



285 West Avenue

Tallmadge, Ohio 44278

Phone: 330.630.1555 • Fax: 330.633.2504  
TrickFlow.com

## Cylinder Heads for Small Block Chevrolet/LT1 Reference Sheet

### Super 23® Series Cylinder Heads for Small Block Chevrolet

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .600" Valve Lift (unless otherwise specified)	Use
Super 23 175	175cc Fast As Cast®	56cc	1.940" intake 1.500" exhaust	245 cfm intake 192 cfm exhaust	<ul style="list-style-type: none"> <li>Ideal for 283-350 cubic inch engines</li> <li>Fast As Cast intake and exhaust runners</li> <li>Delivers great torque and throttle response</li> <li>Capable of supporting 450 horsepower as delivered</li> </ul>
Super 23 195	195cc Fast As Cast®	62cc	2.020" intake 1.600" exhaust	254 cfm intake 190 cfm exhaust	<ul style="list-style-type: none"> <li>Ideal for 302-406 cubic inch street performance engines</li> <li>Fast As Cast intake and exhaust runners</li> <li>Delivers strong midrange horsepower and torque</li> <li>Capable of supporting up to 500 horsepower as delivered</li> </ul>
Super 23 195 with CNC-profiled combustion chambers	195cc Fast As Cast®	64cc or 72cc CNC-profiled	2.020" intake 1.600" exhaust	Intake: 64cc/258 cfm 72cc/249 cfm Exhaust: 64cc/196 cfm 72cc/199 cfm	<ul style="list-style-type: none"> <li>Same as Super 23 195 but with 64cc or 72cc CNC-profiled combustion chambers</li> </ul>
Super 23 215	215cc Fast As Cast®	67cc or 72cc	2.080" intake 1.600" exhaust	287 cfm intake 223 cfm exhaust (@ .700" Valve Lift)	<ul style="list-style-type: none"> <li>Ideal for 350 cubic inch and larger hot street, bracket race, and modified oval track engines</li> <li>Fast As Cast intake and exhaust runners</li> <li>Delivers strong upper rpm horsepower and torque</li> <li>Capable of supporting up to 650 horsepower as delivered</li> </ul>
Super 23 230	230cc CNC-ported	70cc CNC-profiled	2.080" intake 1.600" exhaust	310 cfm intake 240 cfm exhaust (@ .700" Valve Lift)	<ul style="list-style-type: none"> <li>Ideal for maximum performance 383 cubic inch and larger engines</li> <li>Fully CNC-ported intake and exhaust runners plus CNC-profiled combustion chambers</li> <li>Delivers 700+ horsepower as delivered an in excess of 7,000+ rpm</li> </ul>

### Ultra 18® 250 Cylinder Heads for Small Block Chevrolet

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .700" Valve Lift	Use
Ultra 18 250	250cc Fast As Cast®	56cc CNC-profiled	2.150" intake 1.600" exhaust	334 cfm intake 256 cfm exhaust	<ul style="list-style-type: none"> <li>Ideal for maximum effort 358 cubic inch and larger engines in street/strip, bracket racing, and oval track cars</li> <li>Fully CNC-profiled combustion chambers</li> <li>Fast As Cast intake and exhaust runners</li> <li>Capable of supporting 700+ horsepower as delivered</li> </ul>

### GenX® Series Cylinder Heads for GM LT1

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .600" Valve Lift	Use
GenX 185	185cc Fast As Cast®	54cc CNC-profiled	2.020" intake 1.600" exhaust	273 cfm intake 209 cfm exhaust	<ul style="list-style-type: none"> <li>Ideal for stock bore, naturally aspirated LT1 engines</li> <li>21 degree valve angles</li> <li>Fast As Cast intake and exhaust runners</li> <li>Capable of delivering in excess of 500 horsepower as delivered</li> </ul>
GenX 195	195cc Fast As Cast®	62cc	2.020" intake 1.600" exhaust	254 cfm intake 190 cfm exhaust	<ul style="list-style-type: none"> <li>Ideal for engines with forced induction or for maximum performance stroker engines of 383 cubic inches and larger</li> <li>23 degree valve angles</li> <li>Fast As Cast intake and exhaust runners</li> <li>Capable of delivering in excess of 500 horsepower as delivered</li> </ul>



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## Cylinder Heads/Intake Manifold for Big Block Chevrolet Reference Sheet

### PowerOval® 280 Cylinder Heads for Big Block Chevrolet

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .700" Valve Lift	Use
<b>PowerOval 280</b>	280cc Fast As Cast®	113cc	2.190" intake 1.880" exhaust	347 cfm intake 264 cfm exhaust	<ul style="list-style-type: none"> <li>• Ideal for street performance, RV/towing, mild street/strip, and bracket race applications that operate up to 7,000 rpm</li> <li>• Fast As Cast intake and exhaust runners</li> <li>• Delivers tremendous midrange torque for excellent performance in heavy vehicles</li> <li>• Capable of supporting 700+ horsepower as delivered</li> </ul>

### PowerPort® Series Cylinder Heads for Big Block Chevrolet

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .800" Valve Lift	Use
<b>PowerPort 320</b>	320cc Fast As Cast®	122cc	2.250" or 2.300" intake 1.880" exhaust	362 cfm intake 301 cfm exhaust	<ul style="list-style-type: none"> <li>• Perfect for street/strip and bracket race applications</li> <li>• Fast As Cast intake and exhaust runners</li> <li>• Engines under 500 cubic inches require a loose torque converter</li> <li>• Capable of 750 horsepower as delivered</li> </ul>
<b>PowerPort 360</b>	360cc Fast As Cast®	122cc	2.300" intake 1.880" exhaust	390 cfm intake 301 cfm exhaust	<ul style="list-style-type: none"> <li>• Best for use with large cubic inch naturally aspirated stroker combinations, forced induction engines, or with alcohol</li> <li>• Ideal cylinder heads for maximum performance with stock intake port location</li> <li>• Fast As Cast intake and exhaust runners</li> <li>• Requires a loose torque converter or a manual transmission</li> <li>• Capable of 800+ horsepower as delivered in excess of 8,000 rpm</li> </ul>

### R-Series Intake Manifold for Big Block Chevrolet

Product Name	Overall Height	Port Opening	Carburetor Flange	Use
<b>R-Series</b>	6.550"	Rectangular	Holley 4500 Dominator	<ul style="list-style-type: none"> <li>• Best for aggressive street, street/strip, and bracket race applications</li> <li>• Engine size recommendations: 427 cubic inches and larger with alcohol or forced induction; 500 cubic inches and larger naturally aspirated</li> <li>• RPM range: 4,000-8,000+</li> </ul>



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## Cylinder Heads for GM LSX Reference Sheet

### GenX® Series Cylinder Heads for GM LSX

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .600" Valve Lift	Use
<b>GenX 205, 4.8L/5.3L/5.7L (Vortec)</b>	205cc CNC-ported	58cc CNC-profiled	2.000" intake 1.575" exhaust	299 cfm intake 237 cfm exhaust	<ul style="list-style-type: none"> <li>• Ideal for street performance and street/strip 4.8L/5.3L engines</li> <li>• Fully CNC-ported intake and exhaust runners plus CNC-profiled combustion chambers</li> <li>• Capable of supporting up to 600 horsepower as delivered</li> </ul>
<b>GenX 220, LS1</b>	220cc Fast As Cast®	64cc CNC-profiled	2.040" intake 1.575" exhaust	305 cfm intake 233 cfm exhaust	<ul style="list-style-type: none"> <li>• Ideal for naturally aspirated and forced induction street performance and street/strip applications</li> <li>• Fast As Cast intake and exhaust runners</li> <li>• Capable of supporting 550+ horsepower as delivered</li> </ul>
<b>GenX 220, LS2</b>	220cc Fast As Cast®	65cc CNC-profiled	2.055" intake 1.575" exhaust	305 cfm intake 233 cfm exhaust	<ul style="list-style-type: none"> <li>• Ideal for naturally aspirated and forced induction street performance and street/strip applications</li> <li>• Fast As Cast intake and exhaust runners</li> <li>• Capable of supporting 600 horsepower as delivered</li> </ul>
<b>GenX 215, LS1</b>	215cc CNC-ported	64cc CNC-profiled	2.040" intake 1.575" exhaust	320 cfm intake 259 cfm exhaust	<ul style="list-style-type: none"> <li>• Ideal for naturally aspirated and forced induction street performance and street/strip applications</li> <li>• Fully CNC-ported intake and exhaust runners plus CNC-profiled combustion chambers</li> <li>• Capable of supporting 600+ horsepower as delivered</li> </ul>
<b>GenX 225, LS2</b>	225cc CNC-ported	65cc CNC-profiled	2.055" intake 1.575" exhaust	338 cfm intake 259 cfm exhaust	<ul style="list-style-type: none"> <li>• Ideal for naturally aspirated and forced induction street performance and street/strip applications</li> <li>• Fully CNC-ported intake and exhaust runners plus CNC-profiled combustion chambers</li> <li>• 4.000" minimum bore required</li> <li>• Capable of supporting 650+ horsepower as delivered</li> </ul>
<b>GenX 235, LSX</b>	235cc CNC-ported	70cc CNC-profiled	2.080" intake 1.600" exhaust	340 cfm intake 270 cfm exhaust	<ul style="list-style-type: none"> <li>• Ideal for naturally aspirated and forced induction street performance, street/strip, and bracket race applications</li> <li>• Fully CNC-ported intake and exhaust runners plus CNC-profiled combustion chambers</li> <li>• 4.125" minimum bore required</li> <li>• Available with standard and 6-bolt mounting patterns</li> <li>• Capable of supporting 700+ horsepower as delivered</li> </ul>
<b>GenX 245, LSX</b>	245cc CNC-ported	70cc CNC-profiled	2.100" intake 1.600" exhaust	350 cfm intake 274 cfm exhaust	<ul style="list-style-type: none"> <li>• Ideal for naturally aspirated and forced induction street performance, street/strip, and bracket race applications</li> <li>• Fully CNC-ported intake and exhaust runners plus CNC-profiled combustion chambers</li> <li>• 4.125" minimum bore required</li> <li>• 6-bolt mounting pattern for high compression, high boost applications</li> <li>• Capable of supporting 700+ horsepower as delivered</li> </ul>



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## Cylinder Heads for Small Block Ford Reference Sheet

### Twisted Wedge® Series Cylinder Heads for Small Block Ford

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .600" Valve Lift (unless otherwise specified)	Use
<b>Twisted Wedge 170</b>	170cc Fast As Cast®	61cc	2.020" intake 1.600" exhaust	251 cfm intake 193 cfm exhaust	<ul style="list-style-type: none"> <li>• Ideal for street performance and mild bracket race applications</li> <li>• Fast As Cast intake and exhaust runners</li> <li>• Delivers great torque and throttle response</li> <li>• Capable of delivering in excess of 450 horsepower as delivered</li> </ul>
<b>Twisted Wedge 185 and 205</b>	185cc or 205cc CNC-ported	64cc (185) or 65cc (205) CNC-profiled	2.020" intake 1.600" exhaust	Intake: 185cc/301 cfm 205cc/316 cfm Exhaust: 185cc/231 cfm 205cc/231 cfm	<ul style="list-style-type: none"> <li>• Fully CNC-ported version of the Twisted Wedge 170 cylinder heads</li> <li>• Ideal for street/strip, bracket race, and forced induction engines that operate up to 7,000 rpm</li> <li>• Requires the use of high-flowing intake and exhaust systems</li> <li>• Capable of supporting 600+ horsepower as delivered</li> </ul>
<b>Twisted Wedge Track Heat® 170</b>	170cc Fast As Cast®	61cc CNC-profiled	2.020" intake 1.600" exhaust	251 cfm intake 193 cfm exhaust	<ul style="list-style-type: none"> <li>• Same features as Twisted Wedge 170 cylinder heads but with higher rate valve springs, 10° steel locks, and 7/16" rocker arm studs</li> <li>• Perfect for dual purpose street/strip cars</li> <li>• Fast As Cast intake and exhaust runners</li> <li>• Supports camshafts up to .600" lift</li> <li>• Capable of delivering in excess of 450 horsepower as delivered</li> </ul>
<b>Twisted Wedge Track Heat® 190</b>	190cc Fast As Cast®	64cc CNC-profiled	2.020" intake 1.600" exhaust	273 cfm intake 197 cfm exhaust	<ul style="list-style-type: none"> <li>• Ideal for street performance, street/strip, and forced induction engines</li> <li>• Fast As Cast intake and exhaust runners</li> <li>• Capable of supporting 550-600 horsepower as delivered</li> </ul>
<b>Twisted Wedge Track Heat® 185 and 205</b>	185cc or 205cc CNC-ported	64cc (185) or 65cc (205) CNC-profiled	2.020" intake 1.600" exhaust	Intake: 185cc/301 cfm 205cc/316 cfm Exhaust: 185cc/231 cfm 205cc/231 cfm	<ul style="list-style-type: none"> <li>• Same features as Twisted Wedge 185 and 205 cylinder heads but with higher rate valve springs, 10° steel locks, and 7/16" rocker arm studs</li> <li>• Perfect for maximum performance street, street/strip, and bracket race cars</li> <li>• Requires high-flowing intake and exhaust systems; small cubic inch naturally aspirated engines require a loose torque converter</li> <li>• Capable of supporting 650+ horsepower and 7,000 rpm as delivered</li> </ul>
<b>Twisted Wedge Race 206</b>	206cc Fast As Cast®	61cc CNC-profiled	2.080" intake 1.600" exhaust	305 cfm intake 235 cfm exhaust (@ .700" Valve Lift)	<ul style="list-style-type: none"> <li>• Ideal cylinder heads for maximum effort street/strip and bracket race cars</li> <li>• Copper bronze exhaust seats combat extreme combustion chamber temperatures in high boost forced induction engines</li> <li>• Small cubic inch engines require a loose torque converter</li> <li>• Capable of 650 horsepower as delivered</li> </ul>
<b>Twisted Wedge Race 225</b>	225cc CNC-ported	65cc CNC-profiled	2.080" intake 1.600" exhaust	341 cfm intake 271 cfm exhaust (@ .700" Valve Lift)	<ul style="list-style-type: none"> <li>• Fully CNC-ported version of the Twisted Wedge Race 206 cylinder heads</li> <li>• Ideal for maximum effort street/strip and bracket race cars</li> <li>• Copper bronze exhaust seats combat extreme combustion chamber temperatures in high boost forced induction engines</li> <li>• Requires high-flowing intake and exhaust systems; small cubic inch naturally aspirated engines require a loose torque converter</li> <li>• Capable of 700+ horsepower and 7,500 rpm as delivered</li> </ul>



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## Cylinder Heads for Small Block Ford and Ford 4.6L/5.4L 2V Reference Sheet

### High Port® Series Cylinder Heads for Small Block Ford

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .600" Valve Lift	Use
High Port 192	192cc Fast As Cast®	64cc	2.020" intake 1.600" exhaust	267 cfm intake 193 cfm exhaust	<ul style="list-style-type: none"> <li>Ideal for street performance, street/strip, and bracket race applications on both naturally aspirated and forced induction engines</li> <li>One of the best Ford race cylinder heads available</li> <li>Capable of supporting 550 horsepower as delivered</li> </ul>
High Port 225	225cc CNC-ported	58cc or 70cc CNC-profiled	2.080" intake 1.600" exhaust	Intake: 58cc/333 cfm 70cc/335 cfm Exhaust: 58cc/255 cfm 70cc/257 cfm	<ul style="list-style-type: none"> <li>Fully CNC-ported version of the High Port 192 cylinder heads with additional valve spring package options</li> <li>Ideal for maximum effort street/strip and bracket race cars</li> <li>Requires high-flowing intake and exhaust systems; small cubic inch naturally aspirated engines require a loose torque converter</li> <li>Capable of 700 plus horsepower and 7,500 rpm as delivered</li> </ul>

### PowerPort® Billet Cylinder Heads for Small Block Ford

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .600" Valve Lift	Use
PowerPort Billet	290cc*, 295cc*, or 300cc* CNC-ported	52cc* CNC-profiled	2.020** or 2.250** intake 1.590** or 1.600** exhaust	Unavailable due to availability of multiple configurations	<ul style="list-style-type: none"> <li>The ultimate solution for large cubic inch, large power adder Small Block Ford racing engines</li> <li>These fully CNC-ported, 9° billet aluminum heads are available virtually any port size, combustion chamber volume, valve, and valve spring package requested</li> <li>Custom made to customer's specifications; delivery takes 4–6 weeks</li> </ul>

\*NOTE: These specifications are based on popular combinations and are for reference only.  
Please contact a Trick Flow sales representative at 1-330-630-1555 to discuss ordering custom heads to suit your application.

### Twisted Wedge® Series Cylinder Heads for Ford 4.6L/5.4L 2V

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .600" Valve Lift	Use
Twisted Wedge 185	185cc Fast As Cast®	38cc or 44cc CNC-profiled	1.840" intake 1.450" exhaust	252 cfm intake 188 cfm exhaust	<ul style="list-style-type: none"> <li>New cylinder head for Ford 4.6L/5.4L 2V engines</li> <li>Perfect for street performance, street/strip, and mild race applications</li> <li>OE PI-style intake inlets; Fast As Cast intake and exhaust runners</li> <li>Full 3/4 reach spark plugs; replaceable cam bearing journals</li> <li>Accepts all OE-type 2V cams, followers, lash adjusters, and valve covers</li> <li>Capable of 450+ horsepower as delivered</li> </ul>
Twisted Wedge Track Heat® 185	185cc Fast As Cast®	38cc or 44cc CNC-profiled	1.840" intake 1.450" exhaust	252 cfm intake 188 cfm exhaust	<ul style="list-style-type: none"> <li>Same features as Twisted Wedge 185 cylinder heads with 125 lb. rate valve springs for engines with power adders and/or high rpm applications</li> <li>Accepts all Romeo and Windsor valve covers plus most OE Ford front covers</li> <li>Capable of 500+ horsepower as delivered</li> </ul>



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## Cylinder Heads for Ford 351C, 351M/400, and Big Block Ford Reference Sheet

### PowerPort® Cleveland Series Cylinder Heads for Ford 351C, 351M/400

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .600" Valve Lift	Use
<b>PowerPort Cleveland 190</b>	190cc Fast As Cast®	62cc CNC-profiled	2.080" intake 1.600" exhaust	299 cfm intake 232 cfm exhaust	<ul style="list-style-type: none"> <li>New cylinder head for Ford 351C and 351M/400 engines</li> <li>Perfect for street performance, street/strip, and mild bracket race applications</li> <li>Combines factory 351C 2V low- and midrange muscle with 351C 4V high-rpm ability and top-end might</li> <li>With minor machining, these heads can also be used on 302/351W blocks</li> <li>Capable of 550-600 horsepower as delivered</li> </ul>
<b>PowerPort Cleveland 225</b>	225cc CNC-ported	60cc CNC-profiled	2.080" intake 1.600" exhaust	340 cfm intake 240 cfm exhaust	<ul style="list-style-type: none"> <li>Fully CNC-ported version of the PowerPort Cleveland 190 cylinder heads</li> <li>Ideal for maximum performance engines</li> <li>Capable of 650+ horsepower as delivered</li> </ul>

### PowerPort® Series Cylinder Heads for Ford 429/460

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .700" Valve Lift	Use
<b>PowerPort 290</b>	290cc Fast As Cast®	74cc	2.200" intake 1.760" exhaust	350 cfm intake 240 cfm exhaust	<ul style="list-style-type: none"> <li>Awesome OEM replacement cylinder heads ideal for street performance, RV/towing, and street/strip</li> <li>Capable of supporting up to 700 horsepower as delivered</li> </ul>
<b>PowerPort 325</b>	305cc CNC-ported	80cc CNC-profiled	2.200" intake 1.760" exhaust	388 cfm intake 261 cfm exhaust	<ul style="list-style-type: none"> <li>Fully CNC-ported version of the PowerPort 290 cylinder heads</li> <li>Perfect for street/strip and mild bracket racing applications</li> <li>Capable of supporting in excess of 850+ horsepower as delivered</li> </ul>

### PowerPort® A460 Cylinder Heads for Ford 429/460

Product Name	Intake Runner Volume	Combustion Chamber Volume	Valve Sizes	Port Flow @ .800" Valve Lift	Use
<b>PowerPort A460 340</b>	340cc Fast As Cast®	91cc or 83cc	2.300" or 2.350" intake 1.880" exhaust	Intake: 91cc/412 cfm 83cc/423 cfm Exhaust: 91cc/300 cfm 83cc/300 cfm	<ul style="list-style-type: none"> <li>Ideal for maximum performance street, bracket racing, truck pull, and monster truck applications</li> <li>Small cubic inch engines require a loose torque converter</li> <li>Available with standard and 18-bolt mounting patterns</li> <li>Capable of supporting in excess of 850 horsepower as delivered on naturally aspirated engines</li> </ul>
<b>PowerPort A460 355</b>	350cc CNC-ported	85cc CNC-profiled	2.350" intake 1.880" exhaust	451 cfm intake 321 cfm exhaust	<ul style="list-style-type: none"> <li>Fully CNC-ported version of the PowerPort A460 340 cylinder heads</li> <li>Perfect for naturally aspirated and forced induction engines</li> <li>18-bolt mounting pattern</li> <li>Capable of supporting in excess of 1,000+ horsepower as delivered on naturally aspirated and forced induction engines</li> </ul>



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## Intake Manifolds for Big Block Ford Reference Sheet

### Ford 429/460 Intake Manifolds

Product Name	Overall Height	Port Opening	Carburetor Flange	Use
Track Heat® 429/460	6.800"	Ford 429/460, non-Super Cobra Jet	Holley 4150 square bore	<ul style="list-style-type: none"><li>• Aggressive street, street/strip, and bracket race applications</li><li>• RPM range: 3,500-8,000</li></ul>
R-Series A460	8.600"	Trick Flow PowerPort A460 340 and 355	Holley 4500 Dominator	<ul style="list-style-type: none"><li>• Maximum effort street, street/strip, bracket, race, and truck pull applications</li><li>• Small cubic inch engines will require a loose torque converter</li><li>• RPM range: 3,500-8,000</li></ul>
R-Series A460 Tunnel Ram	10.480**	Trick Flow PowerPort A460 340 and 355	Holley 4500 Dominator, single or dual carburetor top covers available	<ul style="list-style-type: none"><li>• Ideal for truck pull, monster truck, dragster, and fast bracket race applications</li><li>• Loose torque converter or manual transmission required for all combinations</li><li>• RPM range: 4,500-8,000</li></ul>

**\*NOTE:** Overall height is measured from the bottom of the manifold to the base of the top cover.