

A6 Test

MELANGE PC 52/48

COUNT	Ne 32	
Ring D	38 mm	
Comparative	15.500 rpm	18.100 rpm

Parameter	Conventional	Spinhole	U/kg
Parameters for Soliman			
Number of spindles, Z	1008	1008	0
Traveller wieght, G (mg)	50	20	
Ring diameter, Dr (cm)	3,8	3,8	
Bobbin diameter, d (cm)	3,3	3,3	
Bobbin track, h (cm)	18,5	18,5	
Spindle gauge, g (cm)	7	7	
Spindle speed, n (rpm)	15,5	18,1	
Soliman Formula			
Total Power, Nt (kW)	23,74	25,41	
Power Reduction, %		-7%	
kgCO2/kwh		0,670	
Kg CO2 reduction (equal Kw)		16.581,5	
Production parameters			
Yarn count, Ne	32	32	
Yarn count, Nm	54	54	
Alpha	3,6	3,6	
Feed speed	19,3	22,6	
Twist, t/m	802	802	
Production, kg/h	21,6	25,3	
Production increase, %		16,8%	
Energy Cost, €/kwh	0,069	0,069	
Ukg	1,10	0,99	10,19%
Margin profit of yarn , €/kg	0,63	0,63	
Financial Parameters			
Spinhole price, €/spindle		€ 30,0	
Total cost, €		€ 30.240	
Amortitzation time (years)		1,59	
Rentability		63%	