



Callies Performance Products has developed some of the most extensive camshaft machining capabilities in North America. In addition to our comprehensive in-house heat treat department we are able to produce and verify any complex contour found on today’s camshafts.

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.

Available Finish Ground Cams - Call our sales team at 419-435-2711 to place your order!

Callies Finish Ground Cam List - Ford 6.0 Powerstroke

Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .006)		Cam Lift		Valve Lift w/1.4 int 1.42 ex Rocker		LSA + Advance	Lobe Ctr.		Lift @ TDC		Application
280 - Ford Powerstroke		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	Hydraulic Roller
280-001	HR	166	180	238	234	0.229	0.232	0.321	0.329	104.5 + 2.5	102	107	0.016	0.015	
280-008	HR	178	196	230	251	0.262	0.261	0.367	0.371	105 + 3	102	108	0.020	0.029	
280-002	HR	180	200	230	253	0.229	0.232	0.321	0.329	107 + 4	103	111	0.020	0.024	
280-003	HR	180	202	232	257	0.252	0.254	0.353	0.361	107.5 + 4	103.5	111.5	0.019	0.028	
280-009	HR	186	204	238	259	0.229	0.232	0.321	0.329	109 + 3	106	112	0.020	0.029	
280-007	HR	198	214	254	288	0.272	0.268	0.381	0.381	108 + 2	106	110	0.029	0.043	
280-004	HR	198	216	254	291	0.275	0.283	0.385	0.402	108 + 2	106	110	0.029	0.045	
280-005	HR	204	222	254	277	0.286	0.285	0.400	0.405	108 + 0	108	108	0.034	0.061	
280-006	SR	244	252	281	289	0.334	0.334	0.468	0.474	110 + 1.5	108.5	111.5	0.087	0.089	Solid Roller - Race Only!

Callies Finish Ground Cam List - 409W Bill Mitchell Block

Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .006)		Cam Lift		Valve Lift w/1.7 Rocker		LSA + Advance	Lobe Ctr.		Lift @ TDC		Application	Specific Remarks
136 - BMP 409W		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	Bill Mitchell 409W Block BBC Bearing	
136-002	HR	228	236	278	285	0.368	0.368	0.626	0.626	112 + 2	110	114	0.062	0.062		Std. Firing Order
136-003	HR	230	236	280	285	0.368	0.368	0.626	0.626	114 + 2	112	116	0.059	0.056		Std. Firing Order
136-004	HR	230	236	280	285	0.368	0.368	0.626	0.626	112 + 2	110	114	0.065	0.062		Std. Firing Order
136-001	HR	236	245	289	305	0.380	0.383	0.646	0.651	114 + 2	112	116	0.068	0.070		Std. Firing Order

Callies Finish Ground Cam List - Big Block Chevy

Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .020)		Cam Lift		Valve Lift w/1.7 Rocker		LSA + Advance	Lobe Ctr.		Lift @ TDC		Application	Specific Remarks
130 - BBC Std. Brng.		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust		
130-001	SR	262	268	293	299	0.430	0.430	0.731	0.731	107 + 0	107	107	0.134	0.143		Std. Firing Order
130-003	SR	281	301	314	334	0.493	0.476	0.838	0.809	113 + 2	111	115	0.156	0.172		4/7 Swap
130-002	SR	287	312	320	350	0.515	0.485	0.876	0.825	115.5 + 2	113.5	117.5	0.159	0.174		4/7 Swap
130 - BBC 55mm Brng.		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust		
130-004	SR	286	312	317	352	0.525	0.510	0.893	0.867	115.5 + 0	115.5	115.5	0.147	0.183		4/7 Swap
130-005	SR	286	317	317	350	0.566	0.535	0.962	0.910	118 + 0	118	118	0.138	0.202		4/7 Swap
130-006	SR	286	312	317	352	0.525	0.510	0.893	0.867	115.5 + 0	115.5	115.5	0.147	0.183		Same as 130-004 except tool steel
130-007	SR	286	317	317	350	0.566	0.535	0.962	0.910	118 + 0	118	118	0.138	0.202		Same as 130-005 except tool steel
131 - BBC 60mm Brng.		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	Symmetrical Port Heads	
131-002	SR	282	310	313	345	0.600	0.580	1.020	0.986	120 + 0	120	120	0.121	0.182		4/7 Swap
131-001	SR	286	312	317	347	0.600	0.580	1.020	0.986	122 + 0	122	122	0.121	0.177		4/7 Swap
133 - 5" BBC 55mm		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust		
133-001	SR	286	317	317	350	0.566	0.535	0.962	0.910	117.5 + 0	117.5	117.5	0.053	0.032		4/7 Swap

Callies Finish Ground Cam List - Duramax

Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .020)		Cam Lift		Valve Lift w/1.36 int 1.69 ex Rocker		LSA + Advance	Lobe Ctr.		Lift @ TDC		Specific Remarks	
270 - Duramax		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust		
270-007	SR	185	187	215	224	0.307	0.250	0.418	0.423	106 + 4	102	110	0.024	0.020	Alternate Firing Order	
270-006	SR	185	187	215	224	0.307	0.250	0.418	0.423	106 + 4	102	110	0.024	0.020	Standard Firing Order	
270-001	SR	185	187	215	224	0.307	0.250	0.418	0.423	108 + 4	104	112	0.024	0.020	Alternate Firing Order	
270-003	SR	185	187	215	224	0.307	0.250	0.418	0.423	108 + 4	104	112	0.024	0.020	Standard Firing Order	
270-002	SR	185	187	215	219	0.346	0.281	0.471	0.475	110 + 4	106	114	0.022	0.014	Alternate Firing Order	
270-008	SR	185	187	215	219	0.346	0.281	0.471	0.475	110 + 4	106	114	0.022	0.014	Alternate Firing Order	
270-004	SR	186	190	215	223	0.300	0.250	0.408	0.423	106 + 2	104	108	0.026	0.030	Alternate Firing Order - VTG	
270-005	SR	190	194	219	227	0.300	0.250	0.408	0.423	108 + 2	106	110	0.026	0.030	Alternate Firing Order - VTG	

Callies Finish Ground Cam List - Ford 7.3 Godzilla

Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .006)		Cam Lift		Valve Lift w/1.8 Rocker		LSA + Advance	Lobe Ctr.		Lift @ TDC		Application	
175 - Ford 7.3 Godzilla		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	Hydraulic Roller	
175-001	HR	220	226	276	282	0.350	0.345	0.630	0.621	115 + 6	109	121	0.053	0.032	Nice turbo cam for stock engine.	
175-002	HR	220	226	276	282	0.350	0.345	0.630	0.621	111 + 6	105	117	0.064	0.040	Great NA cam for stock intake. 600 hp-600 tq RPM range: 2500-6200	
175-008	HR	220	226	276	282	0.350	0.345	0.630	0.621	109 + 5	104	114	0.068	0.047	Same as 175-002, except tighter LSA. Slightly more power, but reduced range. 2800-6200	
175-006	HR	224	230	288	295	0.375	0.376	0.675	0.677	115 + 6	109	121	0.059	0.037	Similar to 175-001, except more lift and duration.	
175-009	HR	230	242	281	291	0.368	0.368	0.662	0.662	111 + 5	106	116	0.079	0.066	Nice NA cam for increased rpm and power in modified engine. 650+ hp. RPM range: 3200-6500	
175-011	HR	230	250	281	299	0.368	0.368	0.662	0.662	111 + 5	106	116	0.079	0.066	175-009 w/ 250 exhaust duration. Gained 15hp above 5000 rpm - lost a little torque down low.	
175-005	HR	232	244	287	296	0.350	0.345	0.630	0.621	115 + 5	110	120	0.068	0.056	Good turbo cam for modified engine.	
175-007	HR	240	250	314	324	0.375	0.375	0.675	0.675	111 + 6	105	117	0.095	0.072	Street / track cam for modified engine. 675+ hp. RPM range: 4000-6800	
175-003	HR	254	264	328	338	0.362	0.362	0.652	0.652	116 + 6	110	122	0.099	0.077	Same as 175-004, except wider LSA. 676 hp - 540 tq.	
175-004	HR	254	264	328	338	0.362	0.362	0.652	0.652	112 + 5	107	117	0.109	0.092	High rpm cam for modified engine with aftermarket intake. 690 hp - 550 tq RPM range: 4500-7300	
175-010	HR	254	264	328	338	0.362	0.362	0.652	0.652	118 + 6	112	124	0.093	0.071	Same as 175-003, except wider LSA. Intended for large centrifugal blower in the 1500 HP range.	

Callies Finish Ground Cam List - Small Block Chevy

Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .020)		Cam Lift		Valve Lift w/1.5 Rocker		LSA + Advance	Lobe Ctr.		Lift @ TDC		Application	Specific Remarks
100 - SBC Std. Brng.		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust		
100-001	SR	276	288	307	319	0.470	0.470	0.705	0.705	115 + 1	114	116	0.129	0.145	Nitrous	LS Firing Order
103 - SBC LW Sprint		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	Lightweight Sprint / Standard Spacing / 55mm Bearing	
103-003	SR	261	264	292	300	0.430	0.434	0.645	0.651	107 + 0	107	107	0.148	0.165	360 Sprint - Narrow lobes	LS Firing Order
103-002	SR	261	265	294	304	0.447	0.450	0.671	0.675	107 + 0	107	107	0.144	0.164	360 Sprint - Narrow lobes	LS Firing Order
103-004	SR	262	265	305	315	0.475	0.478	0.713	0.717	107 + 0	107	107	0.150	0.173	360 Sprint - Narrow lobes	LS Firing Order
103-001	SR	262	268	294	304	0.430	0.430	0.645	0.645	107 + 0	107	107	0.144	0.164	360 Sprint - Narrow lobes	LS Firing Order
103-005	SR	268	270	305	315	0.480	0.491	0.720	0.737	105 + 0	105	105	0.150	0.173	360 Sprint - Narrow lobes	LS Firing Order
104 - SBC LW Sprint		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	Lightweight Sprint / Styers Spacing / 55mm Bearing	
104-001	SR	268	272	297	302	0.480	0.446	0.720	0.669	111.5 + 3.5	108	115	0.145	0.121	410 Sprint - Narrow lobes	LS Firing Order
107 - 4.5 SB 50mm		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	4.500 Spread Bore SBC 50mm Bearing	
107-001	SR	265	277	298	310	0.433	0.438	0.650	0.657	109 + 0	109	109	0.125	0.149		Std. Firing Order
107 - 4.5 SB 55mm		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	4.500 Spread Bore SBC 55mm Bearing	
107-005	SR	264	272	292	300	0.484	0.491	0.726	0.737	106.5 + 0	106.5	106.5	0.148	0.165	Dirt Late Model	LS Firing Order
107-006	SR	266	276	294	304	0.484	0.491	0.726	0.737	108 + 0	108	108	0.144	0.164	Dirt Late Model	LS Firing Order
107-009	SR	276	286	305	315	0.454	0.454	0.681	0.681	110 + 0	110	110	0.150	0.173		LS Firing Order

Callies Finish Ground Cam List - Small Block Ford

Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .020)		Cam Lift		Valve Lift w/1.6 Rocker		LSA + Advance	Lobe 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

Callies Finish Ground Cam List - LS1 3-Bolt

Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .006)		Cam Lift		Valve Lift w/1.7 Rocker		LSA + Advance	Lobe Ctr.		Lift @ TDC		Specific Remarks
180 - LS1 3-Bolt		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	
180-009	HR	210	218	261	266	0.325	0.325	0.553	0.553	108 + 3	105	111	0.085	0.075	VTG Cathedral Port
180-010	HR	214	222	265	270	0.325	0.325	0.553	0.553	110 + 3	107	113	0.085	0.075	VTG Cathedral Port
180-011	HR	218	226	269	274	0.325	0.325	0.553	0.553	112 + 3	109	115	0.085	0.075	VTG Cathedral Port
180-012	HR	222	230	273	278	0.325	0.325	0.553	0.553	114 + 3	111	117	0.085	0.075	VTG Cathedral Port
180-019	HR	216	228	267	277	0.368	0.368	0.626	0.626	108 + 2	106	110	0.092	0.102	VTG Rectangular Port
180-020	HR	220	232	271	281	0.368	0.368	0.626	0.626	110 + 2	108	112	0.092	0.102	VTG Rectangular Port
180-021	HR	224	236	275	285	0.368	0.368	0.626	0.626	112 + 2	110	114	0.092	0.102	VTG Rectangular Port
180-022	HR	228	240	279	289	0.368	0.368	0.626	0.626	114 + 2	112	116	0.092	0.102	VTG Rectangular Port
Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .006)		Cam Lift		Valve Lift w/1.7 Rocker		LSA + Advance	Lobe Ctr.		Lift @ TDC		Specific Remarks
180 - LS1 3-Bolt		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	
180-001	HR	212	218	265	271	0.325	0.325	0.553	0.553	113 + 2	111	115	0.037	0.035	
180-023	HR	214	222	270	278	0.353	0.353	0.600	0.600	111 + 3	108	114	0.047	0.043	
180-002	HR	218	224	271	277	0.325	0.325	0.553	0.553	113 + 3	110	116	0.047	0.039	
180-024	HR	218	230	274	286	0.353	0.353	0.600	0.600	111 + 4	107	115	0.056	0.050	
180-025	HR	222	234	278	290	0.353	0.353	0.600	0.600	112 + 2	110	114	0.053	0.058	
180-014	HR	222	238	273	287	0.368	0.368	0.626	0.626	109 + 4	105	113	0.069	0.069	VTG Rectangular Port
180-003	HR	224	230	277	283	0.325	0.325	0.553	0.553	111 + 2	109	113	0.059	0.056	
180-015	HR	226	242	277	291	0.368	0.368	0.626	0.626	111 + 4	107	115	0.069	0.069	VTG Rectangular Port
180-029	HR	226	246	282	320	0.353	0.360	0.600	0.612	116 + 6	110	122	0.058	0.053	
180-016	HR	230	246	281	295	0.368	0.368	0.626	0.626	113 + 4	109	117	0.069	0.069	VTG Rectangular Port
180-007	HR	232	249	299	323	0.363	0.353	0.617	0.600	120 + 5	115	125	0.055	0.048	
180-026	HR	234	248	301	322	0.362	0.362	0.615	0.615	112 + 4	108	116	0.078	0.071	
180-017	HR	234	250	285	299	0.368	0.368	0.626	0.626	115 + 4	111	119	0.069	0.069	VTG Rectangular Port
180-030	HR	236	250	292	317	0.355	0.362	0.604	0.615	114 + 4	110	118	0.074	0.066	
180-031	HR	236	256	292	330	0.355	0.355	0.604	0.604	117 + 7	110	124	0.074	0.060	
180-018	HR	238	254	289	303	0.368	0.368	0.626	0.626	117 + 4	113	121	0.069	0.069	VTG Rectangular Port
180-032	HR	240	252	307	326	0.360	0.367	0.612	0.624	114 + 2	112	116	0.075	0.078	
180-033	HR	240	256	307	330	0.355	0.355	0.604	0.604	114 + 4	110	118	0.082	0.077	
180-027	HR	242	254	309	328	0.362	0.362	0.615	0.615	111 + 3	109	113	0.088	0.089	
180-034	HR	242	260	309	334	0.355	0.355	0.604	0.604	114 + 3	111	117	0.082	0.086	
180-035	HR	246	260	273	334	0.366	0.370	0.622	0.629	114 + 4	110	118	0.094	0.083	
180-036	HR	248	260	315	334	0.355	0.355	0.604	0.604	114 + 4	110	118	0.095	0.083	
180-028	HR	250	264	317	338	0.362	0.362	0.615	0.615	114 + 4	110	118	0.098	0.089	
180-037	HR	250	264			0.370	0.370	0.629	0.629	114 + 4	110	118			
Callies Part #	Solid or Hyd	Duration @ .050		Advertised Duration (@ .020)		Cam Lift		Valve Lift w/1.7 Rocker		LSA + Advance	Lobe Ctr.		Lift @ TDC		Specific Remarks
LS1 3-Bolt 60mm		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust	Intake	Exhaust	
180-004	SR	260	280	293	308	0.420	0.430	0.714	0.731	113 + 0	113	113	0.101	0.145	NA Drag Race Cam
180-005	SR	260	280	290	311	0.420	0.430	0.714	0.731	113 + 0	113	113	0.101	0.135	NA Drag Race Cam
180-008	SR	271	274	300	306	0.522	0.525	0.887	0.893	115.5 + .5	115	116	0.122	0.122	Turbo Cam
180-006	SR	281	284	310	316	0.522	0.525	0.887	0.893	115.5 + .5	115	116	0.145	0.143	Turbo Cam
180-039	SR	285	316	314	348	0.550	0.555	0.935	0.944	120 + .4	116	124	0.150	0.177	Nitrous Cam