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ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 572

SHUTTLES FOR PIRN CHANGING AUTOMATIC LOOMS

1st EDITION

April 1967

For each individual country the only valid standard is the national standard of that country.

Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

BRIEF HISTORY

The ISO Recommendation R 572, *Shuttles for Pirn Changing Automatic Looms*, was drawn up by Technical Committee ISO/TC 72, *Textile Machinery and Accessories*, the Secretariat of which is held by the Association Suisse de Normalisation (SNV).

Work on this question by the Technical Committee began in 1950 and led, in 1963, to the adoption of a Draft ISO Recommendation.

In September 1964, this Draft ISO Recommendation (No. 709) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies:

Chile	Korea, Rep. of	Turkey
Czechoslovakia	Netherlands	U.A.R.
France	Poland	United Kingdom
Germany	Spain	
Greece	Switzerland	

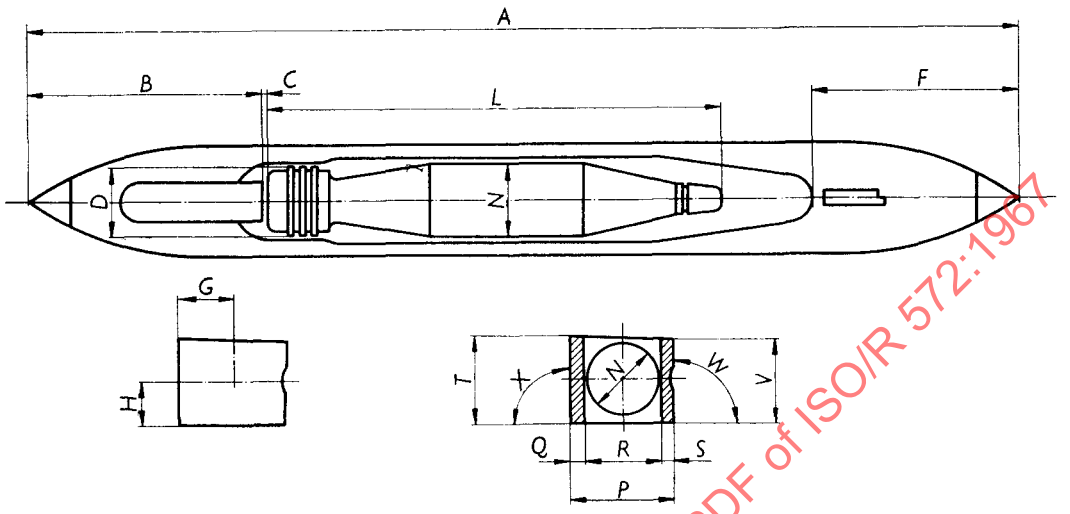
Two Member Bodies opposed the approval of the Draft:

India
U.S.S.R.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in April 1967, to accept it as an ISO RECOMMENDATION.

ISO Recommendation R 572 April 1967

SHUTTLES FOR PIRN CHANGING AUTOMATIC LOOMS



A Overall length of shuttle
B Distance from tip of shuttle at jaw end to end of guide or cover
C Clearance between guide or cover and pirn base as maximum and minimum
D Diameter of ISO pirn over rings
F Distance from tip of shuttle at eye end to nearest point of cut out at base of shuttle
G Distance from back wall of shuttle to centre of tip
H Distance from base of shuttle to centre of tip
L Length of ISO pirn
N Maximum diameter of full pirn (according to pirn type and shuttle type)
P Width of shuttle at base
Q Thickness of back wall of shuttle
R Width between back and front walls of shuttle
S Thickness of front wall of shuttle
T Height of shuttle at back wall
V Height of shuttle at front wall
W Angle of front wall with base
X Angle of back wall with base

1. BASIC DIMENSIONS FOR SHUTTLES WITH 90° ANGLE OF WALL

1.1 Metric system

millimetres			inches		
		for ISO pirn *L*			for ISO pirn *L*
A	385 410 425 450 475	172 190 200 220 240	*A*	15.157 16.142 16.732 17.716 18.701	6.772 7.480 7.874 8.661 9.449
B	95		*B*	3.740	
F min.	85		*F* min.	3.346	
		for ISO pirn *D*			for ISO pirn *D*
P×*T*	42×29 46×29	24.20 to 24.95	*P*×*T*	1.653×1.141 1.811×1.141	0.954 to 0.983
	46×32 50×32	27.00 to 27.68		1.811×1.259 1.968×1.259	1.063 to 1.090
	46×35 50×35	30.10 to 30.85		1.811×1.378 1.968×1.378	1.185 to 1.215
	52×39 55×42 60×46	33.53 to 34.20		2.047×1.535 2.165×1.653 2.362×1.811	1.320 to 1.346

1.1.1 *Co-ordinated dimensions*

millimetres					inches				
P		*T*	*A*	× *L*	*P*		*T*	*A*	*D* × *L*
Narrow series	Wide series				Narrow series	Wide series			
42	46	29	385	24×172	1.653	1.811	1.141	15.157	0.954 to 0.983×6.772
46	50	32	385	27×172	1.811	1.968	1.259	15.157	1.063 to 1.090×6.772
46	50	32	410	27×190	1.811	1.968	1.259	16.142	1.063 to 1.090×7.480
46	50	35	425	30×200	1.811	1.968	1.378	16.732	1.185 to 1.215×7.874
46	50	35	450	30×220	1.811	1.968	1.378	17.716	1.185 to 1.215×8.661
52	—	39	450	34×220	2.047	—	1.535	17.716	1.320 to 1.346×8.661
—	55	42	450	34×220	—	2.165	1.653	17.716	1.320 to 1.346×8.661
—	55	42	475	34×240	—	2.165	1.653	18.701	1.320 to 1.346×9.449
60	—	46	475	34×240	2.362	—	1.811	18.701	1.320 to 1.346×9.449

$W = 90°$
$X = 90°$