

A3 Test

COMPACT COMBED COTTON

COUNT	Ne 30	
Ring D	38 mm	
Comparative	18.700 rpm	21.500 rpm

Parameter	Conventional	Spinhole	U/kg
Parameters for Soliman			
Number of spindles, Z	1440	1440	0
Traveller wieght, G (mg)	31,5	15	
Ring diameter, Dr (cm)	3,8	3,8	
Bobbin diameter, d (cm)	3,3	3,3	
Bobbin track, h (cm)	18	18	
Spindle gauge, g (cm)	7	7	
Spindle speed, n (rpm)	18,7	21,5	
Soliman Formula			
Total Power, Nt (kW)	42,30	47,50	
Power Reduction, %		-12%	
kgCO2/kwh		0,670	
Kg CO2 reduction (equal Kw)		12.250,2	
Production parameters			
Yarn count, Ne	30	30	
Yarn count, Nm	50	50	
Alpha	3,3	3,3	
Feed speed	26,4	30,4	
Twist, t/m	707	707	
Production, kg/h	45,7	52,5	
Production increase, %		15,0%	
Energy Cost, €/kwh	0,069	0,069	
Ukg	0,93	0,89	4,29%
Margin profit of yarn , €/kg	0,52	0,52	
Financial Parameters			
Spinhole price, €/spindle		€ 30,0	
Total cost, €		€ 43.200	
Amortitzation time (years)		1,54	
Rentability		65%	