TYPICAL ELECTRICAL REQUIREMENTS

MOBILE - CON-E-CO LoPro 327SHP Dry Concrete Batch Plant

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It is very important to keep your electric utility company coordinated with your power requirements. The equipment listed below should be combined with other site loads such as area lighting, charging equipment, office HVAC, mixers, etc. If you are using an on site generator, we would be happy to coordinate a more detailed analysis of voltage stabilization and locked rotor amps with the company you select to supply the generator. Transformer sizes listed below assume a 96% eff., an impedence of .035 to calculate voltage drop, the largest motor is Code G, and show standard available size 3 phase transformers.

Setup for 460 Volt operation.

Main Feed System		HP	FLA	CB	Str	Heater	Wire Size Min	Wire Size Normal
1.5	KVA Transformer		3.26					
	Cement 1 Feed A	20.00	24.40	60	#2	B40	8	8
	Cement 1 Feed B	20.00	24.40	60	#2	B40	8	8
	Cement 2 Feed	40.00	47.60	90	#3	CC74.6	6	6
	Cement Batcher	20.00	24.40	60	#2	B40	8	8
	Agg Incline Conv.	20.00	24.40	60	#2	B40	8	8
	Agg Batcher Belt	15.00	17.90	45	#2	B32	10	4
	L. P. Blower	5.00	6.80	15	#0	B10.2	14	10
	Air Compressor	10.00	12.80	30	#1	B22	12	8
	Baghouse Blower	15.00	17.90	45	#2	B32	10	4
	Transfer Blower	7.00	8.00	20	#1	B12.8	14	8
	Conveyor #1	30.00	34.30	80	#3	CC59.4	8	8
	Conveyor #2	30.00	34.30	80	#3	CC59.4	8	8
	Conveyor #3	30.00	34.30	80	#3	CC59.4	8	8
	Conveyor #4	30.00	34.30	80	#3	CC59.4	8	8
If not all motors run concurrently, *Amps not included in total.								
	Total Connected	292.00	349.06					
	+25% of Largest Mot	40.00	11.90				Actual	
	Running Design Load		**360.96**	Running Design			287.58	KVA
	+5 x Largest Motor		238.00					
	Starting Design Load		598.96	Starting Design			477.20	KVA
300	KVA Transf. Volt Drop	5.80%	Starting, and			3.50%	when running.	
500	KVA Transf. Volt Drop	3.48%	Starting, and			2.10%	when running.	