creative automation, inc.
102 W. LINDEN STREET • P.O. BOX 505 • ABBOTSFORD, WISCONSIN 54405 • 715-223-6321
ca@creative-automation.com FAX: 715-223-4524

March 27, 2006

Chuck Maiwurm
Contour Countertops
5910 Corson Ave. S.
Seattle, WA 98108

Dear Chuck:

I am pleased to quote a Conveying System that will take tops from your Laminating Line and distribute them to your 3 Miter Saws. It will also include a scrap conveyor.

The conveying system will handle tops 16-36 inches wide and 6-12 feet long. The build downs will all be ½-¾ inch thick. Backsplashes will be from 3 to 6 inches high from the top of the top to the top of the backsplash.

The laminating line will be producing 2 tops per minute.

There will be a powered steel roller conveyor at the infeed end of the system to take tops in. The conveyor will be powered with a variable frequency AC drive. Integrated into the roller conveyor will be a pusher which moves each top over against a backstop to reference the top properly for pickup by the vacuum feeder. The pusher is powered with an air motor. Tops can also be introduced into the system on the other end of the conveyor by pushing them onto the powered conveyor from ~~customer~~ (Creative Automation) supplied gravity conveyor.

There will be 3 gravity steel roller conveyors with integrated powered jump rollers, one in front of each miter saw. The vacuum feeder sets a top down onto a conveyor and the powered jump section goes up to move the top toward the miter saw. The top will be positioned so that approximately 12 inches of it sticks out. The jump section will go down and the top will be sitting on the gravity rollers. The miter saw operator can then grab the end of the top and pull it towards him when he needs another top. The jump section rollers will be powered by a fixed AC drive.

In between the conveyors there will be supports to store tops on. These 3 queue areas will have a total of 17 zones, each zone approximately 31 inches wide. At each zone there will be sensors to positively identify if a zone has a top in it or if there is a wide top present that covers 2 zones.

Over the top of the conveyors and the queue areas there will be an automatic vacuum cup feeder to automatically distribute tops to the miter saw and queue locations. It will lift the top just high enough to convey it crosswise over other tops. The vacuum cups will be mounted on 2 tubes. Venturies will provide the vacuum. The vacuum cups will be moved vertically with a large air cylinder. The vacuum cup carriage will move horizontally with a variable frequency AC drive and will have an encoder for position feedback. There will be an air loaded chain auto tensioner on the horizontal. The horizontal homing sequence will be such that the chain can stretch over time and the accuracy of top placement will not be affected.

There will be switches to activate any or all of the miter saw locations. The software will be written to balance the flow of tops conveyed to the miter saws that are activated. The system will approximate a first in/first out flow.

There will be a 40 inch wide belt scrap conveyor approximately 39 feet long. It will run at approximately 10 feet per minute. This conveyor will be located just above the conveyors and queue areas and will be convenient for the miter saw operators to place scrap on. The scrap can be conveyed into a customer supplied dumpster or hog.

Safety fence will be provided around the area that the vacuum cup feeder travels.

The electrical control system will include:

NEMA 12 enclosure
Fused disconnect for 460V, 3 phase
Appropriate variable frequency AC drives and magnetic starters
Emergency stop safety module and master control relays
120 VAC control transformer
24 VDC power supply
24 VDC inputs and outputs
Allen-Bradley 5/03 programmable controller
Modem (Customer to provide a clean telephone line)
Appropriate switches for automatic and manual operation
We will interlock the conveying system with the laminating line

Also we will provide a 19 foot long powered steel roller conveyor to fill the space that is designated for a future end trim saw. This conveyor will be powered with a variable frequency AC drive.

Price: $201,980.00 fob Seattle, WA

This quotation includes our company providing two people for 3 – 9 hour days of supervision for the installation and training of personnel at your plant.

Terms: 25% with order
75% to be negotiated

The purchase price does not include any federal, state, or local taxes which may apply to this purchase.

This quotation is valid for 30 days.

Yours truly,

CREATIVE AUTOMATION, INC.

Thomas E Streckert

Thomas E. Streckert
President

TES/mts

QTY	PART NO.	DESCRIP PRICE EACH		
5	313-2	Littelfuse glass fuse	1.08	5.40
5	313-3	Littelfuse glass fuse	1.08	5.40
5	313-5	Littelfuse glass fuse	1.08	5.40
5	313-10	Littelfuse glass fuse	1.08	5.40
5	326-10	Littelfuse glass fuse	1.62	8.10
10	CCMR-6	Littelfuse class CCMR fuse	6.80	68.00
10	CCMR-8	Littelfuse class CCMR fuse	7.28	72.80
10	CCMR-12	Littelfuse class CCMR fuse	7.28	72.80
10	CCMR-15	Littelfuse class CCMR fuse	7.28	72.80
10	CCMR-20	Littelfuse class CCMR fuse	7.28	72.80
10	CCMR-25	Littelfuse class CCMR fuse	7.28	72.80
3	FRS-R-150	Bussman restrictive fuses	48.09	144.27
3	FRS-R-200	Bussman restrictive fuses	48.09	144.27
1	RY4SUL-AC120V	Idec relay, 120 VAC	14.94	14.94
1	RY42SUL-AC120V	Idec relay-bifurcated, 120 VAC	14.94	14.94
1	RY4SUL-DC24V	Idec relay, 24vdc	14.94	14.94
1	RY42SUL-DC24V	Idec relay-bifurcated, 24vdc	14.94	14.94
1	SY4S-05	Idec relay base	6.93	6.93
2	539159	Festo VTSA Air Valve, single Sol	63.48	126.96
2	539156	Festo VTSA Air Valve, Dbl Sol	85.51	171.02
2	540152	Festo VTSA Regulator	97.04	194.08
2	540168	Festo VTSA Regulator	167.06	334.12
2	543488	Festo VTSA Pressure Gauge	7.21	14.42

SPARE PARTS LIST RECOMMENDED BY CREATIVE AUTOMATION--MARCH 2006

QTY	PART NO.	DESCRIPTION		PRICE EACH	Total
1	716-500-HV-IND12-6-S-K-N	EPC encoder		273.00	273.00
1	LSA1A	Micro Switch limit switch		104.90	104.90
1	LSZ52K	Micro Switch actuator arm		22.44	22.44
1	Bi5-M18E-AP6X-H1141	Turck shielded proximity sensor		48.06	48.06
1	Bi5-M18E-RP6X-H1143	Turck shielded proximity sensor		48.06	48.06
1	BiM-IKM-AP6X2-H1141/S34	Turck cylinder sensor		78.50	78.50
1	RK4.4T-10	Turck shielded cord assembly		19.22	19.22
1	WK4.4T-10	Turck shielded cord assembly		19.22	19.22
1	RKC8T-18/S618	Turck Cordset (for Encoder)		52.70	52.70
1	FS4.5-0.5/14.5	Turck Adaptor	est	15.00	15.00
1	SM312DQD	Banner mini beam scanner		87.48	87.48
1	SM312CVQD	Banner mini beam scanner		93.96	93.96
1	SM312CV2QD	Banner mini beam scanner		93.96	93.96
1	SM312LVQD	Banner mini beam scanner		93.96	93.96
1	SM312FPQD	Banner mini beam scanner		93.96	93.96
1	PIT 46 U	Banner Fiber Optic Leads		37.00	37.00
1	ES-FA-9AA	Banner E-stop safety relay		159.63	159.63
1	100-C12ZJ10	A-B contactor		88.69	88.69
1	193-EA1CB	A-B overload relay		58.18	58.18
1	193-EA1DB	A-B overload relay		58.18	58.18
1	700-CF310D	A-B control relay		52.25	52.25
1	1746-IB16	A-B SLC input module		146.86	146.86
1	1746-OB16	A-B SLC output module		181.46	181.46
1	1746-NO4V	A-B SLC Analog Output		549.40	549.40
1	1746-OW16	A-B SLC output module		203.30	203.30

QTY	PART NO.	DESCRIP PRICE EACH		
10	AX60YE1008W/B	Axiom urethane roller 70mm dia	20.07	200.70
1	KCS 72.24-2D	Perske Arbor Motor, 10hp, 40mm x 3"lg shaft w/ screws(SQ-NJ0500458)	2,178.00	2,178.00
1	KCS 72.24-2D	Perske Arbor Motor, 10hp, 40mm x10"lg shaft w/ screws(SQ-NJ0500458)	2,322.00	2,322.00
1	KCS 71.20-2D	Perske Arbor Motor, 7-1/2hp, 40mm x 3"lg shaft shaft w/ screws(SQ-NJ0500458)	2,010.00	2,010.00
1	CRAU-XDV01	Finzer Roller-drive roller(11401-185)	1,218.00	1,218.00
1	CRAU-X1D01	Finzer Roller-Idler roller(11401-186)	1,176.00	1,176.00
2	CRAU-XOF01	Finzer Roller-press outfeed roller, cover material FZR-Heat 55(11401-440)	2,304.00	4,608.00
1	CRAU-XWH01	Finzer Roller (11401-251)	150.00	150.00
3	GHT564103	Fannon bulb, 64-5/8, 5000w,480v	195.00	585.00
3	GHT544108	Fannon bulb, 44" lg, 3650w,480v	155.00	465.00
1	Model 775	Black Bros model 775 applicator roller, 5.000 x 7.750 x 56.437-A2050 thread, Dual Durometer coverin	3,744.00	3,744.00
1	Model 775	Black Bros model 775 applicator roller, 6.625 x 7.750 x 56.437–A2172 thread, Single 60 durometer covering	2,748.00	2,748.00
10	797231	IMA complete track pad	29.25	292.50
10	707555	IMA bow clip for track pad	2.09	20.90
2	AG2318-S	Aetna idler sprocket, 18 tooth	13.62	27.24
2	AG-2416	Aetna idler Sprocket, 18 tooth	14.42	28.84
10	1510-3134-GG	Frantz bearing for 2-1/4 x 16ga rollers	3.00	30.00
16	B1.5-43 SIT	Anver Vacuum Cup, 43mm Silicone	10.00	160.00
16	HS-6	Anver Hollow Screw, M6	2.19	35.04
2	VC57-CR	Anver 5 ½" Cup	54.96	109.92
				26,446.04