

## A2 Test COMBED COTTON

COUNT	Ne 26	
Ring D	40 mm	
Comparative	16.700 rpm	19.200 rpm

Parameter	Conventional	Spinhole	U/kg
<b>Parameters for Soliman</b>			
Number of spindles, Z	1200	1200	0
Traveller wieght, G (mg)	45	20	
Ring diameter, Dr (cm)	4	4	
Bobbin diameter, d (cm)	3,5	3,5	
Bobbin track, h (cm)	18	18	
Spindle gauge, g (cm)	7	7	
Spindle speed, n (rpm)	16,7	19,2	
<b>Soliman Formula</b>			
Total Power, Nt (kW)	33,31	35,67	
Power Reduction, %		-7%	
kgCO2/kwh		0,670	
Kg CO2 reduction (equal Kw)		17.544,0	
<b>Production parameters</b>			
Yarn count, Ne	26	26	
Yarn count, Nm	44	44	
Alpha	3,8	3,8	
Feed speed	21,9	25,1	
Twist, t/m	764	764	
Production, kg/h	35,8	41,1	
Production increase, %		15,0%	
Energy Cost, €/kwh	0,069	0,069	
Ukg	0,93	0,86	7,81%
Margin profit of yarn , €/kg	0,49	0,49	
<b>Financial Parameters</b>			
Spinhole price, €/spindle		€ 30,0	
Total cost, €		€ 36.000	
Amortitzation time (years)		1,67	
Rentability		60%	