Hole Spacing for Scraper and Dozer Cutting Edges—SAE J737 MAY83

SAE Standard
Completely Revised May 1983

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SAE Standard

Report of the Construction and Industrial Machinery Technical Committee, approved May 1958, completely revised by the Off-Road Machinery Technical Committee May 1983. Rationale statement available.

1. Purpose—This standard specifies hole placement along with length and width of the cutting edge.

2. Scope—This standard is intended for cutting edge sections used on:

(1) Tractor-scrapers as described in SAE J1057 and J728.

(2) Dozers as described in SAE J173. These cutting edges are further defined in SAE J738 for cross section and SAE J740 for hole conformation.

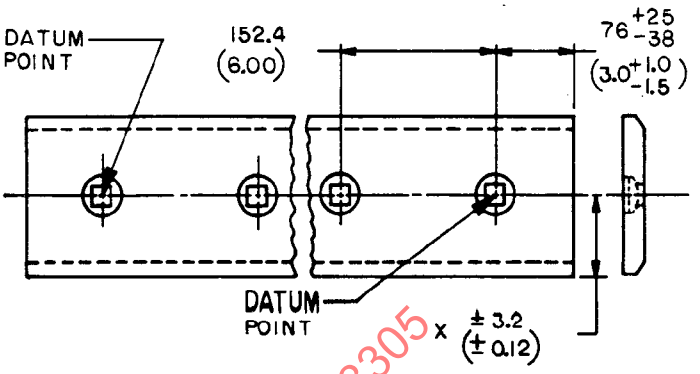
NOTE: Some inch dimensions in this standard are not equivalent to the corresponding millimeter figures because values which are widely used have been adapted.

3. Tolerances and Dimensions for Hole Locations

3.1 Each countersink and/or counterbore shall be located within a 3.2 mm (0.12 in) diameter true position circle, using both end holes as datum points to establish the datum line.

3.2 The end hole datum points which are located from one side of cutting edge (dimension "X" as required) shall be within ±3.2 mm (±0.12 in).

3.3 Longitudinal hole spacing shall be 152.4 mm (6.00 in). The first hole shall be located 76, +25, −38 mm) (3.0, +1.0, −1.5 in) from the end of the cutting edge. Number of rows of holes is optional for scraper applications only.



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