
International Standard



7740

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Instruments for surgery — Scalpels with detachable blades — Fitting dimensions

Instruments chirurgicaux — Bistouris à lames détachables — Dimensions d'assemblage

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Foreword

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International Standard ISO 7740 was prepared by Technical Committee ISO/TC 170, *Surgical instruments*.

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Instruments for surgery – Scalpels with detachable blades – Fitting dimensions

0 Introduction

This International Standard has been prepared to meet the need for good fitting and interchangeability of detachable blades for scalpels.

Scalpel blades and handles currently in use are manufactured with fitting dimensions that do not always ensure a satisfactory fit between blades and handles manufactured in different countries or by different manufacturers. A transitional period during which the fitting dimensions specified in this International Standard may be gradually adopted should last for five years and ends therefore on 31 December 1990.

1 Scope and field of application

This International Standard lays down the dimensions of two sizes of fitting features for detachable scalpel blades and the handles with which they are used.

2 Fitting dimensions for blades and handles

2.1 Small fitting feature (No. 3)

The fitting dimensions for blades and handles with a small fitting feature shall be in accordance with table 1 and figures 1 and 2.

Table 1

Dimensions in millimetres

	Fitting dimensions									
	α	c		d		e		f		l
	$\pm 0,5^\circ$	min.	max.	min.	max.	min.	max.	min.	max.	min.
Blade	30°	4,50	4,65	17,83	17,90	2,43	2,48	1,18	1,23	—
Handle	30°	4,40	4,50	17,73	17,81	2,31	2,41	1,12	1,17	9

2.2 Large fitting feature (No. 4)

The fitting dimensions for blades and handles with a large fitting feature shall be in accordance with table 2 and figures 1 and 2.

Table 2

Dimensions in millimetres

	Fitting dimensions									
	α	c		d		e		f		l
	$\pm 0,5^\circ$	min.	max.	min.	max.	min.	max.	min.	max.	min.
Blade	35°	7,50	7,65	24,20	24,27	3,72	3,77	1,95	2,00	—
Handle	35°	7,40	7,50	24,10	24,18	3,60	3,70	1,88	1,93	13

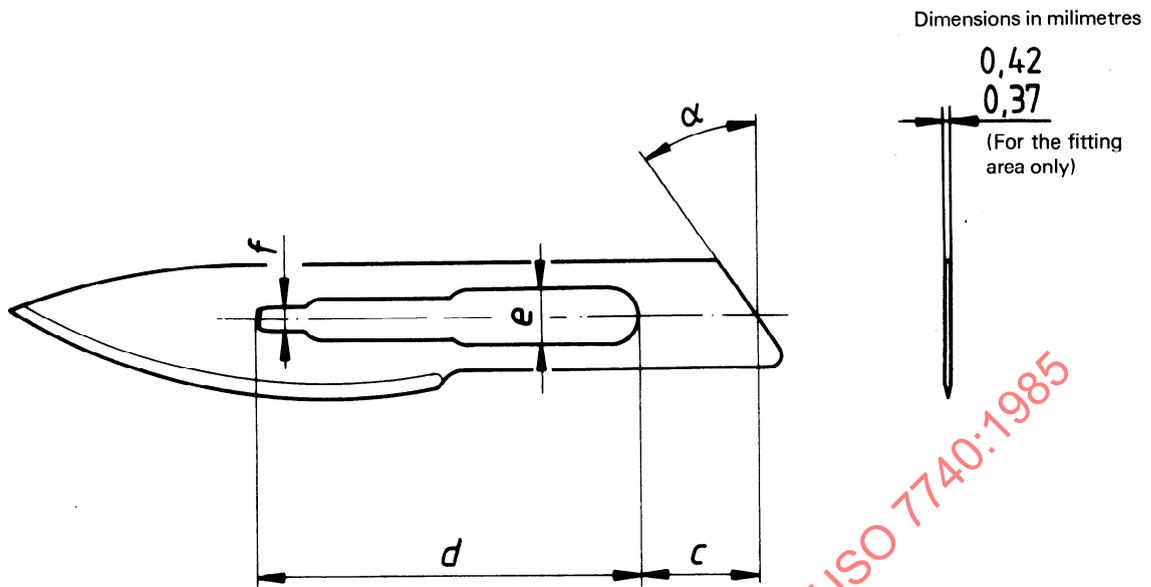


Figure 1 — Detachable blade

NOTE — The design of the blade is intended to be illustrative but does not otherwise form part of the requirements laid down in this International Standard.

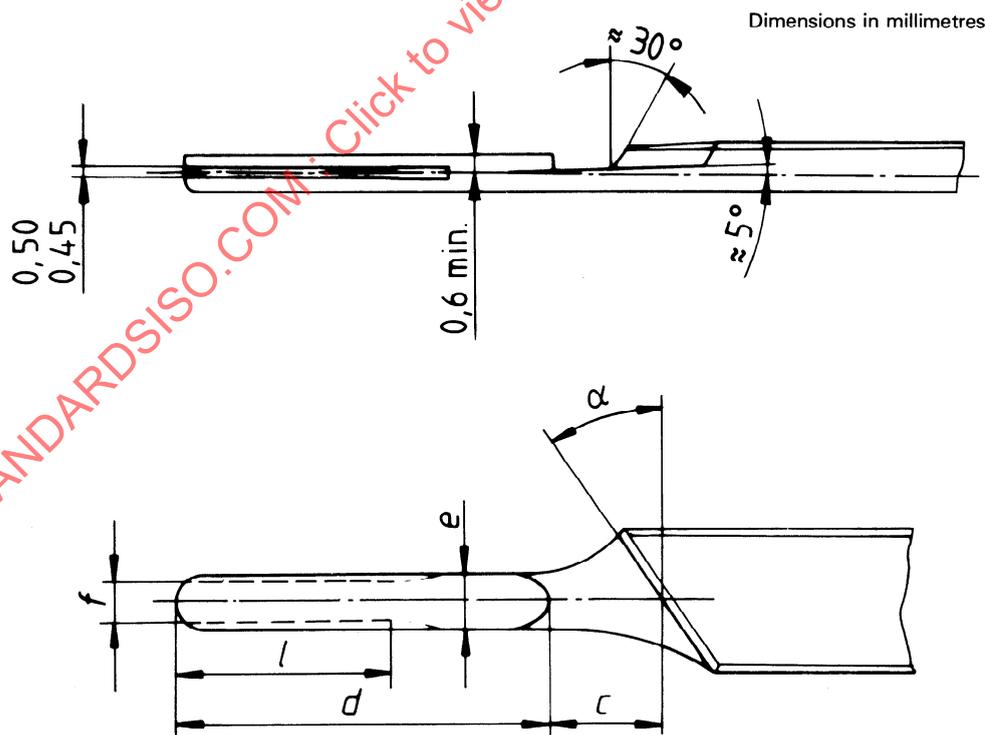


Figure 2 — Scalpel handle

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