SAK Automatic Package Changer
(LH 132, LH 133)

LAWSON - HEMPHILL
Smart Quality Control

SAK Automatic Package Changer

Automate Your Testing

• **Purpose**: To sequentially and automatically knot preset sample lengths of yarn into a continuous thread line to automate testing equipment such as lab knitting machines, entanglement tester, shrinkage tester and others.

• **Speed**: Knotted yarn samples may be produced up to 500 meters per minute.

• **Feeds**: Run your test by loading the SAK directly from a creel. Yarn packages to be sampled can be fed with a variety of creel systems to suit customer's requirements.

• **Cost Savings**: Substantial labor savings. Allows one operator to operate more than one testing equipment.

• **New SAK-HD** for high denier (up to 3800)

Performance

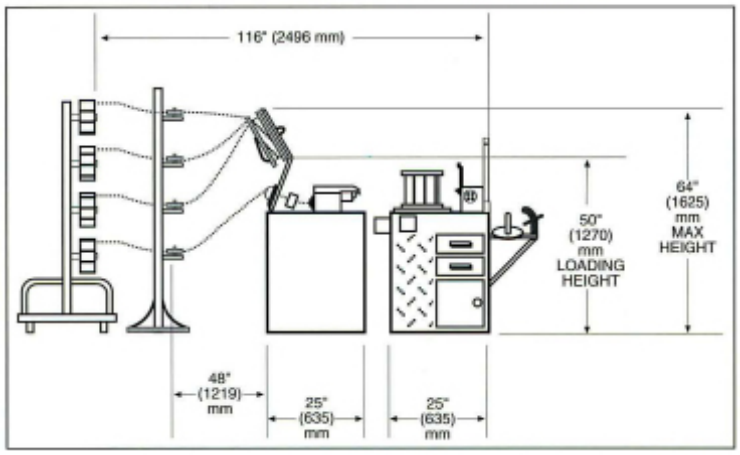
In today's modern textile mills, where quality and cost cutting are most important, there is a great need for high volume testing. Many of today's testing instruments do not have an automatic yarn changer, requiring an operator, which is very costly. Lawson Hemphill offers you a solution with the new Air SAK (Sample Automatic Changer).

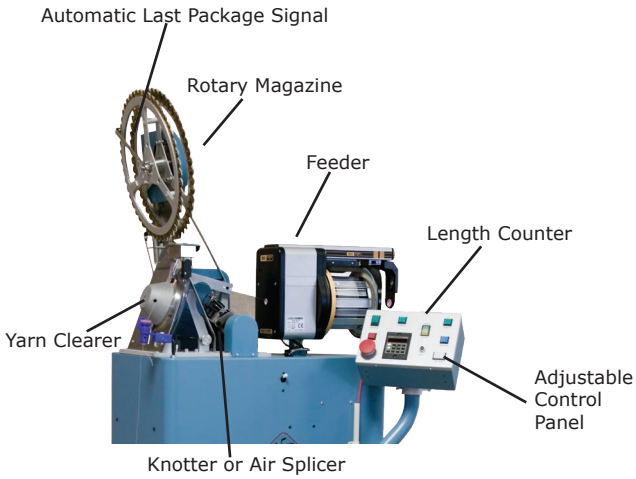
The new SAK allows the operator to service and operate more than one machine simultaneously, saving operator costs and reducing down time of testing instruments. For example, with the 48-position rotary magazine one can preload up to 36 ends at one time. If the test duration per sample is one minute, the SAK will run continuously for 36 minutes before the operator will have to supply more yarn. The SAK provides start and stop signals to a host instrument.

The mechanics of the system include a modern programmable controller used in conjunction with pneumatic cylinders to execute the knotter and rotary magazine with rapier. This provides dependable operation with little maintenance.

SAK Sample Automatic Changer

EXAMPLE — Sample Automatic Knotter integrated to a lab knitting machine.





SPECIFICATIONS

There are 3 different SAK models

MODELS

1. SAK (LH 132)	Automatic Knotter with 36 position Rotary Magazine and Rapier
2. SAK-E (LH 133)	Automatic Air Splicer with 36 position Rotary Magazine and Rapier
3. SAK-HD	Automatic Air Splicer for Carpet yarns and High Denier Filament yarns.

The 36-position Rotary Magazine is a circular magazine that allows preloading 36 ends and then adds more when testing is in progress. Once the packages are loaded, the Rapier Arm automatically grabs each new yarn and loads it into position for knotting or splicing.

Speed Up to 500m/min

TYPES of YARN

1. SAK	Medium Twisted & Textured Yarns 20-400 denier
2. SAK-E	Multi Filament low twist yarn 20-400 denier
3. SAK-HD	Multi Filament heavy Denier Carpet yarns 600 denier and up to 3500 denier.
ELECTRICAL	Specify power when ordering 115vac @ 10 Amp or 230vac @ 5amp Single Phase power 50/60Hz
AIR	Clean and Dry compressed air. Pressure: 7Bar (100psi) Consumption: 6 SCMH (200CFH)
Dimensions	40 x 80 x 1500 cm (16 x 31.5 x 591 in)
Net Weight	140Kg (280lbs)
Shipping Weight	220Kg (450lbs)

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*For more information on the **SAK** , or any of the Lawson Hemphill products,*
Call us at 508-679-5364 or email: information@lawsonhemphill.com

Testing Machines Inc.
2 Fleetwood Court
Ronkonkoma, NY 11779
Tel: (631) 439-5400
Fax: (631) 439-5420
Info@testingmachines.com

Messmer Instruments
Unit F1 Imperial
Business Estate
West Mill, Gravesend
Kent DA11 0DL UK
Tel:+44 (0) 1474 566488
Fax:+44 (0) 1474 560310

Büchel BV
Fokkerstrat 24,
3905 KV
Veenendaal,
Netherlands
Tel:+33 (0)318 521500
Fax:+33 (0)318 5400358

Lako Tool and Manufacturing Inc.
7400 Ponderosa Road
Perrysburg, Ohio 43552
Tel: (419) 662-5256
Fax: (419) 662-8225

Lawson Hemphill
1658 G A R Highway
Swansea, MA 02777
Tel: (508) 679-5364
Fax: (508) 679-5396
Information@
lawsonhemphill.com

Adamel Lhomargy SARL
Z.A. de l'Habitat,
Bâtiment 6
Route d'Ozoir, 77680
Roissy en Brie, France
Tel:+33 (0) 1 6440291
Fax:+33 (0) 1 64409211

TMI Canada
P.O. Box 203
Pointe-Claire Dorval
QC, H9R-4N9 CAN
Tel: (514) 426-5855
Fax: (514) 426-1557