

Model GPX Precision Disc Style Coffee Grinder



Modern Process Equipment, Inc. Chicago, Illinois

OVERVIEW



The Model GPX Disc Style Coffee Grinder utilizes precision cut "diamond hard" grinding plates to produce up to 400 lb per hour of a full range of coffee grinds. The grinder utilizes a 3 HP (1800 RPM) motor to drive a rotor, which incorporates an auger feeder and a rotating grinding disc. The rotor also incorporates turbo vanes to maximize throughput and minimize product accumulation within the unit.

The gap between the rotating grinding disc and a stationary grinding disc, which is mounted directly opposite on the grinder housing, determines the type of coffee grind produced. The machine's grind adjustment knob utilizes a screw assembly and thrust bearing to vary the position of the rotor on the motor shaft and, consequently, adjust the gap between the grinding discs. This disc gap variance provides the capability of "dialing in" any one of a full range of coffee grinds, from drip to espresso.

On "American" style coffees, it may be necessary to utilize the dechaffer on your GPX grinder. By utilizing the weight on the dechaffing arm, back pressure is exerted on the coffee being expelled from the grinder, thereby breaking up the "chaff" (broken coffee skin) which is released when the bean is ground. By moving the weight outward on the dechaffing arm, the back pressure and the resulting level of dechaffing is increased. When producing very fine coffees (melitta, espresso, turkish), the dechaffing level should be minimized or, in some cases, eliminated by removing the weight.

OPERATION AND MAINTENANCE

Because of its uncomplicated design, the GPX grinder is relatively simple to operate. Prior to starting the grinder, ensure that the coffee bean control gate is fully closed. To grind coffee, simply start the grinder, fill the hopper with the desired amount of beans, set the dechaffer arm weight, "dial in" the desired grind on the grind adjustment knob, and open the bean control gate. As a starting point, the dechaffer arm weight should be set at 1/2 the arm distance for medium to coarse grinds, and at the bottom of the arm (fully toward the machine) for finer grinds. When the grinding run is complete, close the control gate, lift the dechaffer arm to remove any excess coffee, and shut down the grinder.

To change the grind range on the grind adjustment knob, loosen the knob set screws, rotate the adjusting screw in the middle of the knob (Clockwise=Finer) to the desired point, and retighten the knob set screws.







Don't push down on the dechaffing arm as this may damage the dechaffing gate.



Do lift up the dechaffing arm and lower the coffee bag at the end of grinding. This empties the burr housing.





Video on how to use and not use a dechaffing gate.





MPE webpage for troubleshooting common GPX issues.





CLEANING THE GPX
How to dean the GPX



How to install a dechaffing gate and add a dechaffing arm.





<u>NOTE</u>

PRIOR TO OPERATING THIS UNIT, ASCERTAIN THAT THE (3 PHASE) DRIVE MOTOR IS OPERATING IN A CLOCKWISE DIRECTION (FROM THE MOTOR SHAFT END).

CAUTION!

LOCK OUT OR DISCONNECT MOTOR PRIOR TO ATTEMPTING WORK, REPAIR OR REMOVAL OF COVER FROM THIS UNIT.

On occasion, the grinder will require disassembly for cleaning and/or grinding disc replacement. To disassemble, remove the front cover after first removing the (3) front cover screw knobs. After the front cover has been removed, the rotor can be pulled out either by hand or by utilizing "ejector screws" on the rotor insert (part #4 on drawing SG-1206-B) which, when screwed in, act against the motor shaft to force the rotor out. Refer to drawing SG-1206-B for further details on the internal construction of the grinder.

Drawings

GPX Store Grinder on Stand	SG-1204B
GPX-B Store Grinder Bench Model	SG-1205B
Model GPX Disc Style Grinder Parts List	SG-1206B
5-10 HP, Starter/Wiring for GP-140/GPX Grinder	EL-1520D
Single Phase 230V Diagram, GPX 3 HP. Starter	EL-1521B
Three Phase Full Voltage, GPX 3 HP. Starter	EL-1522B
Model GPX Disc Style Coffee Grinder With Parts List	SG-2520C















- 2. BALLOONS MARKED WITH \square ARE INCLUDED WITH 5-SG-12255. 3. BALLOONS MARKED WITH \bigcirc ARE INCLUDED WITH 5-SG-12253.
- 1. REFERENCE DRAWING 5-SG-02520

NOTES:

USTOMER PROJECT NO. USED ON UNIT ЦЦ GPX **PH** +1(773)254-3929 **FX** +1(773)254-3935 MATERIAL TITLE REV DATE ΒY COFFEE GRINDER SPARE PARTS LIST CHANGE







ITEM QTY

ITEM QTY

8 1

1

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PART #

MOT-1272

MOT-1291

MOT-1354

1 5-SG-01353-02

34 1 5-SG-04310-2

PART #

MOTORS

HOPPERS

1 3-SG-04311-02 TRANSITION - HOPPER 50LB SS

(30)

FRAME

182TCZ

184TCZ

182TCZ

TRANSITION - HOPPER 8LB SS

TRANSITION - HOPPER 25LB SS

VOLTS

DESCRIPTION

208/230/460 3

220

380 3

HP RPM

3 1725

3 1725

3 1425

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	PHASE	HZ	
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ΞМ	QTY	PART#	DESCRIPTION
1	1	3-SG-00855	BURR HOUSING (56C FRAME)
2	1	3-SG-00856	END CAP
_	1	5-SG-12263	ROTOR W/ BUSHING & INSERT
5	1	5-SG-12912	TURKISH ROTOR W/ BUSHING & INSERT
4	1	3-SG-00858	ROTOR INSERT
5	1	MEC-1656	SPRING
3	1	3-SG-00891	ADJUSTING SCREW
	1	5-SG-12342	GRINDING BURS
7	1	5-SG-12478	TURKISH GRINDING BURS
3	1	_	MOTOR (SEE CHART TO THE LEFT)
9	1	MEC-1055	BALL BEARING SKF 6203 2RS
0		1150 4000	BUSHING – SINTERED BEARING 1"ID x 1–1/8" OD x
	1	MEC-1862	2-1/2"
1	1	HAR-1708	THRUST WASHER - 1" x 2" x 1/8" THK
2	1	HAR-1802	DETENT PLATE
3	1	HAR-1800	SPRING PLUNGER SSS-59-N
4	4	HAR-1801	4 PRONG HANDLE/PLASTIC KNOBS
5	1	HAR-1803	4 PRONG FLUTED PLASTIC KNOBS
6	1	3-SG-01419	DIAL INDICATOR KNOB
7	1	HAR-1703	1/4"-20 x 1/2" HEX BOLT
8	-	-	-
9	1	3-SG-11487	DISCHARGE SPOUT
0	1	3-SG-11488	Ø3/8 CRR CTWT ROD
!1	1	3-SG-11511	Ø3/4 x 13/32 ID x 1 CTWT
2	1	3-SG-11490	GATE – FOR DECHAFFER
3	2	MEC-1579	RETAINING RING
4	2	MEC-1580	FLANGED BUSHING
5	2	HAR-1154	6–32 x 1/4" PHILLIPS HEAD
6	1	3-SG-11489	GATE KNOCKER
7	1	MEC-1578	BUSHING
8	1	HAR-1155	8–32 x 1/4" SLOT HEAD
9	1	MAT-1005	BROWN FELT
0	1	HAR-1809	ALLIGATOR WIRE CLIP (GROUND)
51	1	3-SG-03133	MANUAL SLIDE GATE
2	4	HAR-1237	1/4"-20 x 1-1/4" BOLT+LOCK WASHER
3	1	HAR-1567	1/4"-20 x 1" THUMB SCREW
4	1	_	HOPPER (SEE CHART TO THE LEFT)
		F	OLLOWING ITEMS ARE NOT SHOWN
_	1	5-SG-12351	CONTAINER - TOTE ASSY. WITHOUT SNOUT
5	1	5-SG-12350	CONTAINER – TOTE ASSY. WITH SNOUT
_	1	3-SG-01625	SNOUT FOR PLASTIC COVER
6	1	3-SG-01625-2	SNOUT FOR PLASTIC COVER - ELONGATED FOR CASTERS
7	3	HAR-2021	CASTER
i8 -	1	ELE-1476	ELECTRICAL – STARTER BOX 3PH, 3HP, 220V, 60HZ
	1	ELE-1582	ELECTRICAL – STARTER BOX 1PH, 3HP, 220V, 60HZ
9	1	HAR-1997	GRATE MAGNET
0	1	3-SG-11516	BAG HOLDER PAN
1	1	5-SG-12255	GPX DECHAFFER ASSEMBLY
2	1	5-SG-12253	DIAL PLATE ASSEMBLY

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MODEL GPX DISC STYLE

3125 S KOLIN AVE, CHICAGO, IL 60623

DATE

CHECKED

PART NO.

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GPX-SP-01

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REVISION

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