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**Model GPC-140 Plate Grinder**

U.S. Patent No. 4821966



**Modern Process Equipment, Inc.  
Chicago, Illinois**



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## Model GPC-140 Plate Grinder

U.S. Patent No. 4821966

Enclosed is the assembly and parts drawing for the GPC-140 Plate Mill. The operation of this unit is relatively simple, utilizing the 5 HP (1140 RPM) motor as the drive mechanism to an auger feeder and rotating grinding disc, which works against the opposed stationary disc to achieve the grinding of a wide variety of products. The grind distribution is controlled by maintaining the desired clearance between the plates through the use of the thrust bearing and screw adjustment assembly. The control of this adjustment mechanism is achieved via the adjusting knob located on the front of the unit, which has a series of set points on its dial. The movement in the clearance between the grinding plates through this set point range is approximately .038". To change to a higher or lower "mid-point" in the grind range, loosen the knob set screws and rotate (c.w.=finer) the adjusting screw in the middle of the knob to be desired point; thereafter, retighten set screws to secure knob.

**Note: Lock out or disconnect motor prior to attempting work, repair or removal or cover from the unit.**

The front of cover of the grinder may be removed for cleaning and/or plate replacement utilizing the (3) front screwing knobs. The turbo rotor which holds the rotating plate is designed to provide a positive "turbo" action on the product, thereby maximizing throughput as well as minimizing product accumulation within the unit. The rotor assembly is driven by the motor via a special drive bushing which, under normal circumstances, need not be removed. If the removal of the rotor itself is desired, it can either be pulled out by hand or by utilizing the bushing "ejector screws" (No. 20 on dwg. GP-887B) which, when screwed (RH) in, act against the motor shaft to force the rotor unit.

**Note: Prior to operating this unit, ascertain that the (3 phase) drive motor is operating in the clockwise direction (from the motor shaft end).**



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## **Drawings**

GPC-140 Grinder Parts and Assembly  
GP/GPC-140 Elevation General Purpose Grinder  
5-10 HP. Starter/Wiring for GPC-140/GPX Grinder

GP-1256C  
GP-1159C  
EL-1520C

# Model GPC-140 Plate Grinder



ITEM	QTY.	DESCRIPTION
1	1	BURR HOUSING (GP-140)
2	1	ROTOR INSERT
3	1	ROTOR
4	2	GRINDER PLATES
5	1	END CAPS
6	1	SPRINGER RETAINER (OLITE)
7	1	SPRING
8	1	KNOB
9	1	ADJUSTING SCREW
10	1	POINTER
11	1	BUSHING 1-1/8 I.D. 1-3/8 O.D. 3" L.
12	1	BALL BEARING SKF
13	1	DETENT PLATE
14	1	SPRING PLUNGER
15	1	SWP. BEC. 230/460 MC. 3 PH MOTOR
16	1	ADAPTOR PLATE
17	1	STAND
18	1	ELECTRICAL CONTROL
19	1	DIAL DECAL
20	2	BUSHING 5/16-18 SOCKET HEAD ST. SDRF
21	1	ADAPTER
22	1	GATE-DECHAFFING
23	1	CRWT. ROD
24	2	BUSHINGS
25	2	SNAP RINGS
26	1	SHOULDER SCREW
27	1	10-24 SCREW SOCKET HEAD
28	1	CRWT. (C4)
29	1	TRUSS SCREW
30	2	10-24 RD. HD. SCREW
31	3	FLUTED PLASTIC KNOB 3/16-18
32	3	3/16-18 1.7 I.D. 3.5. ALUM. HDG. SDRF
33	1	FLUTED PLASTIC KNOB 1/4-20
34	1	FLOW REDUCER
35	1	SLIDE GATE ASSEMBLY
36	1	125 LBS. HOPPER
37	2	LOCKING SCREWS

SECTION "B-B"

SECTION "A-A"

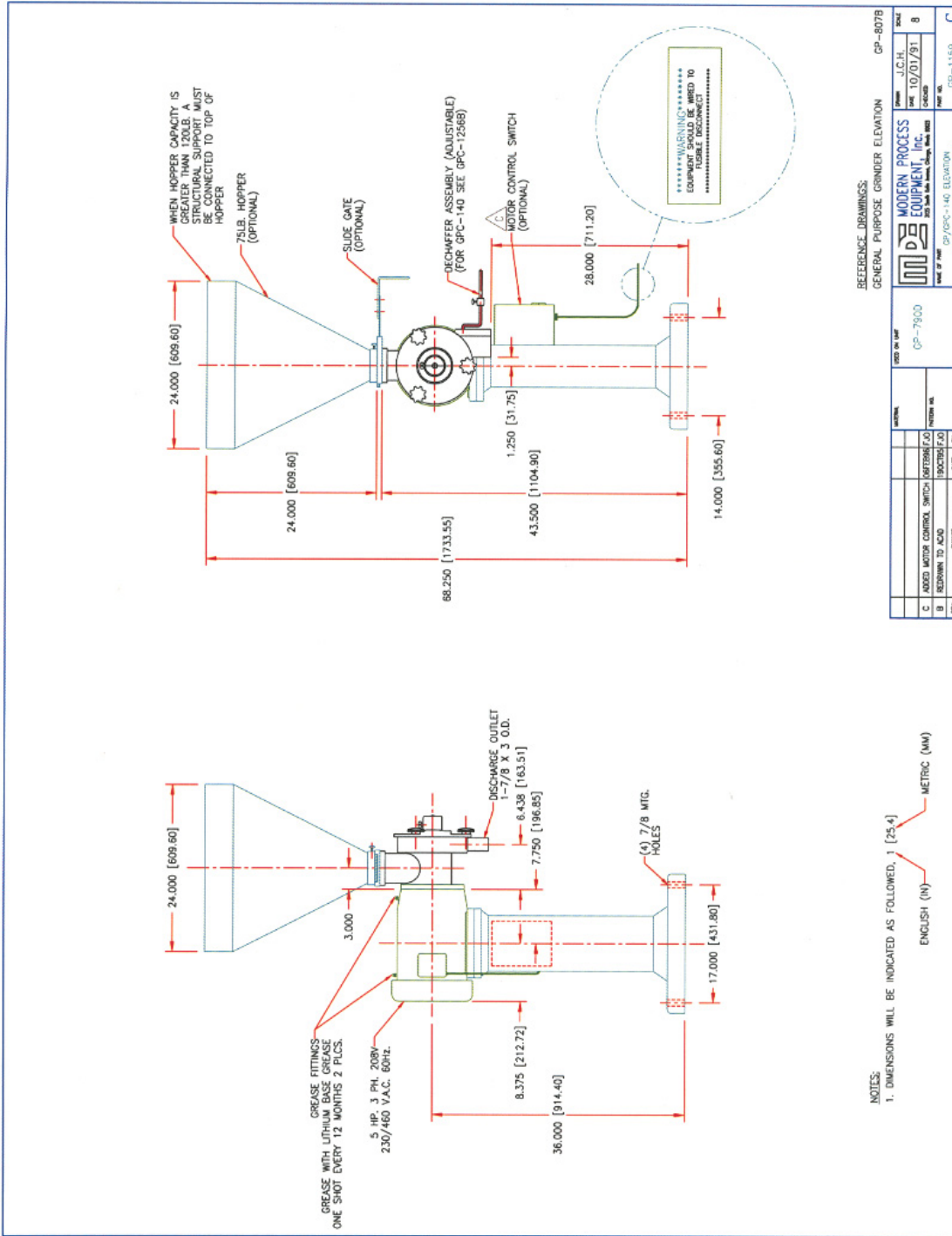
SECTION "A-A"

REV.	DATE	BY	CHKD.	DESCRIPTION
E	02/21/82	J.C.H.		UPDATED MTL. LIST FOR N.C. 215000/1.00
D	02/21/82	J.C.H.		ISSUED PART NO. 34, 35, 36 FOR 215000/1.00
C	02/21/82	J.C.H.		RESPONSE TO A/C/O 215000/1.00
B				
A				

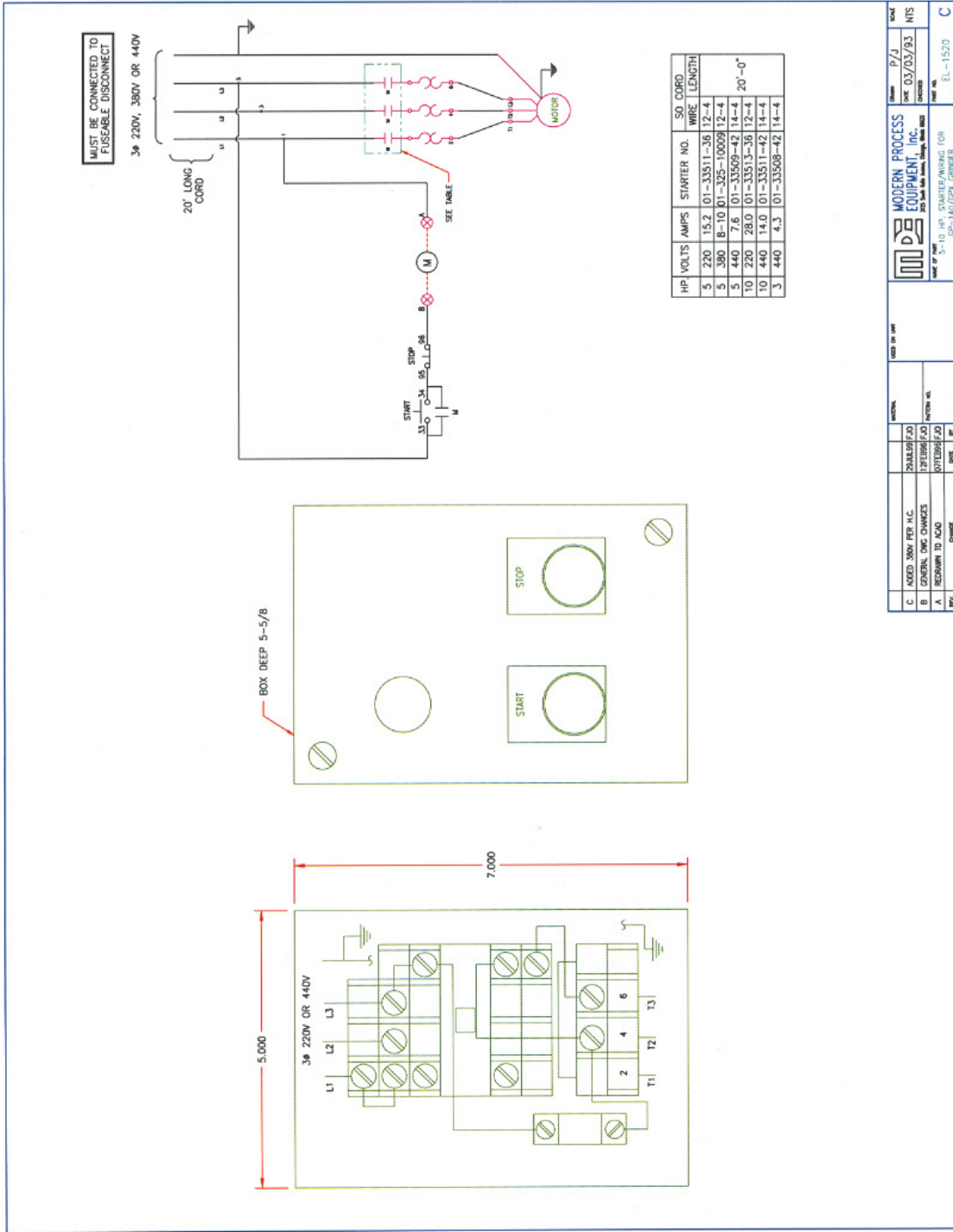
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MODERN PROCESS EQUIPMENT, INC.  
 GPC-140 GRINDER WITH DECAMETER ASSEMBLY  
 GPC-1256 C

# Model GPC-140 Plate Grinder



# Model GPC-140 Plate Grinder



DATE	03/03/93
DESIGNED BY	MIS
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE OF ORDER	5-10 HP STARTER/WIRING FOR GPC-140/2PT GRINDER
DATE OF DELIVERY	EL-1520

