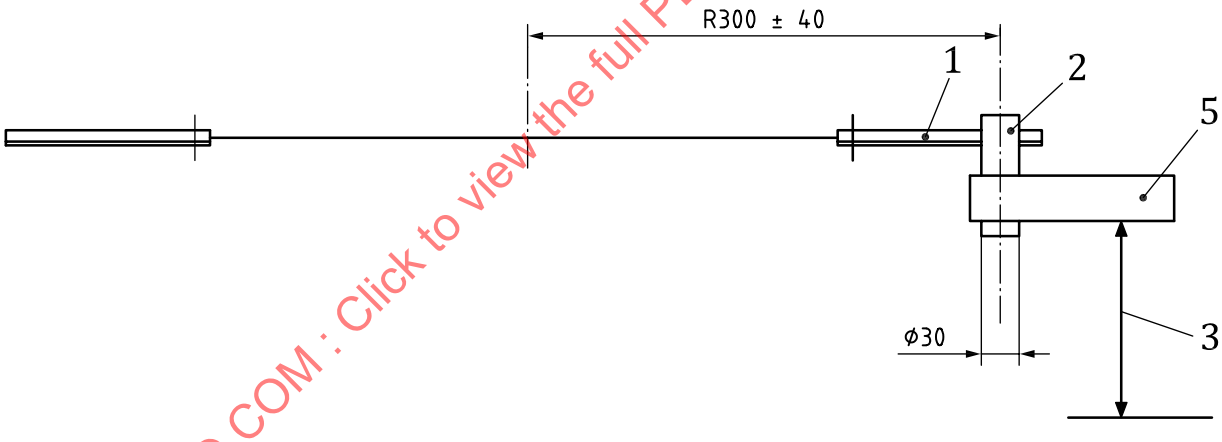
a) Steel rod insertion on a straight line perpendicular into the path of the blade



b) Steel rod insertion on a straight line tangential into the path of the blade



c) Steel rod insertion on a circular line into the path of the blade



d) Steel rod insertion on a straight line from below into the path of the blade

4.2.2.3.1

Replace the present text of the first paragraph by the following:

4.2.2.3.1 The blade shall be fixed into the test fixture as it is fixed on the disc or drum. The test fixture with the blade shall be rotated with a rotating speed of minimum 90 m/s measured at the outer blade tip circle. When at specified rotating speed, insert a steel rod with a diameter of 30 mm having a tensile strength R_m between 490 N/mm^2 and 550 N/mm^2 into the path of the rotating blade as follows (see Figure 4):

Replace the fifth list item by the following:

— The dwell period of the steel rod shall be a minimum of 1 s with a minimum number of 29 calculated impacts. Afterwards, the steel rod shall be removed from blade path.

4.2.2.3.2

Replace the present text by the following:

4.2.2.3.2 For blades made of homogenous material and having two cutting edges, the test of one cutting edge is sufficient.

4.2.2.3.3

Replace the text of the present 4.2.2.3.4 with the following and renumber the subsequent subclauses.

4.2.2.3.3 For blades made of non-homogenous material and/or non-homogenous metallurgic properties and/or which are only partly heat-treated and having two cutting edges, both cutting edges shall be tested on different test samples.

4.2.2.3.4

Delete the present text of 4.2.2.3.4.

4.2.2.4.1

Replace the present text by the following:

4.2.2.4.1 After the test, the blade may show deformation but shall not show any breakage. Chipping of the blade cutting edge shall not be deemed test failure.

4.2.2.4.2

Replace the present text by the following:

4.2.2.4.2 The loss of mass at each side tested shall be not more than 5 % of the total initial mass of the blade.