

CROW CAMS

CLEVELAND CNC PROFILE GUIDE



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In camshaft design and production, Crow Cams has consistently strived to engineer cutting-edge camshaft profiles that produce the ultimate in power and reliability.

Now, Crow Cams is harnessing advanced Cam design and simulation software to refine our camshaft designs.

These designs are now delivered to the latest Masterless CNC camshaft grinders ensuring high precision and consistency in manufacturing processes, resulting in a significant improvement in the accuracy of our finished camshafts.

With this latest technology, we have re-engineered a vast selection of profiles, focusing primarily on new Hydraulic Roller and Solid Roller profiles.

As industry pioneers, we understand that even the smallest changes can significantly impact performance & efficiency and our commitment to precision and perfection drives this continuous innovation.

So, whether you're a professional automotive engineer or a car enthusiast in pursuit of performance, Crow Cams' newly developed camshaft profiles are set to deliver.

In the following pages is a comprehensive list of our current Hydraulic and Solid roller profiles for the Ford Cleveland platform.

For total flexibility, you can select the intake and exhaust from different masters and change lobe separation as required.

Our technical team will review your selection/s and confirm the specs with you prior to production

Cleveland CNC Profiles

Hydraulic Roller

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Profile Number	Duration @ .050"		Duration @ .006"		Duration @ .200"		Valve Lift @ 1.73 RR		Lobe Lift		Type
	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
759	200	211	267	277	110	121	0.502	0.531	0.290	0.307	HR
3006	204	214	254	265	112	119	0.480	0.480	0.278	0.278	HR
3000	212	220	263	271	122	128	0.510	0.510	0.295	0.295	HR
3027	218	224	268	274	141	145	0.606	0.606	0.350	0.350	HR
3086	222	226	273	277	141	144	0.588	0.588	0.340	0.340	HR
3075	224	224	280	280	140	140	0.580	0.580	0.336	0.336	HR
3029	227	241	282	294	140	151	0.550	0.550	0.318	0.318	HR
3010	226	236	276	286	146	154	0.606	0.606	0.350	0.350	HR
3073	228	228	277	277	147	147	0.580	0.580	0.336	0.336	HR
3026	228	234	277	287	147	150	0.580	0.580	0.336	0.336	HR
1734	229	233	282	286	146	148	0.599	0.595	0.346	0.344	HR
3041	230	234	283	288	151	155	0.623	0.623	0.360	0.360	HR
3088	230	235	281	286	152	156	0.630	0.630	0.364	0.364	HR
3065	230	236	281	288	145	150	0.570	0.570	0.330	0.329	HR

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	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
3097	230	236	274	281	145	151	0.560	0.560	0.324	0.324	HR
3080	230	236	282	288	147	151	0.580	0.580	0.336	0.336	HR
3045	230	240	284	294	152	160	0.623	0.623	0.360	0.360	HR
3014	234	240	284	291	153	158	0.600	0.600	0.347	0.347	HR
3022	234	240	284	291	155	161	0.625	0.615	0.362	0.356	HR
3099	236	242	279	286	158	163	0.650	0.650	0.376	0.376	HR
3100	236	246	280	291	155	163	0.610	0.610	0.353	0.353	HR
3083	238	244	294	300	156	161	0.630	0.630	0.364	0.364	HR
3039	238	244	294	300	158	163	0.670	0.670	0.387	0.387	HR
3074	238	248	290	300	156	164	0.600	0.600	0.347	0.347	HR
3054	240	244	292	295	152	156	0.570	0.570	0.330	0.330	HR
3067	240	250	293	304	156	163	0.600	0.600	0.347	0.347	HR
3030	242	248	292	299	159	164	0.600	0.600	0.347	0.347	HR
3007	242	248	292	298	161	165	0.620	0.620	0.359	0.359	HR

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	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
3009	242	248	292	298	157	162	0.590	0.590	0.341	0.341	HR
3071	242	248	292	299	163	168	0.650	0.650	0.376	0.376	HR
3040	242	250	292	301	159	165	0.600	0.600	0.347	0.347	HR
3035	242	250	292	302	163	169	0.640	0.640	0.370	0.370	HR
3063	244	250	298	304	160	164	0.600	0.600	0.347	0.347	HR
3064	244	250	296	302	163	168	0.630	0.630	0.364	0.364	HR
3003	244	252	295	304	168	174	0.650	0.650	0.376	0.376	HR
926	244	252	295	303	165	171	0.630	0.630	0.364	0.364	HR
3015	245	252	296	304	164	169	0.630	0.630	0.364	0.364	HR
900	246	252	296	302	167	174	0.623	0.650	0.360	0.376	HR
3031	246	252	296	303	169	173	0.675	0.675	0.390	0.390	HR
3069	248	252	302	306	162	167	0.600	0.620	0.347	0.359	HR
3044	248	254	301	308	167	173	0.630	0.630	0.364	0.364	HR
3051	248	254	301	308	168	174	0.650	0.660	0.376	0.382	HR

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	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
3059	248	254	300	306	170	175	0.670	0.670	0.388	0.388	HR
3025	248	255	300	308	172	177	0.650	0.650	0.376	0.376	HR
3036	248	256	301	309	167	175	0.630	0.650	0.364	0.376	HR
3016	250	254	301	305	173	177	0.692	0.692	0.400	0.400	HR
3033	250	256	300	306	170	175	0.650	0.650	0.376	0.376	HR
3032	250	256	301	307	173	178	0.692	0.692	0.400	0.400	HR
3013	250	258	301	310	169	175	0.640	0.640	0.370	0.370	HR
909	250	260	301	314	169	177	0.650	0.650	0.376	0.376	HR
3053	250	260	302	312	171	180	0.676	0.676	0.391	0.391	HR
3004	250	261	299	310	174	181	0.650	0.670	0.376	0.387	HR
3011	252	256	302	307	172	176	0.660	0.660	0.382	0.382	HR
3021	252	257	304	309	168	172	0.616	0.623	0.356	0.360	HR
3089	252	258	304	310	171	176	0.650	0.650	0.376	0.376	HR
3052	252	260	305	313	169	175	0.625	0.625	0.362	0.362	HR

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Profile Number	Duration @ .050"		Duration @ .006"		Duration @ .200"		Valve Lift @ 1.73 RR		Lobe Lift		Type
	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
3093	252	262	295	307	171	178	0.612	0.612	0.354	0.354	HR
3034	254	260	309	314	174	180	0.650	0.650	0.376	0.376	HR
3038	255	260	310	315	176	181	0.680	0.680	0.393	0.393	HR
3024	256	262	314	320	173	177	0.633	0.633	0.366	0.366	HR
3049	256	262	309	315	176	181	0.680	0.680	0.393	0.393	HR
3082	258	263	309	314	173	177	0.616	0.616	0.356	0.356	HR
3061	258	263	310	315	176	180	0.640	0.640	0.370	0.370	HR
3037	258	264	309	316	178	183	0.660	0.660	0.382	0.382	HR
3001	259	267	309	317	178	183	0.620	0.620	0.358	0.358	HR
3081	262	268	314	320	180	185	0.653	0.653	0.378	0.378	HR
3023	262	268	314	321	184	190	0.692	0.692	0.400	0.400	HR
3092	268	278	320	330	186	194	0.680	0.680	0.393	0.393	HR

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Solid Roller

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Profile Number	Dur @ .050"		Dur @ .020"		Dur @ .200"		Valve Lift @ 1.73 RR at .000" lash		Lobe Lift		Lash (Hot)		Type
	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	IN	EX	
3020	230	238	261	271	147	152	0.593	0.593	0.343	0.343	.014"	.014"	SR
3028	242	257	276	292	160	173	0.680	0.699	0.393	0.404	.012"	.012"	SR
3058	248	254	282	288	161	166	0.610	0.610	0.353	0.353	.014"	.014"	SR
3084	248	254	283	290	162	167	0.636	0.646	0.367	0.373	.014"	.014"	SR
3047	252	260	286	294	168	175	0.664	0.664	0.384	0.384	.014"	.014"	SR
3087	252	260	287	295	170	176	0.727	0.727	0.420	0.420	.014"	.014"	SR
3079	254	260	289	295	170	175	0.664	0.664	0.384	0.384	.014"	.014"	SR
3048	256	262	289	296	175	179	0.727	0.727	0.420	0.420	.014"	.014"	SR
3085	256	268	292	304	175	186	0.764	0.764	0.442	0.442	.014"	.014"	SR
3043	258	264	294	299	180	186	0.753	0.753	0.435	0.435	.016"	.016"	SR
3068	258	265	291	298	176	181	0.700	0.700	0.405	0.405	.014"	.014"	SR
3060	258	268	292	302	175	184	0.692	0.692	0.400	0.400	.014"	.014"	SR
3094	259	268	292	292	176	176	0.697	0.713	0.403	0.412	.012"	.012"	SR
3055	262	268	295	302	176	181	0.658	0.667	0.380	0.385	.012"	.012"	SR

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	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	IN	EX	
3046	262	268	295	301	178	183	0.680	0.680	0.393	0.393	.014"	.014"	SR
3096	262	280	295	314	181	196	0.740	0.740	0.428	0.428	.012"	.012"	SR
3101	262	280	298	315	197	182	0.764	0.764	0.442	0.442	.014"	.014"	SR
3012	263	268	295	300	183	186	0.701	0.701	0.405	0.405	.014"	.014"	SR
3005	264	264	295	295	174	174	0.614	0.614	0.355	0.355	.012"	.012"	SR
3042	264	282	299	313	185	203	0.761	0.761	0.440	0.440	.014"	.014"	SR
3076	265	274	297	306	185	193	0.770	0.761	0.445	0.440	.016"	.016"	SR
3090	266	272	301	307	178	182	0.680	0.680	0.393	0.393	.016"	.016"	SR
3066	266	272	301	307	180	186	0.690	0.715	0.399	0.414	.016"	.016"	SR
3077	267	276	299	309	185	192	0.718	0.713	0.415	0.412	.014"	.014"	SR
3062	268	271	304	319	185	185	0.723	0.742	0.418	0.429	.016"	.016"	SR
3091	268	274	303	309	186	191	0.750	0.750	0.434	0.434	.014"	.014"	SR
3098	271	281	306	316	186	195	0.723	0.723	0.418	0.418	.012"	.012"	SR
3070	272	278	307	313	188	193	0.714	0.714	0.413	0.413	.014"	.014"	SR

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	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	IN	EX	
3078	272	278	307	313	189	194	0.744	0.744	0.430	0.430	.014"	.014"	SR
3095	272	280	305	313	188	194	0.701	0.701	0.405	0.405	.012"	.012"	SR
3056	272	284	307	320	187	197	0.714	0.714	0.413	0.413	.014"	.014"	SR
3017	272	284	305	319	192	201	0.753	0.753	0.435	0.435	.012"	.012"	SR
3008	272	284	304	316	193	203	0.756	0.749	0.437	0.433	.014"	.014"	SR
3018	273	279	303	309	195	200	0.763	0.763	0.441	0.441	.014"	.014"	SR
3002	275	282	309	316	194	199	0.685	0.685	0.396	0.396	.014"	.014"	SR
3050	276	282	311	318	189	194	0.684	0.684	0.396	0.396	.014"	.014"	SR
1356	278	289	313	326	193	203	0.750	0.757	0.434	0.438	.014"	.014"	SR
3072	282	316	290	326	200	207	0.766	0.761	0.443	0.440	.014"	.016"	SR