

**VOLVO HAGERSTOWN PAINTSHOP
ESTIMATED ELECTRICAL LOAD CALCULATIONS**

PANEL #	PANEL DESCRIPTION	VENDOR #	MOTOR #1			MOTOR #2			MOTOR #3			MOTOR #4			MOTOR #5			TOTAL HP LOAD	ADD'L LOAD		CONNECT AMPS	DIV	DEMAND AMPS	REQ'D FUSES	PROCESS CONTROL PANEL			UTILITY ELE BREAKER	ORDER NUMBER	HUB	BIDPACK	COMMENTS	
			HP	FLA	QTY	HP	FLA	QTY	HP	FLA	QTY	HP	FLA	QTY	HP	FLA	QTY		Amps	KW					DISC SIZE	LOCATION	FLOOR						
100																																	
101	Process Control Panel		50	52.0	1	15.0	21.8	1	10.0	15.0	1	1.0	2.1	2				77.0	20		113	75%	85	150	200								
102	Conveyor Control Panel		3	5.2	2	1.5	3.0	3	1.0	2.1	4	0.5	1.1	22				25.5	10		62	100%	62	80	100								
103	Oven Heater																			162	280	75%	210	350	400								
104																																	
105	ASH Heater																		80		140	75%	105	175	200								
106																																	
107	Paint Kitchen																		10														
108	Robot Master																		10														
109	Lighting																		20														
110	Automatic doors		2	3.4	3													6.0			10			20	30								
TOTALS																	108.5	70.0		605.2		461.8											
TOTAL KW LOAD																				503		383											