

SAE International®

**SURFACE
VEHICLE
RECOMMENDED
PRACTICE**

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Cutting Edge - Cross Sections Loader Straight with Bolt Holes

RATIONALE

The technical report covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

STABILIZED NOTICE

This document has been declared "Stabilized" by the SAE MTC1, Loaders, Crawlers, Scrapers and Mounted Attachments Committee and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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1. **Scope**—For cutting edges used on buckets for loaders defined in SAE J1057a. The dimensions are applicable to rolled and machined sections only. Cutting edge cross section thickness is limited to a maximum of 35 mm. Bolt-on tooth adapters are rarely used on loader buckets with cutting edge thicknesses in excess of 35 mm. This recommended practice applies only to straight cutting edges defined as those whose leading edge and rear edge are parallel and thus are of constant cross section. Overall cross sections to which bolt holes were added as indicated by this recommended practice were selected from those indicated per "Cutting Edge—Cross Sections Loader Straight," SAE J1303 FEB85. Selection was based on minimum section width requirements to accommodate bolt-on tooth adapters.

NOTE—For some heavy-duty applications, cross sections with larger blunts, greater bevel angles, and larger bolt holes may be required.

- 1.1 **Purpose**—To specify dimensions for straight cutting edge cross sections with bolt holes for mounting bolt-on tooth adapters on loader buckets described by SAE J731d. It is the intent of this recommended practice to describe the cross sections viable for bolt-on tooth mounting and identify the bolt hole size and location relative to the cutting edge cross section. Thus, a foundation for future standardization of bolt-on tooth adapters is established by the recommended practice.
- 1.2 **Rationale**—This document has been reaffirmed to comply with the SAE 5-Year Review policy.

2. References

- 2.1 **Applicable Publications**—The following publications form a part of the specification to the extent specified herein. Unless otherwise indicated the latest revision of SAE publications shall apply

- 2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

SAE J731d—Component Nomenclature—Loader

SAE J1057a—Identification Terminology of Earthmoving Machines

SAE J1303 FEB85—Cutting Edge—Cross Sections Loader Straight

3. **Dimensions and Tolerances**—See Figure 1 and Table 1 for recommended specifications.