

# Twisted Wedge® and Twisted Wedge Track Heat® 170 Cylinder Heads for Small Block Ford

Improved, updated, enhanced—whatever you want to call it, Trick Flow's legendary Twisted Wedge series cylinder heads are better than ever!

## Improved Design!

The A356-T61 aluminum castings have been redesigned on the exhaust side to improve strength and water jacket integrity for uncompromising durability in street and entry level strip applications.

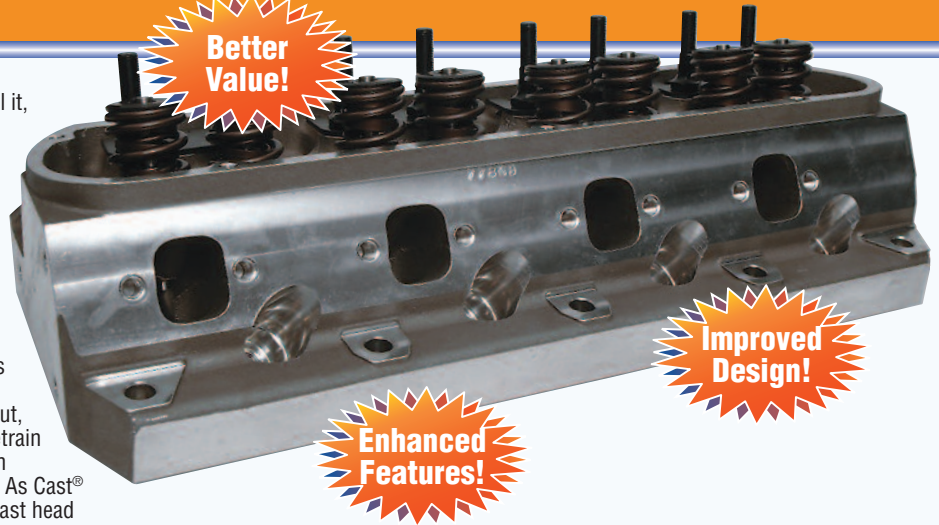
## Enhanced Features!

All of the unique features that make Twisted Wedge series heads so dominant in high performance and racing are still here—Twisted Wedge combustion chambers and valve layout, high-flow/high-velocity intake runners, and top-quality valvetrain components—plus CNC-profiled combustion chambers with port-to-valve seat blending (bowl blending) and refined Fast As Cast® runners that deliver near-CNC-ported power and airflow at cast head prices.

## Better Value!

Continuing the Trick Flow commitment to provide affordable products that exceed expectations for quality, performance, and durability, the new Twisted Wedge 170 heads also feature a lower price! That's right—these updated and better performing heads are a better value than ever and strike the perfect balance between performance and cost.

Cylinder heads are available fully assembled or as bare castings.



### Airflow Results Twisted Wedge 170

Lift Value	Intake Flow CFM	Exhaust Flow CFM
0.100"	63	53
0.200"	141	107
0.300"	205	144
0.400"	233	171
0.500"	251	187
0.600"	251	193

Tests conducted at 28" of water (pressure). Bore size: 4.030" 61cc CNC-profiled combustion chambers; exhaust with 1½" pipe.

### Twisted Wedge 170 Heads, Fast As Cast Runners, Assembled

TFS-51400002-M58	58cc combustion chambers and 1.470" single valve springs, 170cc intake runners
TFS-51400002-M61	61cc combustion chambers and 1.470" single valve springs, 170cc intake runners
TFS-51400004-M58	58cc combustion chambers and 1.460" dual valve springs, 170cc intake runners
TFS-51400004-M61	61cc combustion chambers and 1.460" dual valve springs, 170cc intake runners

### Twisted Wedge Track Heat 170 Heads, Fast As Cast Runners, Assembled

TFS-51400010-M58	58cc combustion chambers and 1.460" dual valve springs, 170cc intake runners
TFS-51400010-M61	61cc combustion chambers and 1.460" dual valve springs, 170cc intake runners

### Trick Flow Fast Fact: Twisted Wedge and Twisted Wedge Track Heat—What's the Difference?

Trick Flow Twisted Wedge and Twisted Wedge Track Heat heads are similar in design but are meant for different uses. Twisted Wedge heads are a performance upgrade for street and entry-level strip engines that may need to meet emissions standards. Twisted Wedge Track Heat heads are for higher performance, non-emissions engines and feature beefier components for increased rpm applications.

#### Twisted Wedge and Twisted Wedge Track Heat Differences

Twisted Wedge 170	Twisted Wedge Track Heat 170
Provisions for emissions components	No emissions provisions
3/8" rocker arm studs	7/16" rocker arm studs
7/16" diameter head bolt holes	1/2" diameter head bolt holes
	High-strength, 10 degree valve locks and retainers

### Specifications

Material:	A356-T61 Aluminum
Combustion Chamber Volume:	M58: 58cc CNC-profiled M61: 61cc CNC-profiled 170cc Fast As Cast
Intake Port Volume:	170cc Fast As Cast
Intake Port Location:	Stock
Intake Port Dimensions:	1.200" x 2.000"
Intake Gaskets:	Fel-Pro 1250
Intake Valve Diameter:	2.020" (TFS-51400211)
Intake Valve Seat:	Ductile iron (TFS-51400273)
Exhaust Port Volume:	66cc Fast As Cast
Exhaust Port Location:	Stock
Exhaust Port Dimensions:	1.250" x 1.500"
Exhaust Gaskets:	Fel-Pro 1415
Exhaust Valve Diameter:	1.600" (TFS-51400212)
Exhaust Valve Seat:	Ductile iron (TFS-51400274)
Valve Angles:	Intake 15°, exhaust 17°
Valve Guide Material:	Bronze alloy (TFS-51400252)
Valve Seals:	Viton® fluorocopolymer (TFS-51400454)
Valve Seat Angles:	37°x 45°x 52°
Valve Spring Pocket Diameter:	1.615"
Valve Spring Cups:	1.480" (TFS-51400434)
Valve Spring Retainers:	7° x 1.500" o.d. chromoly steel (TFS-51400423) 10° x 1.500" o.d. chromoly steel (TFS-21400424) 7° machined steel (TFS-51400444) 10° machined steel with lash cap recess (TFS-52400444)
Valve Stem Locks:	
Valve Springs:	1.470" o.d. single spring with damper (TFS-16514-16) 170 Standard (recommended for flat tappet camshafts) 110 lbs. @ 1.800" installed height 305 lbs. @ 1.260" open 360 lbs. per inch rate .540" maximum valve lift
Valve Springs:	1.460" o.d. dual spring with damper (TFS-16315-16) Optional (recommended for hydraulic roller camshafts) 125 lbs. @ 1.800" installed height 376 lbs. @ 1.180" open 420 lbs. per inch rate .600" maximum valve lift
Guideplates:	5/16" (TFS-51400623) 3/8" (TFS-51400624)
Rocker Arm Studs:	02/04: 3/8" (TFS-51400613) 10: 7/16" (TFS-51400614)
Rocker Arms:	TFS-51400510 (1.6 ratio, 3/8" studs) TFS-51400520 (1.7 ratio, 3/8" studs) TFS-51400511 (1.6 ratio, 7/16" studs) TFS-51400521 (1.7 ratio, 7/16" studs)
Minimum Bore Diameter:	4.000"
Cylinder Head Bolts:	TFS-92005
Head Gaskets:	TFS-51494030-040 or TFS-51494060-040
Pushrod Length:	Longer than stock required
Spark Plugs:	Autolite 3924
NOTES:	Works with stock pistons and performance camshafts up to .550" lift. Valve cover rail is raised .350" over stock height.

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