INTERNATIONAL STANDARD

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Textile machinery and accessories — Latch-type needles for knitting machines — Coordination of shank widths and hook heights

Matériel pour l'industrie textile — Aiguilles à clapet pour machines à tricoter — Coordination des épaisseurs de tige et hauteurs de crochet

Reference number
ISO 11825:1995(E)

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11825 was prepared by Technical Committee ISO/TC 72, *Textile machinery and allied machinery and accessories*, Subcommittee SC 3, *Machinery for fabric manufacture*.

Annex A of this International Standard is for information only.

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Textile machinery and accessories — Latch-type needles for knitting machines — Coordination of shank widths and hook heights

1 Scope

A wide range of latch needles is used in the knitting industry and by the machine manufacturers, and frequently not all sizes are available. As a result, large storage areas are taken up and an uneconomical number of needles is kept in stock.

Rationalization should be provided by standardizing the shank widths and the hook heights of needles.

This International Standard specifies appropriate dimensions for these and relates them to the needle pitches of the knitting machines concerned.

2 Dimensions

Table 1 — Recommended values for latch needle shank widths

Dimensions in millimetres

0,26	0,3	0,32	0,34*)	0,36	0,41	0,5	0,62	0,75	0,85	1	1,3	1,5	1,8	2
*) Only for RL-circular knitting machines with small diameter.														

Table 2 — Recommended values for latch needle hook heights

Dimensions in millimetres

0,8	0,85	0,9	1	1,1	1,2	1,35	1,5	1,7	2	2,4	2,65	3	3,45	4	5,5	6,9

3 Combinations of shank width and hook height in relation to needle pitch

Recommendations are given in table 3 for shank widths and hook heights in relation to needle pitch. In special cases, hook can be related to shank widths other than those included in table 1.

Table 3 — Combinations of shank width, hook height and needle pitch

Dimensions in millimetres

Pitch t	Gauge E	RL-circular knitting machines		RR-circular knitting machines (interlock)		RR-circular knitting machines (fine rib)		Flatbed knitting machines	
		Shank width	Hook height	Shank width	Hook height	Shank width	Hook height	Shank width	Hook height
0,508	50	—	—	0,26	0,8	—	—	—	—
0,529	48	—	—	0,26	0,8	—	—	—	—
0,552	46	—	—	0,26	0,8	—	—	—	—
0,577	44	—	—	0,3	0,85	—	—	—	—
0,605	42	—	—	0,3	0,85	—	—	—	—
0,635	40	0,32	1	0,3	0,85	—	—	—	—
0,668	38	0,32	1	0,32	0,9	—	—	—	—
0,706	36	0,32	1	0,32	0,9	—	—	—	—
0,747	34	0,32 (0,34*))	1	0,32	1	—	—	—	—
0,794	32	0,36	1,1	0,32	1	0,32	0,9	—	—
0,847	30	0,36	1,1	0,36	1,1	0,32	0,9	—	—
0,907	28	0,41	1,2	0,36	1,1	0,36	1	—	—
0,977	26	0,41	1,2	0,41	1,2	0,36	1	—	—
1,058	24	0,5	1,35	0,41	1,2	0,41	1,1	—	—
1,155	22	0,5	1,35	0,41	1,2	0,41	1,1	—	—
1,210	21	0,5	1,35	0,5	1,35	0,5	1,2	—	—
1,270	20	0,5	1,35	0,5	1,35	0,5	1,2	—	—
1,337	19	0,62	1,5	0,5	1,35	0,5	1,2	—	—
1,411	18	0,62	1,5	0,5	1,35	0,5	1,2	—	—
1,494	17	0,62	1,5	0,5	1,35	0,5	1,2	—	—
1,588	16	0,62	1,5	0,62	1,5	0,62	1,35	0,5	1,35
1,693	15	0,62	1,5	0,62	1,5	0,62	1,35	—	—
1,814	14	0,75	1,7	0,62	1,5	0,62	1,35	0,82	1,5
1,954	13	0,75	1,7	0,62	1,5	0,62	1,35	—	—
2,117	12	0,75	1,7	0,75	1,7	0,75	1,5	0,75	1,7
2,309	11	0,85	2	0,75	1,7	0,75	1,5	—	—
2,540	10	0,85	2	0,75	1,7	0,75	1,5	0,85	2
2,822	9	0,85	2	0,85	2	0,85	1,7	—	—
3,175	8	1	2,4	0,85	2	0,85	1,7	1	2,4
3,629	7	1	2,4	0,85	2	0,85	1,7	1	2,65
4,233	6	1	2,4	1	2,4	1	2	1,3	3
5,080	5	—	—	1	2,4	1	2	1,3	3,45
6,350	4	—	—	1	2,4	1	2	1,5	4
8,467	3	—	—	—	—	—	—	1,8	5,5
12,700	2	—	—	—	—	—	—	2,2	6,9

*) Only for RL-circular knitting machines with small diameter.

Annex A
(informative)

Bibliography

[1] ISO 7839:1984, *Textile machinery and accessories — Knitting machines — Classification and vocabulary.*

[2] ISO 8122:1988, *Textile machinery — Knitting machines — Number of needles for circular knitting machines of large nominal diameter*

[3] ISO 8188:1986, *Textile machinery and accessories — Pitches of knitting machine needles.*

[4] ISO 8640-1:1990, *Textile machinery and accessories — Flat warp knitting machines — Vocabulary — Part 1: Driving mechanisms.*

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