

TEAM NAME: RAHI

SOLIDWORKS Costing Report

AAKRUTI2020





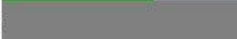
Assembly Name: ONION HARVESTING MACHINE 10.10

Date and time of report:	10/14/2020 6:32:33 PM
Total weight:	9498.28 lb
Total stock weight:	12051.38 lb

Quantity to Produce

Total number of assemblies:	100
Lot size:	100

Estimated cost per assembly: **11412.94 USD**

Costing main template:	multibodytemplate_default(englishstandard).slctc	
Comparison:		Current  Previous 

Cost Breakdown

Calculated Parts:	11412.74USD	100%
Purchased Parts:	0.00 USD	0%
Toolbox Parts:	0.00 USD	0%
Operations:	0.20 USD	0%
Markup:	0.00 USD	0%

Component Cost Impact

Top Ten Components Contributing Most to Assembly Cost

Component	Configuration	Material Cost (USD/Assembly)	Manufacturing Cost (USD/Assembly)	Mold Cost (USD/Assembly)	Total Cost (USD/Assembly)
Conveyer belt-2	Default	1177.80	3.54	10.00	1191.34
roller2 and Separator 1	Default	854.04	3.54	10.00	867.57
Final Separator Part 1	Default	754.20	3.54	10.00	767.74
Blade-2	Default	650.61	4.33	0.00	654.94
frame	Default	555.63	3.54	10.00	569.16
Axle	Default	459.43	0.00	0.00	459.43
Leaves Divergent	Default	413.34	3.54	10.00	426.87
Stone thrower from R1	Default	376.50	3.54	10.00	390.04
Top Conveyer shaft	Default	311.56	3.46	0.00	315.03
Roller 1 near conveyer Shaft	Default	301.45	2.86	0.00	304.31
Total		5854.57	31.86	60.00	5946.43

Cost Breakdown for Each Part

Calculated Parts	Method	Quantity	Part Cost (USD/Assembly)	Total Cost (USD / Assembly)	Costing Template
cutter [Default]	Casting	1	172.48	172.48	machiningtemplate_default(english standard).sldctm
cutter cr [Default]	Machining	1	12.01	12.01	machiningtemplate_default(english standard).sldctm
cutter crank [Default]	Machining	1	28.43	28.43	machiningtemplate_default(english standard).sldctm
Bearing Support [Default]	Casting	20	15.30	306.02	machiningtemplate_default(english standard).sldctm
small bearing support [Default]	Casting	2	14.13	28.26	machiningtemplate_default(english standard).sldctm
Onion Converger [Default]	Casting	1	87.18	87.18	machiningtemplate_default(english standard).sldctm
Leaves Divergent [Default]	Casting	1	426.87	426.87	machiningtemplate_default(english standard).sldctm
Top COveyer shaft [Default]	Machining	1	315.03	315.03	machiningtemplate_default(english standard).sldctm
Roller 1 near coneyer Shaft [Default]	Machining	1	304.31	304.31	machiningtemplate_default(english standard).sldctm
Conveyer and Roller 1 [Default]	Plastics	1	54.01	54.01	machiningtemplate_default(english standard).sldctm
Roller 2 near conveyer [Default]	Machining	1	304.28	304.28	machiningtemplate_default(english standard).sldctm
Roller 1 and Roller 2 [Default]	Plastics	1	53.94	53.94	machiningtemplate_default(english standard).sldctm
bearing [Default]	Casting	27	15.20	410.34	machiningtemplate_default(english standard).sldctm
90 d shaft [Default]	Machining	2	155.17	310.34	machiningtemplate_default(english standard).sldctm
PTO and Conveyer belt [Default]	Plastics	1	53.98	53.98	machiningtemplate_default(english standard).sldctm
Extra Shaft [Default]	Machining	1	88.55	88.55	machiningtemplate_default(english standard).sldctm
PTO and Extra shaft belt [Default]	Plastics	1	54.63	54.63	machiningtemplate_default(english standard).sldctm
Extra Shaft and Cutter Blade [Default]	Plastics	1	55.22	55.22	machiningtemplate_default(english standard).sldctm
cutter pin [Default]	Machining	2	0.47	0.94	machiningtemplate_default(english standard).sldctm
cutter shaft [Default]	Machining	1	117.09	117.09	machiningtemplate_default(english standard).sldctm
blach box [Default]	Machining	1	224.50	224.50	machiningtemplate_default(english standard).sldctm
roller2 and sep 1 [Default]	Casting	1	867.57	867.57	machiningtemplate_default(english standard).sldctm
cutter reci fix [Default]	Casting	1	14.40	14.40	machiningtemplate_default(english standard).sldctm
frame [Default]	Casting	1	569.16	569.16	machiningtemplate_default(english standard).sldctm

Stone thrower from R1 [Default]	Casting	1	390.04	390.04	machiningtemplate_default(english standard).sldctm
Wheels [Default]	Plastics	2	109.01	218.02	machiningtemplate_default(english standard).sldctm
Axle [Default]	Machining	1	459.43	459.43	machiningtemplate_default(english standard).sldctm
FLAP [Default]	Casting	1	95.96	95.96	machiningtemplate_default(english standard).sldctm
SMALL BEARING [Default]	Machining	2	5.05	10.10	machiningtemplate_default(english standard).sldctm
CUTTING SWITCH [Default]	Casting	1	44.48	44.48	machiningtemplate_default(english standard).sldctm
roller shaft 1 [Default]	Machining	6	301.45	1808.68	machiningtemplate_default(english standard).sldctm
Belt1-1^roller second [Default]	Casting	1	168.19	168.19	machiningtemplate_default(english standard).sldctm
roller 1 belt [Default]	Casting	1	100.44	100.44	machiningtemplate_default(english standard).sldctm
Final Sperator Part 1 [Default]	Casting	1	767.74	767.74	machiningtemplate_default(english standard).sldctm
pto connector [Default]	Casting	4	14.13	56.51	machiningtemplate_default(english standard).sldctm
pto pin [Default]	Machining	2	3.92	7.83	machiningtemplate_default(english standard).sldctm
pto Sh [Default]	Machining	2	76.17	152.34	machiningtemplate_default(english standard).sldctm
pto si [Default]	Machining	1	285.64	285.64	machiningtemplate_default(english standard).sldctm
Converyer belt-2 [Default]	Casting	1	1191.34	1191.34	machiningtemplate_default(english standard).sldctm
Side support [Default]	Casting	2	70.74	141.48	machiningtemplate_default(english standard).sldctm
Blade-2 [Default]	Casting	1	654.94	654.94	multibodytemplate_default(english standard).sldctc
Total			8742.59	11412.74	

Machine total cost of parts = \$11412.74 = 837904.54 rupees [1 dollar = 73.42 rupees]

AS FASTENERS AND PURCHASED PARTS WERE NOT ADDED WHILE CREATING THIS REPORT.

Approximately considering cost of fasteners, welding, paneling, etc. equal to 150,000/- rupees.

Total cost of machine = 837904.54+150000.00
= 987904.54 rupees

**Estimated new cost per
ONION HARVESTING MACHINE:** **13455.83 USD**

Cost Breakdown at Assembly Level

Setups	Cost (USD / Assembly)
Annodize 3	0.10
Total	0.10

Custom Operations Part	Quantity	Cost (USD / Assembly)
Annodize 3	1	0.10
Total	1	0.10

No Cost Parts