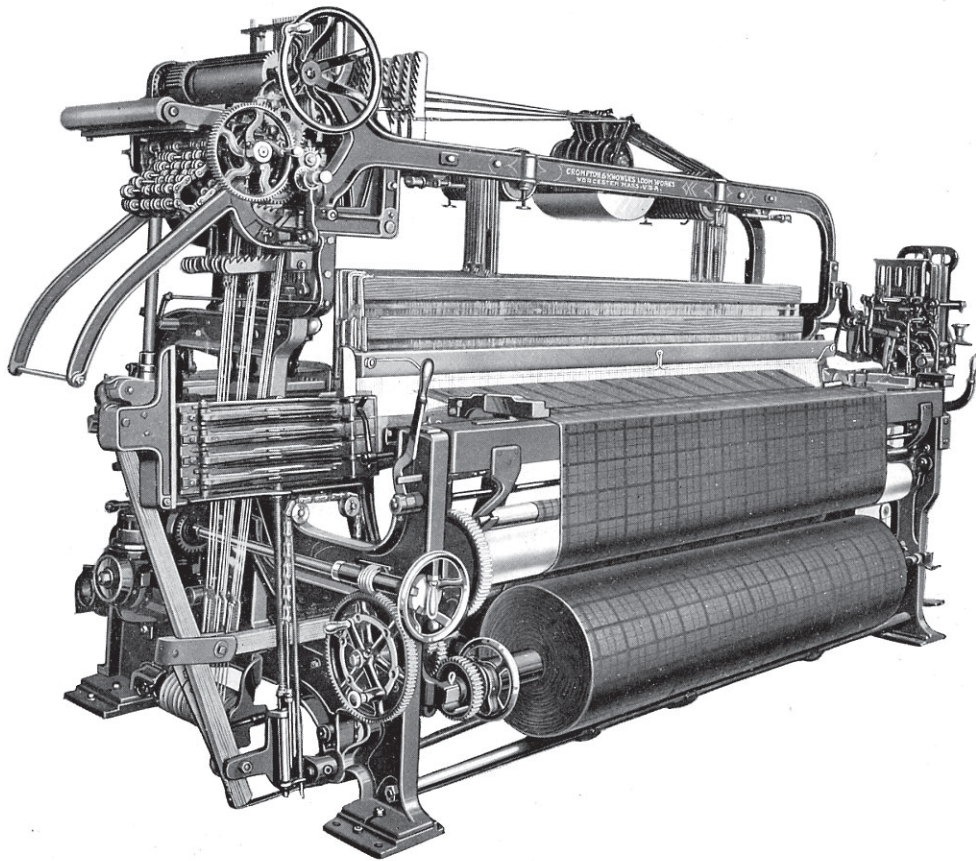


Automatic Intermediate Worsted Loom



CROMPTON & KNOWLES LOOM WORKS

WORCESTER, MASS. U.S.A.

PROVIDENCE, R.I.

PHILADELPHIA, PA.

PATERSON, N. J.

S. B. ALEXANDER, CHARLOTTE, N.C.

Southern Manager

CROMPTON & KNOWLES AUTOMATIC INTERMEDIATE WORSTED LOOM

The Crompton & Knowles Intermediate Worsted Loom is adapted for the weaving of worsted fabrics from light weights up to 15 oz. goods, and is available in both non-automatic and automatic types with the usual box combinations—2 x 1 and 4 x 1 automatic or non-automatic, 2 x 2 and 4 x 4 non-automatic only.

The relatively light construction and high speed of this loom, together with its proven dependability, makes it a most economical machine for plain and fancy worsteds of medium weight.

The box loom, besides being an obvious necessity for fancy fabrics also insures more perfect weaving of single color fabrics, such as serges, pencil stripes, etc., by allowing the use of several shuttles for the proper "mixing" of the filling, and thus avoiding the possibility of "filling bars" in the finished goods.

GENERAL SPECIFICATIONS

Frame: Double arch stands and arches. Wood breast beam with 5" iron plate on top. 1½" round iron lower front girt, 2" round iron upper back girt.

Harness Motion: Intermediate Knowles Head Motion, 25 harness, 4/10" space, driven from bottom shaft by split eccentric gears. Continuous running pattern chain. Guards for gears.

Box Motion: Controlled by separate chain in head motion.

Automatic Magazine: Stationary magazine for bobbins 8" long and 1⅛" yarn diameter.

Filling Detector: Multiple wire mechanical filling detector.

Drive: Individual motor drive. 1 h. p. motor. 2 x 1 coarse pitch gears between crank and bottom shafts. Bevel pinion on counter shaft with guard. Adjustable pulley frame. Brake on crank shaft. 2" iron crank shaft with 6½" throw of cranks. 1⅛" diameter bottom shaft. Caps on crank, pulley, and bottom shaft boxes have provision for wick lubrication.

Picking: Batwing type. 1¼" x ⅞" picking shafts. Split double roll arms on bottom shaft.

Lay: Wood lay beam with iron plate on bottom. Box end equipped with boxes 17 x 2⅜ x 1¼ to take shuttle 16¾ x 1⅛ x 1½". Iron layend at magazine end for drop box type picker. Wood hand rail with iron strip set in top. Iron race plate. Shuttle check at both ends of lay.

Stop Motions: Center Filling Stop Motion No. 9 with sliding shield. Crompton & Knowles Regan Type Mechanical Warp Stop Motion with indicating rods over warp.

Protection: At both ends of looms.

Let-off: Single beam. Double beam stands. 6⅝" diameter beam barrel, 13" ratchet heads, 18" flanges. Steel band friction with weights and levers. Pipe back roll. With double beam stand one beam with 22" flanges may be used or two beams with 14" flanges.

Take-up: Positive reverse worm. Pipe roll with steel surfacing. Lower or winding roll driven by chain of gears and friction. Improved type of removable lower roll.

Selvage: Selvage motion at each end. Driven from upright shaft.

CHANGES

Take-up: Positive worm or ratchet ring type. *Shuttle Box, Non-Automatic:* 17" x 2" x 1¾" for shuttle 17" x 1¾" x 1½".

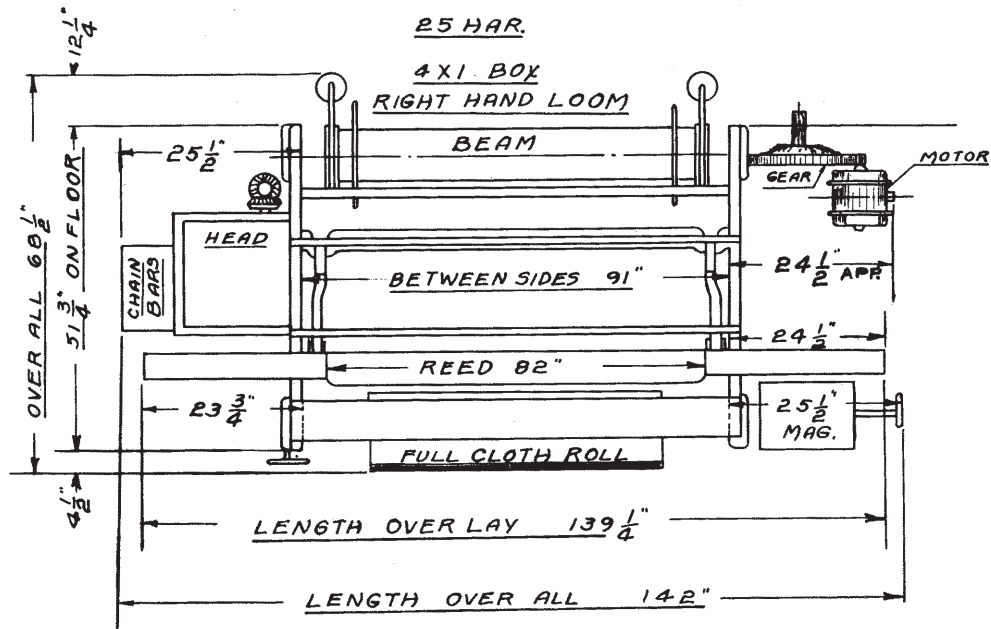
Head Drive: Driven from crank shaft. *Boxes, Non-Automatic:* 2 x 1, 2 x 2, 4 x 1, 4 x 4. *Automatic:* 2 x 1, 4 x 1.

Box Motion: Multiplier in head for box chain. *Widths:* 72", 76", 82" between swords (most common).

Beam: 22" beam flanges.

Filling Detector: Double contact type. *Harness Motion:* Knowles Head 16, 20 harness.

82" KNOWLES AUTOMATIC INTERMEDIATE WORSTED LOOM



FLOOR PLAN OF LOOM 82" BETWEEN SWORDS

Speed: Depends on yarns, but is usually from 115-125 picks per minute.

We strongly advise individual motor drive for looms, especially for automatic looms.

The following list covers some of the types of looms and accessory machinery built by Crompton & Knowles Loom Works.

GENERAL			DUCK		
Asbestos	Fly Net	Plush	Flat Duck	Medium Duck	Special Extra
Brocatelle	Hammock	Press Cloth	Light Duck	Heavy Duck	Heavy Duck
Burlap	Heavy Belting	Shawl, Fancy	Intermediate Duck	Extra Heavy Duck	
Cane	Lappet	Sisal Bag			
Curtain	Linen	Upholstery			
Double Shuttle	Linen Crash	Velvet			
Plush	Mohair	Window Shade			
Drapery					
WOOLEN AND WORSTED			CARPET AND RUG		
Cassimere	Gem Dress Goods	Jacketing	Axminster	Fibre Art Square	Paper Carpet
Clay Twill	Gem Worsted	Satinet	Brussels	Fibre Carpet	Tapestry
Dress Goods	Heavy Worsted	Woolen Blanket	Chenille	Grass Twine	Wet
Felt	Intermediate		Cocoa Matting	Matting	Wilton
Flannel	Worsted				
COTTON			SILK		
Bag	Crochet Quilt	Lining	Broad Silk	Jacquard Silk	Veiling
Cord Fabric	Damask	Marseilles Quilt			
Corduroy	Denim	Mosquito Netting			
Cotton Blanket	Gingham	Sheeting			
Cotton, Plain	Handkerchief	Terry Towel			
Cotton Plush	Huck Towel	Tire Fabric			
Coutil	Jean				
			NARROW FABRIC		
			Bandage	Elastic Webbing	Ribbon
			Belting	Non-elastic	Tape
			Brake Lining	Webbing	Wicking
			MISCELLANEOUS		
			Bobbin Strippers	Narrow Fabric	Narrow Fabric
			Cop Winders	Warpers	Quillers
			Dobbies	Mechanical Warp	Printing Drums
			Jacquards	Stop Motion	Setting Frames



PROVIDENCE, R. I.



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WORCESTER, MASSACHUSETTS, U.S.A.

A LOOM FOR EVERY KNOWN WOVEN FABRIC