

Sup. Supplement 1 - March 1978
Reconfirmed (TAS Oct 1982)
AS 2133-1978
UDC 622.676-595:621.86.061
Under revision see OR 83 DUP 1989
WITHDRAWN TAS MARCH 1989

Australian Standard 2133-1978

Standard
Withdrawn

MINE DETACHING HOOKS



STANDARDS ASSOCIATION OF AUSTRALIA

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia
Australasian Institute of Mining and Metallurgy
Australian Mining Industry Council
Broken Hill Mining Managers Association
Bureau of Steel Manufacturers of Australia
Chamber of Mines of Western Australia Incorporated
Department of Minerals and Energy, Victoria
Departments of Mines
Institute of Materials Handling
Institution of Engineers, Australia
Joint Coal Board
N.S.W. Combined Colliery Proprietors Association
Queensland Coal Board
Queensland Coal Owners Association
University of New South Wales

This standard, prepared by Committee ME/18, Mining Equipment, was approved on behalf of the Council of the Standards Association on 1 November 1977, and was published on 1 April 1978.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 77008.

Sup.
DUPERSEDED BY

AS
AS

3637.1-1989 and
3637.2-1989

Supp. No 1 (March 1978) to AS 2133-1978

WITHDRAWN

TAS DECEMBER 1989

Supplement No 1 (March 1978) to AS 2133-1978

MINE DETACHING HOOKS INSPECTION AND MAINTENANCE



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a.

PREFACE

This Supplement to AS 2133—1978 provides recommended rules for the inspection and maintenance of mine detaching hooks. It is intended to supplement both AS 2133 itself and any requirements for the inspection and maintenance of mine detaching hooks that may be set down in mining regulations.

This Supplement makes reference to the following standard:

AS 1171 Methods for Magnetic Particle Testing of Ferromagnetic Products and Components

First published 1978

Published on 1 April 1978.

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STANDARDS ASSOCIATION OF AUSTRALIA
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Supplement No 1 to AS 2133—1978
MINE DETACHING HOOKS

INSPECTION AND MAINTENANCE OF MINE
DETACHING HOOKS

1 INSPECTION. Mine detaching hooks should be subjected to a close examination every 6 months, a field examination at monthly intervals between close examinations, and daily visual examinations. If a detaching hook is subjected to an overwind or accident, the hook assembly should be immediately replaced and inspected as for the case of overwinding (or accident) according to paragraph (d) below. These inspections are as follows:

- (a) *Daily examination*—the detaching hook should be visually inspected for obvious defects and any shearing action on the shear pin.
- (b) *Field examination*—the detaching hook should be cleaned and visually inspected for flaws, cracks, wear and deterioration.
- (c) *Close examination*—the detaching hook should be removed from service, dismantled, cleaned and all loaded components tested for longitudinal and transverse surface defects in accordance with AS 1171.* Components so tested should comply with the requirements of Clause 7.3.3 of AS 2133.

A load-bearing hinge pin should be replaced when wear has reduced the diameter by 5 percent of the original diameter. Load-bearing plates should be replaced when wear exceeds 10 percent of the original radius of the inner hook surface and should not be bushed. Other holes should be bushed where necessary to reduce tolerances to limits prescribed in AS 2133.

- (d) *Overwinding (or accident)*—the detaching hook should be removed from service, dismantled, cleaned and all loaded components tested for longitudinal and transverse surface defects in accordance with AS 1171.* Components so tested should comply with the requirements of Clause 7.3.3 of AS 2133. Load-bearing plates should be checked for permanent elongation and removed from service if elongation is detected. The components should be normalized, or normalized and tempered, or quenched and tempered, and the assembly proof tested in accordance with Clause 7.4 of AS 2133 before being returned to service.

2 MAINTENANCE. Replacement parts for detaching hooks should be of the same material as required for the original part. Where any load-bearing

*AS 1171. Methods for Magnetic Particle Testing of Ferromagnetic Products and Components.