

SHOVELUTION CYLINDERS



- ✓ JE forged flat-top pistons
- ✓ Make your Shovelhead run like an Evolution

Breathe new life into your tired old Shovel Head, with this Shovelution™ Cylinder kit. This kit gives you the ability to bolt Evolution style heads on your Shovel Head bottom end. These kits are available in the most popular engine sizes, 3.625" and 3.8125 bores and 4.25,4.5,4.625 strokes. So not only do you gain the better breathing of an evo heads, and the lighter flat-top pistons, you gain the cube inches. Axtell also offers custom kits for combinations not listed here. These kits come complete with Axtell Ductile Iron cylinders, JE forged pistons, MLS™ gaskets, moly rings and tool steel wrist pins.

Axtell Sales Shovelution Cylinder Kits

Kit Number	Displacement	Bore x Stroke	Cylinder Length	Piston Type	Comp. Ratio	Finish
208-450	88ci	3.625 x 4.250	5.565	Flat-top	10:1	Wrinkle Black
208-452	96ci	3.625 x 4.625	5.565	Flat-top	10.5:1	Wrinkle Black
208-460	97ci	3.8125 x 4.250	5.565	Flat-top	10:1	Wrinkle Black
208-462	106ci	3.8125 x 4.625	5.565	Flat-top	10.5:1	Wrinkle Black

- Use part #298-XXX (last 3-digits of the kit) to order only the cylinders
- Compression ratios are based on 85cc combustion chambers



SHOVEL/PAN HEAD CYLINDER KITS



(Cylinders before CNC milling)

Axtell Sales' Shovel/Pan head cylinder kits are fully CNC machined out of high-grade ductile iron, the same material used to make Axtell Top Fuel Drag Cylinders. Axtell Sales uses this particular material to ensure years of quality and performance. This high quality material allows our customers to build 3 13/16" bore engines which can't be done with cast iron. Axtell Sales as solved the problem of where to run external oil lines. This NEW Shovel cylinder has drilled and tapped oil returns that run from the stock location in the head to the front of the front cylinder and rear of the rear cylinder for a much cleaner appearance and simpler installation.



(Complete Kit)



608-000

**New from Axtell Sales
Painless external drains**

SHOVEL / PANHEAD

** All Axtell cylinder kits include ductile iron cylinders, JE forged pistons, moly rings, wrist pins, buttons, head gaskets, base studs, base nuts, and head bolts

Part Number	Displacement	Bore x Stroke	Cylinder Length	Piston Type	Comp. Ratio	Finish
200-550	96 ci	3.625 x 4.625	5.400	Shovel	11:1	Wrinkle Black
200-560	98 ci	3.625 x 4.750	5.463	Shovel	11.3:1	Wrinkle Black
200-600	97 ci	3.8125 x 4.250	5.400	Shovel	10.4:1	Wrinkle Black
200-602	106 ci	3.8125 x 4.625	5.400	Shovel	10.7:1	Wrinkle Black
200-606	108 ci	3.8125 x 4.750	5.463	Shovel	10.8:1	Wrinkle Black

• All compression ratios based on a 135cc chamber





SHOVEL/PANHEAD PISTONS



3.625 ProStreet Stroker Piston

801-730

Axtell Sales' 3 5/8 bore stroker Shovelhead. This is an excellent piston for all stroker shovelheads because of its shorter compression height.



Kit Number	Bore	Comp Height	Dome Type	Dome Volume	C/R	Weight	Moly Rings	Wrist Pins	Buttons
800-730	3.625	1.170	SHOVEL/PAN	56.8cc's	11:1	472g	507-205	545-155B	500-121
800-732	3.635	1.170	SHOVEL/PAN	56.8cc's	11:1	482g	507-206	545-155B	500-121
800-733	3.645	1.170	SHOVEL/PAN	56.8cc's	11:1	479g	507-207	545-155B	500-121
800-734	3.655	1.170	SHOVEL/PAN	56.8cc's	11:1	477g	507-208	545-155B	500-121

- Compression ratios are based on a 135cc combustion chamber with a 4.625" stroke and .060" head protrusion

3.8125 ProStreet Series Piston

801-736

Axtell Sales' 3 13/16 Shovel/Pan head piston for 4.25" stroke. These are the pistons included in our 97ci kits. These pistons work very well for big power out of a shovelhead



Kit Number	Bore	Comp Height	Dome Type	Dome Volume	C/R	Weight	Moly Rings	Wrist Pins	Buttons
800-736	3.8125	1.295	SHOVEL/PAN	53cc's	10.7:1	548g	542-900 500-3815	545-155B	500-122
800-737	3.8225	1.295	SHOVEL/PAN	53cc's	10.7:1	553g	542-901	545-155B	500-122
800-738	3.8325	1.295	SHOVEL/PAN	53cc's	10.7:1	564g	542-902	545-155B	500-122
800-739	3.8425	1.295	SHOVEL/PAN	53cc's	10.7:1	566g	542-903	545-155B	500-122

- Compression ratios are based on a 135cc combustion chamber with a 4.25" stroke and .040" head protrusion
- All **bold part numbers** are Childs and Albert premium gapless rings



- All Axtell Shovel/Pan piston domes can be machined

*All Part Numbers are for complete kits including pistons, rings, wrist pins, and clips.





SHOVEL/PANHEAD PISTONS



3.8125 ProStreet Stroker Piston

801-749

Axtell Sales' most popular Shovel/Pan head piston. This forged piston works excellent in all stroker applications from 103ci to 120ci.



Kit Number	Bore	Comp Height	Dome Type	Dome Volume	C/R	Weight	Moly Rings	Wrist Pins	Buttons
800-749	3.8125	1.170	SHOVEL/PAN	43.5cc's	10.4:1	516g	542-900 500-3815	545-155B	500-122
800-750	3.8225	1.170	SHOVEL/PAN	43.5cc's	10.4:1	523g	542-901	545-155B	500-122
800-751	3.8325	1.170	SHOVEL/PAN	43.5cc's	10.4:1	528g	542-902	545-155B	500-122
800-752	3.8425	1.170	SHOVEL/PAN	43.5cc's	10.4:1	535g	542-903	545-155B	500-122

- Compression ratios are based on a 135cc combustion chamber with a 4.625" stroke and .050" head protrusion
- All **bold part numbers** are Childs and Albert premium gapless rings

• All Axtell Shovel/Pan piston domes can be machined



JE SHOVEL/PANHEAD PISTONS

Axtell Sales now has available a full line of 3.500" and 3.625" bore pistons for Shovel/Panheads. These JE pistons will raise compression in a stock bore motor. These pistons are stronger, produce higher revving capabilities, and are easy to install. Combine these pistons with Axtell reconditioned cylinders to add new life to your old tired engine.



SHOVEL / PANHEAD

Kit Number	Comp Bore	Dome Height	Moly Type	Wrist C/R	Weight	Rings	Pins	Clips
Shovel/Panhead 80ci Compression Pistons (3.5 x 4.25)								
8JE135846	3.503"	1.295	Shovel	9.5:1	419g	505-109	545-164	501-792
8JE135847	3.508"	1.295	Shovel	9.5:1	421g	05-110	545-164	501-792
8JE135848	3.518"	1.295	Shovel	9.5:1	422g	505-111	545-164	501-792
8JE135849	3.528"	1.295	Shovel	9.5:1	434g	505-112	545-164	501-792
Shovel/Panhead 80ci High Compression Pistons (3.5 x 4.25)								
8JE133443	3.503"	1.295	Shovel	10.5:1	444g	505-109	545-164	501-792
8JE133444	3.508"	1.295	Shovel	10.5:1	448g	505-110	545-164	501-792
8JE133445	3.518"	1.295	Shovel	10.5:1	451g	505-111	545-164	501-792
8JE133446	3.528"	1.295	Shovel	10.5:1	455g	505-112	545-164	501-792
Shovel/Panhead 88ci Pistons (3.625 x 4.25)								
8JE138673	3.625"	1.295	Shovel	10.5:1	456g	507-205	545-164	501-792
8JE138675	3.635"	1.295	Shovel	10.5:1	457g	507-206	545-164	501-792
8JE138676	3.645"	1.295	Shovel	10.5:1	458g	507-207	545-164	501-792

*All Kit Numbers are for complete kits including pistons, rings, wrist pins, and clips.

