International Standard 7891

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION•МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ•ORGANISATION INTERNATIONALE DE NORMALISATION

Earth-moving machinery — Dozer end bits — Hole specification

Engins de terrassement — Bords extrêmes de lame — Spécifications des trous

First edition — 1984-04-15

UDC 621.879.33 : 621.882.15 **Ref. No. ISO 7891-1984 (E)**

Descriptors : earth handling equipment, blades, holes, positioning, specifications, interchangeability.

Price based on 7 pages

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 7891 was developed by Technical Committee ISO/TC 127, *Earth-moving machinery*, and was circulated to the member bodies in March 1983.

It has been approved by the member bodies of the following countries :

Australia	Czechoslovakia	Sweden
Austria	Germany, F. R.	United Kingdom
Belgium	Italy	USA
Bulgaria	Japan	USSR
Canada	Romania	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Brazil
Poland

Printed in Switzerland

Earth-moving machinery — Dozer end bits — Hole specification

1 Scope and field of application

This International Standard specifies the minimum requirements for the mounting bolt hole location and the shapes and dimensions of holes for mounting bolts in dozer end bits of earth-moving machinery, taking into consideration the interchangeability.

This International Standard applies to straight blades, angle blades, U-blades, and semi-U-blades.

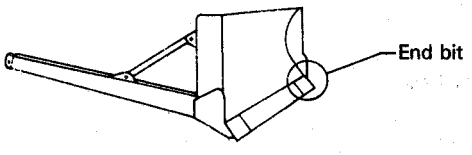
2 References

ISO 6747, *Earth-moving machinery — Tractors — Terminology.*

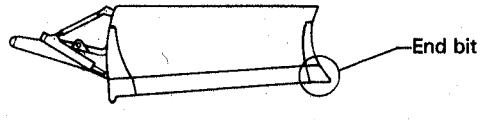
ISO 7129, *Earth-moving machinery — Tractors with dozer, graders, tractor scrapers — Cutting edges — Principal shapes and basic dimensions.*

3 Definition

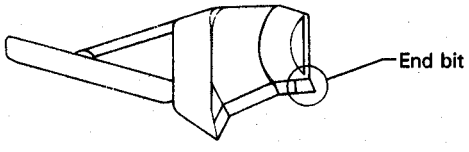
end bit : Bit at both sides of the cutting edge of dozer blade (see figure 1).



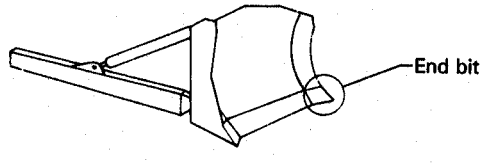
Straight blade



Angle blade



U-blade



Semi-U-blade

Figure 1 — End bits

4 Hole location in end bits

4.1 The hole location in dozer end bits shall be as shown in figures 2, 3 and 4.

4.2 Each hole countersink shall be located within 3,2 mm diameter of the true position circle.

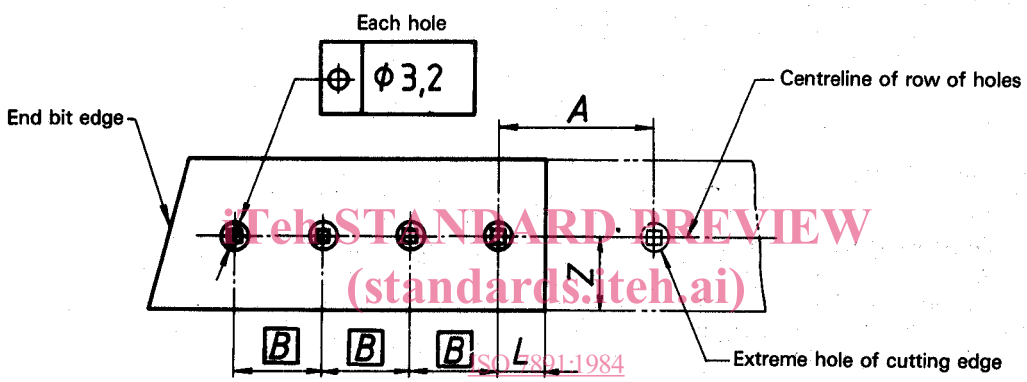
4.3 Remarks concerning figures 2, 3 and 4 :

a) each illustration shows a right-hand end bit, but does not specify the shape of the end bit;

b) different shapes of end bit may be used to fit the types of blade (straight blade, semi-U-blade, etc.);

c) this International Standard gives both integral and fractional dimensions, because dimensions widely used at present have been adopted.

Dimensions in millimetres

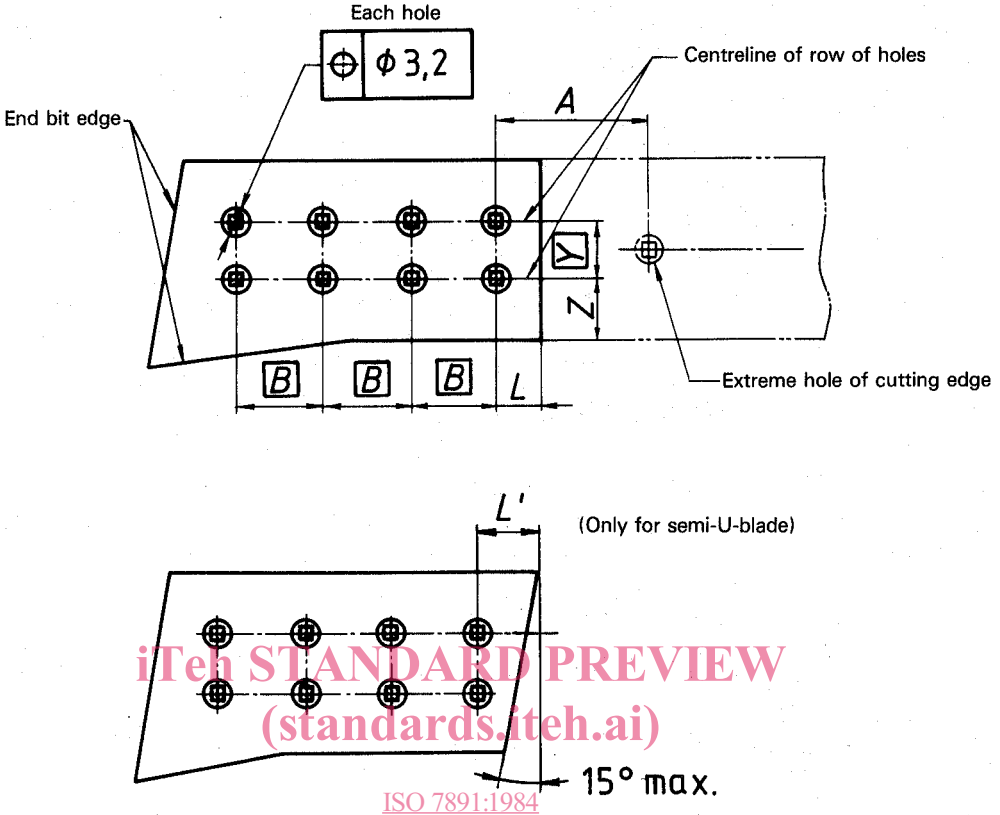


Reference dimension *A*	*B*	*Z* min.	*L*
127	70	75	$50{,}8\,^{0}_{-3}$
	85		
	101,6		

NOTE — Where appropriate the outer hole may be omitted.

Figure 2 — Single row of holes

Dimensions in millimetres

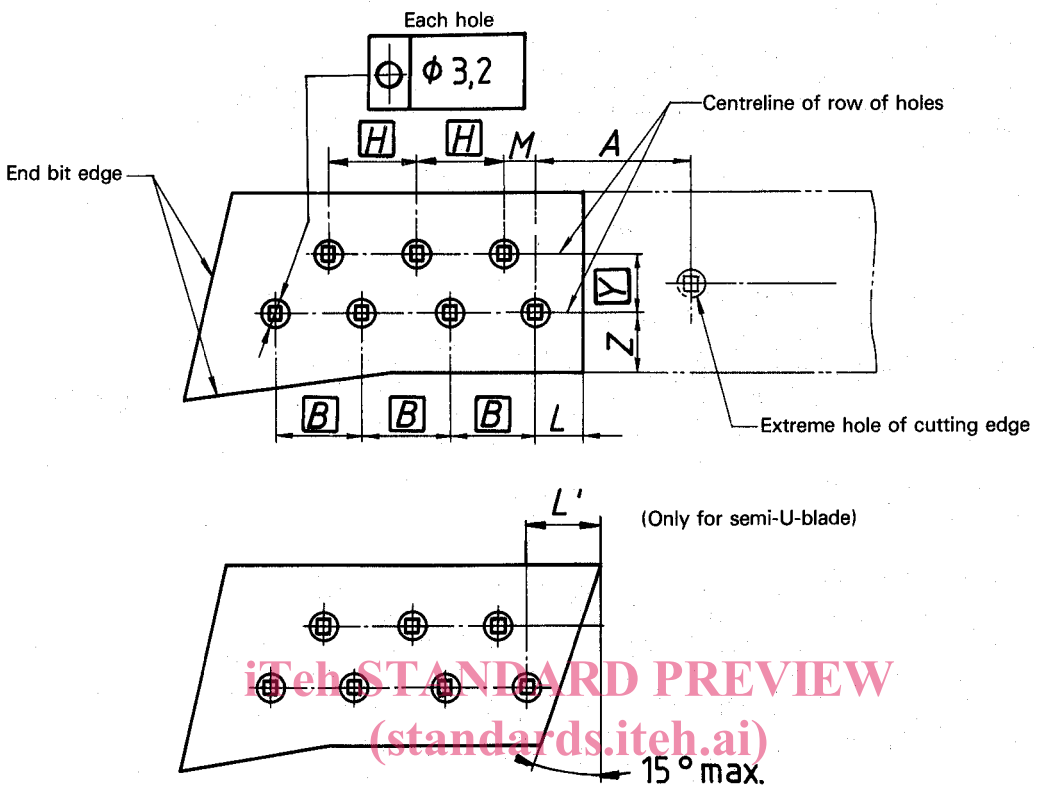


Reference dimension *A*	*B*	*Z* min.	*Y*	*L*	*L'*
127	70	50	40	$50{,}8_{-3}^{0}$	$63{,}5_{-3}^{0}$
	101,6		63,5		

NOTE — Where appropriate the outer holes may be omitted.

Figure 3 — Double row of holes — In-line location

Dimensions in millimetres



Reference dimension *A*	*B*	*H*	*Z* min.	*Y*	*L*	*L'*	*M*
152,4	70		50	75	$76{,}2_{-3}^{0}$	$88{,}9_{-3}^{0}$	35
	76,2	101,6		82,6			0
	85			45			42,5
	101,6			92,1			50,8
	105	85		80			0

NOTE — Where appropriate the outer holes may be omitted.

Figure 4 — Double row of holes — Stagger location

5 Mounting bolt hole

See ISO 7129 for the shapes and dimensions of the mounting bolt holes.

Annex

Hole specification in dozer end bits for application to cutting edges with a 140 mm hole pitch

A.1 Field of application

This annex is applicable to the dozer end bits used together with the cutting edges with a 140 mm mounting bolt hole pitch.

A.2 Hole location in end bits

A.2.1 The hole location in dozer end bits shall be as shown in figures 5, 6 and 7.

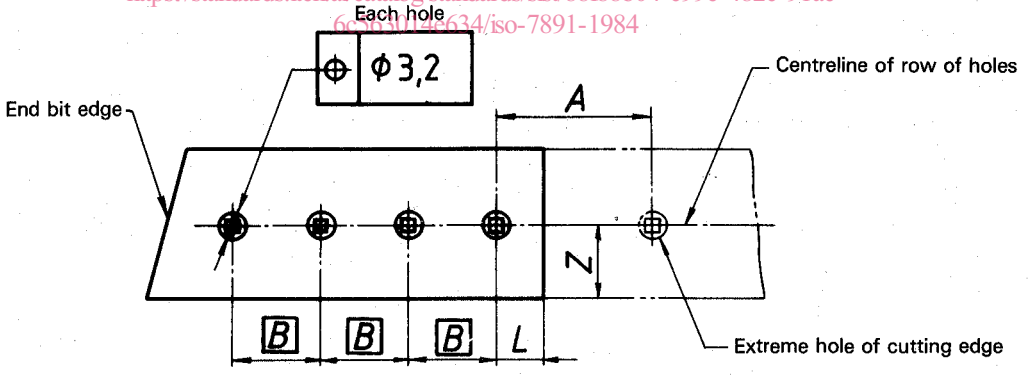
A.2.2 Each hole countersink shall be located within 3,2 mm diameter of the true position circle.

A.2.3 Remarks concerning figures 5, 6 and 7 :

a) Each illustration shows a right-hand end bit, but does not specify the shape of the end bit.

b) Different shapes of end bit may be used to fit the types of blade (straight blade, semi-U-blade, etc.)

Dimensions in millimetres

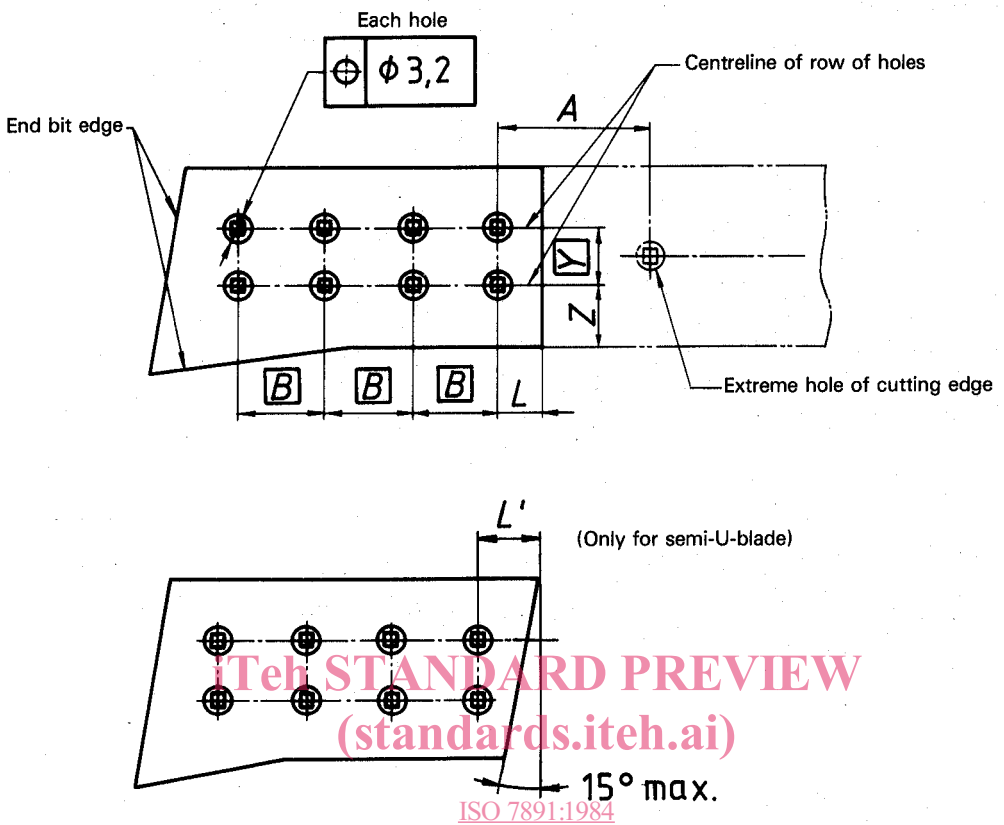


A	*B*	*Z* min.	*L*
140	70	75	70_{-3}^{0}
	140		

NOTE — Where appropriate the outer hole may be omitted.

Figure 5 — Single row of holes

Dimensions in millimetres



Reference dimension *A*	*B*	*Z* min.	*Y*	*L*	*L'*
140	70	50	70	70_{-5}^{0}	$88{,}9_{-5}^{0}$
			80		
			100		
	140		70		
			80		
			100		

NOTE — Where appropriate the outer holes may be omitted.

Figure 6 — Double row of holes — In-line location