

Product Contract - Banana Leaf Pads Assembler

Customer Need	Product Attribute(s)	Engineering Specification(s)
Efficiency		
Reduced labor costs	Number of workers	2 people per complete production process
Improved production efficiency	Production rate	2.5 pads per person per minute; improvement of over 3x original rate
Process Repeatability	Defect rate	Less than 1% pads produced
Manufactured in Third-World Production Facility		
Limited power consumption	Electric voltage	Less than 220V
Can be operated by typical Rwandan woman	Human power	Less than 50N force required at any stage in process
Easy to repair machinery	Number of parts	Less than 50 parts, very simple machinery
Reliable machinery	Availability of functioning machine	Functional 90% of desired usage time
	Time required for maintainability	Less than 2 minute inspection required per person per day
Work Environment		
Simple to operate machinery	Training time	Less than 1 hour for untrained workers
Consumer Impact		
Reduced cost of pads	Cost	Produce for less than \$0.11 per pad