

## A4 Test

## COMPACT COMBED COTTON

COUNT	Ne 40	
Ring D	36 mm	
Comparative	19.700 rpm	23.500 rpm

Parameter	Conventional	Spinhole	U/kg
<b>Parameters for Soliman</b>			
Number of spindles, Z	1200	1200	0
Traveller wieght, G (mg)	28	12,5	
Ring diameter, Dr (cm)	3,6	3,6	
Bobbin diameter, d (cm)	3,1	3,1	
Bobbin track, h (cm)	17	17	
Spindle gauge, g (cm)	7	7	
Spindle speed, n (rpm)	19,7	22,7	
<b>Soliman Formula</b>			
Total Power, Nt (kW)	34,07	38,03	
Power Reduction, %		-12%	
kgCO2/kwh		0,670	
Kg CO2 reduction (equal Kw)		11.689,8	
<b>Production parameters</b>			
Yarn count, Ne	26	26	
Yarn count, Nm	44	44	
Alpha	3,9	3,9	
Feed speed	25,1	28,9	
Twist, t/m	784	784	
Production, kg/h	41,1	47,4	
Production increase, %		15,2%	
Energy Cost, €/kwh	0,069	0,069	
Ukg	0,83	0,79	5,07%
Margin profit of yarn , €/kg	0,59	0,59	
<b>Financial Parameters</b>			
Spinhole price, €/spindle		€ 30,0	
Total cost, €		€ 36.000	
Amortitzation time (years)		1,20	
Rentability		83%	