INTERNATIONAL STANDARD



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

Shipbuilding — Cargo gear particulars book

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Descriptors: shipbuilding, handling equipment, hoists, records, printed forms, symbols

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SO 2333-1972 (E

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 2333 was drawn up by Technical Committee ISO/TC 8. Shipbuilding.

It was approved in March 1972 by the Member Bodies of the following countries:

Austria India Norway3:1972

Belgium Inelandstandards.iteh.ai/catalo@olandards/sist/8e48bb8c-8705-4b4d-a548-

Czechoslovakia Israel 2d5220Romaniaso-2333-1972

Egypt, Arab Rep. of Italy Spain
Finland Japan Thailand
France Netherlands Turkey

Germany New Zealand United Kingdom

No Member Body expressed disapproval of the document.

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Shipbuilding — Cargo gear particulars book

0 INTRODUCTION

This International Standard is intended to be complementary to, and used with, a register of the cargo handling machinery and gear based on the International Labour Office (ILO) Form No. 1. This ILO document was communicated to the governments of States Members of ILO in pursuance of the decision of the Governing Body at its 135th Session.

1 SCOPE AND FIELD OF APPLICATION

This International Standard gives, by means of cargo gear forms, the minimum information necessary to enable the rigs to be properly assembled and to permit ordering of spare components when needed.

Standards.

2 GENERAL NOTES ON THE FORMS

Whereas the ILO type forms are primarily concerned with sist the continuous recording of the various inspections lando-23 tests carried out on the cargo gear, this International Standard provides the minimum information as described under section 1.

A number of forms contain spaces, for the insertion of plans and diagrams: in particular, forms 6 and 7. Where a rig is particularly complicated, or where a derrick or crane can be rigged in more than one way, it is preferable to use more than one sheet to show all details, rather than attempt to compress too much into one diagram.

It is strongly recommended that all interchangeable items should be allocated the same "position mark" (see footnote to form 7). This will enable the test certificates for such items to be marked "suitable for all positions . . . as shown in the particulars book" (or with words of similar meaning), thereby facilitating interchangeability of items.

The position marks may be numbers, letters or a combination, as desired. They may be consecutively allocated or, alternatively, arranged such that all components of similar general type, for example wire ropes or shackles, commence with the same number or letter. It is recommended that in all cases the mark should consist of three characters.

If the key plans (forms 3 to 8) are sufficiently comprehensive, and show the details of all items, then summaries of components (forms 9 to 12, inclusive) may be omitted from the actual particulars book.

3 NOTES ON PARTICULAR FORMS

3.1 Form 1 - Cover sheet of cargo gear particulars book

A space is provided for a Plan No. and Sheet No. to be written in, since shipyards may wish to use this document (Particulars Book) as a substitute for the more traditional rigging plan.

3.2 Form 2 - Lists of symbols and abbreviations

A list of symbols is shown for the convenience of the user. Additional symbols may be added by the shipyard, and subsequently by the shipowner, as the need arises on any particular ship.

ISO 2333:1972 3.3 Form 3 - Summary of masts and derrick posts

Mast scantlings may be added to the remarks column if required. A column has not been included for these data since in many countries masts are not legally regarded as part of the cargo gear.

The order of numbering of the centreline derricks is not stated in this International Standard. However, users may often find it appropriate to adopt an order following on from that of the port and starboard derricks, in which case the derrick marking system will be in agreement with that generally used for numbering ship's lifeboats.

3.4 Form 5 - Summary of derrick booms

The form does not include a column for SWL (Safe Working Load), since any particular design of boom may have varying SWL's depending on the lengths of the masts to which it is rigged. The maximum boom thrust, however, will be determined by the boom's scantlings and the layout of its span and runner eyeplates.

3.5 Form 6 - Key plan of cranes

It is recommended that a profile view be included in the diagram space.

3.6 Form 7 - Key plan of forces

For the proper assembling of the rigs a diagram of forces is essential.

3.7 Form 8 - Key plan of position marks

It is recommended that where more than one method of rigging is proposed for any given derrick, then each rig, with its key plan of forces, should be shown on a separate copy of the form.

3.8 Form 9 - Union purchase

The diagrams should be kept large for reasons of clarity. It is suggested that any critical dimensions should be marked on the plan.

3.9 Form 10 - Summary of pulley blocks

The sheave diameter is given to "bottom of groove" and not to the outside of the sheave. A common practice of the past in shipping has been to use sheave outside diameter on derricks but the bottom of groove diameter on cranes and on engineering pullies. In the interests of standardization over the widest field, and because the bottom of groove diameter is the critical one from technical considerations, it is recommended that the diameter of all pulley block sheaves be quoted "bottom of groove".

4 CARGO GEAR PARTICULARS BOOK

The thirteen standardized cargo gear forms which form the cargo gear particulars book are given hereafter.

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Port of registry	Ship's owner or manager	L	
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CARGO GEAR PARTICULARS BOOK

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				Di - Ni-			
Cargo gear particu	ılars			Plan No.			
Shipbuilder and yard		Yard No. o		Total No. of sheets Sheet No.			

Ship's name										
,	List of symbols (For use on keyplans)									
	Chain		Rope (wire or fibre)	XXX	Clips or catches					
	Rigging screw	×	Swivel	a.	Ring					
٩	Shackle	ρ	Oval and other eye or closed socket	Y	Clevis eye or open socket					
∇	Triangle plate	ß	"C" hook	ᆓ	Double ended fork					
_ _ _	Eye plate (fixed)	Ø	Block without becket *	\perp	Ramshorn hook					
<u> </u>	Eye plate (swivelling)	₩	Block with becket *		Unpowered winch					
	Gooseneck assembly	\forall	Triangular lifting eye		Powered winch					
	Crane * Numl	per of cros	s lines indicates number of	sheaves	-					

List of abbreviations (For use in tables)

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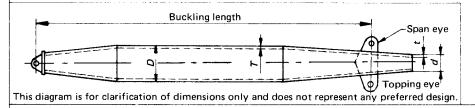
Cargo gear particulars		Plan No.	
Shipbuilder and yard	Yard No. of ship	Total No. of sheets Sheet No.	

Ship's name						
	Ke	y plan of masts,	, derrick post	s and derrick boo	oms	
						>
This diagram does	not represent any pre	eferred design.				
		Summary o	of masts and	derrick posts		
Mast or derrick post identification letter		Height of span eye above gooseneck or trunnion (mm)	Tensile strength of material		Remarks	
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		be identified by num 5. For union purchas			at bow of ship and on starboa	ara side.
Cargo gear pa	rticulars				Plan No.	
Shipbuilder and y				Yard No. of ship	Total No. of sheets	
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Ship's nam	ne						
			Key pla	n of shrouds	and stays		
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This diagram o	does not repres	sent any preferred	d design.				
			Summa	ry of shroud	s and stays		
Shroud or stay identification mark	Length of shroud or stay (mm)	Construction (i.e. tube, solid bar,6 × 7 rope etc.)	Diameter or equivalent dimension (mm)	Maximum ser- vice working tension (calcu- lated : kN)		Remarks	
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	particular	S				Plan No.	
Shipbuilder a	nd yard				Yard No. of ship	Total No. of sheets Sheet No.	

Ship's name

Key plan of derrick boom dimensions



Summary of derrick booms

Derrick boom iden- tification numbers	Maximum working thrust (kN)	Buckling length (mm)	Diameter at centre D (mm)	Thickness at centre T (mm)	Diameter at end d (mm)	Thickness at end t (mm)	Boom material	Tensile strength of material	Remarks
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Notes: For safe working load, see form 7.

Cargo gear particulars		Plan No.
Shipbuilder and yard	Yard No. of ship	Total No. of sheets Sheet No.

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This diagra	am does not r	epresent any p	oreferred de	sign.					
					ummary o	of cranes			
Crane	Power sup-	Safe working	g load, outre	each etc. (d	livision into				
tion num-	ply (voltage frequency	SWL	as a	ppropriate)			Make and type	or model	Remarks
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Key plan of	forces in kN	Derrick numbers
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otes e key plan of forces need not be to scale. It is to include for the S be tensions and resultant forces on the pulley blocks (including guy		
		Plan No.
argo gear particulars	Yard No. of ship	Plan No.