

## 2.009 Product Contract

### Team Yellow

**Product Description:** Assembly machine for making banana leaf pads

**Intended Customers:** Women in Rwanda

**Market:** Developing World – Health and Education

Customer Need	Product Attribute(s)	Engineering Specification(s)
<b>Efficiency</b>		
Reduced labor costs	Number of workers	1-2 people per complete production process
Improved production efficiency	Production rate	5 pads per person per minute
Process Repeatability	Defect rate	Less than 1% pads produced
<b>Manufactured in Third-World Production Facility</b>		
Limited power consumption	Electric power	Less than 40W
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
<b>Work Environment</b>		
Simple to operate machinery	Training time	Less than 1 hour for untrained workers
<b>Consumer Impact</b>		
Reduced cost of pads	Cost	Produce for less than \$0.11 per pad