

# MOPAR / HEMI



Performance specific and durability enhanced, Callies crankshafts for the Big Block Mopar and Gen III Hemi are ready for anything your racing program can throw at them. With years of Mopar experience Callies has created an unsurpassed crankshaft for your Wedge or Hemi type engine.

## Ultra Series for Big Block Mopar Top Fuel, Top Alcohol, Blower Drive

### Standard Features

- Machined from EN30B alloy steel
- Rod journal diameters: 2.375" with large .180" fillet radii
- Main journal diameters: 2.750" or 3.000" with large .150" fillet radii
- RCD Splined post: long 2.340" or short 1.420" spline engagement available
- Sold complete with no drill balance included
- Aeroshed super finishing is standard
- Fully counterweighted with large, bearing saver counterweights
- All rod and main journals drilled for lightening
- PSI / RCD Spline Post Hemi Forged Billet also available



## Mopar Magnum Billet

Average weight for a 4.500" stroke balanced to 2350g Bob. = 69 lbs.

### Available Options & Standard Features

- Center counterweights
- 4330 Steel
- Gun drilled mains
- All Rod Journals Lightened
- Dual Post Keyways
- Stroke availability 4.125" to 5.000"
- 2.200 BB Chevy rod journal dia. & width



## Mopar Magnum Billet

Stroke:	Main:	Pin:	Cammed for Rod Length	Part #
4.150	2.750	2.200	6.700	GE262@-MB
4.250	2.750	2.200	6.700	GEP62@-MB
4.500	2.750	2.200	7.100	GEQ62@-MB

Stroke:	Main:	Pin:	Cammed for Rod Length	Part #
4.625	2.750	2.200	7.100	GER62@-MB
4.750	2.750	2.200	7.100	GES62@-MB
5.000	2.750	2.200	7.100	GEV62@-MB

## Mopar Magnum

Average weight for a 4.500" stroke balanced to 2350g Bob. = 64 lbs.

### Available Options & Standard Features

- Gun drilled mains
- All Rod Journals Lightened
- Dual Post Keyways
- Stroke availability 3.750" to 5.00"
- Heat Treatment = Ultra Case Deep Nitride
- Custom Flange Bolt & Dowel Drilling
- 2.200 BB Chevy dia. & width, 2.375 Mopar rod journal dia. & width



## Mopar Magnum

Stroke:	Main:	Pin:	Cammed for Rod Length	Part #
4.150	2.750	2.200	6.700	GE262J-MP
4.250	2.750	2.200	6.700	GEP62J-MP
4.500	2.750	2.200	7.100	GEQ62J-MP

Stroke:	Main:	Pin:	Cammed for Rod Length	Part #
4.625	2.750	2.200	7.100	GER62J-MP
4.750	2.750	2.200	7.100	GES62J-MP
5.000	2.750	2.200	7.100	GEV62J-MP

## Gen III Ultra Billet Hemi

**Average weight = 60 lbs.**

Standard Features

- Fully (8) Counterweighted design
- Machined from TimkenSteel 4330 Alloy
- Uniquely machined counterweight profile for reduced weight and windage
- Gun drilled mains
- Full internal balance to your specific assembly weight No Drilling (optional)
- All rod journals lightened
- Heat Treatment = Ultra Case Deep Nitride
- Full support pin top for added strength



## Gen III Hemi - 8 Counterweight Magnum

**Average weight = 52 lbs.**

Standard Features

- Stroke range of 2.800" to 4.600"
- Fully counterweight prepped for a minimum 1850g. bob weight
- Dual linear post keyways
- Average weight 47-55 lbs
- Gun drilled mains & lightened rods
- 2.100", 2.000", 1.888", 1.850" rod journal diameters



Compstar Hemi Crankshafts are manufactured from 4340 steel and machined to popular strokes. These shafts will easily increase the power potential of Chrysler 6.4, 6.1, and 5.7 liter engines. Compstar Hemis can be ordered with either 32 or 60-2 reluctor wheels.

## Compstar Gen III Modern Hemi

**Average weight for 4.050" stroke balanced to 1785g**

**Bob. = 57 lbs.**

Standard Features

- Sold prepped for a 1785g. Bob weight
- Gun drilled mains
- All rod journals lightened
- Dual linear post keyways
- Limited stroke availability



## Compstar Gen III Modern Hemi

Stroke:	Main:	Pin:	Cammed for Rod Length	Part #
3.800	2.559	2.100	6.125	YYKE18-CS
4.200	2.559	2.100	6.125	YY12E48-CS

## Compstar 8 Counterweight Hemi

Stroke:	Main:	Pin:	Cammed for Rod Length	Part #
3.800	2.559	2.100	6.125	YYK-E1Q-CS
4.000	2.559	2.100	6.125	YYO-E1Q-CS
4.050	2.559	2.100	6.125	YY*-E1Q-CS
4.080	2.559	2.100	6.125	YYA-E1Q-CS



## Connecting Rods

**Mopar Ultra Enforcer I-Beam** - Rated for 2,000 HP

Length	Journal	Typ. Wt.	Part #
6.200	2.123	764g.	U14345

**Compstar Hemi H-Beam** - Rated for 1,000 HP

Length	Journal	Typ. Wt.	Part #
6.125	2.100	617g.	CSA6125DS2A2AH

## Head Studs for Gen III Hemi - Cast Iron Block

Part #:	Material:	
CPP10625	Patriot Grade	20 M12 & 10 M8
CPP10626	TorqueMaster	20 M12 & 10 M8

## Main Studs for Gen III Hemi - Cast Iron Block

Part #:	Material:
10414	Patriot Grade



OptiTorque	Material Grade	OptiTorque Tensile Strength
Patriot	8740 Chrome Moly	180-220 ksi
TorqueMaster	HSLA 6304	190-240 ksi



## Gen III Main Caps

- Billet 4140 Material
- Fits OEM Cast Iron Blocks
- ID sized for proper boring and honing

## Gen III Main Caps

Part #:	
000-G3HKIT	Main Caps
000-G3HMSTK	Main Caps / Main Stud Combo
000-G3HMHSTK	Main Caps / Main & Head Stud Combo



## M16 Damper Bolt

Part #:
06512335AA



## Gen III Hemi VVT Post Spacer

Part #:
06512335AA
Used in all VVT applications



## Callies Finish Ground Cams

Callies fully finished camshafts are machined and heat treated entirely in house. This continuity of manufacturing allows Callies to deliver high quality camshafts on schedule. Our finished cams are ground with the latest Landis CNC technology. They are ADCOLE and Jenoptik inspected for accuracy, making them the most consistent cams on the market today. If required, your cams can be finished with inverted flank lobe profiles and complex VVT oil channels and drillings.



**Valve Train Group - VTG** is the finish ground series of camshafts manufactured by Callies Performance Products. We offer cams to serve a wide variety of applications for many popular engine platforms.

VTG cams are available in multiple types of aircraft quality materials. Less aggressive profiles fit nicely within our induction hardened 1050 or 4150 materials. 8620 carburized material works well for many racing applications. Tool steel is available for the most extreme applications.

Keeping the valvetrain under control is vital to a successful engine program. Our lobe profiles are designed to produce excellent power without sacrificing durability. They are precision ground in our Landis CNC grinders, with event timing and lobe profile tolerances verified in our Adcole inspection gages. With a long history of superior quality grinding experience, VTG by Callies is the right choice for all of your camshaft needs.

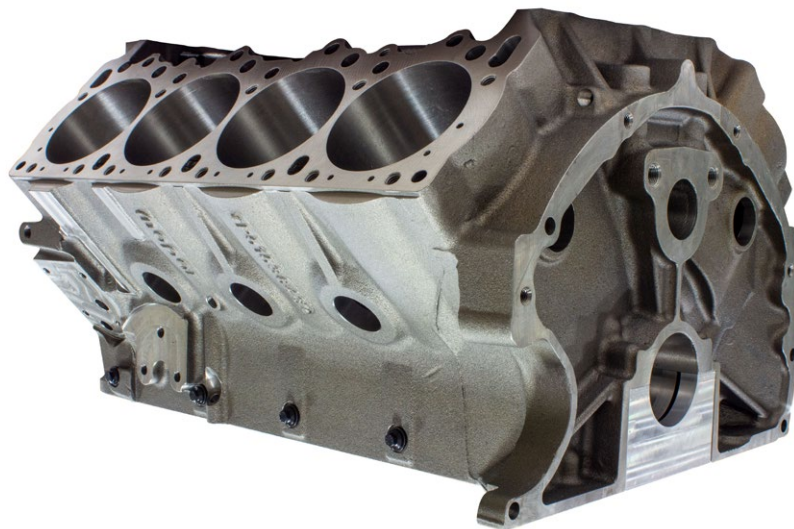
### Callies Finish Ground Cam List - VVT Gen 3 Hemi

Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .006)		Cam Lift		Valve Lift w/1.6 Rocker		LSA + Advance	Lobe Ctr.		Lift @ TDC		Application
		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	
<b>141 - VVT Hemi</b>															<b>VVT Gen 3 Hemi</b>
141-001	HR	232	242	282	292	0.385	0.385	0.616	0.616	116 + 10	106	126	0.084	0.037	Low speed grunt
141-002	HR	236	246	286	296	0.385	0.385	0.616	0.616	118 + 10	108	128	0.084	0.037	Great balance of performance
141-003	HR	240	250	290	300	0.385	0.385	0.616	0.616	120 + 10	110	130	0.084	0.037	More high speed street power
141-004	HR	242	252	292	302	0.390	0.390	0.624	0.624	119 + 10	109	129	0.091	0.042	Street / strip performance
141-005	HR	246	256	296	306	0.390	0.390	0.624	0.624	121 + 10	111	131	0.091	0.042	Big street / strip w/ big displacement engine
141-006	HR	256	260	300	310	0.390	0.390	0.624	0.624	123 + 10	113	133	0.091	0.042	Geared towards racing

# MOPAR / HEMI



**It's back!** Without steady and reliable access to a **Gen II Cast Iron Hemi** in over a decade car enthusiasts and sportsman racer's have been left to scour scrapyards, market places, and garages to create a workable and affordable solution. Our new licensing deal with FCA group will allow you to tap into this legendary platform on demand at an affordable price.



**OFFICIAL  
LICENSED  
PRODUCT**

**HEMI®**

## Gen II Cast Iron Hemi / Wedge Standard Features

- Configurations Available for Order:

Description	Part #
Hemi with 4.495" Semi Finish Bore	P5160208AA
Hemi with 4.245" Semi Finish Bore	P5160210AA
Hemi with 4.245" Semi Finish Bore	P5160211AA
- No lifter bores or pushrod clearance	
Wedge with 4.495" Semi Finish Bore	P5160213AA
Wedge with 4.313" Semi Finish Bore	P5160212AA

**ENERGY**  
MANUFACTURING

- Deck Height(s): Standard Deck: 10.725", Deck Thickness: .600"
- Camshaft: Cam Height: Standard 5.150"
- Camshaft: Housing Bore: Delivered with Standard Stepped Cam Tunnel at finish size. Max Cam Housing Bore Size: 60mm Roller Bearing.
- Cylinder Bore: Max Cylinder Bore Diameter: 4.600"
- Lifter: Lifter Diameter: .905", Lifter Angle: 45 degrees
- Main Cap Fastening: #1-4 Main Cap: (2) 1/2" Vertical Bolts, (2) 3/8" Side Bolts, #5 Main Cap: (2) 1/2" Vertical Bolts
- Delivered with Finish Honed Crankshaft Housing Bore

Included with Block: Block Plug Kit, Camshaft Bearings (Loose), 0.040" Oil Gallery Restrictors (Installed), Rear Oil Seal with Fasteners.

All block part numbers can have cylinder bores finish honed upon request for an additional charge.

Orders for the Gen II Cast Iron Hemi / Wedge Block can be placed by calling Callies Performance Products

**Callies Performance Products** [www.callies.com](http://www.callies.com) **419-435-2711**