## **SMALL BLOCK FORD**



#### Ford 351 / 302 Ultra Billet UB

**Available Options** 

- Stroke range of 2.700" to 4.500"
- Various post keyway configurations available
- Rod journal sizes: 1.850", 1.888", 2.000", 2.100", 2.123"
- Main journal sizes: 302, 351
- 8 or 6 counterweight designs
- · Shipped complete with no drill balance included
- · Aero efficient Ultra-Shed counterweight profiling is standard
- · Aeroshed super finishing included with all Ultra Billets
- Produced from TimkenSteel 4330v alloy steel
- \* Also available in Ultra Boost





### Ford 351 / 302 Ultra UD - Billet Weight range of 39 lb. to 47 lb.

Available Options

- Stroke range of 2.700" to 4.125"
- Rod journal sizes 1.850", 1.888", 2.000", 2.100", 2.123"
- 351 Cleveland or 302 Ford type main diameters
- Optional full internal balance to your specific assembly weight (no drilling)
- Uniquely milled counterweight profiles for reduced weight and windage
- · All rod journals lightened
- Gun drilled mains

#### Ford 351 / 302 Ultra UD - Billet

			Cammed for	
Stroke:	Main:	Pin:	Rod Length	Part #
3.400	302	2.100	5.400	UWJ01@-UD
3.250	302	2.100	5.400	UJE01@-UD
3.500	302	2.100	6.000	EDG01@-UD
3.500	351C	2.100	6.000	EFG71@-UD
3.625	351C	2.100	6.100	EFH71@-UD
3.750	351C	2.000	6.100	EFJ74@-UD
3.750	351C	2.100	6.100	EFJ71@-UD
4.000	351C	2.000	6.200	EFO74@-UD
4.000	351C	2.100	6.200	EFO71@-UD
4.125	351C	2.100	6.200	EFU71@-UD

#### Ford 351 / 302 Ultra UD - Forged

			Cammed for	
Stroke:	Main:	Pin:	Rod Length	Part #
3.400	302	2.100	5.400	UWJ01V-UD
3.250	302	2.100	5.400	UJE01V-UD
3.500	302	2.100	6.000	EDG01V-UD
3.500	351C	2.100	6.000	EFG71V-UD
3.625	351C	2.100	6.100	EFH71V-UD
3.750	351C	2.000	6.100	EFJ74V-UD
3.750	351C	2.100	6.100	EFJ71V-UD
4.000	351C	2.000	6.200	EFO74V-UD
4.000	351C	2.100	6.200	EFO71V-UD
4.125	351C	2.100	6.200	EFU71V-UD

### Ford 351 / 302 Ultra UD - Forged Weight range of 39 lb. to 47 lb.

Available Options

- Stroke range of 2.700" to 4.125"
- Rod journal sizes 1.850", 1.888", 2.000", 2.100", 2.123"
- 351 Cleveland or 302 Ford type main diameters
- Optional full internal balance to your specific assembly weight
- Uniquely milled counterweight profiles for reduced weight and windage
- All rod journals lightened
- Gun drilled mains

\*Only a partial listing of available part numbers listed.

## SMALL BLOCK FORD





#### Ford 351/302 Magnum

Average weight for 3.800" stroke balanced to 1750g Bob. = 48 lbs

Standard Features

- Gun drilled mains
- All rod journals lightened
- Stroke availability from 2.700" to 4.600"
- Heat Treatment = Perma Case Deep Nitride

#### **Special Options**

- · Additional post keyways, custom post drilling
- 2.100", 2.000", 1.888", and 1.825" rod journal diameters
- 351 Cleveland or 302 Ford type main diameters

#### Ford 351/302 Magnum

		•	Cammed for	
Stroke:	Main:	Pin:	Rod Length	Part#
3.500	302	2.100	6.000	EDG01V-MG
3.500	351C	2.100	6.000	EFG71V-MG
3.500	302	2.100	6.000	UJG-01V-MG
3.625	351C	2.100	6.100	EFH71V-MG
3.750	351C	2.100	6.000	EFJ71V-MG
3.900	351C	2.100	6.200	EFC71V-MG
4.000	351C	2.100	6.200	EFO71V-MG
4.125	351C	2.100	6.200	EFU71V-MG
4.250	351C	2.100	6.200	EFP71V-MG
3.250	302	2.123	5.400	UJE0BV-MG
3.400	302	2.123	5.400	UJW0BV-MG
3.750	351C	2.000	6.100	EFJ74V-MG
4.000	351C	2.000	6.200	EFO74V-MG

#### Ford SVO Enforcer I-Beam

Length	Journal	Typ. Wt.	Part #
6.200	2.100	712g.	U14945

#### Ford 351 Ultra I-Beam - Rated for 1,800 HP

Length	Journal	Typ. Wt.		Part #
6.200	2.000	630g.	.866 pin	U14846
6.200	2.100	670g.		U14845
6.250	2.100	671g.		U14850
6.250	2.000	635g.	.866 pin	U14851
6.200	2.000	635g.		U14846-CA
6.200	2.100	670g.		U14845-CA
6.250	2.100	671g.		U14850-CA

#### Ford 302 H-Beam - Rated for 1,500 HP

Length	Journal	Typ. Wt.	Part #
5.400	2.123	575a.	U16600

#### **Compstar Small Block Ford H-Beam**

<u>Length</u>	Journal	Typ. Wt.	Part #
5.400	2.123	571g.	CSF5400HSF2AH





\* Pistons, Bearings and Cam Cores also available.

## SMALL BLOCK FORD



#### **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 - Small Block Ford

Callies Part #	Solid or Hyd	Duration	n @ .050		rtised (@ .020)	Cam	n Lift	Valve Li Roc		LSA + Advance	Lobe	e Ctr.	Lift @	TDC	Application
150 - SBF 55mm		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	Small Block Ford - 55mm Bearing
150-001	SR	263	275	296	308	0.433	0.438	0.693	0.701	108 + 0	108	108	0.125	0.149	Desert Truck
150-002	SR	265	276	294	306	0.450	0.445	0.720	0.712	110 + 0	110	110	0.128	0.147	Desert Truck
152 - Energy SBF 60mm		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	Energy SBF Block - 60mm Bearing
152-004	SR	271	274	300	307	0.522	0.525	0.835	0.840	115.5 + 0	115	116	0.122	0.122	Turbo Cam
152-003	SR	281	284	310	317	0.522	0.525	0.835	0.840	115.5 + 0	115	116	0.144	0.143	Turbo Cam
152-002	SR	285	306	314	339	0.550	0.550	0.880	0.880	116 + 0	112	120	0.170	0.174	Supercharger Cam
152-007	SR	285	312	318	347	0.580	0.560	0.928	0.896	120 + 0	120	120	0.128	0.186	Nitrous Cam
152-006	SR	285	315	318	350	0.580	0.560	0.928	0.896	122 + 0	122	122	0.120	0.181	Nitrous Cam
152-001	SR	285	316	314	349	0.550	0.550	0.880	0.880	120 + 4	116	124	0.150	0.177	Nitrous Cam
152-005	SR	290	324	326	361	0.550	0.575	0.880	0.920	122 + 4	118	126	0.145	0.178	Nitrous Cam



### **BILLET ALUMINUM SBF ENGINE BLOCK**

Energy Manufacturing billet blocks begin life as a 490 pound block of high grade forged 6061 aluminum. Featuring rolled thread tapped holes for extra strength and high strength cylinder liners, careful attention is given to fit and finish of the overall block. Each semi-finished block is thoroughly heat treated to T6 Standards and cryogenically stress relieved.



<u>Deck</u>	Cam Heights	Main Size	Part #
9.750"	+1.273	351C	300-909
10.000"	+1.273	351C	300-906
10.200"	+1.273	351C	300-907

\*Alternate deck heights will require additional charge.



#### SBF Standard Features:

- Deck Height(s): 9.750", 10.000", or 10.200".
- Cylinder Bore Spacing(s): Standard
- Cylinder Bore Sizes: 4.100"-4.150", customer specified
- Cylinder Sleeve Protrusion: 0 to +.008", customer specified
- Cylinder Head Fastening per Deck: 9.750-10.200 Deck: (10) 1/2-13 studs & (4) 3/8-16 studs. Standard Pattern. Optional additional (4) 3/8-16 SC-1 inner bolt holes or (4) Energy splayed inner bolts.
- Cam Height(s): 9.750 10.200: Raised 1.273".
- Cam Bore Sizes: 55mm Babbitt, 55mm Roller/60mm Babbitt, or 60mm Roller. Delivered finish honed.
- Lifter Bore Configuration(s): 9.750 10.200" Decks: Custom, Cam cores in stock.
- Lifter Bore Style(s) & Size(s): Lifter Bore Style(s) & Size(s): 9.750-10.200 Deck: .937 Keyway lifter bushings,
- Crank Bore(s): 351 Cleveland. Delivered finish honed.
- Main Cap Material(s): Billet Aluminum.
- Main Cap Fastening: Raised Cam Height Blocks: (2) 9/16" Doweled Vertical Studs, (2) 1/2" splayed studs.
- Stroke Clearance: 9.750" 10.200" Deck: 4.750" Max
- Supported Timing Drive(s): 9.750-10.200" Deck Jesel Belt Drive, RCD Gear Drive, or Innovator's West Belt Drive.

Additional Information: Priority Main Oiling, Dry Only, Custom lifter and head bolt patterns available upon request. \*Certain options are only available in some configurations. Please call to verify the combination you require is available.



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