

YARNS

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Y006

Electronic Yarn Count System

Consists of an electronic balance (210 gramsx0.001 grams) with internal and external custom software which calculates yarn, sliver and roving counts as well as fabric yield in various systems and provides statistics on any number of tests including totals, average, CV and SD. Includes cables and security data key, USB, and connects to any PC and Printer. PC & Printer are not available.



WEIGHT	4.5 kg	10 lb		
DIMENSIONS	Width	Depth	Height	
	250 mm	400mm	100 mm	
	10 inch	16 inch	4 inch	
STANDARDS	ISO 2060/3801	BS 2471	ASTM D190/7264/3776	
	IWTO 22-82	IWSTM 13	BS EN ISO 2060	
	BS EN 12127			
ORDERING Info.	Y006	Electronic Yarn Count System		

Y016A

Mechanical Yarn Package Density Tester

To measure the hardness of yarn cones or beams of yarn or fabric. Analogue scale from 0-100 with 5mm diameter indenter (supplied in fitted box).



WEIGHT	1 kg	2.2 lb		
DIMENSIONS	Width	Depth	Height	
	160 mm	100 mm	75 mm	
	6 inch	4 inch	3 inch	
ORDERING Info.	303151	Mechanical Yarn Package Density Tester		

Y038

Yarn Bulkometer

Simple device to define the volume occupied at a given pressure by the mass of a specified amount of the yarn. Unit of bulk = cm^3/g . The apparatus consists of a channel with graduated scales on each corner in which a skein is placed containing a known number of ends. A load of 500g is applied to produce a pressure of 10g per cm^2 .



WEIGHT	1 kg	2.2 lb		
DIMENSIONS	Width	Depth	Height	
	100 mm	75 mm	100 mm	
	4 inch	3 inch	4 inch	
ORDERING Info.	303506	Yarn Bulkometer		

Y096A/B

Portable Mechanical Yarn Friction Tester

To determine the coefficient of friction of moving yarns and assess the need for lubrication or suitability for further processes (in fitted case).

Drive Unit, with friction tester mounting and tension device to convert the portable yarn friction tester into a laboratory unit.

WEIGHT	7 kg	15 lb		
DIMENSIONS	Width	Depth	Height	
	400 mm	300 mm	220 mm	
	16 inch	12 inch	9 inch	
STANDARDS	ASTM D3108			
ORDERING Info.	Y096A	Portable Mechanical Yarn Friction Tester		
	Y096B	Drive Unit		



Y103C

Hair Scan Portable Yarn Hairiness Monitor

For monitoring the quality of spun yarn or detecting broken filaments. The portable battery powered unit uses an infra red detecting head while low power circuitry ensures a long battery life, typically 10 hours.

A two line intelligent display (LCD) shows the measurement time (seconds) and count. If the batteries are low on charge a message will appear requesting the batteries to be charged. Measurement time is selectable in increments of 5 or 10 seconds, minimum is 5 seconds and the maximum is 95 seconds. For broken filament detection there is a continuous mode where the Hair Scan will monitor until the operator decides to finish. Measuring head can be fixed permanently in the threadline.

The Hair Monitor is supplied with a STANDARD measuring head size of 3mm. This dimension was set many years ago by Shirley Institute for their Yarn Hairiness Meter first build in the 1960's. We also offer a range of heads from 1mm to 5mm that can be specified in increments of 0.1mm with different dimensions between the yarn guide and the detecting hole.

It is important to specify a non-standard head requirement when ordering.

WEIGHT	0.5 kg	1 lb		
DIMENSIONS	Width	Depth	Height	
	80 mm	35 mm	160 mm	
	3 inch	1.5 inch	6.5 inch	



ORDERING INFORMATION

303158 Hairscan Portable Yarn Hairiness Monitor
Non-Standard Heads are available by special order

Y219A

Wrap Reel-Hand Operated

To produce skeins of yarn of a predetermined length and number of turns for count and/or strength testing. 1 Meter, 36" or 54" circumference collapsible swift (specify). Complete with yarn package stand and pretension device, fitted with predetermined counter.



WEIGHT	35 kg	77 lb	
DIMENSIONS	Width	Depth	Height
	500 mm	650 mm	560 mm
	20 inch	26 inch	22 inch
STANDARDS	ISO 2060	GB/T 4743	ASTM D1907
ORDERING Info.	105413	Wrap Reel Hand Operated (1m)	
	105414	Wrap Reel Hand Operated (1yd)	
	105415	Wrap Reel Hand Operated (54")	

Y219B

Wrap Reel-Electronic

To produce skeins of yarn of a predetermined length and number of turns for count and/or strength testing. 1 Meter, 36" or 54" circumference collapsible swift (specify). Complete with yarn package stand and pretension device, fitted with predetermined counter.

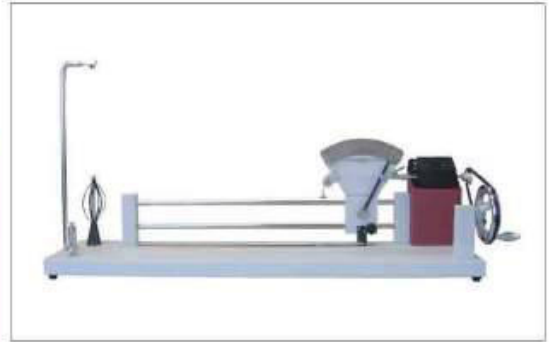


WEIGHT	45 kg	99 lb	
DIMENSIONS	Width	Depth	Height
	500 mm	650 mm	560 mm
	20 inch	26 inch	22 inch
STANDARDS	ISO 2060	GB/T 4743	ASTM D1907
ORDERING Info.	Y219BM	Wrap Reel-Electronic (1m)	
	Y219BY	Wrap Reel-Electronic (1yd)	
	Y219B54	Wrap Reel-Electronic (54")	

Y220A

Twist Tester - Hand Operated

To determine yarn twist in single or plied yarns, quadrant type for conventional or untwist/re-twist methods. Test length adjustable up to 50cm/20inches for S & Z twist yarns.



WEIGHT	15kg	33 lb	
DIMENSIONS	Width	Depth	Height
	940 mm	260 mm	290 mm
	38 inch	10 inch	12 inch
STANDARDS	ISO 2061/17202	ASTM 1422/1423	
	GB/T 2543.1/2543.2		
ORDERING Info.	105352	Twist Tester Hand Operated	

Y220B

Twist Tester - Electronic

To determine yarn twist in single or plied yarns, quadrant type with auto stop & reverse for conventional or untwist/re-twist methods. Test length adjustable up to 50cm/20inches for S & Z twist yarns.



WEIGHT	16 kg	36 lb	
DIMENSIONS	Width	Depth	Height
	1070 mm	300 mm	290 mm
	43 inch	12 inch	12 inch
STANDARDS	ISO 2061/17202	ASTM 1422/1423	
	GB/T 2453.1 , 2453.2		
ORDERING Info.	105353	Twist Tester Electronic	

Y221

Yarn Examining Machine

To assess the evenness, hairiness, neps and other imperfections in a representative sample of yarn wound at a pre-determined pitch onto a tapered black board. Variable pitch traverse 8 - 19 wraps per centimeter, variable winding speed drive, with yarn package stand and 2 tapered aluminium black boards 575mm x 250mm x 160mm. Assessment against photographic comparison standards (not included).



WEIGHT 24 kg 53 lb

DIMENSIONS

Width	Depth	Height
910 mm	310 mm	260 mm
36.5 inch	12.5 inch	10 inch

STANDARDS ASTM D2255

ORDERING Info. 201040 Yarn Examining Machine

Y221A

ASTM Photographic Yarn Appearance Standards

Grades A, B, C, D (mounted). Specify No. 1-12, 12-24, 24-36, 36-50, 50-75, or 75-135 (English cotton count) price each.

WEIGHT 1.2 kg 2.5 lb

DIMENSIONS

Width	Depth	Height
635 mm	10 mm	380 mm
25 inch	0.4 inch	15 inch

STANDARDS ASTM D2255

ORDERING Info.

202059	A12	Standards 1-12 count
202058	A24	Standards 12-24 count
202057	A36	Standards 24-36 count
202056	A50	Standards 36-50 count
202055	A75	Standards 50-75 count
202054	A135	Standards 75-135 count



Y224

Size Concentration Refractometer

To determine the amount of starch or solids percentage in a sizing solution.

WEIGHT 0.24 kg 0.5 lb

DIMENSIONS

Width	Depth	Height
20 mm	20 mm	170 mm
0.75 inch	0.75 inch	6.7 inch

ORDERING Info. 200966 Size Concentration Refractometer



Y225A

Yarn Count Converter

Conversion slide rule for all major yarn count systems, with metric/imperial equivalents on reverse, PVC wallet, supplied with SDL Atlas logo.

DIMENSIONS	Width	Height
	190 mm 7.5 inch	75 mm 3 inch
ORDERING Info.	303164	Yarn Count Converter



Y226D

Warp Tension Meter

To determine correct tension for particular fabric qualities in weaving and preparation. Accurate and robust mechanical operation, dial readout 0-100 centesimal scale.

WEIGHT	0.5 kg	1 lb		
DIMENSIONS	Width	Depth	Height	
	150 mm 6 inch	75 mm 3 inch	100 mm 4 inch	
ORDERING Info.	201105	Warp Tension Meter		



Y263A

Single End Yarn Strength Tester

To determine the breaking load and extension of single yarns and threads up to 250n, 25kgf, 50lbf or 100n, 10kgf, 20lbf load range depending on choice of load cell (one or both may be ordered). Special-purpose version of H5KS single column universal tester provided with HT60 manual horn-type yarn grips. Fitted with digital electronic controller with LCD display of test parameters and results of tests displayed numerically and graphically. Alpha-numeric keypad for input of test parameters and machine control. Test speeds up to 1500mm/min (60in/min). Maximum travel 750mm (30in). A dedicated printer can also be provided.

WEIGHT	55 kg	110 lb		
DIMENSIONS	Width	Depth	Height	
	490 mm 20 inch	450 mm 18 inch	1140 mm 45 inch	
STANDARDS	BS EN ISO 2062	BS 1932	ASTM D2256	
ORDERING Info.	Y263A	H5KS Single end yarn strength tester with HT60 grips, excludes loadcell		
	200578	100n, 10kgf, 20lbf load cell		
	200579	250n, 25kgf, 50 lbf load cell		
	HTSP4187	HP1320 Laser Jet Printer (special configuration)		



Y275A

Hand Operated Sample Carder

To prepare samples for further testing or produce small quantity blends. Produces a fiber mat or web 250 x 500mm.

WEIGHT	6.5 kg	14 lb		
DIMENSIONS	Width	Depth	Height	
	450 mm	310 mm	200 mm	
	18 inch	12 inch	8 inch	
ORDERING Info.	200978	Sample Carder		



Y275B

Sample Spinner

Motorised hand-spinning system to produce trial yarns from top, sliver or fiber mat.

WEIGHT	3.4 kg	7.5 lb		
DIMENSIONS	Width	Depth	Height	
	300 mm	300 mm	300 mm	
	12 inch	12 inch	12 inch	
ORDERING Info.	200977	Sample Spinner		

