COST SAVINGS WITH COHO

COHO is designed to reduce production costs by making vacuum bagging of composite parts a robust, reliable and repeatable process. COHO reduces bagging time, minimizes part rework and reduces scrapping of parts. COHO can identify leaks earlier than traditional methods and even provides real-time leak localization to guide operators to problem areas. As a result, vacuum bags get sealed more efficiently, increasing throughput and part quality.

See how much COHO could save you:

- How often you bag/manufacture a part 🕔 at \$20/hr Labour 3 Days per 5/Day Daily Weekly Monthly at \$100/hr Yearly Rate: Week at \$250/hr \$3,042 \$608 \$261 \$87 \$20 \$2 5 \$15,208 \$3,042 \$1,304 \$435 \$100 \$8 Minutes \$38,021 \$7,604 \$3,259 \$1,086 \$250 \$21 \$18,250 \$3,650 \$1,564 \$521 \$120 \$10 30 \$91,250 \$18,250 \$7,821 \$2,607 \$600 \$50 Minutes \$228,125 \$45,625 \$19,554 \$6,518 \$1,500 \$125 Typical time \$36,500 \$7,300 \$3,129 \$1,043 \$240 \$20 spent hunting \$182,500 \$36,500 \$15,643 \$5,214 \$1,200 \$100 1 Hour for leaks \$456,250 \$91,250 \$39,107 \$13,036 \$3,000 \$250 \$43,800 \$18,771 \$6,257 \$1,440 \$120 \$93,857 \$31,286 6 Hours \$219,000 \$7,200 \$600 \$78,214 \$547,500 \$234,643 \$18,000 \$1,500 \$75,086 \$25,029 \$5,760 \$480 \$375,429 \$125,143 \$28,800 1 Day \$2,400 \$938,571 \$312,857 \$72,000 \$6,000

Savings from Faster Leak Correction

Savings from Reduced Part Rework

			l	ou bag/manufacture a part				
Labour Rate:	at \$20/hr at \$100/hr at \$250/hr		5/ Day	Daily	3 Days per Week	Weekly	Monthly	Yearly
		5%	\$1,825	\$365	\$157	\$52	\$12	\$1
			\$9,125	\$1,825	\$782	\$261	\$60	\$5
			\$22,813	\$4,563	\$1,955	\$652	\$150	\$13
			\$3,650	\$730	\$313	\$104	\$24	\$2
l Percentage of time a part requires re-work due to vacuum related issues (multiply values by hours of re-work)		10%	\$18,250	\$3,650	\$1,564	<i>\$522</i>	\$120	\$10
			\$45,625	\$9,125	\$3,911	\$1,304	\$300	\$25
		15%	\$5,475	\$1,095	\$469	\$157	\$36	\$3
			\$27,375	\$5,475	\$2,347	<i>\$782</i>	\$180	\$15
			\$68,438	\$13,688	\$5,866	\$1,955	\$450	\$38
		25%	\$9,125	\$1,825	\$782	\$261	\$60	\$5
			\$45,625	\$9,125	\$3,911	\$1,304	\$300	\$25
			\$114,063	\$22,813	\$9,777	\$3,259	\$750	\$63
		50%	\$18,250	\$3,650	\$1,564	\$522	\$120	\$10
			\$91,250	\$18,250	\$7,822	\$2,607	\$600	\$50
			\$228,125	\$45,625	\$19,554	\$6,518	\$1,500	\$125

Result from this table is the annual savings per hour of rework labour required multiply this number by the average rework time per part

Figures in the tables above express yearly savings on labour.

Additional savings may be realized due to reduction in consumables waste and repair materials.

HOW DOES COHO COMPARE

		соно	Vacuum Gauge & Timer	Ultrasound Sniffer	Mass Spectrometer Helium Leak Detector
		Overview			
Developed spec	cifically for composites processing	\checkmark	×	×	*
	Type of solution	Process integrated system	Point measurement	Troubleshooting	Troubleshooting
V	/orkflow Integrated	✓	×	×	*
		Measurement			
	Vacuum Decay	✓	✓	×	*
M	Flow Rate	✓	×	×	*
Measurement Type	Sound Level	×	×	✓	×
	Detection of Tracer Gas	In Development	×	×	✓
	Quantitative	✓	✓	*	*
	Response time	seconds	minutes	seconds	minutes
Number	of measurement locations	1, 6, 12, 18, 24+	1	1	1
R	eal time monitoring	✓	×	✓	✓
Suitab	le for passive monitoring	✓	×	×	×
Result i	s independent of part size	✓	×	✓	✓
Insensi	itive to background noise	✓	✓	×	✓
	Dis	play, Tests & Resu	ults		
	Hose / Part Leak Check	✓	✓	✓	✓
Teste	Blockage Check	✓	×	×	*
Tests	Vacuum Decay Test	✓	✓	×	×
	Semi-automatic Vacuum Decay Test	✓	×	×	*
	Gauge	✓	✓	×	×
	Bar Graph	✓	×	✓	✓
	Line Graph	✓	×	×	×
Displays	Digital Readout	✓	✓	×	×
	Alarm / Warning	✓	✓	✓	✓
	Part view with predicted leak location	✓	×	×	×
	Pass / Caution / Fail Indicators	✓	×	✓	✓
	Pass / Fail Thresholds	✓	✓	×	×
	Leak Localization Algorithms	✓	×	×	×
Results	Historical Data Recovery	✓	×	×	*
	Remote Viewing	✓	×	×	*
	Recording, R	ecord Keeping &	Data Mining		
Configur	able Information Collection	✓	×	×	*
Suppo	orts Digital Commenting	\checkmark	×	×	×
Autor	natic Report Generation	\checkmark	×	×	×
Si	upports Data Mining	✓	×	×	*
<u>Disclaimer:</u>					