

# 5710D Grinder



The 5710D horizontal grinder is the latest design of high production grinders by Peterson. Powered by a Tier IVi Caterpillar C27 engine making 1050hp (783 kW), the 5710D has the power to handle the toughest jobs.

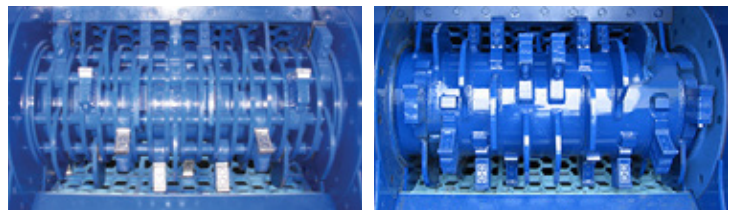
At 88,500 pounds (40,150 kg) the 5710D was designed for operations that require frequent moves between jobs without a special permit. With a feed opening of 60 x 40 inches (152 x 102 mm) combined with Peterson's high lift feed roll; the 5710D can readily reduce a wide range of material including stumps.

The 5710D utilizes Peterson's Impact Release System that can be set in the detent mode to provide consistent product sizing or switched to the floating anvil mode for a primary reduction where accurate sizing is less critical. The floating anvil mode provides a high production primary reduction with more protection from contaminated feedstocks and reduced fuel consumption.

The 5710D's new generation of controls includes Peterson's high production Adaptive Control System and a fully adjustable feed system that can be optimized for a wide range of materials.

The new control panel provides self-diagnostics for faulty sensors and open circuits. The 5710D control panel features a large LCD display that provides the operator with the information needed to efficiently operate the unit. System pressure transducers and remote monitoring capability simplify set up and provide complete engine and system parameters.

The 5710D features a large grate area that enables the 5710D to produce materials to exact specifications. Our quick-change multiple grate system makes it easy to customize grate configurations to produce a wide variety of finished materials. Grates are removed through an enlarged access door on the side wall of the 5710D.



*The 5710D is available with either a pinned or drum rotor*

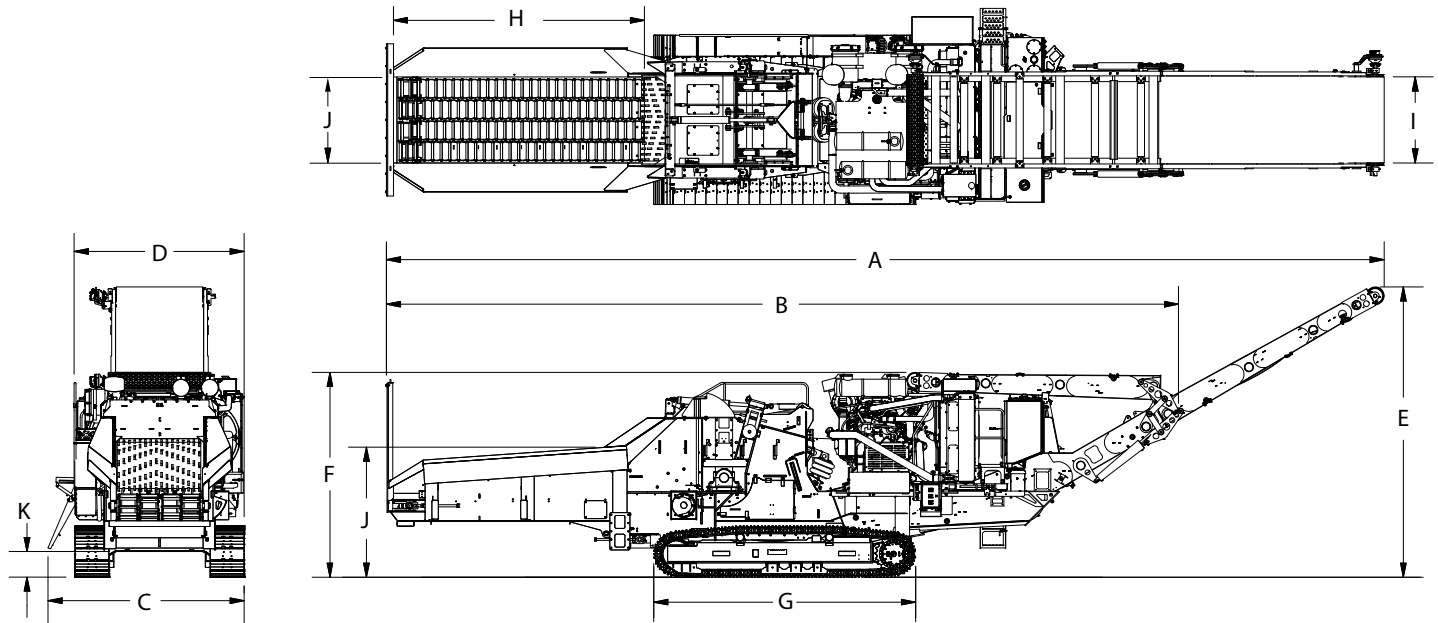
Another major innovation included on the 5710D is Peterson's Impact Cushion System. Urethane cushions allow movement of the compression roll/anvil housing pivot shaft, cushioning impacts due to contaminants in the feed material. Shear pins above the cushion and a sensing circuit that stop the engine help protect the shaft from catastrophic damage in the event of a severe impact.

Since 1981, Peterson has specialized in developing delivery and processing equipment that turns low-grade organic materials into high value products.



**Peterson**  
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# 5710D Horizontal Grinder Specifications



## Dimensions

A—Operating Length	57'-10" (1762 cm)
B—Travel Length	45'-11" (1400 cm)
C—Operating Width	11'-5" (348 cm)
D—Travel Width	9'-10½" (300 cm)
E—Operating Height	16'-10" (513 cm)
F—Travel Height	12'-2" (371 cm)
G—Track Length	15'-2½" (463 cm)
H—Hopper Length	14'-7" (445 cm)
I—Hopper Width	5' (152 cm)
J—Hopper Dump Height	7'-7" (231 cm)
K—Ground Clearance	1'-6" (45 cm)
Weight	approx. 88,500 lbs (40,150 kg), depending on configuration

## Tracks

Ground Clearance	18" (457 mm)
Track Type	Triple Grouser, 23.6 in (60 cm) wide
Ground Pressure	12.5 lbs/in <sup>2</sup> (8507 kg/M <sup>2</sup> )

## Powertrain

Engine	Caterpillar C27 Tier IVi
Horsepower	1050 hp (783 kW)
Clutch	PTech HPT015FX
Fuel Tank Capacity	340 U.S. gal (1287 L)
Main Hydraulic Tank Capacity	98 U.S. gal (371 L)

## Feed System

Total Hopper Capacity	7.0 yd <sup>3</sup> (5.39 m <sup>3</sup> )
Hopper Width	60" (152 cm)
Hopper Length	14'-2½" (433 cm)
Feed Chain	4 sections, full hopper width
Hopper Loading Height	7'-5¾" (228 cm)
Feed Opening (width x height)	60 x 40" (152 x 102 cm)
Ground Clearance	60" (140 cm)
Compression Roll Diameter (tip to tip)	36" (91.4 cm)

## Rotor

Rotor Shaft Size	7 ¾" (187 cm)
Rotor Diameter	40" (102 cm)
Rotor Width	63½" (161 cm)
Bit Size (width x height)	3" X 6½" (7.6 cm X 16.5 cm)
Rotor Speed (STD)	840 rpm @ 2100 rpm (engine)
Number of Bits	20 Drum Rotor, 18 Pinned Rotor

## Grate Data

Number of Grate Sections	4
Total Grate Area	4060 in <sup>2</sup> (26 193 cm <sup>2</sup> )
Grate Coverage	182 degrees
Grate Thickness	1¼" (3.18 cm)

## Discharge System

Discharge Conveyor Width	60" (152 cm)
Conveyor Speed	600, 650, or 700 ft/min (183, 198, or 213 m/min)

## Optional Equipment

Magnetic Pulley
Feed Chain Return Pan
Magnetic Cross Belt Conveyor (Rare Earth or Ceramic)
Discharge Conveyor Long
Dolly with Outriggers, 5th Wheel

## Production – C27 1050hp

Greenwaste	501 yd <sup>3</sup> / 138 US tons (383 m <sup>3</sup> / 125 metric tons) per hour
Scrap Board	591 yd <sup>3</sup> / 90 US tons (452 m <sup>3</sup> / 82 metric tons) per hour
<i>(Actual output may vary due to moisture content, material density, material size, support equipment, and grate size.)</i>	

*Specifications subject to change without notice.*