SOIL BUILDER

- Advanced Solutions to High Residue Problems
- Even Residue Distribution to Enhance Water Intake and Air Exchange for Decomposition
- Preserve Valuable Topsoil from Wind and Water Erosion
- 5 to 13 Shank Rigid Frame Models Available
- 20" Cutting Coulters on 7 ½" Spacing
- Dual Nested Spring Reset Shank Assemblies
- Parabolic-Shaped Chisel Shanks

Brillion™
Farm Equipment
A LANDOLL PRODUCT

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SOIL BUILDER

Soil Builder Model CDA73-1 Shown with Standard Equipment

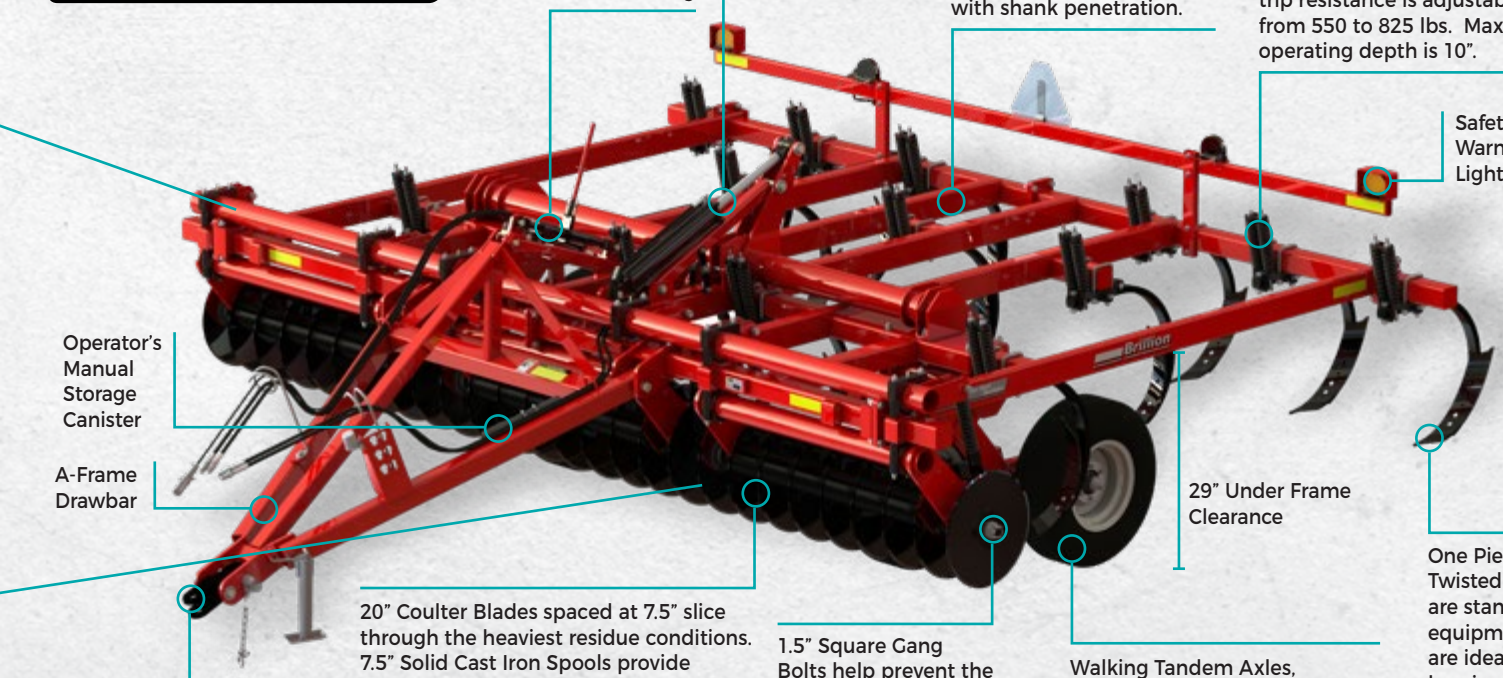
Hydraulic Depth Control on Coulters

The CD Series of Soil Builders were Brillion's original entry into the conservation tillage market. Designed in the early 1970s to be an alternative to the moldboard plow, these models still perform primary tillage operations for many farming operations today. Available in 5 and 7 shank models, the CD Series offers a basic conservation tillage tool for the smaller operators with lower horsepower tractors.

SPECIFICATIONS

	CDA53-1	CDA73-1	HSBA71-1	HSBAW91-1
Approximate Weight	3,204 lbs. (1,453 kg)	4,481 lbs. (2,033 kg)	4,879 lbs. (2,213 kg)	5,574 lbs. (2,528 kg)
Working Width	6 ft. 3 in. (1.91 m)	8 ft. 9 in. (2.67 m)	8 ft. 9 in. (2.67 m)	11 ft. 3 in. (3.43 m)
Transport Width	7 ft. 1 in. (2.16 m)	9 ft. 7 in. (2.92 m)	9 ft. 3 in. (2.82 m)	11 ft. 10 in. (3.61 m)
Transport Height	5 ft. 2 in. (1.58 m)	5 ft. 2 in. (1.58 m)	5 ft. 7 in. (1.70 m)	5 ft. 7 in. (1.70 m)
Overall Length	16 ft. 11 in. (5.16 m)	16 ft. 11 in. (5.16 m)	19 ft. 3 in. (5.87 m)	19 ft. 3 in. (5.87 m)
Number of Coulter Blades	11	15	15	19
Coulter Blade Diameter	20 in. (508 mm)	20 in. (508 mm)	20 in. (508 mm)	20 in. (508 mm)
Coulter Blade Thickness	7 ga.	7 ga.	7 ga.	7 ga.
Coulter Blade Spacing	7.5 in. (191 mm)	7.5 in. (191 mm)	7.5 in. (191 mm)	7.5 in. (191 mm)
Coulter Bearings	Self-Aligning Flange Type	Self-Aligning Flange Type	Self-Aligning Flange Type	Self-Aligning Flange Type
Coulter Protection	Compression Coil Spring	Compression Coil Spring	Compression Coil Spring	Compression Coil Spring
Coulter Gang Bolt	1.5 in. (38 mm) Square	1.5 in. (38 mm) Square	1.5 in. (38 mm) Square	1.5 in. (38 mm) Square
Number of Shanks	5	7	7	9
Shank Mount	Dual Nested Spring	Dual Nested Spring	Dual Nested Spring	Dual Nested Spring
Shank Type	Parabolic	Parabolic	Parabolic	Parabolic
Shank Spacing	15 in. (381 mm)	15 in. (381 mm)	15 in. (381 mm)	15 in. (381 mm)
Shank Working Depth	Maximum of 10 in. (254 mm)	Maximum of 10 in. (254 mm)	Maximum of 10 in. (254 mm)	Maximum of 10 in. (254 mm)
Spring Pressure/Trip Resistance	550 lbs. to 825 lbs. (248 kg to 371 kg)	550 lbs. to 825 lbs. (248 kg to 371 kg)	550 lbs. to 825 lbs. (248 kg to 371 kg)	550 lbs. to 825 lbs. (248 kg to 371 kg)
Chisel Points Available	4 in. (102 mm) Twisted Shovels	4 in. (102 mm) Twisted Shovels	4 in. (102 mm) Twisted Shovels	4 in. (102 mm) Twisted Shovels
Under Frame Clearance	29 in. (737 mm)	29 in. (737 mm)	29 in. (737 mm)	29 in. (737 mm)
Frame Structure	4 in. x 4 in. x .25 in. (102 x 102 x 6.35 mm)	4 in. x 4 in. x .25 in. (102 x 102 x 6.35 mm)	4 in. x 4 in. x .25 in. (102 x 102 x 6.35 mm)	4 in. x 4 in. x .25 in. (102 x 102 x 6.35 mm)
Rockshaft Pivot Bearings	Two Piece Cast Iron	Two Piece Cast Iron	Two Piece Cast Iron	Two Piece Cast Iron
Transport Axle Type	Single Tire	Single Tire	Single Tire	Walking Tandem
Main Frame Cylinders	3 in. x 8 in. (76 x 203 mm)	3 in. x 8 in. (76 x 203 mm)	3.5 in. x 16 in. (89 x 406 mm)	3.5 in. x 16 in. (89 x 406 mm)
Main Frame Cylinder Control	External Depth Stop	External Depth Stop	External Depth Stop	External Depth Stop
Coulter Depth Cylinders	N/A - Manual	N/A - Manual	3 in. x 8 in. (76 x 203 mm)	3 in. x 8 in. (76 x 203 mm)
Coulter Depth Cylinder Control	N/A	N/A	Depth Control Segments	Depth Control Segments
Tires	(2) 9.5L x 15-6 Ply	(2) 11L x 15-8 Ply	(2) 11L x 15-8 Ply	(4) 11L x 15-8 Ply
Hitch Pin Hole Diameter	1.563 in. (40 mm) Flip-Flop Style Hitch	1.563 in. (40 mm) Flip-Flop Style Hitch	1.563 in. (40 mm) Flip-Flop Style Hitch	1.563 in. (40 mm) Flip-Flop Style Hitch
Safety Warning Lights and SMV Emblem	Standard	Standard	Standard	Standard
Safety Chain	Standard	Standard	Standard	Standard
Horsepower Requirements	15 to 20 HP (11 to 15 kW) per Shank	15 to 20 HP (11 to 15 kW) per Shank	15 to 20 HP (11 to 15 kW) per Shank	15 to 20 HP (11 to 15 kW) per Shank
Recommended Operating Speed	5 to 6.5 MPH (8 to 10.5 km/h)	5 to 6.5 MPH (8 to 10.5 km/h)	5 to 6.5 MPH (8 to 10.5 km/h)	5 to 6.5 MPH (8 to 10.5 km/h)

Super Soil Builder Model HSBAW131-1 Shown with Standard Equipment



Ratchet Jack Frame Leveling

Single Point Depth Control

A 4" x 4" square tube weighted frame enhances the cutting capacity for the coulters and helps with shank penetration.

Dual Nested Spring Shanks can trip up to 5.5" when encountering obstacles in the field. Spring pressure/ trip resistance is adjustable from 550 to 825 lbs. Maximum operating depth is 10".

Safety Warning Lights

Operator's Manual Storage Canister

A-Frame Drawbar

29" Under Frame Clearance

One Piece 4" Twisted Shovels are standard equipment and are ideal for burying residue.

20" Coulter Blades spaced at 7.5" slice through the heaviest residue conditions. 7.5" Solid Cast Iron Spools provide weight (45 lbs. each) to cut through the toughest BT corn residue.

1.5" Square Gang Bolts help prevent the coulters from sliding in wet conditions.

Walking Tandem Axles, standard on models designated with a 'W', create a smooth ride in the field and during transport. All other models feature single tire axles.

Flip-Flop Style Hitch

HSBAW111-1	HSBAW131-1
7,523 lbs. (3,412 kg)	8,110 lbs. (3,679 kg)
13 ft. 9 in. (4.19 m)	16 ft. 3 in. (4.95 m)
14 ft. 4 in. (4.37 m)	16 ft. 10 in. (5.13 m)
5 ft. 7 in. (1.70 m)	5 ft. 7 in. (1.70 m)
19 ft. 3 in. (5.87 m)	19 ft. 3 in. (5.87 m)
23	27
20 in. (508 mm)	20 in. (508 mm)
7 ga.	7 ga.
7.5 in. (191 mm)	7.5 in. (191 mm)
Self-Aligning Flange Type	Self-Aligning Flange Type
Compression Coil Spring	Compression Coil Spring
1.5 in. (38 mm) Square	1.5 in. (38 mm) Square
11	13
Dual Nested Spring	Dual Nested Spring
Parabolic	Parabolic
15 in. (381 mm)	15 in. (381 mm)
Maximum of 10 in. (254 mm)	Maximum of 10 in. (254 mm)
550 lbs. to 825 lbs. (248 kg to 371 kg)	550 lbs. to 825 lbs. (248 kg to 371 kg)
4 in. (102 mm) Twisted Shovels	4 in. (102 mm) Twisted Shovels
29 in. (737 mm)	29 in. (737 mm)
4 in. x 4 in. x .25 in. (102 x 102 x 6.35 mm)	4 in. x 4 in. x .25 in. (102 x 102 x 6.35 mm)
Two Piece Cast Iron	Two Piece Cast Iron
Walking Tandem	Walking Tandem
3.5 in. x 16 in. (89 x 406 mm)	3.5 in. x 16 in. (89 x 406 mm)
External Depth Stop	External Depth Stop
3 in. x 8 in. (76 x 203 mm)	3 in. x 8 in. (76 x 203 mm)
Depth Control Segments	Depth Control Segments
(4) 11L x 15-8 Ply	(4) 11L x 15-8 Ply
1.563 in. (40 mm) Flip-Flop Style Hitch	1.563 in. (40 mm) Flip-Flop Style Hitch
Standard	Standard
Standard	Standard
15 to 20 HP (11 to 15 kW) per Shank	15 to 20 HP (11 to 15 kW) per Shank
5 to 6.5 MPH (8 to 10.5 km/h)	5 to 6.5 MPH (8 to 10.5 km/h)

SOIL BUILDER

The consistent performance of the Brillion Soil Builder has allowed its basic conservation tillage concept to stand the test of time. Cutting, sizing and blending the residue into the growth environment while addressing the compaction issues, all define the Soil Builder's objective. The finish of the field and the residue left on the surface provide for optimal erosion control with a single pass.

Conventional tillage practices bury the residue and leave the surface exposed to wind and water erosion. Some traditional tillage operations, like the moldboard plow, actually increase the compaction layers in the soil.

HSB SERIES – SUPER SOIL BUILDER

Increased yields produce higher amounts of residue. Higher amounts of residue require increased capacity to perform tillage operations. The Brillion Super Soil Builder has met this challenge head on. Hydraulic controlled cutting coulters to cut and size the residue start the process. Dual nested spring shanks positioned on a three rank weighted frame maintain true 15" spacing for exceptional trash flow and superior soil movement. The results are a field finish that enhances erosion control and allows for a smooth transition into the next season.

Also available from
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