

PETERSON DRUM CHIPPERS





BUILT TO CONNECT

Astec Industries' Peterson Drum Chippers provide industry-leading chipping solutions for forestry, land clearing and biomass applications.

The Peterson brand was founded in 1981 making industry-changing equipment and has been an integral member of the Astec Industries family since 2007. By aligning all Astec brands, we harness the power of a comprehensive dealer network, expansive parts distribution, and robust service.

Based in Chattanooga, Tennessee, Astec was founded in 1972 with the vision to supply creative thinking and state-of-the-art technologies to Rock to Road industries.

Today Astec manufactures over thousands products worldwide. Astec products include:

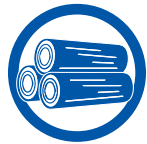
- rock crushing plants
- screening plants
- hot mix asphalt facilities
- concrete plants
- asphalt pavers
- recycling
- forestry solutions
- and more

Astec is committed to placing the customer first. We focus on customer-driven innovation in everything we do. This approach informs how we design, build, and service our products.

As part of Astec Industries we are Built to Connect today, tomorrow, and in the future. This means that our products, services, and solutions connect communities. We design and develop innovative and sustainable industry-leading drum chippers through collaboration, modernization, and teamwork. We are Built to Connect.

STRONG AND EFFICIENT

Every Peterson drum chipper is designed for high-volume biomass production, and we know that durability and reliability are key to every chipping operation. Our years of experience designing heavy-duty machines have created a high-output machine that gives industry leading performance with the reliability and end product quality that your buyers are looking for. We have sweated the small stuff, engineering solutions to high-wear areas, and creating the best throughput of wood through the machine as possible. Peterson drum chippers are the professional's choice.



Biomass



Whole trees



Land Clearing



Right-of-Ways



Orchard Removal



Playground Chips

Peterson drum chippers are commonly used in a variety of applications including biomass chip production, land clearing and right-of-way, orchard removal, whole trees, and playground chip production.

Low-grade in, profit out.

Don't limit your products or your profitability. Turn your raw materials into revenue with the Peterson chipping system that produces the most consistent end products. Peterson chippers feature an adaptive feed system that helps manage the chipping process. Combined with our easy-change tooling system, Peterson chippers can help you maximize your operations.



Microchips

Microchips are very small cut chips. These tiny chips are used primarily in pellet fuel and composite fuel markets.



Biomass

Biomass chips are a fuel chip used for biofuel, pellets, and other types of energy & power applications.



Land Clearing

Land Clearing chips are re-dispersed back into the land, providing sustainable erosion control and putting nutrients back into soil.



QUALITY KNIVES

Astec knows that robust, long-life knives are the key to getting the maximum performance out of your machine. Our knives are the thickest in the industry, and can be re-sharpened and reused, allowing you to make chips for the lowest cost per ton. Peterson drum chippers have more torque, which means more force at each chipper knife. This gives longer knife life and better fuel economy.



Why accurate chip sizing is critical

Astec understands that achieving accurate chip size is critical to the success of your operation. Our knife assembly allows you to easily select the appropriate combination of chipper knife, counter knife, and shim to produce your desired results. Whatever size chip you need, genuine Astec OEM chipper knives and counter knives deliver exceptional results.

OPERATOR EXPERIENCE



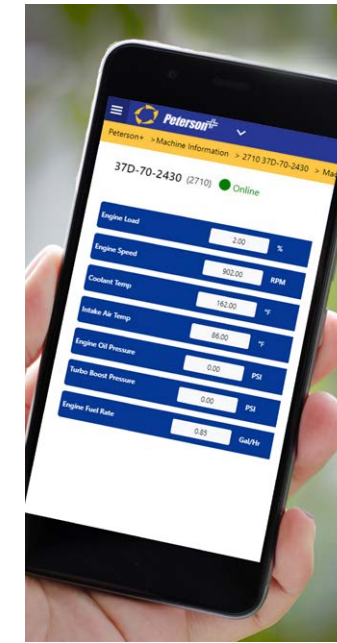
Remote Control

A wireless remote control allows for single-person operation with total control at the press of a button.



Easy Touch Screen

The IQAN control panel has a user-friendly design and allows for fine adjustments for maximum productivity.



Remote Monitoring

The 6300 series drum chippers feature Peterson+ Analytics, including a Wireless Display for operators and off-site analytics.

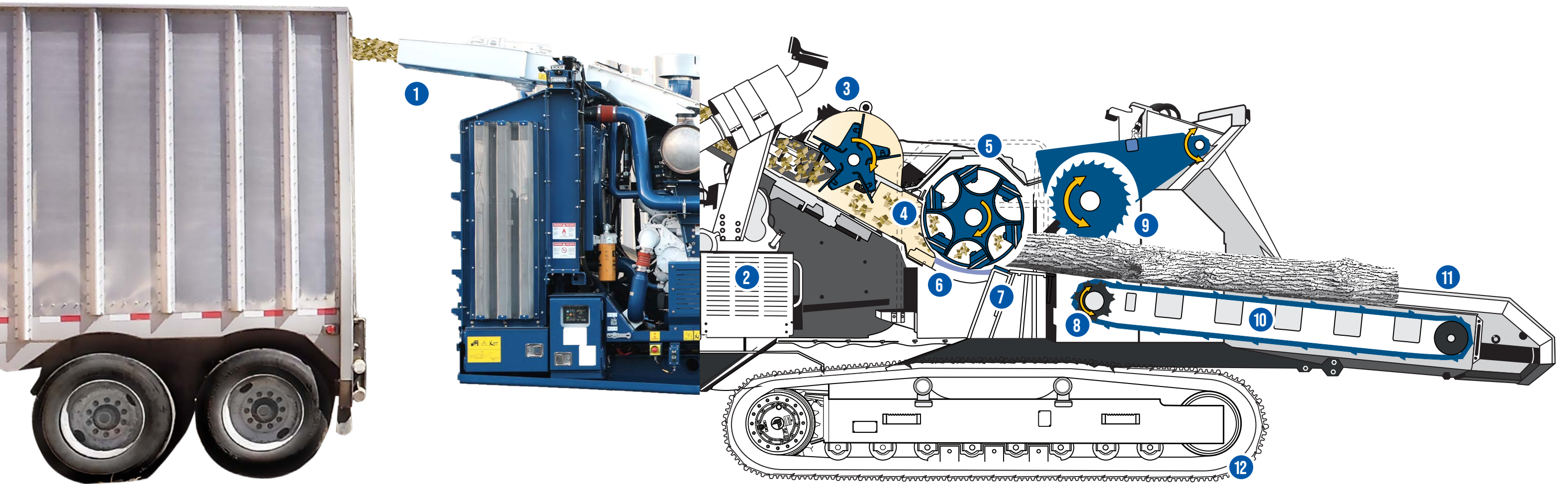


Safety First

Astec builds equipment with safety in mind. The high visibility safety rails provide for a safer job.



KEY FEATURES



1 Load Spouts

All models come standard with an end-load spout, the 4310B and 6310B are available with an optional top-load spout.

2 The Power You Need

Powered by a Caterpillar engine, Peterson drum chippers boast high torque for high volume production.

3 Chip Accelerator

Astec chip accelerators allow for faster load times with more chips in each truck. This discharge system can either add load density or propel chips significantly farther from the machine for land clearing operations.

4 Grate System

Provides ultra-consistent chip sizing; twigs and small stems are easily fractured through our innovative system.

5 Safe, Easy Access

Knives are easy to access on all drum chipper models with our patented safety latch system which prevents the drum from moving during knife changes.

6 Belly Band

Helps eject chips, and can include breaker bars to further assist with sizing for microchips.

7 Anvil

Astec's anvils are made from AR400, for long life and accurate chip sizing.

8 Feed Roll

Large, aggressive feed roll smoothly feeds material into the chipper. The motor keeps the cover pulled tight over the material during transport. This aggressive feed pulley assists in feeding material efficiently for high-volume output.

9 Aggressive Compression Roll

The aggressive compression roll has two-inch high forestry teeth.

10 Feed Chain

Three strands of WHD 120 feed chain, paired with an aggressive feed roll, makes loading easy for all types of material.

11 Sloped Feed Deck

The sloped feed deck minimizes double handling of feed material by the loader.

12 Tracks

Both the 4300 and 6300 series are available in a tracked option. Tracks allow for extra mobility in the yard or forest. The 4310B is also available as a Highwalker giving extra ground clearance for land clearing operations. Tracks are available in double or triple grouser.

LOWEST COST PER TON

Peterson drum chippers offer superior performance and efficiency with the lowest operating costs per ton of chips.

- More torque creates superior fuel efficiency
- Longer knife life reduces downtime from replacing wear parts frequently
- The Chip Accelerator increases load density lowering transportation costs
- The Adaptive Feed speeds reduce engine load and increase fuel efficiency



ADDITIONAL FEATURES



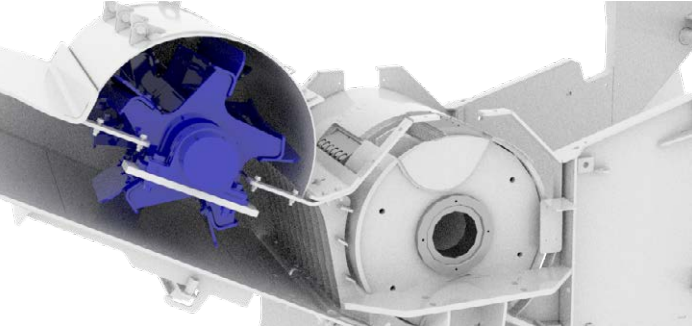
Top Loading Spout

Allows chips to be loaded into open-top chip vans.



End Loading Spout

Allows chips to be loaded into a closed-top chip van or directly onto the ground.



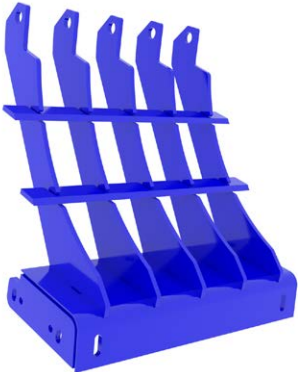
Chip Accelerator

Astec's chip accelerators allow for faster load times with more chips in each truck. Peterson's chip accelerator system can either add load density or propel chips significantly farther from the machine for land clearing operations.



Adaptive Feed

Astec's unique Adaptive Feed is one of the keys to producing ultra-consistent chips. The chipper infeed adjusts its speed to keep a consistent speed ratio with the drum, resulting in a higher quality end product.



Grates

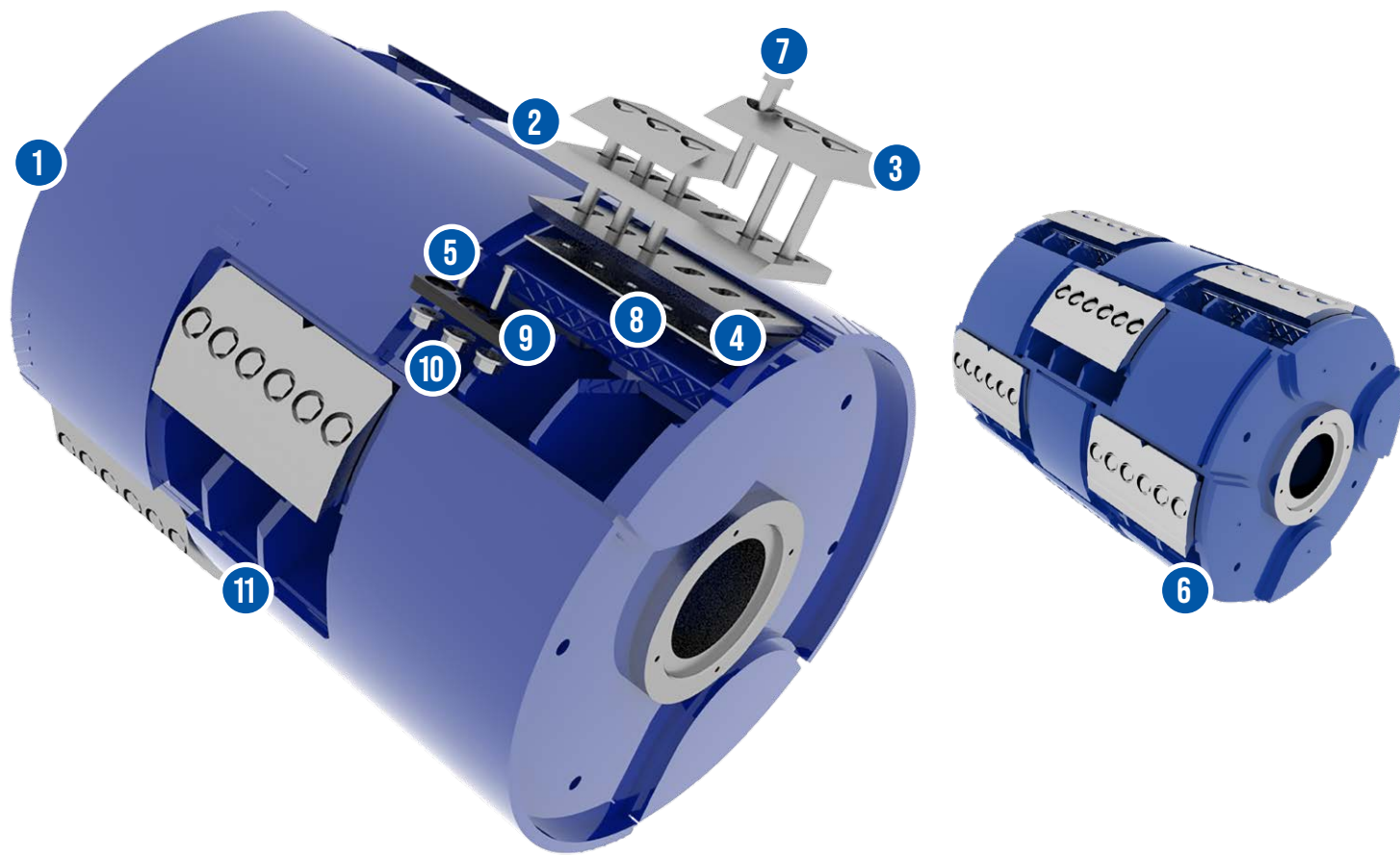
Peterson drum chippers feature a secondary grate providing ultra-consistent chip sizing; twigs and small stems which can be difficult to size are easily fractured through our innovative system.



Adaptive Control System

A large touch-screen display featuring an intuitive interface provides information to make chips more efficiently. The on-screen maintenance information and self-diagnostics features increase your uptime.

ENGINEERED FOR PRODUCTION



1 Chipper Drum

The heart of our chippers is our patented industry-leading drum. Made from long lasting AR400 steel, our drum features many design elements to help improve your bottom line.

2 Chipper Knife

Astec chipper knives offer superior life. Babbitt and Key Knife systems are available. Babbitted knives have 2" of length for sharpening. With the thickest knives in the industry, they are more tolerant to contaminants.

3 Knife Clamp

Our heavy-duty knives and counter knives are held down with a pair of clamps which keep the knife secure in the pocket, eliminate lifting, and ensuring the highest quality chips that your buyers are looking for.

4 Counter Knife

Located behind, and similar in appearance to, the chipper knife. A counter knife cuts the chips into the proper lengths, whereas a chipper knife cuts the chips to proper thickness. Counter knives can be sharpened when worn, or replaced when necessary.

5 Retainer Bolt

Each of our knives is held in place by the heaviest duty hardware in the business. Six bolts securely clamp down each knife, and the nut retainers are easily removed and replaced when they reach the end of their service life—just another way that Peterson chippers are operator and maintenance friendly machines.

6 Microchip Drum

Astec has doubled the knives in both the 4300-series and 6300-series machines to allow you to make precise microchips for biomass production. The microchip drum and other components can be changed back to a standard drum chipper arrangement if your local market demands require it.

7 Clamp Bolts

8 Shim

9 Nut Retainer

10 Flange Nut

11 Breaker Bar



MODELS



4300B Wheeled

Details	Spec
Standard Diesel Engine	CAT C18 Tier IV, 755 hp (563 kW)
Feed Opening (width x height)	40" x 24" (103 x 61 cm)
Knife Pockets	6 or 12 (staggered)
Knife System	Babbitt or Key Knife
Chip Length	¼" to 1¼" (6 to 32 mm)
Production*	60 to 120 tons (59 to 109 tonnes)

Dimensions & Weights

Height	12' (367 cm)
Length	36' 1" (110 m)
Machine Weight	52,000 lbs (23 586 kg)
Ground Clearance	1' 1" (33 cm)



4310B Tracked

Details	Spec
Standard Diesel Engine	CAT C18 Tier IV, 755 hp (563 kW)
Feed Opening (width x height)	40" x 24" (103 x 61 cm)
Knife Pockets	6 or 12 (staggered)
Knife System	Babbitt or Key Knife
Chip Length	¼" to 1¼" (6 to 32 mm)
Production (per hour)	60 to 120 tons (59 to 109 tonnes)

Dimensions & Weights

Height	11' 7" (354 cm)
Length	30' 5" (928 cm)
Machine Weight	58,500 lbs (26 535 kg)
Ground Clearance	2' 4" (71 cm)



6300B Wheeled

Details	Spec
Standard Diesel Engine	CAT C27 Tier IV, 1050 hp (772 kW)
Feed Opening (width x height)	57" x 36" (145 x 91 cm)
Knife Pockets	8 or 16 (staggered)
Knife System	Babbitt or Key Knife
Chip Length	¼" to 1½" (6 to 38 mm)
Production*	up to 250 tons (227 tonnes)

Dimensions & Weights

Height	12' 6" (381 cm)
Length	42' 4" (1290 cm)
Machine Weight	85,000 lbs (38 555 kg)
Ground Clearance	1' 1" (33 cm)



6310B Tracked

Details	Spec
Standard Diesel Engine	CAT C27 Tier IV, 1050 hp (772 kW)
Feed Opening (width x height)	57" x 36" (145 x 91 cm)
Knife Pockets	8 or 16 (staggered)
Knife System	Babbitt or Key Knife
Chip Length	¼" to 1½" (6 to 38 mm)
Production*	up to 250 tons (227 tonnes)

Dimensions & Weights

Height	12' (366 cm)
Length	40' 9" (1242 cm)
Machine Weight	86,000 lbs (39 010 kg)
Ground Clearance	2' 6" (76 cm)

4310B Highwalker

If your application includes extreme terrain, the 4310B Highwalker adds 5 inches of height and 5 inches of width over our standard machine, for additional stability and ground clearance. Extra traction comes from double or single track grousers, and is very popular with pipeline and right of way applications.



4310B Tracked Highwalker

Height	12' (366 cm)
Length	30' 5" (928 cm)
Machine Weight	58,500 (26 535 kg)
Ground Clearance	2' 8" (81 cm)

*Actual production output may vary due to moisture content, material density and size, support equipment, and equipment options. Production rates are based on operating 50 minutes per hour.



ASTEC

www.astecindustries.com