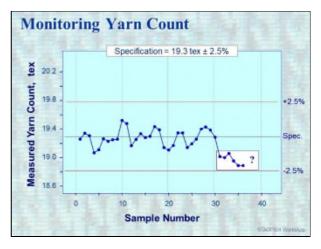


Yarn Count Variation If fabrics finished to the same weight and width Range in Length Shrinkage increases to between -1.6% and -8.5% Variation in Ne between deliveries of ± 3% is not unusual For Ne 38, range is Ne 39.14 to Ne 36.86 Actual range was Ne 39.2 to Ne 36.9

* Obtain test data from ALL suppliers * Identify and check EACH delivery for count, twist & friction before knitting NB moisture content * COMPARE with agreed Specification * Establish PROCEDURES for out of tolerance deliveries

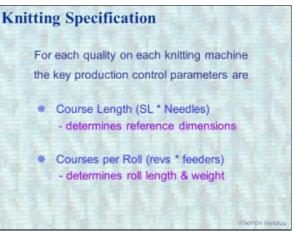




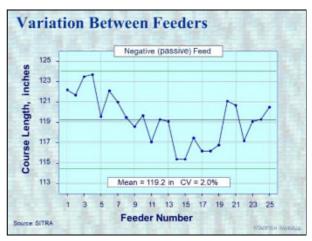
New Suppliers should get more stringent checking until their reliability is proved



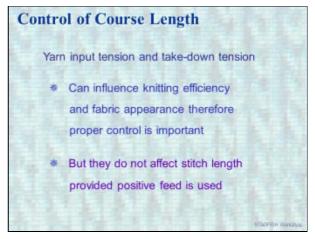


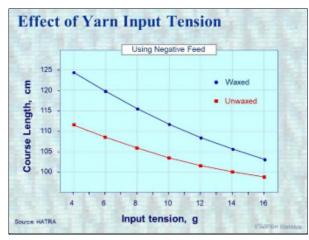




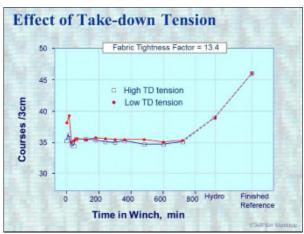




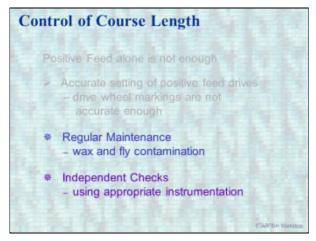






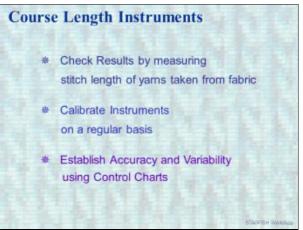


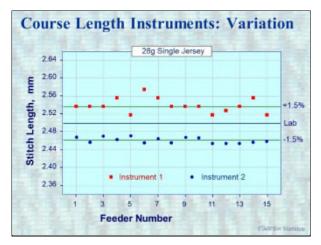








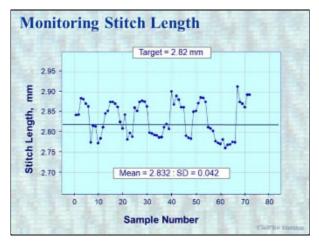




Cour	se Length & Needles
*	Number of needles can vary between different makes and models
*	Stitch Length depends on Course Length SL = Course Length / Needles
*	Needles must also be specified when Course Length is the Control Parameter
*	Fabric Width depends on No. of Needles Width = Needles / Wales
	STAGREN WASAGE

ariation in Cylinder Needles				
SJ 30" Diam, 20 Gg	Needles	% Diff		
Theoretical	1884			
Falmac "B" Series	1848	-1.9		
Monarch VXC-73S	1860	-1.3		
Pai Lung FS3A/T	1872	-0.6		
Vanguard 1SJ4	1920	+1.9		

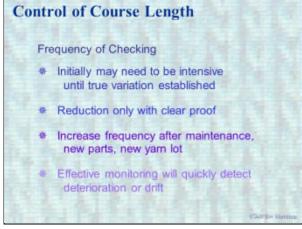
Cours	e Length & Stitch Length
*	Use Course Length to set-up and control production on individual machines
CL	may be different, depends on needles
*	Use Stitch Length to specify quality and compare production across all machines
Sti	tch Length should be the same on all
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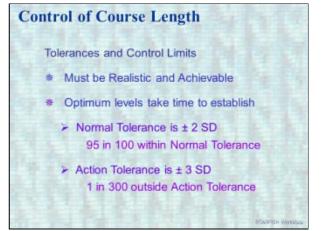


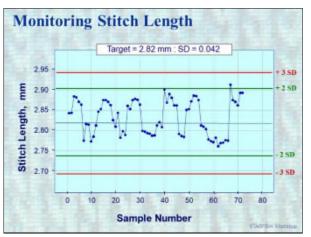


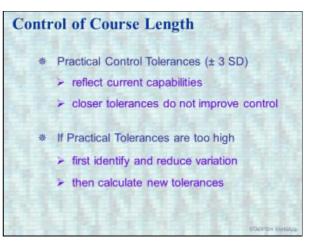
Control of Course Length Prevention better than Cure Check average CL before production and record the results * establish variation between feeders * establish variation between machines * determine minimum number of feeders to be checked

Making Measurements Regular checks throughout production to ensure the quality is maintained Record results so that average values and the variation can be monitored Calculate Standard Deviation of means for each machine, quality & yarn lot











Stitch Length Sorted by Machine						
Diam	SL mm	SD	CV%			
16	2.850	0.007	0.25			
17	2.806	0.021	0.76 ?			
18	2.884	0.013	0.45			
19	2.785	0.010	0.35			
20	2.873	0.011	0.39			
22	2.785	0.009	0.31			
all data	2.832	0.042	1.49			
			аталген www.			

Maintain a Consistent Standard # Check on-line instrumentation regularly internal lab measurements of SL external calibration monitor using Control Charts # QC independent from production

華	Consistent roll Weight
	> planning, monitoring & control
	> storage & handling
	easy composition of dyelots
*	Consistent roll Length
	> improves lay planning
	> reduces cutting waste
	> reduces costs
oth c	an be accurately controlled based on
	Yarn Count & Course Length

