

Camshaft Price List and Data Catalogue 2023





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Company Profile



modified for non-production camshaft manufacture. One of the first camshafts that he ground was for the Competition Department of the Rootes Motor Company, now Peugeot, grinding Hillman Hunter and Imp competition camshafts.

As a company, we continued manufacture and grind performance camshafts.

During the early 1980's, there was a substantial increase in the production of overhead camshaft engines, many of which suffered from premature camshaft and cam follower wear.

We received enquiries regarding the manufacture of replacement camshafts, rocker arms, cam followers, and we took a decision to expand into the production of new parts. This increase in production, led to a large expansion of new manufacturing plant and staff, with 70% of our production being exported.

During the late 1980's we saw that the hardenable iron camshafts that had been the normal camshaft material, mainly in use in America and some engines in Europe, was not wear-resistant enough for OHC engines, so we worked with a UK foundry to develop small batch runs of chilled iron castings, making our own pattern equipment. This enabled us to offer, in some cases, parts that were of better quality than the OE part.

At this time, we had enquiries for out-ofproduction camshafts for car and motorbike engines, and we developed a range of camshafts for, mainly, sports car engines and motorcycle engines.

In 1986 David Newman's son Ken joined the Company.

By the early 1990's we had increased our manufacturing plant to 5 CNC Turning Centres, 4 CNC Milling Centres, 1 CNC Cylindrical Grinder, 1 x Centreless Grinder, 6 Rocker Arm Grinders. and 6 Camshaft Grinders, together with a fully equipped Inspection Department.

During 1996/7 we were beginning to have enquiries for prototype camshaft work from engine development companies, and we realized that, whilst our camshaft grinding equipment was



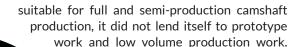




Website: www.newman-cams.com



Company Profile



We decided that the only way to solve this problem was the purchase of a new CNC Cam Grinder. This was delivered in 1997.

> From 1998 to 2002 we moved into the production of performance camshafts in steel and chilled iron, manufacturing cams for F1, F3, BTCC, ETCC, DTM, FIA, GT Le Mans, MOTO GP etc.

In 2002 we noticed that we were receiving enquiries for re-entry camshaft profiles, ground by CNC cam grinders. At this time, there were no re-entry CNC camshaft grinders available for prototype work in the UK. We decided to have new re-entry cam software written and an additional small wheel grinding head made for our Landis CNC cam grinder to fulfill this function. This was introduced in 2003.

In 2004 we installed a Camshaft and Rocker arm superfinishing plant together with a cam follower lapping machine.

We then realized that we were running out of capacity for CNC grinding and during 2004, we purchased another Landis CNC cam grinder, together with a CNC Studer cylindrical grinder

that can grind camshaft bearing journals on camshafts up to a metre in length.

During 2008 we, again, ran short of capacity and installed our 3rd Landis CNC Landis Cam Grinder.

Due to the demand for specialized cam followers we installed a new Centreless Grinder at the end of 2010.

In 2018 Newman Cams was asked work with a top Chinese Machine Tool manufacturer to help design the first CNC Camshaft Grinder in China. And in 2019 we took delivery of the 1st Chinese Manufactured CNC Camshaft grinder. In 2021we added a second machine.

Please note the following

Most of our prices are around 25% lower than other performance manufactures this has nothing to do with the quality of our products.

We are the oldest performance camshaft manufacturer in the UK we own our own Factory and all our plant and equipment. We charge what we think are the correct prices for the products we produce. So you can be confident that because our prices are lower you are not getting an inferior product.











How to Select A Performance Camshaft

When selecting a performance camshaft, consider the use for which the vehicle will be required.

We all know the claims: 20 BHP extra. This sounds great - but think!

These automotive manufacturers can't be that silly to disregard 20 BHP by changing a camshaft.

Ask yourself! Where is this 20 BHP? Probably not where you will ever use it at 7500 rpm.

Well, probably we will use it, occasionally; it would be nice to have in reserve.

Hold on! In this world there is no such thing as a "free meal". What's the possible trade-off of this 20 BHP? It could be a loss of 10 BHP at 2500 rpm. This means, each time you accelerate through 2500 rpm, you could lose 10 BHP. This to me, doesn't sound too good.

SOLUTION

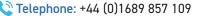
Be conservative! Don't over-cam your engine. Choose your cam for the correct application. Consider! Fit a milder cam and increase your power by 10 BHP at 3500 rpm.

Remember! You get this 10 HP every time you accelerate through 3500 rpm. Multiply this by 10 HP each time you drive through 3500 rpm then deduct the times you reach 7500 rpm.

I'm sure you will find more horsepower on the **3500 rpm side** than the 7500 rpm calculation.













Camshaft Selection

Camshaft Selection

You will see that each camshaft has a Part No and Phase No. The Part Number designates the make and model/the duration period of the inlet camshaft/the valve lift of the inlet camshaft and whether the camshaft profile is hydraulic.

So if we look at the Ford 1300/1600 CVH RS Turbo XR3i XR2 Camshaft Data Sheet we see the following:-

FORC/206/420/H PH2

FORC Specifies the make and engine type

260 **Specifies the duration**

420 Specifies the lift on the inlet valve

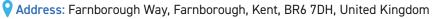
Н Specifies that the camshaft is designed for hydraulic cam followers

PH2











Selecting your Camshaft

All the camshafts in this brochure have a Phase Number after the Part Number. Phases 1 to 5 will help you to select the camshaft that meets your requirements.



PHASE 1 (PH1) ROAD CAMSHAFT

This is a camshaft that would be used for road use and will normally run with standard carb or injection system and can be fitted without additional tuning equipment. It is

meant for town use and will have a smooth tickover and will give its increase in power in the low mid-range. Other modifications to the engine will increase the performance of this cam.



PHASE 2 (PH2) FAST ROAD **CAMSHAFT**

This is a camshaft for increasing midrange of the engines and is meant for mild competition use and where the driver requires an increase of

power in the mid-range without suffering too much loss of power in the low-range. The tick-over will be heavier than a standard engine. The fuel system may have to be modified and the cam will work to its optimum with modifications to the cylinder head. inlet/exhaust system and possibly the management system.



PHASE 3 (PH3) FAST ROAD RALLY

This type of camshaft is really the limit for normal road use. It will require fuel system and management modifications. It will have a noticeable loss of low-down power

and the tick-over will be heavy. For competition use, where mid-range power is important and road use where the maximum power is required.



PHASE 4 (PH4) TARMAC RALLY SPRINT RACE CAMSHAFT

This camshaft is for competition use only and can be considered as a race cam. It could be used on the road, but would not be suitable for

use in traffic. It will have a very heavy tick-over and there will be a noticeable loss of power below 3500 rpm. Its main use is for a torque race cam, giving a strong surge of power in the upper range power, yet still having the ability to floor the throttle below 5000 RPM and pull cleanly away. It will require modifications to the carb/injection system, cylinder head and induction exhaust system.



PHASE 5 (PH5) FULL RACE CAMSHAFT

For race use only. Not suitable for road or rally use. Little power below 5000 RPM. Will have virtually no idle and will

require carb/injection, exhaust/induction. Cylinder head and engine management modifications.



Need a performance cam for your bike, please get in contact, we provide comprehensive service for motorbikes as well.











Material Type (Performance Camshafts)





Billet

This means that the camshaft has been turned from a round steel bar and will normally be nitrided after grinding. We use this method for low volume production and, due to the work involved, they are always more expensive than cast blanks.



Repro

A regrind on an existing camshaft, only suitable for mild grinds on existing chilled iron camshafts. If you regrind case hardened steel camshafts you will remove the case hardening.

We only regrind chilled iron cams, but prefer to supply new units

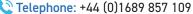


Blank

Unless specified, the camshaft is made from a chilled iron casting.

This is the best material for camshafts, as it has far superior wear characteristics than any other material.











Information on Camshaft Materials



1.HARDENABLE IRON

This is Grade 17 cast iron with an addition of 1% chrome to create 5 to 7% free carbide.

After casting, the material is flame/or induction hardened, to give a Rockwell hardness of 52 to 56 on the C Scale.

This material was developed in the 1930's in America as a low-cost replacement for steel camshafts and is mainly suited in applications where there is an excess of oil, i.e., camshafts that run in the engine block and that are splash-fed from the sump. (This is the material that the Ford OHC camshafts were manufactured from).

It is not the most suitable material for performance camshafts in OHC engines.

As a company, we only use this material for performance camshafts if the camshaft is splash-fed in the sump.

2.SPHEROIDAL GRAPHITE CAST IRON **KNOWN AS SG IRON**

A material giving similar characteristics to hardenable. Its failing as a camshaft material is hardness in its cast form, i.e., Rockwell 5, which tends to scuff bearings in adverse conditions. The material will heat treat to 52 to 58 RockwellC. This material was used by Fiat in the 1980's.

3.CHILLED CHROME CAST IRON

Chilled iron is Grade 17 cast iron with 1% chrome. When the camshaft is cast in the foundry, machined steel moulds the shape of the cam lobe are incorporated in the mould. When the iron is poured, it hardens off very quickly (known as chilling), causing the cam lobe material to form a matrix of carbide (this material will cut glass) on the cam lobe.

This material is exceedingly scuff-resistant and is the only material for producing quantity OHC performance camshafts.

CONCLUSION OF CAST CAMSHAFTS

When purchasing a camshaft, enquire which material the camshafts are produced from. A chilled iron camshaft may be more expensive, but its resistance to wear in all conditions, far exceeds any other type of cast iron.









Steel Camshafts

1.CARBON STEEL - EN8/EN9

Used mainly in the 1930 to 1945 period and is currently used for induction hardened camshafts in conjunction with roller cam followers, due to the through-hardening characteristics of the material.

2.ALLOYED STEELS

- EN351 AISI 8620 and EN34 etc

Used by British Leyland in the A Series and B Series engine and best when run against a chilled cam follower.

3.NITRIDING STEEL - EN40B

The best steel for camshafts. When nitrided it gives a surface hardness and finish similar to chilled iron.

We used this when replacing chilled iron camshafts in competition engines. This material is used on several of the current F1 engines.

CONCLUSION

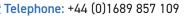
In general, steel is a good camshaft material. However, the type of steel has to be matched with the cam follower it runs against, as different grades of steel have different scuff characteristics.

GENERAL CONCLUSION OF CAMSHAFT MATERIAL

This has been a very simplified explanation of camshaft materials, based on over 48 year's experience. It may assist you to ask the correct questions when purchasing performance camshafts.















Performance Camshaft fitting instructions

Basic Information Checks.

- 1. Check the Cam number is impact marked on the cam and agrees with the cam that you have ordered.
- 2. Check the cam is identical to the cam you are replacing except for the cam lobe profile.
- 3. After installing the camshaft check that the Valve springs are not coil binding. They should have a minimum of .75mm clearance between coils. If they do coil bind you will either have to cut the valve springs seals or fit extended valve collars if they are available.
- 4. If you are fitting springs that are not supplied by Newman Cams check the valve poundage at full lift. As a rough guide the following poundage rates will apply at full life

Nominal Guide to full lift cam nose poundage rates

4 Cylinder 8 x Valve Push Rod Engines up to 2 Litre Non Hydraulic

Up to 7000 RPM Full Lift Pressure 160lbs Up to 10000 RPM Full Lift Pressure 200 lbs

4 Cylinder 8 x Valve Push Rod Engines up to Over 2 Litre Non Hydraulic

Full Lift Pressure 160lbs Up to 6000 RPM Up to 8500 RPM Full Lift Pressure 200lbs

4 Cylinder 8 x Valve OHC Engines up to 2 Litre Hydraulic

Up to 7000 RPM Full Lift Pressure 160lbs Up to 8000 RPM Full Lift Pressure 170lbs

These are only a basic guide as the exact poundage depends on the profile and the weight of the valve gear.

Most standard valve springs fitted by the original manufacturer will work on Ph1/2/3 Cams.

4 Cylinder 8 x Valve OHC Rod Engines Over 2 Litre Hydraulic

Up to 7000 RPM Full Lift Pressure 160lbs Up to 8000 RPM Full Lift Pressure 180lbs

4 Cylinder 16 x Valve OHC Engines up to 1.6 Litre Non Hydraulic

Up to 8000 RPM Full Lift Pressure 120lbs Up to 10000 RPM Full Lift Pressure 160lbs

4 Cylinder 16 x Valve OHC Engines up to 1.6 to 2 Litre Non Hydraulic

Full Lift Pressure 160 lbs Up to 8000 RPM Up to 10000 RPM Full Lift Pressure 180 lbs

As they are designed with a life of over 200000 miles they are normally overrated by 25%. Also when the cam lift is increased, so the spring rate increases, as the spring is compressed. So what has a full lift pressure of 140 lbs when the lift has been increase by 2 mm, the nose pressure will increase dependent on the spring to around 160 lbs.







Website: www.newman-cams.com





Summary of valve springs.

- A. Use the lightest spring possible
- B. Using heavier springs than required uses up power, hammers valve seats and can lead to premature wear of cam lobes and cam followers/rocker arms.
- C. You will gain more power by using a lighter valve spring than removing a few grams from the valve gear.
- D. Valve bounce can normally be traced to reaching a given RPM and the engine not wanting to rev any more. On an engine with open trumpets this can sometimes show as a blow back of vapour as the engine literally decompresses itself.

Cam Followers

As a general rule it is essential to fit new can followers with a new cam.

You can either fit the cams followers that we supply or fit O.E. Cam followers supplied by a main dealer. There are some followers that are being supplied that work on a standard engine but fail in a more highly stressed engine.

Note: We will only consider any claim against our camshafts if the cam has been fitted with either cam followers supplied by us or O.E. Cam followers.

Piston to valve clearance

If no material has been machined off the head or block, PH1/2/3 Cams can normally be fitted without machining the piston crowns. If the head or block has been machined or you are fitting PH4/5/6 cams, you will need 1.5mm/.060 clearance between the valve and piston at TDC. This can be checked by assembling the engine placing blue tack on the valve and turning the engine over by hand and then measuring the compressed thickness.

If you are going to use vernier pulleys, it is advisable to do this check with the exhaust vernier retarded back by 5 degrees and the inlet vernier advanced by 5 degrees. This will then cover any vernier adjustment required.

General assembly information on fitting

Lubricate the cam and cam follower faces with Hypoid EP80/90 Oil or a cam Lube.

Time the camshaft/s either by the standard timing marks or the full lift at TDC method.

Turn the engine over with the spark plugs out manually with a spanner and ensure there is no valve to piston contact. If there is check the valve timing. Starting the Engine:-

- A. Remove the spark plugs, turn the engine over on the starter motor until the oil light goes out/or the oil pressure registers pressure. Replace spark plugs.
- B. Start the engine as you would in normal use. There is no need to run the engine at 3000 RPM for 20 minutes. Just treat the engine as if it was new for the 100 miles then off you go.
- C. To obtain maximum performance on PH3/4/5 cams a visit down to the rolling road is advisable.













Timing the camshaft

There are various ways of timing in camshafts. They all require the following:-A dial gauge if possible with 12mm lift. A timing disk.

General notes on Timing Camshafts

On PH1/2/3 cams our cams are ground so you can use the timing marks on the existing sprockets or pulleys as marked by the engine manufacturer. This applies to all pushrod engines.

This method will work on OHC engines providing the cylinder head face has not been machined to increase the compression ratio by machining the head when the timing belt/chain tensioner is adjusted it will move the timing on both of the cam/cams.

If you are fitting PH1/2/3/4/5 cams with the engine in situ and cannot get a timing disk or dial gauge to the engine and you are fitting vernier pulleys, set the engine up with the standard pulleys and take them off and fit the vernier pulleys. This way you are never going to be more than 5 degrees out. You will have a basis for tuning the engine in on the pulleys.

We always recommend before timing in the cams that you set the engine up on the standard timing marks using the standard sprockets/pulleys.

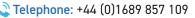
There are 3 methods of setting valve timing not using the existing timing marks:

- a. The full lift method
- b. Full lift at TDC method
- Opening and closing method

The full lift method

Fit a timing disk (Our timing disks are dual sided with a full lift degrees on one side and timing on the reverse side) on the crank, Find TDC on No 1 piston with a dial gauge from the top of the piston. You will find that there is a period of around 5 degrees where the piston does not seem to move. Take the midway position. Set the timing disk at 0.













Timing single cam engines

Note the full lift on the inlet from your spec sheet EG 110 degrees.

- A. Turn the crank clockwise 110 degrees
- B. Fit the dual gauge in the valve cap or the cam follower of the No 1 inlet cam lobe. Turn the cam around until you obtain full lift. You will find there is a period of around 3 degrees at full lift where the dial gauge does not move take the midway position now attached the sprocket or pulley and fit the chain or belt. Your cam is now timed correctly but double check the above procedure with the chain or belt attached.

Timing with twin cam engines

Note the full lift on the inlet and exhaust from your spec sheet E.G. 110 degrees.

- A. Turn the crank clockwise 110 degrees
- B. Fit the dial gauge on the valve cap or the cam follower of the No1 inlet cam lobe turn the cam around until you obtain full lift you will find there is a period of around 3 degrees at full lift where the dial gauge does not move take the midway position. Now attach timing belt /chain to crank and bolt up inlet cam.
- C. Turn the crank anti clockwise 110 degrees
- D. Fit the dial gauge on the valve cap or the cam follower of the No 1 exhaust cam lobe. Turn the cam around until you obtain full lift. You will find there is a period of around 3 degrees at full lift where the dial gauge does not move. Take the midway position. Now attach the timing belt/chain.

After setting the cams you can run a double check by turning the timing disk round and checking the opening and closing periods.

Full lift at TDC method single cam engines

If your specification sheet has a lift at TDC data available Note the lifts at the TDC on the inlet and exhaust valves.

E.G. Inlet 2mm at TDC

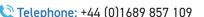
Set the engine at TDC on No 1 cylinder

Set the dial gauge on No 1 inlet cam bucket or valve cap to zero in the middle of the base circle. I.E. 180 degrees opposite the full lift part of the lobe.

Turn the inlet cam clockwise until you reach 2mm on opening side of the cam.

Now attach the timing belt/chain













If your specification sheet has a lift at TDC data available Note the lifts at TDC on the inlet and exhaust valves.

E.G. Inlet 2mm at TDC. Exhaust 1.75

Set the engine at TDC on No 1 cylinder

Set the dial gauge on No 1 inlet cam bucket or valve cap to zero in the middle of the base circle. I.E. 180 degrees opposite the full lift part of the lobe.

Turn the inlet cam clockwise until you reach 2mm on opening side of the cam.

Set the dial gauge on No 1 exhaust cam bucket or valve cap to zero in the middle of the base circle.

I.E. 180 degrees opposite the full lift part of the lobe.

Turn the inlet cam clockwise until you reach 2mm on opening side of the cam.

Set the dial gauge on No 1 exhaust cam bucket or valve cap to zero in the middle of the base circle.

I.E. 180 degrees opposite the full lift part of the lobe.

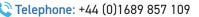
Turn the exhaust cam anti clockwise until you reach 1.75mm on closing side of the cam.

Now attach the timing belt/chain

Opening and closing method single cam engines

- 1. Set the engine at TDC
- 2. Note the opening and closing timings EG 20-60-60-20
- Wind the crank forward to 20 degrees AFTDC.
- Set the dial gauge on No 1 inlet cam bucket or valve cap to zero in the middle of the base circle. I.E. 180 degrees opposite the full lift part of the lobe.
- Turn the cam clockwise until the tappet clearance is taken up and the dial gauge indicates that the inlet valve is opening. Around .01"/.025mm
- Now attach the belt/chain.
- 7. After setting the cams you can run a double check on the opening and closing periods.













Opening and closing method Twin cam engines

- 1. Set the engine at TDC
- 2. Note the opening and closing timings EG 20-60-60-20
- 3. Wind the crank back to 20 degrees BFTDC
- Set the dial gauge on No 1 inlet cam bucket or valve cap to zero in the middle of the base circle. I.E. 180 degrees opposite the full lift part of the lobe.
- Turn the cam clockwise until the tappet clearance is taken up and the dial gauge indicates that the inlet valve is opening. Around .001"/.025mm
- Now attach the belt/chain
- 7. Wind the crank foward to 20 degrees AFTDC
- 8. Set the dial gauge on No 1 exhaust cam bucket or valve cap to zero in the middle of the base circle. I.E. 180 degrees opposite the full lift part of the lobe.
- 9. Turn the cam anti clockwise until the tappet clearance is taken up and the dial gauge indicates that the exhaust valve is closing. Around .001"/.025mm
- 10. Now attach the belt/chain
- 11. After setting the cams you can run a double check on the opening and closing periods.

General observations of Valve Timing

The easiest way to obtain the correct valve timing is by fitting Verniers Pulleys

If you cannot obtain the correct valve timing with existing sprockets or pulleys these are the options:-

Elongate the holes in the sprocket or pulley turning it into a basic vernier adjustment

With a woodruff key the key can be filed where it fits against the sprocket face so the sprocket can be moved round.

Setting up the engine with vernier pulleys

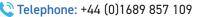
The settings we supply with our camshafts must be regarded as nominal and are a basis for fine tuning your engine as the camshafts we supply are not going to be fitted to the same spec engine I.E. inlet system, cylinder head, ignition, fuel, exhaust system.

What we are doing when fitting performance camshafts is the get the maximum amount of petrol and air vapour into the combustion chamber without either blowing through the exhaust valve or blowing back up the induction system.

To do this with engines of differing specification you will need to fine tune by adjust the vernier pulleys

By doing this we are trying to balance out the reverse air wave pulses.













Experience has shown that most engines at TDC require more lift on the inlet valve a rough ratio is around 10 to 15% so once the engine is initially set up we suggest you try the following procedure.

Single cam engines

On single cam engines we are limited on the adjustment as we have to move both inlet and exhaust lobes

- 1. Ensure after the initial valve timing set up is made that you note the venier position so you can find the initial setting
- 2. The first adjustment on single cam engines is to advance the pulley in 2 degree stages until the best performance is obtained if after the first 2 degree adjust is made the engine does not improve you can try retarding the cam by 2 degrees.

Twin cam engines

On twin cams engines we have 4 options for the fine tuning the valve timing.

- 1. Ensure after the initial valve timing set up is made that you note the vernier position so you can find the initial setting
- 2. The first adjustment is to advance the inlet cam by 2 degrees until no further performance is obtained. If after the first adjustment no performance is obtained try retarding the cam by 2 degrees.
- 3. After find the best running position of the inlet cam retard the exhaust cam by 2 degrees if no further performance increase is obtained try advancing the cam.

If after adjusting the cams you find no improvement the original settings cams were correct.

Valve timing on OHC rocker arm engines

These engines are the hardest to set up if you look into our spec sheet we do not normally give left at TDC specification this is due to pivot hights of the valve stem, cam base circle, and ball stud being variable from engine to engine, as the angle of the rocker arm increase the rocker ratio changes, so with these engines you may have to accept a compromise of valve timing to cam lift at TDC.

We hope the information supplied may be useful when setting up your engine. If you have any queries regarding any of the above please feel free to contact us.











Prototype/Production/Vintage/ **Special Cams/Motorcycle**

We manufacture cams in, either, steel or chilled iron for prototype or one-off, using customers' own data. We specialize in out-of-production vintage camshafts.

We manufacture in batch or single units, camshafts for current motorcycle engines and out of production vintage motorcycle engines.

Over the past 50 years, we have manufactured camshafts, cam followers/rocker arms for the following engines:-

A.C Lamborghini Citroen Riley Aermacchi **Coventry Climax** Lanchester **Rolls Royce** AJS Daimler Lancia Rover

Alfa Romeo **Land Rover Royal Enfield M/C** Darracq

Delage **Alvis** Laverda Rudge M/C Douglas M/C Lea Francis **Salmson Ariel Armstrong Siddeley Ducati** Lola Singer M.V Augusta M/C Sunbeam M/C **Arrows Ferguson**

Maserati **Aston Martin Ferrari** Suzuki Meadows **Talbot Lago** Audi Fiat Mercedes Benz **Austin** Ford **Triumph Austin Healey** Gilera **MG** Wolselev Triumph M/C

Barre Hart Mitsubishi **TVR** Herbert **Morris** Vauxhall **Bentley BMW** Honda Mugen Velocette **Bristol** Howard N.S.U Vincent

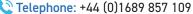
O.S.C.A. Bugatti **Jaguar CCM** Panther M/C Lagonda

J.A.P. M/C





BSA



Norton M/C







Alfa Romeo

Alfa Romeo Camshaft Data :- Model Alfa Sud/33 8 Valve Flat 4

Part No	Application	Power	Dura	ation	Valve	e Lift	Cam	Lift	Tir	ning	Ful	l Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Exh	In	Ex	Ex VAT	Type
ALFS/280/380	Touring/Fast Road Cam	3000	280	280	0.380	0.378	0.380	0.378	32-69	69-31	109	109			0.008	0.010	£140.00	Repro
PH2		7000			9.64	9.59	9.64	9.59							0.203	0.254	£600.00	Billet
Notes	Excellent Low Down Power and	Smooth T	ickover. (On Repro	Cams Ma	achine H	ead/Carr	ier to Re	tain Origina	l Shims Size								
ALFS/300/422	Race/Tarmac Rally Cam	4000	300	300	0.422	0.420	0.422	0.420	42-78	82-38	112	108			0.012	0.012		Billet
PH4		8000			10.71	10.66	10.71	10.66							0.305	0.305	£600.00	EN40B
Notes	Race/Tarmac Rally Cam. Other	r Race Prof	files Avail	able on R	equest													

Alfa Romeo Camshaft Data :- Model GT V6 24 Valve

Part No	Application	Power	Dura	ation	Valve	e Lift	Cam	Lift	Tir	ning	Ful	l Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	EX Close	IN. ATDC	EX BTDC	In	Exh	In	Ex	Ex VAT	Type
ALF6/260/392	Touring/Fast Road Cam	2000	260	260	0.392	0.370	0.392	0.370	20-60	60-20	110	110			0.012	0.012	£1,200.00	Billet
PH2		6500			9.95	9.39	9.95	9.39							0.305	0.305	Per Set	EN40B
Notes	Excellent Low Down Yet Free F	Revving. Go	ood Ticko	ver													4 Cams	
ALF6/300/452	Race/Tarmac Rally Cam	3750	300	300	0.452	0.432	0.452	0.432	42-78	82-38	112	108			0.012	0.012	£1,200.00	Billet
PH4		8000			11.47	10.96	11.47	10.96							0.305	0.305	Per Set	EN40B
Notes	Race/Tarmac Rally Good Free	Revving C	ams. Givi	ng Main F	Power fro	m 4500 l	RPM										4 Cams	

Audi :-All Models See Volkswagen Section - Pages 58 to 62









BMW Camshaft Data :- E36 2002/316/318 4 Cyl

Rocker Ratio 1: 1.3

TOOKCI Tatio 1.																		Contract of the Contract of th
Part No	Application	Power	Dura	ation	Valv	e Lift	Can	Lift	Tim	ing	Full	Lift	_	D TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	ln	Ex	ln	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
BMW4/280/399	Road Cam	2000	280	280	0.399	0.397	0.307	0.305	30-70	70-30	110				0.008	0.010	£300.00	Blank
PH1		6500			10.13	10.06	7.79	7.74							0.203	0.254		
Notes	Good Increase of Low Mid Ran	ge Power.	Smooth I	dle														
BMW4/290/399	Fast Road/Tarmac Rally	3000	290	290	0.399	0.397	0.307	0.305	35-75	75-35	110				0.008	0.010	£300.00	Blank
PH4	Cam	7000			10.13	10.06	7.79	7.74							0.020	0.254		
Notes	Rally Cam. Plenty of Mid Range	e Top End	Power Us	se 45 DCC	DE Carbs	;												
BMW4/320/450	Race Cam	4500	330	330	0.465	0.465	0.368	0.368	57-93	93-57	108				0.008	0.010	£375.00	Blank
PH5		9000			11.83	11.83	9.35	9.35							0.203	0.254		
Notes	Please Phone for Details as Th	is Cam Re	quires O/	S Bearing	s. Cam L	obes are	Crosse	d Drilled										

BMW Camshaft Data :- E30 320/323/325 "Small 6 Cam"

Rocker Ratio 1 · 1 55

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle) TDC earance	Valve	Clear	Price	Materia
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	ln	Ex	In	Ex	Ex VAT	Type
BMWS/270/406	Road Cam	1500	270	270	0.406	0.403	0.262	0.260	25-65	65-25	110				0.008	0.010	£340.00	Blank
PH1		5500			10.31	10.23	6.65	6.60							0.203	0.254		
Notes	Good Increase of Low Mid Range Power. Smooth Idle																	
BMWS/290/422	Fast Road/Tarmac Rally	3000	290	290	0.422	0.419	0.272	0.270	35-75	75-35	110				0.008	0.010	£340.00	Blank
PH4	Cam	7000			10.70	10.62	6.90	6.85							0.203	0.254		
Notes	Rally Cam Giving Plenty of Mid	Range Po	wer											-				
BMWS/300/434	Full Race Cam	4000	300	300	0.434	0.434	0.280	0.280	40-80	80-40	110				0.008	0.010	£340.00	Blank
PH5		7500			11.02	11.02	7.11	7.11							0.203	0.254		
Notes	Full Race		-	•		-				-				-	-	-		-

BMW E30320/323/325 "Small 6 Cam" Additional Components

Part No	Description	Price
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



PAGE 1 OF 2



BMW - Mini and Cooper S

PRICE LIST 2023

BMW Camshaft Data: - Mini One, Cooper, and Cooper S 2001-2006

Rocker Ratio 1: 1.64 Exhaust / 1.44 Inlet

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	ln	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
BMWI/264/396	Road Cam	2000	264	262	0.402	0.423	0.245	0.258	18-68	68-18		114			Hyd	Hyd	£225.00	Blank
PH1		6500			10.20	10.74	6.23	6.55										
Notes	Good Increase of Low Mid Ran	ge Power.	Smooth Id	dle. For N	lon Supe	rcharged	Engines											
BMWI/288/410	Tarmac Rally Sprint Cam	3500	288	288	0.410	0.410	0.285	0.250	34-74	74-34		110			Hyd	Hyd	£225.00	Blank
PH3		7500			10.42	10.41	7.23	6.35										
Notes	Tarmac Rally Race Cam for No	on Supercha	arged Eng	gines. Wi	ll Not Wo	rk With S	Standard	Injection		•			•					
BMWI/300/426	Race Cam	4500	300	300	0.472	0.426	0.288	0.260	35-75	75-35		110			Hyd	Hyd	£225.00	Blank
PH4		8250			11.99	10.82	7.33	6.60								-		
Notes	A Cam Developed for the Trac	k			•		•			•			•					
BMWI/246/396	Road Supercharged Cam	1500	246	264	0.396	0.396	0.258	0.242	14-52	70-22		114			Hyd	Hyd	£225.00	Blank
PH1/2		6000			10.05	10.05	6.56	6.23							-	-		
Notes	A Cam Developed for the Supe	ercharged C	Cooper S I	Engine, G	Siving Go	od Incre	ased Mid	Range T	orque, with	out Affecting	the Ticko	ver	•					
BMWI/250/400	Fast Road Supercharged	2000	250	268	0.400	0.396	0.258	0.242	16-54	72-24		114			Hyd	Hyd	£225.00	Blank
PH2	Cam	6500			10.15	10.05	6.56	6.23								-		
Notes	A Cam Developed for the Supe	ercharged C	cooper S I	Engine. C	Siving Go	od Incre	ased Mid	Range T	orque withou	ut Affecting	the Ticko	ver	•		•			•
BMWI/272/400	Race Supercharged Cam	3000	264	272	0.400	0.402	0.244	0.245	18-68	73-25		114			Hyd	Hyd	£225.00	Blank
PH3/4		7000			10.16	10.20	6.23	6.35										
Notes	A Cam Developed for the Supe	ercharged C	Cooper S I	Engine fo	r Fast Ro	oad Com	petition L	lse					· ·					

BMW Camshaft Data :- 528/530/535 "Large 6 Cam"

Rocker Ratio 1:1.3

Part No	Application	Power	Dura	ition	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
BMWL/280/399	Road Cam	2000	280	280	0.399	0.397	0.307	0.305	30-70	70-30	110				0.008	0.010	£350.00	Blank
PH1		6000			10.13	10.06	7.79	7.74							0.203	0.254		
Notes	Good Increase of Low Mid Ran	ge Power.	Smooth Id	lle														
BMWL/290/399	Fast Road/Tarmac Rally	3000	290	290	0.399	0.397	0.307	0.305	35-75	75-35	110				0.008	0.010	£350.00	Blank
PH3	Cam	6500			10.13	10.06	7.79	7.74							0.203	0.254		
Notes	Rally Cam. Plenty of Mid Range	e Top End	Power Us	e 45 DCC	DE Carbs	;												
BMWL/300/419	Race Cam	4500	300	300	0.419	0.416	0.322	0.320	40-80	80-40	110				0.008	0.010	£350.00	Blank
PH4		7000			10.62	10.56	8.17	8.12							0.203	0.254		
Notes	Full Race											•						

Notes: - Specify Front Sprocket Drive End Type Single Lug/Twin Lug/Pin Drive On Large 6 Engines.

BMW 528/530/535 "Large 6 Cam" Additional Components

Part No	Description	Price
DNCF1204	12 x Ally Rocker Arms Rocker Arms with Chilled Iron Insert Pad	£180.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



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Telephone: +44 (0)1689 857 109 E-Mail: info@newman-cams.com



Citroen - Saxo 1.4 & 1.6 VTR

Citroen Camshaft Data :- Saxo 1.4 and 1.6 VTR Non Roller Rocker Arm (Black Rocker Cover)

No 1 Journal Size 1.738/42.44mm Rocker Ratio 1: 1.4

Part No	Application	Power	Dura	ation	Valv	e Lift	Can	Lift	Tim	ing	Ful	l Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
CITSNR/256/367	Road Cam	1500	256	256	0.367	0.364	0.262	0.260	18-58	58-18	110				0.008	0.010	£235.00	Blank
PH1		5500			9.31	9.24	6.65	6.60							0.203	0.254		
Notes	Good Increase of Low Mid Ran	nge Power.	Smooth Id	dle														
CITSNR/280/409	Fast Road/Tarmac Rally	3000	280	280	0.409	0.406	0.292	0.290	30-70	70-30	110				0.008	0.010	£235.00	Blank
PH3	Cam	7000			10.38	10.30	7.41	7.36							0.203	0.254		
Notes	Rally Cam Giving Plenty of Mic	Range Po	wer. Will I	Not Run o	on Standa	ard Inject	ion											

Citroen Saxo 1.4 and 1.6 VTR Non Roller Rocker Arm Additional Components

Part No	Description	Price
TB8101	Cam Belt Size (101mm x 17mm)	£18.00
DNP1006	Vernier Pulley Hard Anodised	£90.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Citroen Camshaft Data :- Saxo 1.4 and 1.6 VTR Roller Rocker Arm (Silver Rocker Cover)

Rocker Ratio 1 : 1.75

Moditor Matio 1. 1	0																	
Part No	Application	Power	Dura	ation	Valv	e Lift	Can	Lift	Tim	ing	Ful	l Lift	Lift @ with cle		Valve	Clear	Price	Materia
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
CITSRR/258/406	Road Cam	1500	258	258	0.406	0.403	0.232	0.230	18-58	58-18	110				0.008	0.010	£235.00	Blank
PH1		5500			10.30	10.22	5.89	5.84							0.203	0.254		İ
Notes	Good Increase of Low Mid Range Power. Smooth Idle																	
CITSRR/270/415	Fast Road/Tarmac Rally	3000	270	270	0.415	0.411	0.237	0.235	25-65	65-25	110				0.008	0.010	£235.00	Blank
PH3	Cam	7000			10.53	10.44	6.02	5.96							0.203	0.254		
Notes	Rally Cam Giving Plenty of Mid	l Range Po	wer. Will I	Not Run o	on Standa	ard Inject	ion											

Citroen Saxo 1.4 and 1.6 VTR Roller Rocker Arm Additional Components

Part No	Description	Price
TB8101	Cam Belt Size (101mm x 17mm)	£20.00
DNP1006	Vernier Pulley Hard Anodised	£90.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00





Citroen - Saxo 1.4 & 1.6 VTS 16 Valve

Citroen Camshaft Data :- Saxo 1.4 1.6 VTS 16 Valve

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
CITVTS/256/380	Road Cam	2000	256	256	0.380	0.380	0.380	0.380	18-58	58-18	110	110	1.30mm	1.30mm	Hyd	Hyd	£360.00	Blank
PH1		7000			9.64	9.64	9.64	9.64									Per Pair	
Notes	Good Increase of Low Mid Ran	ge Power.	Smooth Id	dle														
CITVTS/264/400	Fast Road Cam	3000	264	264	0.400	0.400	0.400	0.400	22-62	62-22	110	110	1.80mm	1.80mm	Hyd	Hyd	£360.00	Blank
PH2/3		7000			10.15	10.15	10.15	10.15									Per Pair	
Notes	Fast Road Cam Giving Plenty	of Mid Rang	ge Power.	Requires	ECU Re	program	ıme											
CITVTS/280/430	Sprint/Tarmac Rally Cam	3500	280	280	0.430	0.430	0.430	0.430	32-68	70-30	108	110	2.30mm	2.10mm	Hyd	Hyd	£360.00	Blank
PH4		7500			10.91	10.91	10.91	10.91									Per Pair	
Notes	Sprint/Tarmac Rally Cam Requ	ires Throttl	e Bodies															
CITVTS/290/450	Fast Road/Tarmac Rally	4500	290	290	0.450	0.450	0.450	0.450	41-69	71-39	104	106	3.7mm	3.4mm	0.008	0.010	£360.00	Blank
PH5	Cam	8500			11.42	11.42	11.42	11.42							0.203	0.254	Per Pair	
Notes	Race Cam Giving a Wide Spre	ad of Powe	r from 45	00 RPM		•												

Notes:- Later Engines may require a larger M11 Cam Pulley Bolt and Washer Part No 806.18 & 694906.

Citroen Camshaft Data :- C2 C3 1.4 1.6 VTS 16 Valve

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
CITC2/256/342	Road Cam	2000	256	256	0.342	0.342	0.342	0.342	18-58	58-18	110	110	0.87mm	0.87mm	Hyd	Hyd	£360.00	Blank
PH1		7000			8.68	8.68	8.68	8.68									Per Pair	
Notes	Good Increase of Low Mid Ran	Increase of Low Mid Range Power. Smooth Idle																
CITC2/264/355	Fast Road Cam	3000	264	264	0.355	0.355	0.355	0.355	22-62	62-22	110	110	1.55mm	1.55mm	Hyd	Hyd	£360.00	Blank
PH3		7000			9.01	9.01	9.01	9.01									Per Pair	
Notes	Fast Road Cam Giving Plenty	of Mid Rang	ge Power.	Requires	ECU Re	program	me											
CITC2/280/400	Sprint/Tarmac Rally Cam	3500	280	280	0.400	0.400	0.400	0.400	32-68	70-30	108	110	2.53mm	2.28mm	Hyd	Hyd	£360.00	Blank
PH4		7500			10.15	10.15	10.15	10.15									Per Pair	
Notes	Sprint/Tarmac Rally Cam Requ	ires Throttl	e Bodies															

Citroen Saxo C2, C3 1.4 1.6 VTS 16 Valve Additional Components

Citioen Saxo Cz, CS i	.4 1.0 V 13 10 Valve Additional Components	
Part No	Description	Price
DNP 7000	2 x Hard Anodised Alloy Vernier Pulleys	£180.00
DNCFHL88	16 x Hydraulic INA Cam Followers (28.35mm x 26mm)	£200.00
DNCF6000	16 x Mechanical Easy Adjust EN40B Non Shim Cam Followers (28.35mm x 26mm)	£272.00
K335	Clamping Tool for DNCF6000 Easy Adjust Followers	£20.00
DNCF5125	16 x Mechanical Shim Type EN40B Cam Followers (28.35mm x 26mm)	£272.00
TB8955	Timing Belt (136mm x 25.4mm)	£44.50
DNS2670	16 x Competition Swedish Wire Single Silicone Chrome 160 lbs Valve Springs	£120.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00





Cosworth Ford -Ford Escort / Sierra Cosworth



Cosworth Ford :- Ford Escort/Sierra Cosworth 16 YB Valve

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Ful	l Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
COS/268/380	Road Cam	2000	268	268	0.380	0.360	0.380	0.360	26-64	64-24	110	110	0.059"	0.059"	Hyd	Hyd	£480.00	Blank
PH1		6000			9.64	9.14	9.64	9.14					1.5mm	1.5mm			Per Pair	
Notes	Cam Suited for Road Use. Goo	d Idle and	Little Loss	s of Low [Down Pov	wer												
COS/288/410	Fast Road Cam	2500	288	288	0.410	0.410	0.410	0.408	34-74	74-34	110	110	0.077"	0.077"	Hyd	Hyd	£480.00	Blank
PH2/3		7000			10.41	10.41	10.41	10.36					1.95mm	1.95mm			Per Pair	
Notes	Cam Suited for Fast Road Rall	y Use. Goo	d Idle and	d Mid Ran	ge Powe	r												
COS/300/440	Tarmac Rally/Race Cam	3750	300	300	0.440	0.440	0.440	0.440	40-80	80-40	110	110	0.100"	0.100"	0.008	0.010	£480.00	Blank
PH4		7500			11.17	11.17	11.17	11.17					2.55mm	2.55mm	0.203	0.254	Per Pair	
Notes	Competition Cam Ideal for Rall	y, Track, Da	ays and S	Sprints														
COS/312/450	Race Cam	4500	312	300	0.450	0.450	0.450	0.440	48-84	82-42	108	108	0.132"	0.132"	0.008	0.010	£480.00	Blank
PH5		8000			11.42	11.42	11.42	11.17					3.35mm	3.35mm	0.203	0.254	Per Pair	
Notes	A Race Cam Only Suited for C	rcuit Race	Use															

Cosworth Ford :- Ford Escort/Sierra Cosworth 16 Valve YB (TURBO ENGINES)

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
COST/256/350	Fast Road Cam	1000	256	256	0.350	0.350	0.350	0.350	16-60	60-16	112	112	0.014"	0.014"	Hyd	Hyd	£480.00	Blank
		6000			8.88	8.88	8.88	8.88					0.36mm	0.36mm	-	-	Per Pair	
Notes	Cam Suited for Road Use. God	od Idle and	Little Los	s of Low [Down Pov	wer												
COST/262/350	Fast Road Cam	1500	262	262	0.350	0.350	0.350	0.350	19-63	63-19	112	112	0.033"	0.033"	Hyd	Hyd	£480.00	Blank
PH1		6000			8.88	8.88	8.88	8.88					0.85mm	0.85mm	-	-	Per Pair	
Notes	Cam Suited for Road Use. God	od Idle and	Little Los	s of Low [Down Pov	wer												
COST/264/370	Fast Road Cam	2000	264	264	0.370	0.350	0.370	0.350	24-56	56-24	108	108	0.035"	0.035"	Hyd	Hyd	£480.00	Blank
PH2/3		6500			9.39	8.88	9.39	8.88					0.90mm	0.90mm			Per Pair	
Notes	Cam Suited for Fast Road Rall	y Use. Goo	d Idle and	d Mid Rar	ge Powe	r												
COST/264/400	Tarmac Rally/Sprint Cam	3000	264	264	0.400	0.400	0.400	0.400	24-56	56-24	108	108	0.055"	0.055"	0.008	0.010	£480.00	Blank
PH4		7000			10.15	10.15	10.15	10.15					1.40mm	1.40mm	0.203	0.254	Per Pair	
Notes	Competition Cam Ideal for Rall	ly, Track, D	ays and S	prints		•				•		•						•
COST/264/430	Race Cam	3500	264	264	0.430	0.430	0.430	0.430	26-54	54-26	106	106	0.079"	0.079"	0.008	0.010	£480.00	Blank
PH4		7500			10.91	10.91	10.91	10.91					2.00mm	2.00mm	0.203	0.254	Per Pair	
Notes	A Race Cam Only Suited for C	ircuit Race	Use															
	•																	

If Cams are fitted to 2WD Cylinder Heads 5mm Washers will be required (Part No K579). All the Cosworth Profiles I.E. BD10, B14 are available on request. Notes :-All our Cosworth Blanks are Universal and can be used as an Inlet or Exhaust Cam.

Ford Escort/Sierra Cosworth 16 Valve Additional Components

Part No	Description	Price
DNCHL66	16 x Hydraulic Cam Followers	£160.00
DNCF5300	16 x Mechanical EN40B Cam Followers Shim Type	£300.00
DNCF5118	16 x Mechanical EN40B Cam Followers Easy Adjust No Shims	£300.00
K335	Clamping Tool for DNCF5118 Easy Adjust Cam Followers	£20.00
DNCV12	2 x Vernier Pulleys Pair	£180.00
DNS2673	16 x Competition Silicon Chrome Double 190 lbs Valve Springs	£160.00
K579	5 MM Ground Spacer for 2 WD Cylinder Heads	£7.50
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00





Cosworth Ford -Ford Escort / Sierra Cosworth

Cosworth Ford :- Ford Escort/Sierra Cosworth 16 YB Valve BD Profiles

Part No	Application	Power	Dura	ation	Valv	e Lift	Can	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	ln	Ex	Ex VAT	Type
COST/BD8	Group N Spec Cam	1500	241	241	0.335	0.335	0.335	0.335	6-55	50-11	115	110	0.009"	0.013"	Hyd	Hyd	£480.00	Blank
		6000			8.50	8.50	8.50	8.50					0.23mm	0.33mm			Per Pair	
Notes	Cam Suited for Road Use Goo	od Idle and L	_ittle Loss	of Low D	own Pow	/er												
COST/BD10	Fast Road Cam	1500	264	264	0.337	0.337	0.337	0.337	17-67	62-22	115	110	0.026"	0.038"	Hyd	Hyd	£480.00	Blank
		6500			8.55	8.55	8.55	8.55					0.66mm	0.96mm			Per Pair	
Notes	Cam Suited for Fast Road Ra	ly Use Good	d Idle and	Mid Ran	ge Power	•												
COST/BD12	Group N Spec Cam	1500	247	247	0.331	0.331	0.331	0.331	9-58	53-14	115	110	0.010"	0.017"	Hyd	Hyd	£480.00	Blank
		6000			8.40	8.40	8.40	8.40					0.25mm	0.43mm			Per Pair	
Notes	Cam Suited for Road Use God	od Idle and L	ittle Loss	of Low D	own Pow	/er												
COST/BD14	Fast Road Cam	2000	261	261	0.351	0.351	0.351	0.351	16-65	60-21	115	110	0.026"	0.046"	Hyd	Hyd	£480.00	Blank
		7000			8.91	8.91	8.91	8.91					0.66mm	1.17mm			Per Pair	
Notes																		
COST/BD15	Rally Cam	2500	258	258	0.395	0.395	0.395	0.395	24-54	57-21	105	108	0.071"	0.054"	Hyd	Hyd	£480.00	Blank
		8000			10.03	10.03	10.03	10.03					1.80mm	1.37mm			Per Pair	
Notes																		
COST/BD15+	Rally Cam	2500	258	258	0.417	0.417	0.417	0.417	24-54	57-21	105	108	0.074"	0.057"	Hyd	Hyd	£480.00	Blank
		8000			10.60	10.60	10.60	10.60					1.88mm	1.46mm			Per Pair	
Notes																		
COST/BD16	Race Cam	3500	265	265	0.399	0.399	0.399	0.399	28-57	60-25	105	108	0.081"	0.062"	Hyd	Hyd	£480.00	Blank
		8500			10.13	10.13	10.13	10.13					2.06mm	1.57mm			Per Pair	
Notes																		
COST/BD16+	Race Cam	3500	265	265	0.413	0.413	0.413	0.413	28-57	60-25	105	108	0.086"	0.062"	Hyd	Hyd	£480.00	Blank
PH4		8500			10.48	10.48	10.48	10.48					2.18mm	1.57mm			Per Pair	
Notes																		

Notes:-

All our Cosworth Blanks are Universal and can be used as an Inlet or Exhaust Cam. On 2 WD Cylinder Heads a 5 MM Spacer will be required (Part No K579).

Ford Escort/Sierra Cosworth 16 Valve Additional Components

TOTA ESCOTT/OTETTA O	osworth to valve Additional Components	
Part No	Description	Price
DNCHL66	16 x Hydraulic Cam Followers	£160.00
DNCF5300	16 x Mechanical EN40B Cam Followers Shim Type	£300.00
DNCF5118	16 x Mechanical EN40B Cam Followers Easy Adjust No Shims	£300.00
K335	Clamping Tool for DNCF5118 Easy Adjust Cam Followers	£20.00
DNCV12	2 x Vernier Pulleys Pair	£180.00
DNS2673	16 x Silicon Chrome Double Valve Springs 190 lbs Spring Rate	£160.00
K579	5 mm Ground Spacer for 2 WD Cylinder Heads	£7.50
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



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Fiat Camshaft Data:- Cinquecento Sporting/Panda/Uno FIRE Engines 769cc-1242cc

Part No	Application	Power	Dura	ition	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	,	Valve	Clear	Price	Material
		Band	ln	Ex	ln	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	ln	Ex	ln	Ex	Ex VAT	Type
FIAF/260/332	Road Cam	1500	260	260	0.332	0.330	0.332	0.330	20-60	60-20	110		0.032"	0.032"	0.008	0.010	£235.00	Blank
PH1		6000			8.43	8.38	8.43	8.38					0.8mm	0.8mm	0.203	0.254		
Notes	Good Increase of Low Mid Ran	Increase of Low Mid Range Power. Smooth Idle																

Fiat Camshaft Data :- Uno 1.4i/Tipo 1.4i/1.6i X1/9

Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FIAU/264/360	Road Cam	1500	264	264	0.360	0.360	0.360	0.360	32/62	62/32	110		0.047"	0.047"	0.008	0.010	£235.00	Blank
PH1		6000			9.14	9.14	9.14	9.14					1.2mm	1.2mm	0.203	0.254		
Notes	6000 9.14 9.14 9.14 9.14 9.14 9.14 1.2mm 0.203 0.254 Good Increase of Low Mid Range Power. Smooth Idle																	
FIAU/280/380	Fast Road/Tarmac Rally	3000	280	280	0.380	0.380	0.380	0.380	30-70	70-30	110		0.088"	0.088"	0.008	0.010	£235.00	Blank
PH3	Cam	7000			9.64	9.64	9.64	9.64					2.23mm	2.23mm	0.203	0.254		
Notes	Rally Cam Giving Plenty of Mid	Range Pov	wer. Will N	Not Run c	n Standa	ard Inject	ion											

Fiat Camshaft Data :- TURBO Uno/Punto GT

Part No	Application	Power	Dura	ition	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	ln	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FIAUT/240/380	Road Cam	2000	240	238	0.380	0.350	0.380	0.350	15-45	38-10	112		0.011"	0.011"	0.008	0.010	£235.00	Blank
PH2		6000			9.64	8.88	9.64	8.88					0.275mm	0.275mm	0.203	0.254		
Notes	A Superb Turbo Cam Giving Ma	asses of Mi	id Range	Power														

Fiat Additional Components

Part No	Description	Price
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00







Website: www.newman-cams.com



Ford Camshaft Data: - Kent Cross Flow Non Crossflow 109E/116E

Rocker Ratio 1 : 1 514

Part No	Application	Power	Dura	ition	Valv	e Lift	Can	Lift	Tim	ing	Full	Lift	Lift @ with cle		Valve	Clear	Price	Materia
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Exh	In	Ex	Ex VAT	Type
FORK/264/363	Road Cam	1250	264	264	0.363	0.363	0.240	0.240	20-64	64-20	110		0.036"		0.015	0.017	£180.00	Blank
PH1		6000			9.22	9.22	6.09	6.09					0.91mm		0.381	0.432		
Notes	Good Increase of Low Mid Rar	nge Power S	Smooth Id	le. Best v	vith Webl	oer 28/36	. A Shar	p Instant	Power Cam									
FORK/278/379	Fast Road Cam	2000	278	278	0.379	0.379	0.250	0.250	29-69	69-29	110		0.056"		0.015	0.017	£180.00	Blank
PH2		6500			9.61	9.61	6.35	6.35					1.44mm		0.381	0.432		
Notes	Good Increase of Mid Range F	Power. Smo	oth Ticko	er. Gives	More P	ower Tha	n the G1	116E Ca	m (See Not	es)		•			•			
FORK/290/401	Fast Road Sprint Cam	2500	290	290	0.436	0.436	0.288	0.288	35-75	75-35	110		0.077"		0.015	0.017	£180.00	Blank
PH3	1	7000			11.07	11.07	7.31	7.31					1.97mm		0.381	0.432		
Notes	Good Increase of Mid Top End	Power. Wo	orks with I	ither 28/	36 or Tw	in DCOE	Webber	's Ideal F	Road Kit Car	Cam (See	Notes)	l .	L L					
FORK/310/436	Sprint/Tarmac Rally Cam	4000	310	310	0.454	0.454	0.300	0.300	45-85	85-45	110		0.113"		0.015	0.017	£305.00	Steel
PH4		7500			11.53	11.53	7.61	7.61					2.87mm		0.381	0.432		
Notes	Ideal Short Circuit/Sprint Cam	(See Notes)							•								
FORK/324/447	Race Cam	5000	324	324	0.447	0.447	0.295	0.295	45-100	100-45	110		0.128"		0.016	0.018	£305.00	Steel
PH5		9000			11.34	11.34	7.49	7.49					3.25mm		0.406	0.457		
Notes	A Race Cam with a Solid Power	er Band fron	n 5000 to	8500. lde	al for the	1500 to	1800cc	Engines	(See Notes)									
FORK/A8	Race Cam F3	5500	332	332	0.407	0.407	0.269	0.269	66-86	86-66	100		0.176"		0.016	0.018	£305.00	Steel
PH5		11000			10.34	10.34	6.83	6.83					4.47mm		0.406	0.457		
Notes	Cosworths Screamer F3 Cam	for the 997c	c Ford Er	ngine, for	Classic F	3 Racin	g Slot Mi	lled Flan	ge, for Front	Mounted D	ry Sump F	Pump						

Ford Kent Cross Flow Non Cross flow 109E/116E Additional Components

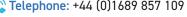
Part No	Description	Price
DNS1040S	8 x Single Valve Springs 160 Poundage PH1 to PH3	£60.00
DNS1040D	8 x Double Valve Springs 200 Poundage PH4 to PH5	£90.00
DNCF01	8 x Super Finished Chilled Iron Cam Followers Thin Stem Pre 1970 PH1 Cams Only	£36.00
DNCF05	8 x Super Finished Chilled Iron Cam Followers Thick Stem Post 1970 PH1 Cams Only	£36.00
K445	8 x Steel Thick Stem EN40B Nitride Steel Cam Followers Post 1970 Engines PH3/4/5 Cams	£80.00
K444	8 x Steel Thin Stem EN40B Nitride Steel Cam Followers Pre 1970 for F3 Engines PH3/4/5 Cams	£80.00
DNV1040	8 x Chrome Moly Valve Caps with 2mm Extra Fitted Spring Length Either Single or Double Springs	£24.00
DNC1040S	1 x Steel Camshaft any Profile with Dry Sump Oil Pump Slot in End	£305.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Notes :-

The above Cams are made from Chilled Iron, it is not advisable to run a Side Mounted Dry Sump Pump on this engine unless a Steel Cam is Fitted. The Original Ford Oil Pump gear is Made from Cast Iron. There are replacement pumps on the market with Steel Gears, Steel and Iron do not run well together. Ensure when you replace a pump the gear is of original Ford Manufacture. Failure to fit this gear may lead to a Failure of the Oil Pump. There are also High Pressure Oil Pumps (A standard pump with an up rated Spring) do not fit this as the Irons Gears are Rated to run at 40 PSI Hot. Check when fitting Cams with 0.375 Lift and above that the Springs are not Coil Binding if they are either cut the Spring Seats or fit our Valve Caps. The chilled iron followers that are available now are only suited to the PH1 Cams, we suggest that for all cams that you fit our EN40B Nitrided Cam Followers.

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Ford Camshaft Data :- 1600/1800/2000cc SOHC "Pinto"

Rocker Ratio 1 · 1 58

Part No	Application	Power	Dura	ation	Valv	e Lift	Can	Lift	Tim	ing	Ful	l Lift		TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Exh	In	Ex	Ex VAT	Type
FORP/284/379	Fast Road Cam	2000	284	284	0.379	0.379	0.250	0.250	32-72	72-32	110				0.006	0.008	£168.00	Blank
PH2		6000			9.61	9.61	6.35	6.35							0.152	0.203		Chill/Iron
Notes	Free Revving Cam with Plenty	of Mid Ran	ge Power	. Best wit	h a Twin	Choke C	arb Idea	l for Road	d Use. Use (Carbide Inse	erted Roc	ker Arms						
FORP/300/416	Fast Road Sprint Cam	3000	300	295	0.416	0.413	0.275	0.273	40-80	78-38	110				0.006	0.008	£168.00	Blank
PH3		7000			10.57	10.49	6.98	6.93							0.152	0.203		Chill/Iron
Notes	Road Rally/Short Circuit Cam	Runs on a 1	win Chol	ce Carb b	ut Best w	ith DCO	E Webers	s. Good N	∕lid Range F	ower. Use	Carbide Ir	serted Roo	ker Arms					
FORP/275/474	Short Circuit/Sprint/Rally	2000	275	272	0.474	0.471	0.313	0.311	27-68	68-27	110				0.006	0.008	£168.00	Blank
PH4	Cam	6000			12.03	11.95	7.94	7.89							0.152	0.203		Chill/Iron
Notes	Runs Best with 40 DCOE Carb	s for Road	Use, But	Fine with	a Twin C	hoke for	Circuit U	lse. The I	Jltimate Tor	que Cam. l	Jse Carbio	le Inserted	Rocker A	rms				
FORP/284/474	Short Circuit/Sprint/Rally	3000	284	284	0.474	0.471	0.313	0.311	26-78	78-26	110				0.006	0.008	£168.00	Blank
PH4.5	Cam	7250			12.03	11.95	7.94	7.89							0.152	0.203		Chill/Iron
Notes	Develop from the Above Cam	but Has And	other 500	RPM on	the Top I	End Mas	ses of Mi	d Range	Power from	4000 RPM	. Use Carl	oide Insete	d Rocker	Arms				
FORP/286/474	Short Circuit/Sprint/Rally	3250	286	286	0.474	0.471	0.313	0.311	30-76	76-30	108				0.006	0.008	£168.00	Blank
PH4.75/117	Cam	7500			12.03	11.95	7.94	7.89							0.152	0.203		Chill/Iron
Notes	Develop from the Above Cam	but Has And	other 200	RPM on	the Top I	End Mas	ses of Mi	d Range	Power from	4000 RPM	. Use Carl	oide Inserte	d Rocker	Arms				
FORP/300/477	Race Cam	4000	300	300	0.477	0.474	0.315	0.313	33-87	87-33	110				0.006	0.008	£168.00	Blank
PH5		8000			12.10	12.03	7.99	7.94							0.152	0.203		Chill/Iron
Notes	This Cam is the Ultimate for a	Carburetted	l Pinto Ra	ace Engin	e it Give	Great To	p End Po	ower with	out Losing N	/lid Range l	Pulling Po	wer. Use C	arbide İns	erted Roc	ker Arms			
FORP/310/492	Race Cam	4500	310	310	0.492	0.492	0.325	0.325	33-87	87-33	110				0.006	0.008	£168.00	Blank
PH6		8250			12.49	12.49	8.25	8.25							0.152	0.203		Chill/Iron
Notes	A Race Cam Only Really Suite	d to Throttle	e Bodies	and Progr	ammable	e ECU U	nits. Use	Carbide	Inserted Ro	cker Arms								

Ford Pinto 1600/1800/2000cc Additional Components

Part No	Description	Price
K494	Aluminium Vernier Pulley with Steel internal Sprocket	£85.00
DNS1017S	8 x Single Valve Springs 160 Poundage PH1 to PH3 Swedish Wire	£60.00
DNS1017/200	8 x Single Valve Springs 190 Poundage PH4 to PH5 Swedish Wire	£70.00
DNS1017D	8 x Double Valve Springs 200 Poundage PH4 to PH5 Swedish Wire	£90.00
DNCF04	8 x Cam Followers	£50.00
DNCF5001	8 x Long Pad Cam Followers	£60.00
DNV5120	8 x Chrome Moly Valve Caps Suits double or Single Springs	£30.00
DNCFP1	Oil Feed Pipe	£16.00
DNC249	8 x Chrome Moly Ball Studs Long Thread 62 RWC	£50.00
TB5001	Timing Belt for 1.6 Engine (119 mm x 19mm)	£15.00
TB5002	Timing Belt for 2.00 Engine (122 mm x 19mm)	£15.00
TD1	Timing Disc Dual Purpose Full Lift and Degrees	£8.00



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Ford Camshaft Data :- 1300/1600 CVH RS Turbo XR3i XR2 Mechanical Cam Followers Only

Rocker Ratio 1: 1.64

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	ln	Ex	ln	Ex	ln	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	ln	Ex	Ex VAT	Type
FORC/256/413	Mild Road/Carb Models	1500	256	256	0.413	0.413	0.252	0.252	18-58	58-18	110		0.029"		0.008	0.010	£185.00	Blank
PH1	Cam	6000			10.49	10.49	6.40	6.40					0.74mm		0.203	0.254		Chilled
Notes	Good Increase of Low Mid Ran	ge Power S	Smooth Id	le. A Sha	rp Instan	t Power	Cam. Ess	entual to	Use our Me	echanical C	am Follow	ers						
FORC/260/409	Fast Road/Carb Models	2000	260	260	0.409	0.409	0.270	0.270	20-60	60-20	110		0.051"		0.008	0.010	£185.00	Blank
PH2	Cam	6000			10.38	10.38	6.85	6.85					1.31mm		0.203	0.254		Chilled
Notes	Free Revving Cam with Plenty	of Mid Ran	ge Power	Best with	n a Twin (Choke C	arb Ideal	for Road	Use. Esser	itual to Use	our Mech	anical Can	n Followers					
FORC/286/416	Fast Road Sprint Cam	3000	286	286	0.416	0.413	0.275	0.273	34-74	74-34	110		0.083"		0.008	0.010	£185.00	Blank
PH4		7000			10.57	10.49	6.98	6.93					2.1mm		0.203	0.254		Chilled
Notes	For Injection and Carb Models/	Good Mid I	Range To	p End Po	wer Grou	ınd on a	Chilled Ir	on Blank	. Essential t	o Use Our N	/lechanica	l Cam Foll	owers					
FORC/296/416	Race Cam	4000	296	296	0.416	0.412	0.275	0.272	38-78	78-38	110		0.103"		0.008	0.010	£185.00	Blank
PH5		8000			10.57	10.45	6.98	6.90					2.62mm		0.203	0.254		Chilled
Notes	Race Cam Giving a Flat Power	Curve Gro	und on a	Chilled Ir	on Blank	. Essenti	al to Use	Mechani	cal Cam Fo	llowers								
FORC/276/409T	Turbo Cam	2500	276	276	0.409	0.409	0.270	0.270	24-72	72-24	114		0.039"		0.008	0.010	£185.00	Blank
PH4		6500			10.38	10.38	6.85	6.85					0.98mm		0.203	0.254		Chilled
Notes	The Best Turbo Cam Around.	Ground on (Chilled Iro	n Blank.	Essential	to Use	our Mech	anical Ca	m Followers	s. 167MPH	Has Been	Bbtained	on this Carr	ı				
FORC/280/448T	Turbo Cam	2500	280	280	0.448	0.448	0.30	0.30	26-74	74-26	114		0.041"		0.008	0.010	£185.00	Blank
PH4		7000			12.31	12.31	7.51	7.51					1.05mm		0.203	0.254		Chilled
Notes	Only Suitable for ZVH Turbo E	ngines. Gro	ound on a	Chilled Ir	on Blank	. Essenti	al to Use	our Mec	hanical Can	Followers			-					

Notes:- All our CVH Cams are ground on our own chilled iron blank and when used in conjunction with our Cam Followers eradicate the acute cam wear that is associated with this engine.

Ford CVH 1300/1600 CVH RS Turbo XR3i XR2 Engines Additional Components

Part No	Description	Price
DNPCVH	Vernier Pulley	£90.00
DNS1017S	8 x Single 160 lbs Valve Springs for Non Turbo Phase 1 to 3 Cams	£60.00
DNS1017D	8 x Double Valve Springs 200 Poundage	£90.00
DNS1017/200	8 x Single Valve Springs 190 Poundage	£70.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
DNCF5120	8 x EN40B Induction Nitrided Billet Mechanical Cam Followers Easy Adjustment No Shims	£160.00
DNV5120	8 x Chrome Moly Valve Caps for Double Springs	£30.00
TB5046	Timing Belt (97mm x 21.8mm)	£20.00
TD1	Timing Disc Double Sided for Duration and Full Lift Setting	£8.00





Ford

Ford Camshaft Data: - Zetec 1.8/2.00 Escort Orion Mk5/6/7/8 Mondeo Mk1 and Probe 2 Litre (Silver Top) **Hydrualic Cam Follower**

Hydraulic Cam Followers Models

Part No	Application	Power	Dura	ition	Valve	e Lift	Can	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	ln	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FORZ/256/340H	Fast Road Cam	1500	256	256	0.340	0.340	0.340	0.340	18-58	58-18	110	110	0.029"	0.029"	Hyd	Hyd	£480.00	Blank
PH1		6000			8.63	8.63	8.63	8.63					0.74mm	0.74mm			Per Pair	
Notes	Suitable for the 1.6 Engine or a	Very Torq	uey 1.8/2.	00 Litre E	ngine													
FORZ/260/400H	Fast Road Cam	2000	260	260	0.400	0.380	0.400	0.380	20-60	60-20	110	110	0.051"	0.051"	Hyd	Hyd	£480.00	Blank
PH2		6000			10.15	9.64	10.15	9.64					1.31mm	1.31mm			Per Pair	
Notes	Designed for 1.8/2.00 Engines	Good Midd	lle Range	Power														
FORZ/270/425H	Fast Road Rally Cam	2500	270	270	0.425	0.425	0.425	0.425	25-65	65-25	110	110	0.059"	0.059"	Hyd	Hyd	£480.00	Blank
PH3		7000			10.79	10.79	10.79	10.79					1.50mm	1.50mm			Per Pair	
Notes	A Cam Giving Good Mid Range	e Power Us	ing Hydra	ulic Cam	Follower	s will Not	Run on	Standard	I Injection. E	CU Mods F	Required							
FORZ/280/450H	Tarmac Rally/Sprint Cam	3000	280	270	0.450	0.425	0.450	0.425	30-70	70-30	110	110	0.081"	0.081"	Hyd	Hyd	£480.00	Blank
PH4		7500			11.42	10.79	11.42	10.79					2.07mm	2.07mm			Per Pair	
Notes	A Cam Giving Good Mid Range	e Power Us	ing Hydra	ulic Cam	Follower	s will Not	Run on	Standard	I Injection. C	Cam Carrier	Mods Red	quired to C	lear Cam I	Lobes on (Carrier			
FORZ/294/460	Race Cam	4000	294	284	0.460	0.430	0.460	0.430	39-75	70-34	108	108	0.128"	0.108"	0.008	0.010	£480.00	Blank
PH5		8000			11.68	10.91	11.68	10.91					3.26mm	2.75mm	0.203	0.254	Per Pair	
Notes	Race Cam Giving a Flat Power	Curve Gro	und on a	Chilled In	on Blank.	Essentia	al to Use	Mechani	cal Cam Fo	llowers								

Ford Zetec 1.8/2.00 Escort Orion Mk5/6/7/8 Mondeo Mk1 and Probe 2 Litre Additional Components

Part No	Description	Price
DNPOPVPZE	2 x Ford Zetec Vernier Pulleys	£180.00
DNCFHL76	16 x Hydraulic Cam Followers (28.4mm x 26.5mm)	£176.00
DNCF6001	16 x Mechanical Race Cam Followers Easy Adjust Non Shim (28.4mm x 26.5mm)	£300.00
TB8131	Timing Belt (131mm x 25mm)	£24.00
DNS2670	16 x 180 Poundage Chrome Vanadium Valve Springs Non Beehive Type	£120.00
DNV400	16 x Chrome Moly Valve Caps to Suit DNS2670 Valve Spring	£50.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



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Telephone: +44 (0)1689 857 109 E-Mail: info@newman-cams.com



Website: www.newman-cams.com



Ford

Ford Camshaft Data: - Zetec 1.8/2.00 Escort Orion Mk5/6/7/8 Mondeo Mk1 and Probe 2 Litre (Black Top) **Mechanical Cam Follower**

Mechanical Cam Follower Models

Part No	Application	Power	Dura	tion	Valve	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FORZ/256/340M	Fast Road Cam	1500	256	256	0.340	0.340	0.340	0.340	18-58	58-18	110	110	0.029"	0.029"	0.008	0.010	£480.00	Blank
PH1		6000			8.63	8.63	8.63	8.63					0.73mm	0.73mm	0.203	0.254	Per Pair	
Notes	Suitable for the 1.6 Engine or a	ι Very Torqι	uey 1.8/2.	00 Litre E	ngine													
FORZ/260/400M	Fast Road Cam	2000	260	260	0.400	0.380	0.400	0.380	20-60	60-20	110	110	0.048"	0.048"	0.008	0.010	£480.00	Blank
PH2		6000			10.15	9.64	10.15	9.64					1.22mm	1.22mm	0.203	0.254	Per Pair	
Notes	Designed for 1.8/2.00 Engines.	Good Midd	lle Range	Power														
FORZ/270/425M	Fast Road Rally Cam	2500	270	270	0.425	0.425	0.425	0.425	25-65	65-25	110	110	0.051"	0.051"	0.008	0.010	£480.00	Blank
PH3		7000			10.79	10.79	10.79	10.79					1.30mm	1.30mm	0.203	0.254	Per Pair	
Notes	A Cam Giving Good Mid Range	e Power. W	ill Not Rui	n on Stan	dard Inje	ction. EC	CU Mods	required	. Do Not Use	e top Shim I	Followers							
FORZ/280/450M	Tarmac Rally/Sprint Cam	3000	280	270	0.450	0.425	0.450	0.425	30-70	70-30	110	110	0.083"	0.051"	0.008	0.010	£480.00	Blank
PH4		7500			11.42	10.79	11.42	10.79					2.10mm	1.30mm	0.203	0.254	Per Pair	
Notes	A Cam Giving Good Mid Range	e Power. W	ill Not Rui	n on Stan	dard Inje	ction. Ca	ım Carrie	r Mods F	Required. Do	Not Use T	op Shim F	ollowers	•	•	•	•	•	
FORZ/294/460M	Race Cam	4000	294	284	0.460	0.430	0.460	0.430	39-75	70-34	108	108	0.128"	0.108"	0.008	0.010	£480.00	Blank
PH5		8000			11.68	10.91	11.68	10.91					3.26mm	2.75mm	0.203	0.254	Per Pair	
Notes	Race Cam Giving a Flat Power	Curve Gro	und on a	Chilled Ire	n Blank.	Do Not	Use Top	Shim Fo	llowers						<u> </u>			

Ford Zetec 1.8/2.00 Escort Orion Mk5/6/7/8 Mondeo Mk1 and Probe 2 Litre Additional Components

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Part No	Description	Price
DNPOPVPZE	2 x Ford Zetec Vernier Pulleys	£180.00
TB8131	Timing Belt (131mmx 25mm)	£24.00
DNS2674	16 x 180 Poundage Chrome Vanadium Beehive Valve Springs	£130.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



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Ford Camshaft Data: - Sigma, Zetec, Focus, Fiesta, 1.25/1.4/1.6 16 Valve

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FORS/240/280	Road Cam	2000	240	240	0.270	0.270	0.280	0.280	10-50	50-10	110	110	0.020"	0.020"	0.008	0.010	£480.00	Blank
PH1		6000			6.85	6.85	7.11	7.11					0.50mm	0.50mm	0.203	0.254	Per Pair	
Notes	Low Mid Range Power. Will Ru	ın on Stand	lard Inject	ion														
FORS/260/300	Fast Road Cam	2500	260	260	0.290	0.290	0.300	0.300	20-60	60-20	110	110	0.031"	0.031"	0.008	0.010	£480.00	Blank
PH2		7250			7.36	7.36	7.61	7.61					0.82mm	0.82mm	0.203	0.254	Per Pair	
Notes	Good Mid Range Power will No	t Run on S	tandard Ir	njection. F	Requires	ECU Re	orogrami	ne										
FORS/274/325	Tarmac Rally/Sprint Cam	3000	274	274	0.315	0.315	0.325	0.325	29-65	67-27	108	110	0.059"	0.053"	0.008	0.010	£480.00	Blank
PH3		7500			7.99	7.99	8.25	8.25					1.50mm	1.36mm	0.203	0.254	Per Pair	
Notes	A Fast Road Rally Cam Good I	Mid Upper F	Range Po	wer														
FORS/280/350	Tarmac Rally/Sprint Cam	3750	280	280	0.340	0.340	0.350	0.350	32-68	70-30	108	110	0.071"	0.063"	0.008	0.010	£480.00	Blank
PH4		7500			8.63	8.63	8.88	8.88					1.80mm	1.60mm	0.203	0.254	Per Pair	
Notes	A Free Revving Cam Suitable t	for Competi	ition Use	Only														
FORS/294/400	Race Cam	4500	294	284	0.390	0.370	0.400	0.380	39-75	70-34	108	108	0.108"	0.088"	0.008	0.010	£480.00	Blank
PH5		8500			9.90	9.39	10.15	9.64					2.75mm	2.25mm	0.203	0.254	Per Pair	
Notes	A Race Cam Giving Power from	n 4500 to 8	500															

Ford Sigma, Zetec, Focus, Fiesta, 1.25/1.4/1.6 16 Valve Addional Components

Part No	Description	Price
DNS2670	16 x Single Valve Spring 160 Poundage Chrome Vanadium Wire	£120.00
DNV600	16 x Chrome Moly Valve Caps to Suit DNS2670 Valve Spring Non Beehive Type	£48.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



Ford Camshaft Data :- Duratec 16 Valve Mondeo Mk3 1.8/2.00/2.3

Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC		Ex	In	Ex	Ex VAT	Туре
FORD/258/372	Road Cam	2000	258	258	0.372	0.372	0.372	0.372	19-59	59-19	110	110	0.031"	0.031"	0.008	0.010	£480.00	Blank
PH1		7000			9.44	9.44	9.44	9.44					0.80mm	0.80mm	0.203	0.254	Per Pair	
Notes	Low Mid Range Power. Will Ru	ın on Stand	ard Inject	ion														
FORD/278/375	Fast Road Cam	2500	278	278	0.375	0.375	0.375	0.375	29-69	69-29	110	110	0.034"	0.034"	0.008	0.010	£480.00	Blank
PH2		7250			9.52	9.52	9.52	9.52					0.85mm	0.85mm	0.203	0.254	Per Pair	
Notes	Good Mid Range Power. Will R	Run on Stan	dard Inje	ction														
FORD/284/396	Fast Road Cam Rally Cam	2750	284	284	0.396	0.396	0.396	0.396	30-70	70-30	110	110	0.055"	0.055"	0.008	0.010	£480.00	Blank
PH3		7250			10.05	10.05	10.05	10.05					1.40mm	1.40mm	0.203	0.254	Per Pair	
Notes	Good Mid Upper Range Power	. Suitable fo	or Road a	nd Rally S	Should W	ork with	Standard	d Pistons	if Head Has	Not Been	Skimmed							
FORD/284/450	Tarmac Rally/Sprint Cam	3750	284	284	0.450	0.450	0.450	0.450	34-70	67-27	108	110	0.085"	0.085"	0.008	0.010	£480.00	Blank
PH4		7500			11.42	11.42	11.42	11.42					2.15mm	2.15mm	0.203	0.254	Per Pair	
Notes	A Free Revving Cam Suitable f	or Competi	tion Use	Only														
FORD/294/460	Race Cam	4500	294	294	0.460	0.460	0.460	0.460	39-75	70-34	108	108	0.130"	0.130"	0.008	0.010	£480.00	Blank
PH5		8500			11.68	11.68	11.68	11.68					3.15mm	3.15mm	0.203	0.254	Per Pair	
Notes	A Race Cam Giving Power from	n 4500 to 8	500															

Ford Duratec 16 Valve Mondeo Mk3 1.8/2.00/2.3 Additional Components

Part No	Description	Price
DNPOPVPD	2 x Ford Duratec Vernier Pulleys	£160.00
DNS2674	16 x Single Beehive Valve Springs 180 Poundage	£130.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



Ford Camshaft Data :- Puma 1.7 16 Valve

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Ful	l Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FORP/270/350	Road Cam	2000	270	260	0.350	0.320	0.350	0.320	25-65	60-20	110	110	0.032"	0.030"	0.008	0.010	£485.00	Blank
PH1		68000			8.88	8.12	8.88	8.12					0.82mm	0.75mm	0.203	0.254	Per Pair	
Notes	Good Bottom Mid Range Powe	r. Will Run	on Stand	ard Inject	ion													
FORP/280/360	Fast Road Cam	3000	280	260	0.360	0.320	0.360	0.320	30-70	60-20	110	110	0.047"	.030"	0.008	0.010	£485.00	Blank
PH2		7000			9.14	8.12	9.14	8.12					1.20mm	0.75mm	0.203	0.254	Per Pair	
Notes	Good Mid Range Power. Will R	un on Stan	dard Inje	ction But	Best with	Modified	System											
FORP/280/375	Tarmac Rally/Sprint Cam	3500	280	270	0.375	0.340	0.375	0.340	35-75	65-25	110	110	0.060"	0.047"	0.008	0.010	£485.00	Blank
PH4		7500			9.52	8.63	9.52	8.63					1.50mm	1.20mm	0.203	0.254	Per Pair	
Notes	A Competition Cam Giving Goo	d Mid Ran	ge Power	. Will Not	Run on S	Standard	Injection											
FORP/300/400	Race Cam	4000	300	290	0.400	0.380	0.400	0.380	40-80	75-35	110	110	0.095"	0.082"	0.008	0.010	£485.00	Blank
PH5		8000			10.15	9.64	10.15	9.64					2.40mm	2.10mm	0.203	0.254	Per Pair	
Notes	Full Race Cam Circuit Use Only	y .																

Ford Puma 1.7 16 Valve Additional Components

Part No	Description	Price
DNCF68	16 x Top Shim Cam Followers (28mm x 22.15mm)	£120.00
DNCF61	16 x Mechanical Cam Followers Bottom Shim Type (28mm x 22.15mm)	£120.00
TB5044	Timing Belt (117mm x 22mm)	£22.45
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Ford Camshaft Data :- KA 1.3 HCS Engine

Rocker Ratio 1 : 1 514 This camshaft does NOT fit the later ROCAM Duratec engine!

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Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FORKA/264/363	Fast Road Cam	1500	264	264	0.363	0.363	0.240	0.240	20-64	64-20	110		0.036"		0.014	0.016	£140.00	Blank
PH1		6000			9.22	9.22	6.09	6.09					0.91mm		0.356	0.406		
Notes	Good Bottom End Mid Range F	Power											-					
FORKA/278/379	Fast Road Cam	2000	278	278	0.379	0.379	0.250	0.250	29-69	69-29	110		0.056"		0.008	0.010	£140.00	Blank
PH3		6500			9.62	9.62	6.35	6.35					1.44mm		0.203	0.254		
Notes	Free Revving Cam Giving Pow	er in the Mi	d Upper F	Range														
FORKA/290/401	Tarmac Rally/Sprint Cam	3750	290	290	0.401	0.401	0.265	0.265	35-75	75-35	110		0.077"		0.008	0.010	£140.00	Blank
PH4		7000			10.18	10.18	6.73	6.73					1.97mm		0.203	0.254		
Notes	A Race Tarmac Rally Cam												-					

Ford KA 1.3 HCS Engine Additional Components

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Part No	Description	Price
DNCF05B	8 x Super Finish Cam Followers	£40.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

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Website: www.newman-cams.com

Ford Camshaft Data :- BDA/BDG/BDT COSWORTH 16 Valve

Part No	Application	Power	Dura	ition	Valv	e Lift	Cam	Lift	Tim	ing	Ful	Lift	_	D TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FORB/292/380	Mild Rally Cam	2500	292	292	0.380	0.380	0.380	0.380	38-78	78-38	110	110	0.111"	0.111"	0.008	0.010	£495.00	Blank
PH1		7000			9.64	9.64	9.64	9.64					2.82mm	2.82mm	0.203	0.254	Per Pair	
Notes	Good Bottom Mid Range Power	r																
FORB/300/400	Rally Cam	3000	300	300	0.400	0.400	0.400	0.400	40-80	80-40	110	110	0.118"	0.118"	0.008	0.010	£495.00	Blank
PH2		7000			10.15	10.15	10.15	10.15					2.99mm	2.99mm	0.203	0.254	Per Pair	
Notes	Rally Cam Giving Good Mid Ra	nge Power	with High	Revving	Ability													
FORB/308/420	Tarmac Rally/Sprint Cam	3500	308	300	0.420	0.400	0.420	0.400	42-82	80-40	110	110	0.118"	0.118"	0.008	0.010	£495.00	Blank
PH4		7500			10.66	10.15	10.66	10.15					2.99mm	2.99mm	0.203	0.254	Per Pair	
Notes	A Competition Cam Giving Goo	d Mid Ran	ge Power															
FORB/320/430	Race Cam	4000	320	318	0.430	0.430	0.430	0.430	58-82	82-58	106	106	0.168"	0.168	0.008	0.010	£495.00	Blank
PH5		8000			10.91	10.91	10.91	10.91					4.26mm	4.26mm	0.203	0.254	Per Pair	
Notes	Full Race Cam Circuit Use Only	y																

Ford BDA/BDG/BDT Additional Components

Part No	Description	Price
K456	16 x BDA Cam Followers Long Internal Stem Type	£300.00
K457	16 x BDA Cam Followers	£300.00
K456	1 x Steel Jackshaft	£160.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Ford Camshaft Data :- Ford V6 Essex 2.5/3.00

Rocker Ratio 1 : 1.45

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Ful	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	ln	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FORE/260/377	Road Cam	2000	260	260	0.377	0.377	0.260	0.260	30-70	70-30	110	110	0.057"		0.014	0.016	£250.00	Blank
PH1		6000			9.57	9.57	6.60	6.60					1.45mm		0.356	0.406		
Notes	A Road Cam that will Give a S	mooth Idle	and Work	with Auto	Transm	ission												
FORE/280/406	Fast Road Cam	2000	280	280	0.406	0.406	0.280	0.280	30-70	70-30	110	110	0.068"		0.014	0.016	£250.00	Blank
PH2		6000			10.30	10.30	7.11	7.11					1.73mm		0.356	0.406		
Notes	Good Bottom Mid Range Pow	er will Run v	vith Stand	ard Twin	Choke C	arb												
FORE/292/450	Tarmac Rally/Sprint Cam	3500	292	292	0.450	0.450	0.310	0.310	36-76	76-36	110	110	0.085"		0.016	0.018	£250.00	Blank
PH4		7500			11.41	11.41	7.87	7.87					2.16mm		0.406	0.457		
Notes	A 3/4 Race Race Cam Suitabl	e for Drag F	Racing															
FORE/320/464	Race Cam	4000	300	300	0.464	0.464	0.320	0.320	40-80	80-40	106	106	0.157"		0.016	0.018	£250.00	Blank
PH5		8000			11.78	11.78	8.12	8.12					3.98mm		0.406	0.457		
Notes	Full Race Cam Circuit use only	у																

Ford V6 Essex 2.5/3.00 Additional Components

Part No	Description	Price
DNCF06	12 x Chilled Iron Cam Followers	£90.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



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Ford Focus RS and ST 5 Cylinder Camshaft Data **Mechanical Cam Follower**

Mechanical Cam Follower Models

Part No	Application	Power	Duration		Valve Lift		Cam Lift		Timing		Full Lift		Lift @ TDC with clearance		Valve Clear		Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FOR5/260/370	Fast Road Cam	1500	260	280	0.356	0.354	0.364	0.364	22-66	72-28	112	112	0.028"	0.032"	0.016	0.010	£610.00	Blank
PH1		6000			9.04	8.98	9.24	9.24					0.65mm	0.85mm	0.406	0.254	Per Pair	
Notes	Suitable for the Standard Engine. Remap May Be Required																	
FOR5/280/400	Fast Road Cam	2500	272	280	0.400	0.400	0.400	0.400	24-68	72-28	112	112	0.032"	0.039"	0.008	0.010	£610.00	Blank
PH2		7000			10.15	10.15	10.15	10.15					0.80mm	1.00mm	0.203	0.254	Per Pair	
Notes	Suitable Engine with Pocketed Pistons. Remap Required																	
FOR5/284/400	Race Cam	3000	284	280	0.400	0.400	0.400	0.400	30-74	72-28	112	112	0.047"	0.039"	0.008	0.010	£610.00	Blank
PH3		8000			10.15	10.15	10.15	10.15					1.20mm	1.00mm	0.203	0.254	Per Pair	
Notes	Suitable Engine with Pocketed Pistons. Remap Required 700+BHP Has Been Seen with this Cam!																	

Ford Ecoboost 1.6/1.8 Camshaft Data **Mechanical Cam Follower**

Mechanical Cam Follower Models

Part No	Application	Power	Duration		Valve Lift		Cam Lift		Timing		Full Lift		Lift @ TDC with clearance		Valve Clear		Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
FOREB/240/327	Stage 1 Fast Road Cam	2000	240	224	0.327	0.259	0.337	0.275	-8-68	32-12	128	100	0	0.022"	0.010	0.016	£500.00	Blank
PH1		7000			8.30	6.57	8.55	6.98					0.00mm	0.55mm	0.254	0.406	Per Pair	
Notes	Suitable for the Standard Engine. Remap May Be Required																	
FOREB/260/352	Stage 2 Fast Road/Rally	2000	260	244	0.340	0.288	0.352	0.300	2-78	42-22	128	100	0.003	0.042	0.012	0.012	£500.00	Blank
PH2	Cam	7500			8.63	7.31	8.93	7.61					0.80mm	1.00mm	0.305	0.305	Per Pair	
Notes	Suitable for the Standard Engine. Remap May Be Required																	

Ford Focus RS/ST 5 Cylinder and Ecoboost Additional Components

Part No	Description	Price
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00





Jaguar

Jaguar Camshaft Data: - XK Engines 2.4 to 4.2 6 Cyl Chilled Iron Camshafts

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
JAG/260/408	Road Cam	1500	260	260	0.408	0.404	0.408	0.404	20-60	60-20	110	110	0.055"	0.055"	0.008	0.010	£500.00	Blank
PH1		5500			10.36	10.25	10.36	10.25					1.40mm	1.40mm	0.203	0.254	Per pair	
Notes	Cam Suited for Road Use. Goo	od Idle and I	Little Loss	s of Low [Down Pov	ver. Idea	lly suited	for the C	riginal SU (Carbs								
JAG/270/410	Fast Road Cam	2000	270	270	0.410	0.408	0.410	0.408	25-65	65-25	110	110	0.069"	0.069"	0.008	0.010	£500.00	Blank
PH2		6000			10.41	10.36	10.41	10.36					1.75mm	1.75mm	0.203	0.254	Per pair	
Notes	Cam Suited for Fast Road Rall	y Use. Goo	d Idle and	d Mid Ran	ge Powe	r. Not Su	iited for t	he 2.4/2.	8 Models									
JAG/280/450	Tarmac Rally/Race Cam	3000	280	280	0.450	0.448	0.450	0.448	30-70	70-30	110	110	0.078"	0.078"	0.008	0.010	£500.00	Blank
PH4		6500			11.42	11.37	11.42	11.37					2.00mm	2.00mm	0.203	0.254	Per pair	
Notes	Competition Cam for Use with	Triple SU o	r DCOE (Carbs. Ide	al for Sp	rint s/Hill	Climbs											
JAG/290/500	Race Cam	3500	290	290	0.500	0.452	0.500	0.498	35-75	75-35	110	110	0.118"	0.118"	0.008	0.010	£500.00	Blank
PH5		6500			12.69	11.47	12.69	12.64					3.00mm	3.00mm	0.203	0.254	Per pair	
Notes	A Race Cam Only Suited for C	ircuit Race	Use. Best	t with Trip	le DCOE	Carbs o	r Injectio	n										

Jaguar Camshaft Data :- XK Engines 2.4 to 4.2 6 Cyl EN40B Nitrided Steel Camshafts

Part No	Application	Power	Dura	ation	Valve	e Lift	Can	Lift	Tim	ing	Ful	Lift	_	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
JAG/280/450	Tarmac Rally/Race Cam	3000	280	280	0.450	0.448	0.450	0.448	30-70	70-30	110	110	0.078"	0.078"	0.008	0.010	£1,400.00	Billet
PH4		6500			11.42	11.37	11.42	11.37					2.00mm	2.00mm	0.203	0.254	Per pair	
Notes	Competition Cam for Use with	Triple SU o	r DCOE C	Carbs. Ide	al for Spi	rint s/Hill	Climbs											
JAG/290/500	Race Cam	3500	290	290	0.500	0.452	0.500	0.498	35-75	75-35	110	110	0.118"	0.118"	0.008	0.010	£1,400.00	Billet
PH5		6500			12.69	11.47	12.69	12.64					3.00mm	3.00mm	0.203	0.254	Per pair	
Notes	A Race Cam Only Suited for Ci	rcuit Race	Use. Best	with Trip	le DCOE	Carbs o	r Injectio	n										

These cams are ground to order and are suitable for the Large Lobe D Type Head. Notes:-

Jaquar Additional Components

- Cagaai / taaitioilai Co		
Part No	Description	Price
DNCF14	12 x Chilled Iron Std Cam Buckets (1.375" Dia)	£100.00
K482	12 x EN40B Standard Diamter Cam Buckets (1.375" Dia)	£225.00
K521	12 x EN40B O/S Cam Buckets (1.4" Dia)	£225.00
K483	12 x EN40B O/S Cam Buckets (1.5" Dia)	£225.00
DNS1065S	12 x Competition Double Valve Springs	£90.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00







Website: www.newman-cams.com



Lotus / Mitsubishi

Lotus Ford Twin Cam Camshaft Data :- Twin Cam 8 Valve

Part No	Application	Power	Dura	ation	Valve	e Lift	Cam	Lift	Tim	ing	Ful	l Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	ln	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	ln	Ex	In	Ex	Ex VAT	Type
LOT/270/352	Fast Road Cam	1500	270	270	0.352	0.350	0.352	0.350	25-65	65-25	110	110	0.047"	0.047"	0.008	0.010	£450.00	Blank
PH1		6000			8.93	8.88	8.93	8.88					1.2mm	1.2mm	0.203	0.254	Per pair	
Notes	The Original Lotus Special Equ	ipment Car	n Profile S	Superb fo	r Normal	Road Us	se											
LOT/280/382	Fast Road Cam	2000	280	280	0.382	0.382	0.382	0.382	30-70	70-30	110	110	0.080"	0.080"	0.008	0.010	£450.00	Blank
PH2		6500			9.70	9.70	9.70	9.70					2.03mm	2.03mm	0.203	0.254	Per pair	
Notes	Cam Suited for Fast Road Rally	y Use. Shou	uld Fit witl	hout Cutti	ing the S	pring Sea	ats But C	heck Fitte	ed Spring Le	ength								
LOT/280/420	Tarmac Rally/Sprint Cam	3750	280	280	0.420	0.420	0.420	0.420	32-68	68-32	108	108	0.088"	0.088"	0.008	0.010	£450.00	Blank
PH4		7000			10.66	10.66	10.66	10.66					2.23mm	2.23mm	0.203	0.254	Per pair	
Notes	High Torque Rally Camshaft Sp	orings Seat	s will Nee	d Machin	ing	•					•	•			•			
LOT/280/443	Race Cam	3750	280	280	0.443	0.443	0.443	0.443	32-68	68-32	108	108	0.108"	0.108"	0.008	0.010	£450.00	Blank
PH5		7000			11.24	11.24	11.24	11.24					2.74mm	2.74mm	0.203	0.254	Per pair	
Notes	A High Torque Race Camshaft	for Non Ste	eel Engine	es Spring	Seats wi	ill Need N	/lachining	3										
LOT/306/408	Tarmac Rally/Sprint Cam	3750	306	306	0.408	0.408	0.400	0.400	47-79	81-45	106	108	0.130"	0.118"	0.008	0.010	£450.00	Blank
PH4		7000			10.36	10.36	10.15	10.15					3.3mm	3.0mm	0.203	0.254	Per pair	
Notes	The Original L1 Race Camshaf	t. Spring Se	eats will N	leed Mac	hining. Id	leal for E	ndurance	Racing		•	•	•			•			•
LOT/320/450	Race Cam	3750	320	320	0.452	0.450	0.452	0.450	54-86	84-56	104	106	0.166"	0.146"	0.008	0.010	£450.00	Blank
PH5		7000			11.47	11.42	11.47	11.42					4.21mm	3.71mm	0.203	0.254	Per pair	
Notes	A Race Cam for Circuit Use On	nly Based o	n the Orig	jinal BRM	Phase 4	Profile				•		*			•			

Lotus Ford Twin Cam 8 Valve Additional Components

Part No	Description	Price
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00
DNCF14	8 x Chilled Iron Std Cam Buckets (1.375" Dia)	£100.00

Mitsubishi Camshaft Data :- EVO4/5/6/7/8

Rocker Ratio 1 · 1 7

Part No	Application	Power	Dura	ation	Valv	e Lift	Can	Lift	Tim	ing	Ful	Lift	•	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
MIT/264/442	Mild Rally Cam	2500	264	258	0.442	0.423	0.260	0.249	22-62	58-18	110	110			Hyd	Hyd	£480.00	Blank
PH2		7000			11.22	10.74	6.60	6.32							Hyd	Hyd	Per Pair	
Notes	Good Bottom Mid Range Pov	ver																
MIT/272/444	Mild Rally Cam	3000	272	268	0.444	0.423	0.261	0.249	31-71	64-24	110	110			Hyd	Hyd	£480.00	Blank
PH3		7500			11.26	10.74	6.62	6.32							Hyd	Hyd	Per Pair	
Notes	Powerfull Rally Cam			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>		<u> </u>					









Nissan

Nissan Camshafts Data :- Datsun 240Z/260Z

Rocker Ratio 1: 1.58

Part No	Application	Power	Dura	tion	Valve	e Lift	Cam	Lift	Tin	ning	Ful	l Lift	Lift @	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
DAT/275/474	Fast Road Cam	2000	275	275	0.474	0.474	0.313	0.313	27-67	67-27	110	110			0.010	0.012	£325.00	Blank
PH1		6000			12.03	12.03	7.94	7.94							0.250	0.300		
Notes	Good Bottom & Mid Range Po	wer									•							
DAT/284/474	Rally Cam	2500	284	284	0.474	0.474	0.313	0.313	33-71	71-33	109	109			0.010	0.012	£325.00	Blank
PH2		7000			12.03	12.03	7.94	7.94							0.250	0.300		
Notes	Powerfull Rally Cam																	

Nissan Camshaft Data :- 200 SX

Rocker Ratio 1:1.7

Trooker Tratie 1																		
Part No	Application	Power	Dura	tion	Valv	e Lift	Cam	Lift	Tin	ning	Ful	l Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
NIS/264/390	Mild Rally Cam	2500	258	258	0.396	0.396	0.264	0.264	19-59	59-19	110	110			Hyd	Hyd	£495.00	Blank
PH2		6000			10.05	10.05	6.70	6.70									Per Pair	
Notes	Good Bottom Mid Range Powe	er																
NIS/272/443	Fast Road Rally Cam	2500	272	272	0.443	0.443	0.295	0.295	26-66	66-26	110	110			Hyd	Hyd	£495.00	Blank
PH3		7000			11.23	11.23	7.49	7.49									Per Pair	
Notes	Powerfull Mid Range Rally Ca	am																

Nissan Camshaft Data :- Pulsar GTIR

Rocker Ratio 1 · 1 7

Part No	Application	Power	Dura	tion	Valv	e Lift	Cam	Lift	Tin	ning	Ful	l Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
NIP/260/468	Fast Road Cam	2500	260	260	0.468	0.468	0.275	0.275	20-60-	60-20	110	110			0.008	0.010	£495.00	Blank
PH1		7000			11.87	11.87	6.98	6.98							0.203	0.254	Per Pair	
Notes	Smooth Tickover Ideal Road	Cam																
NIP/268/468	Mild Rally Cam	2500	268	268	0.468	0.468	0.275	0.275	24-64	64-24	110	110			0.008	0.010	£495.00	Blank
PH2		7000			11.87	11.87	6.98	6.98							0.203	0.254	Per Pair	
Notes	Good Bottom Mid Range Pow	er			•										•			
NIP/272/502	Fast Road Rally Cam	3000	272	272	0.502	0.502	0.295	0.295	26-66	66-26	110	110			0.008	0.010	£495.00	Blank
PH3		7500			12.73	12.73	7.49	7.49							0.203	0.254	Per Pair	
Notes	Powerfull Rally Cam																	
NIP/280/509	Race Tarmac Rally Cam	2500	280	280	0.519	0.519	0.305	0.305	24-64	64-24	110	110			0.008	0.010	£495.00	Blank
PH4		7000			13.16	13.16	7.74	7.74							0.203	0.254	Per Pair	
Notes	Competition Tarmac Rally Ca	m					•											
NIP/290/536	Race Cam	3000	290	290	0.536	0.536	0.315	0.315	35-75	75-35	110	110			0.008	0.010	£495.00	Blank
PH5		7500			13.59	13.59	7.99	7.99							0.203	0.254	Per Pair	
Notes	Race Cam																	







Peugeot Camshaft Data :- 106/306 8V 1993 Onwards (Iron Block)

Rocker Ratio 1: 1.4

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Ful	l Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
PEUR/260/350	Road Cam	1500	260	260	0.350	0.347	0.250	0.248	20-60	60-20	110				0.008	0.010	£235.00	Blank
PH1		6500			8.88	8.81	6.35	6.29							0.200	0.250		
Notes	Good Bottom End/Mid Range Po	wer will Ru	n on Star	dard Inje	ction. No	t for 1.3/	1.6 Rally	Model										
PEUR/280/392	Fast Road Cam	2000	280	280	0.392	0.389	0.280	0.278	30-70	70-30	110				0.008	0.010	£235.00	Blank
PH2		7000			9.95	9.88	7.11	7.06							0.200	0.250		
Notes	Suitable for 1.3/1.6 Rally Model																	
PEUR/288/406	Tarmac Rally Sprint Cam	3000	288	288	0.406	0.403	0.290	0.288	34-74	74-34	110				0.008	0.010	£235.00	Blank
PH4		7500			10.30	10.23	7.36	7.31							0.200	0.250		
Notes	Good Mid Upper Range will Not	Run on Std	Injection															
PEUR/308/420	Race Cam	4000	308	308	0.420	0.389	0.300	0.278	44-84	84-44	110				0.008	0.010	£235.00	Blank
PH5		8000			10.66	9.88	7.61	7.06							0.200	0.250		
Notes	Powerful Mid Range Race Cam				•		•			•	•				•			

Peugeot 106/306 8V 1993 Onwards (Iron Block) Additional Components

· · · · · · · · · · · · · · · · · · ·	to contained (non-ziron) thankerian components	
Part No	Description	Price
DNP1006	Vernier Pulley Hard Anodised	£90.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Peugeot Camshaft Data :- 205/309 GTI 1600/1900

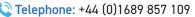
Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Timi	ing	Full	Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
PEUI/268/470	Road Cam	2000	268	268	0.470	0.468	0.470	0.468	24-64	64-24	110		0.055"		0.008	0.010	£240.00	Blank
PH1		6500			11.93	11.88	11.93	11.88					1.40mm		0.200	0.250		,
Notes	Good Bottom End/Mid Range Po	wer will Ru	n on Stan	dard Inje	ction													
PEUI/280/470	Fast Road Cam	2000	280	280	0.470	0.468	0.470	0.468	30-70	70-30	110		0.079"		0.008	0.010	£240.00	Blank
PH3		7000			11.93	11.88	11.93	11.88					2.00mm		0.200	0.250		,
Notes	Will Not Run on Standard Injection	on																
PEUI/300/490	Tarmac Rally Sprint Cam	3000	300	300	0.490	0.488	0.490	0.488	42-78	78-42	108		0.125"		0.008	0.010	£240.00	Blank
PH4		7500			12.44	12.39	12.44	12.39					3.16mm		0.200	0.250		,
Notes	Good Mid Upper Range Power w	ill Not Run	on Stand	ard Inject	tion						•					•		-
PEUI/312/524	Race Cam	4000	312	312	0.524	0.522	0.524	0.522	48-84	84-48	108		0.140"		0.008	0.010	£240.00	Blank
PH5		8000			13.30	13.25	13.30	13.25					3.55mm		0.200	0.250		
Notes	Powerful Mid Range Race Cams	haft																

Peugeot 205/309 GTI 1600/1900 Additional Components

Part No	Description	Price
DNCF5009	8 x 1600/1900 GTI 8 Valve Cam Followers (38mm x 35mm)	£100.00
DNP1006	Vernier Pulley Hard Anodised	£90.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00













Peugeot Camshaft Data :- 205 1360CC Alloy Block

Rocker Ratio 1: 1.4

Part No	Application	Power	Dura	ition	Valve	e Lift	Cam Lift		Timi	ng	Ful	l Lift	Lift @ TDC with clearance		Valve Clear		Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
PEUSR/260/350	Road Cam	1500	260	260	0.350	0.347	0.250	0.248	20-60	60-20	110				0.008	0.010	£235.00	Blank
PH1		6500			8.88	8.81	6.35	6.29							0.200	0.250		
Notes	Ideal Road Cam for Town Use.	Good Idle																
PEUSR/290/399	Tarmac Rally Sprint Cam	2000	290	290	0.399	0.396	0.285	0.283	35-75	75-35	110				0.008	0.010	£235.00	Blank
PH3		7000			10.13	10.06	7.23	7.18							0.200	0.250		
Notes	Mid Top End Power Rally/Sprint	Camshaft																
PEUSR/308/406	Race Cam	4000	308	308	0.406	0.403	0.290	0.288	44-84	84-44	108				0.008	0.010	£235.00	Blank
PH4		8000			10.30	10.23	7.36	7.31							0.200	0.250		
Notes	Powerful Mid Range Race Cam								·	·				•	<u> </u>	<u> </u>	·	

Peugeot 205 1360CC Alloy Block Additional Components

Part No	Description	Price
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Peugeot Camshaft Data :- 106 1.6 16 Valve

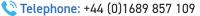
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Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle) TDC earance	Valve	Clear	Price	Material
		Band	ln	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
CITVTS/256/380	Road Cam	2000	256	256	0.380	0.380	0.380	0.380	18-58	58-18	110	110	1.30mm	1.30mm	Hyd	Hyd	£360.00	Blank
PH1		7000			9.64	9.64	9.64	9.64									Per Pair	
Notes	Good Increase of Low Mid Range	e Power. Sr	nooth Idle)														
CITVTS/264/400	Fast Road Cam	3000	264	264	0.400	0.400	0.400	0.400	22-62	62-22	110	110	1.80mm	1.80mm	Hyd	Hyd	£360.00	Blank
PH3		7000			10.15	10.15	10.15	10.15									Per Pair	
Notes	Fast Road Cam Giving Plenty of	Mid Range	Power. V	Vill Run c	n Standa	rd Injecti	on with E	CU Mod	S									
CITVTS/280/430	Sprint/Tarmac Rally	3500	280	280	0.430	0.430	0.430	0.430	32-68	70-30	108	110	2.30mm	2.10mm	Hyd	Hyd	£360.00	Blank
PH4		7500			10.91	10.91	10.91	10.91									Per Pair	
Notes.	Sprint/Tarmac Rally Cam Require	es Throttle	Bodies															
CITVTS/290/450	Race Cam	4500	290	290	0.442	0.440	0.442	0.440	41-69	71-39	104	106	3.7mm	3.4mm	0.008	0.010	£360.00	Blank
PH5		8500			11.22	11.17	11.22	11.17							0.203	0.254	Per Pair	
Notes	Race Cam Giving a Wide Spread	d of Power	from 4500	RPM														

Peugeot 106 1.6 16 Valve Additional Components

Part No	Description	Price
DNCHL88	16 x Hydrualic Cam Followers (28.35mm x 26mm)	£220.00
DNCF6000	16 x Easy Adjust Non Shim Cam Followers (28.35mm x 26mm)	£300.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
DNS2670	16 x Competion Silicon Chrome 180 lbs Valve Springs	£120.00











Peugeot Camshaft Data :- M1 16 16 Valve

Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Timi	ng	Full	Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	ln	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
PEUM/264/400H	Road Cam	2000	258	258	0.400	0.400	0.400	0.400	19-59	59-19	110	110	0.071"	0.071"	Hyd	Hyd	£580.00	Billet
PH1		6500			10.15	10.15	10.15	10.15					1.80mm	1.80mm			Per Pair	
Notes	Ideal for Road Use. Good Tickov	er																
PEUM/280/420H	Road/Rally Cam	2500	280	280	0.420	0.420	0.420	0.420	30-70	70-30	110	110	0.071"	0.071"	Hyd	Hyd	£580.00	Billet
PH3		7500			10.66	10.66	10.66	10.66					1.80mm	1.80mm			Per Pair	
Notes	Will Not Run on Standard Injection	on																
PEUM/288/440H	Tarmac Rally Sprint Cam	3000	288	288	0.440	0.440	0.440	0.440	36-72	72-32	108	108	0.083"	0.083"	Hyd	Hyd	£580.00	Billet
PH4		7500			11.17	11.17	11.17	11.17					2.10mm	2.10mm			Per Pair	
Notes	Good Mid Upper Range Power. V	Will Not Ru	า on Stan	dard Inje	ction													
PEUM/312/470	Race Cam	4000	312	312	0.470	0.468	0.470	0.468	48-84	84-48	108	108	0.142"	0.142"	0.008	0.010	£580.00	Billet
PH5		8000			11.93	11.88	11.93	11.88					3.6mm	3.6mm	0.200	0.250	Per Pair	
Notes	Powerful Mid/Top Range Race C	amshaft									•							

Peugeot M1 16 16 Valve Additional Components

Part No	Description	Price
DNCHL74	16 x Hydrualic Cam Followers (32mm x 26mm)	£180.00
DNCF5121	16 x GTI Mechanical Cam Followers Easy Adjust Non Shim Type (32mm x 26mm)	£300.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Peugeot Camshaft Data :- 306 S16 16 Valve

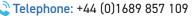
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Part No	Application	Power	Dura	ition	Valv	e Lift	Can	Lift	Timi	ng	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
PEUS/268/390H	Road Cam	2000	258	258	0.390	0.390	0.390	0.390	19-59	59-19	110	110	0.071"	0.071"	Hyd	Hyd	£580.00	Steel
PH1		6500			9.90	9.90	9.90	9.90					1.80mm	1.80mm			Per Pair	Billet
Notes	Ideal for Road Use. Good Tickov	er							•						-			•
PEUS/280/420H	Road/Rally Cam	2500	280	280	0.420	0.420	0.420	0.420	30-70	70-30	110	110	0.071"	0.071"	Hyd	Hyd	£580.00	Steel
PH3		7500			10.66	10.66	10.66	10.66					1.80mm	1.80mm			Per Pair	Billet
Notes	Will Not Run on Standard Injection	on																
PEUS/288/440H	Tarmac Rally Sprint Cam	3000	288	288	0.440	0.440	0.440	0.440	36-72	72-36	108	108	0.083"	0.083"	Hyd	Hyd	£580.00	Steel
PH4		7500			11.17	11.17	11.17	11.17					2.10mm	2.10mm			Per Pair	Billet
Notes	Good Mid Upper Range Power.	Will Not Ru	n on Stan	dard Inje	ction													
PEUS/312/470	Race Cam	4000	312	312	0.470	0.468	0.470	0.468	48-84	84-48	108	108	0.142"	0.142"	0.008	0.010	£580.00	Steel
PH5		8000			11.93	11.88	11.93	11.88					3.6mm	3.6mm	0.200	0.250	Per Pair	Billet
Notes	Powerful Mid/Top Range Camsh	aft																

Peugeot 306 S16 16 Valve Additional Components

Part No	Description	Price
DNCHL74	16 x Hydrualic Cam Followers (32mm x 26mm)	£180.00
DNCF5121	16 x GTI Mechanical Cam Followers Easy Adjust Non Shim Type (32mm x 26mm)	£300.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

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Peugeot Camshaft Data :- 206/307 2.0 GTI

Part No	Application	Power	Dura	ation	Valve	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
PEUG/258/380	Road Cam	2000	258	258	0.380	0.380	0.380	0.380	1858	54-14	110	110	0.051"	0.051"	Hyd	Hyd	£480.00	Blank
PH1		6500			9.64	9.64	9.64	9.64					1.3mm	1.3mm			Per Pair	
Notes	Ideal for Road Use. Good Ticko	over																
PEUG/264/385	Road/Rally Cam	2500	264	264	0.385	0.385	0.385	0.385	22-62	62-22	110	110	0.055"	0.055"	Hyd	Hyd	£480.00	Blank
PH2		7500			9.77	9.77	9.77	9.77					1.40mm	1.40mm			Per Pair	
Notes	Will Run on Standard Injection	with ECU N	/lods															
PEUG/280/440	Tarmac Rally Sprint Cam	3000	280	280	0.440	0.440	0.440	0.420	32-68	68-32	108	108	0.108"	0.108"	Hyd	Hyd	£480.00	Blank
PH4		7500			11.17	11.17	11.17	10.66					2.75mm	2.75mm			Per Pair	
Notes	Good Mid Upper Range. Will N	ot Run on S	Standard	Injection.	Cam Car	rier Mod	s Requir	ed to Swi	ng 9.77mm	Lift								
PEUG/300/468	Race Cam	4000	300	300	0.468	0.430	0.468	0.430	42-78	78-42	108	108	0.154"	0.154"	0.008	0.010	£480.00	Blank
PH5		8000			11.88	10.91	11.88	10.91					3.90mm	3.90mm	0.200	0.250	Per Pair	
Notes	Powerful Mid Range Race Cam	nshaft. Cam	Carrier N	Mods Red	uired to S	Swing 11	.88mm L	ift										

Peugeot 206/307 2.0 GTI Additional Components

Part No	Description	Price
DNCHL88	16 x Hydraulic Cam Followers (28.35mm x 26mm)	£200.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
DNCF6000	16 x GTI Mechanical Cam Followers Easy Adjust Non Shim Type (28.35mm x 26mm)	£300.00

Peugeot Camshaft Data :- 306 GTI 6

Part No	Application	Power	Dura	ation	Valve	e Lift	Can	Lift	Tim	ing	Ful	l Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
PEUT/258/380	Road Cam	2000	258	258	0.380	0.380	0.380	0.380	1858	54-14	110	110	0.051"	0.051"	Hyd	Hyd	£480.00	Blank
PH1		6500			9.64	9.64	9.64	9.64					1.3mm	1.3mm			Per Pair	
Notes	Ideal for Road Use. Good Ticko	over																
PEUT/264/420	Road/Rally Cam	2500	264	264	0.420	0.420	0.420	0.420	22-62	62-22	110	110	0.055"	0.055"	Hyd	Hyd	£480.00	Blank
PH2		7500			10.66	10.66	10.66	10.66					1.40mm	1.40mm			Per Pair	
Notes	Will Not Run on Standard Inject	tion																
PEUT/280/440	Tarmac Rally Sprint Cam	3000	280	280	0.440	0.440	0.440	0.440	32-68	68-32	108	108	0.108"	0.108"	Hyd	Hyd	£480.00	Blank
PH4		7500			11.17	11.17	11.17	11.17					2.75mm	2.75mm			Per Pair	
Notes	Good Mid Upper Range Power.	Will Not R	un on Sta	ındard İnj	ection													
PEUT/300/468	Race Cam	4000	300	300	0.468	0.430	0.468	0.430	42-78	78-42	108	108	0.154"	0.154"	0.008	0.010	£480.00	Blank
PH5		8000			11.88	10.91	11.88	10.91					3.90mm	3.90mm	0.200	0.250	Per Pair	
Notes	Powerful Mid Range Range Ca	mshaft																

Peugeot 306 GTI 6 Additional Components

Part No	Description	Price
DNCHL74	16 x Hydraulic Cam Followers (32mm x 26mm)	£190.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
DNCF5121	16 x GTI Solid Cam Followers (32mm x 26mm)	£300.00



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Telephone: +44 (0)1689 857 109 E-Mail: info@newman-cams.com



Website: www.newman-cams.com



Porsche

Porsche Camshaft Data :- 911 6 cyl 2 Valve

Rocker Ratio 1 : 1 5

Part No	Application	Power	Dura	ition	Valv	e Lift	Can	Lift	Tim	ing	Full	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
POR/292/525H	Road Cam	2000	292	292	0.488	0.488	0.325	0.325	32-80	76-28		114			Hyd	Hyd	£550.00	Blank
PH1 HYD		6000			12.37	12.37	8.25	8.25									Per Pair	
Notes	Cam Suited for 993 Road Use.	Good Idle	and Little	Loss of L	ow Dowr	Power	-			•			•		-			
POR/300/480/40	Fast Road Cam	2000	300	276	0.479	0.443	0.319	0.295	48-72	60-36		102	4.35mm		0.008	800.0	£550.00	Blank
PH1		6000			12.14	11.23	8.10	7.49							0.203	0.203	Per Pair	
Notes	Cam Suited for Fast Road Rally	/ Use. Goo	d Idle and	Mid Ran	ge Powe	r												
POR/304/497/62	Tarmac Rally/Race Cam	3000	304	286	0.497	0.488	0.331	0.325	50-74	65-41		102	5.00mm		0.008	0.010	£550.00	Blank
PH4		7500			12.60	12.37	8.40	8.25							0.203	0.254	Per Pair	
Notes	Competition Cam Ideal for Rall	y, Track, Da	ays and S	prints														
POR/336/519/RSI	Race Cam	4500	336	332	0.519	0.519	0.346	0.346	66-90	83-59		102			0.008	0.010	£550.00	Blank
PH5		8000			13.17	13.17	8.78	8.78							0.203	0.254	Per Pair	
Notes	A Race Cam Only Suited for Ci	rcuit Race	Use															

State Bearing Size also confirm the drive end dimensions on the rear end of camshaft. Notes:-

Porsche 911 6 cvl 2 Valve Addional Components

1 0100110 0 1 1 0 0y1 2 1	arvo riadional Componente	
Part No	Description	Price
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00
911R/ARM REGRIND	Porsche 911 Rocker Arms Regrind. Customers' Own Rocker Arms Ground and Superfinished	£17.50

Porsche Camshaft Data :- 924 Water Cooled 4 Cyl

Part No	Application	Power	Dura	Duration		e Lift	Can	Lift	Tim	ing	Full	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
POW/280/480	Fast Road Cam	1500	280	280	0.480	0.480	0.480	0.480	30-70	70-30	110	110	0.088"		0.008	0.010	£250.00	Blank
PH1		6000			12.18	12.18	12.18	12.18					2.23mm		0.203	0.254		
Notes	Cam Suited for Road Use Goo	d Idle and L	ittle Loss	of Low D	own Pow	/er										•		
POW/280/480T	Fast Road Cam	1500	280	280	0.480	0.480	0.480	0.480	28-72	72-28	112	112	0.077"		0.008	0.010	£250.00	Blank
PH1	For 924 Turbo	6000			12.18	12.18	12.18	12.18					1.95mm		0.203	0.254		
Notes	Cam Suited for Road Use Goo	d Idle and L	ittle Loss	of Low D	own Pow	/er												

Porsche 924 Water Cooled 4 Cyl Additional Components

Part No	Description	Price
DNCF5008	8 x Porsche 924 Cam Followers O.E Spec Set	£220.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00









Renault

Renault Camshaft Data :- Clio 19 16V F7P Engine Type Cam Bucket Model

Part No	Application	Power	Dura	ation	Valve Lift		Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
RENC/258/380H	Road Cam	2000	258	248	0.380	0.360	0.380	0.360	1858	58-18	110	110	0.035"	0.035"	Hyd	Hyd	£500.00	Blank
PH1		6500			9.64	9.14	9.64	9.14					0.90mm	0.90mm			Per Pair	
Notes	Ideal for Road Use. Good Ticko	over and Lo	w Down I	Power														
RENC/264/420H	Road/Rally Cam	2500	264	264	0.420	0.420	0.420	0.420	22-62	62-22	110	110	0.045"	0.045"	Hyd	Hyd	£500.00	Blank
PH3		7500			10.66	10.66	10.66	10.66					1.15mm	1.15mm			Per Pair	
Notes	Mid Range Cam Free Revving.	Will Not R	un on Sta	ındard İnje	ection													
RENC/280/440H	Tarmac Rally Sprint Cam	3000	280	280	0.440	0.440	0.440	0.440	32-68	68-32	108	108	0.108"	0.108"	Hyd	Hyd	£500.00	Blank
PH4		7500			11.17	11.17	11.17	11.17					2.75mm	2.75mm			Per Pair	
Notes	Good Mid Upper Range Power	. Will Not R	lun on Sta	andard Inj	ection													
RENC/300/468	Race Cam	4000	300	300	0.468	0.430	0.468	0.430	42-78	78-42	108	108	0.153"	0.153"	0.008	0.010	£500.00	Blank
PH4		8000			11.88	10.91	11.88	10.91					3.88mm	3.88mm	0.200	0.250	Per Pair	
Notes	Powerful Mid Range Race Cam	nshaft																

Renault Clio /19 16V F7P Engine Type Cam Bucket Model Additional Components

	g	
Part No	Description	Price
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Renault Camshaft Data :- Clio II 16V F4R 730 Engine Type

Rocker Ratio 1: 1.98

Part No	Application	Power	Dura			e Lift	Cam	ı Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	ln	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	ln	Ex	In	Ex	Ex VAT	Type
RENF4R/272/445	Fast Road Cam	2000	272	256	0.445	0.404	0.225	0.205	12-82	56-20	124	108	0.022"	0.045"	Hyd	Hyd	£525.00	Blank
PH1		6500			11.30	10.25	5.70	5.20					0.55mm	1.15mm			Per Pair	
Notes	Runs with Standard ECU, but w	vith Standard ECU, but well need to get a remap to grt the best out of these cams worth am extra 12+ BHP.																

Renault Clio II F4R Engine Type Additional Components

Part No	Des	cription	Price
TD1	Timing Disc Dual Purpos	e Full Lift and Engine Degrees	£8.00







Austin Rover Camshaft Data :- Model A Series/Mini/Metro/Midget 850cc to 1275CC

Rocker Ratio 1.275: 1

Part No	Application	Power	Duration		Valv	e Lift	Cam	Lift	Tim	ing	Full	l Lift	Lift @ with cle		Valve	Clear	Price	Materia
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
ARA/260/344	Mild Road/Turbo Cam	1500	260	260	0.344	0.344	0.270	0.270	20-60	60-20	110		0.033"		0.012	0.012	£100.00	Repro
PH1		6000			8.74	8.74	6.85	6.85					0.83mm		0.305	0.305	£200.00	Billet
Notes	Ideal for Road Use. Good Tick	over. Works	s Well in t	he Super	charged	Engine												
ARA/270/367	Fast Road Cam	2000	270	270	0.367	0.367	0.300	0.300	28-62	62-28	107		0.057"		0.012	0.012	£100.00	Repro
PH2		6500			9.31	9.31	7.61	7.61					1.46mm		0.305	0.305	£200.00	Billet
Notes	Superb Fast Road Cam for Use with Twin Carb Set Up or Single 1 1/2 SU Excellent Power Increase Smooth Tickover																	
ARA/290/383	Rally Fast Road Cam	3000	290	290	0.383	0.383	0.300	0.300	38-72	72-38	107		0.88"		0.012	0.012	£100.00	Repro
PH3		7500			9.71	9.71	7.61	7.61					2.23mm		0.305	0.305	£200.00	Billet
Notes	Fast Road Rally Cam Good Mi	d/Top End	Power Bu	t with a G	ood Idle													
ARA/300/414	Tarmac Rally/Sprint Cam	3750	300	300	0.414	0.414	0.325	0.325	43-77	77-43	107		0.102"		0.008	0.010	£100.00	Repro
PH4		8000			10.52	10.52	8.25	8.25					2.60mm		0.200	0.250	£200.00	Billet
Notes	Tarmac Rally/Torque Race Ca	m for Rally	Use Best	in 1275c	Engine	s, Cross	Drilled C	am Lobe	S									
ARA/320/421	Full Race Cam	4000	320	320	0.434	0.434	0.340	0.340	53-87	87-53	107		0.148"		0.008	0.010	£200.00	Billet
PH5		8000			11.00	11.00	8.63	8.63					3.76mm		0.200	0.250		
Notes	Race Cam Giving a Good Spre	ead of Powe	r Require	s O/S Ca	m Follow	ers To B	e Fitted	Only for 1	1275cc End	ines. Cros	s Drilled C	am Lobes	•		•			•

Austin Rover Camshaft Data :- Model A Series/Injection Engines

Rocker Ratio 1.1275 : 1

Rocker Ratio 1.1	273.1																	
Part No	Application	Power	Dura	ation	Valv	e Lift	Can	ı Lift	Tim	ing	Ful	l Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATTIC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
ARA/250/322I	Mild Road/Turbo Cam	2000	250	260	0.332	0.332	0.260	0.260	13-57	62-18	112		0.015"		0.012	0.012	£100.00	Repro
PH1	Single Point Injection	6000			8.41	8.41	6.60	6.60					0.38mm		0.305	0.305		
Notes	Excellent Low Down Power and	d Smooth T	ickover															
ARA/250/344I	Fast Road Cam	2000	250	260	0.344	0.344	0.270	0.270	13-57	62-18	112		0.020"		0.012	0.012	£100.00	Repro
PH1	Multi Point Injection	6500			8.74	8.74	6.85	6.85					0.51mm		0.305	0.305		
Notes	Excellent Low Down Power and	d Smooth T	ickover															

Austin Rover Camshaft Data :- Model A Series/Additional Profiles

Rocker Ratio 1.1275:1

Part No	Application	Power	Dura	ition	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	EX Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
BMC731	Road/Rally Cam	3000	268	268	0.385	0.385	0.302	0.302	39-59	59-39	107		0.100"		0.012	0.012	£200.00	Billet
PH3		7000			9.77	9.77	7.66	7.66					2.55mm		0.305	0.305		
Notes	Original Rally Developed by the	e BMC Wor	ks Engine	Departn	nent		•											

Notes:- All Billet BMC A Series Cams are supplied cross drilled with Oil feed through the Lobes.



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Austin Rover Camshaft Data :- Model A Series/Mini/Metro/Midget 850cc to 1275CC

Rocker Ratio 1: 1.275

Part No	Application	Power	Dura	ation	Valve	e Lift	Can	n Lift	Tim	ing	Full	Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
BMC 649	Race Cam	4000	300	300	0.427	0.427	0.335	0.335	50-70	70-50	100		0.136mm		0.012	0.012	£200.00	Billet
PH5		8000			10.84	10.84	8.50	8.50					3.45mm		0.305	0.305	1	
Notes	The Original Race Camshaft D	eveloped b	v the Fac	tory Cros	sed drille	ed Cam I	obes											

Oil Pump Drives Differ in this Engine. Please advise Type of Drive Spider/Pin/Woodruff Slot. Notes: -All our Billet Cams are cross drilled through the Lobes.

Austin Rover A Series / Mini Injection Models Additional Components

Part No	Description	Price
DNCF010	8 x A Series Cam Followers Standard Size	£36.00
DNCF3006	8 x BMC A Series Inductioned Hardenend Nitrided EN40B Competition Cam Followers	£88.00
DNCF02	8 x A Series Oversize O/D 0.875" for Cams Having More Than 0.325" Lift on the Cam Lobe	£48.00
DNS1040S	A Series Single Valve Springs 160 Poundage Rate	£60.00
DNS1040D	A Series Double Valve Springs 200 Poundage Rate	£90.00
OP134	Oil Pump Spade Drive High Capacity Recomended for Cross Drilled Camshafts	£55.00

Austin Rover Camshaft Data :- Model B Series MGA/MGB

Rocker Ratio 1 : 1 420

Rocker Ralio 1:	1.420												1.16.0	TDA				
Part No	Application	Power	Dura	ation	Valve	e Lift	Can	Lift	Tim	ing	Ful	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	ln	Ex	Ex VAT	Type
ARB/280/383	Road Cam	1500	280	280	0.383	0.381	0.270	0.268	30-70	70-30	110		0.056"		0.012	0.014	£100.00	Repro
PH1		6000			9.73	9.66	6.85	6.80					1.42mm		0.305	0.356	£210.00	Billet
Notes	An Excellent Cam for the Stand	dard MGB f	or Road l	Jse. Good	Low Do	wn and N	∕lid Rang	e Power.	Good Idle									
ARB/290/426	Fast Road/Rally Cam	3000	290	290	0.426	0.426	0.300	0.300	35-75	75-35	110		0.084"		0.012	0.014	£100.00	Repro
PH3		6500			10.81	10.81	7.61	7.61					2.13mm		0.305	0.356	£210.00	Billet
Notes	Competition Cam Suitable for I	ong Distan	ce Event	s Good M	id Range	Power.	Reasona	ble Idle										
ARB/300/454	Tarmac Rally/Race Cam	4000	300	300	0.454	0.454	0.320	0.320	48-72	72-48	102		0.123"		0.012	0.014	£210.00	Billet
PH4		7000			11.53	11.53	8.12	8.12					3.12mm		0.305	0.356		
Notes	A Good Race/Rally Cam Not S	uitable for F	Road Use	Giving S	imilar Po	wer to the	e BMC 7	70 Cam.	Requires O	/S Cam Foll	lowers							
ARB/320/520	Full Race Cam	4500	320	320	0.520	0.517	0.366	0.364	53-87	87-53	107		0.151"		0.012	0.014	£210.00	Billet
PH5		8000			13.19	13.12	9.29	9.24					3.83mm		0.305	0.356		
Notes	A Race Cam for Circuit Racing	Only. Reco	mmende	d O/S Ca	m Follow	ers Are F	itted											

Austin Rover B Series MGA/MGB Additional Components

, .a.o	o mer ames radicional componente	
Part No	Description	Price
DNCF010	8 x B Series Cam Followers Standard Size Post 1971	£36.00
DNCF013	8 x B Series Cam Followers Standard Size Pre 1971	£48.00
DNCF3006	8 x BMC A Series Inductioned Hardenend Nitrided EN40B Competition Cam Followers Post 971	£88.00
DNCF02	8 x A Series Oversize O/D 0.875" for Cams Having More Than 0.325" Lift on the Cam Lobe	£48.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

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Austin Rover Camshaft Data :- K Series 16 Valve

Part No	Application	Power	Dura	ation	Valv	e Lift	Can	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	ln	Ex	In	Ex	Ex VAT	Type
ARK/252/400H	Road Cam	2000	252	252	0.400	0.400	0.400	0.400	16-56	56-16	110	110	0.039"	0.039"	Hyd	Hyd	£460.00	Blank
PH1		6000			10.15	10.15	10.15	10.15					1.00mm	1.00mm			Per Pair	
Notes	Road Cam Designed for Hydra	ulic Cam F	ollowers a	and Stand	lard Engi	ne Mana	gement 9	System. (Good Increa	se of Low M	lid Range	Power			Add £30	For VV	C Soild Ca	m
ARK/260/400H	Fast Road	2000	260	260	0.400	0.400	0.400	0.400	20-60	60-20	110	110	0.044"	0.044"	Hyd	Hyd	£460.00	Blank
PH2		7000			10.15	10.15	10.15	10.15					1.12mm	1.12mm			Per Pair	
Notes	Fast Road Cam Designed for I	Hydraulic C	am Follo	wers and	Standard	d Engine	Manager	nent Sys	tem. Good I	ncrease of I	Mid Range	Power			Add £30	For VV	C Soild Ca	m
ARK/268/410H	Tarmac Rally/Fast Road	3000	268	268	0.410	0.410	0.410	0.410	26-62	64-24	108	110	0.075"	0.063"	Hyd	Hyd	£460.00	Blank
PH3	Cam	7000			10.41	10.41	10.41	10.41					1.90mm	1.60mm			Per Pair	
Notes	Cams Designed for Competitio	n Use. The	y will Not	Run on th	ne Standa	ard Mana	agement	System (Good Mid Ra	ange Top Ei	nd Power.	Heavy Tic	kover		Add £30	For VV	C Soild Ca	m
ARK/276/412	Tarmac Rally/Sprint Cams	3500	276	276	0.412	0.410	0.412	0.410	30-66	68-28	108	110	0.075"	0.067"	0.008	0.010	£460.00	Blank
PH4		8000			10.46	10.41	10.46	10.41					1.90mm	1.70mm	0.203	0.254	Per Pair	
Notes	Cams Designed for Sprints and	Tarmac R	ally. Good	d Mid/Top	End Pov	wer. Hea	vy Tickov	/er			-				Add £30	For VV	C Soild Ca	m
ARK/290/465	Full Race Cam	5000	290	290	0.465	0.445	0.465	0.445	41-69	71-39	104	106	0.124"	0.115"	0.008	0.010	£460.00	Blank
PH5		8500			11.80	11.29	11.80	11.29					3.15mm	2.92mm	0.203	0.254	Per Pair	
Notes	Full Race Cam Requiring Modi	fied Manag	ement Sy	stem and	O/S Inje	ctor Bod	ies								Add £30	For VV	C Soild Ca	m
ARK/310/480	Full Race Cam	5000	310	310	0.480	0.465	0.480	0.465	49-81	78-42	106	106	0.169"	0.169"	0.008	0.010	£460.00	Blank
PH5		8500			12.18	11.80	12.18	11.80					4.30mm	4.30mm	0.203	0.254	Per Pair	
Notes	Full Race Cam Requiring Modi	fied Manag	ement Sy	stem and	O/S Inje	ctor Bod	ies Desig	ned for E	Engine 1800	cc and Ove	r				Add £30	For VV	C Soild Ca	m

Austin Rover K Series 16 Valve Additional Components

Part No	Description	Price
DNS2670	16 x Single Competition Valve Springs	£120.00
DNCF5114	16 x Mechanical Billet EN40 B Cam Followers Screw Adjustment No Shimming Required (33mm x 24mm)	£300.00
K335	1 x Mechanical Cam Followers Adjuster Tool	£20.00
DNCFHL17	16 x Hydraulic Cam Followers (33mm x 24mm)	£160.00
TB8974	Timing Belt (145mm x 26mm)	£28.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



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Austin Rover Camshaft Data :- Rover V8 3.5 to 4.6

Rocker Ratio 1: 1.6

Part No	Application	Power	Durat	tion	Valv	e Lift	Can	Lift	Tim	ning	Full	Lift	Lift @ with clea				Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
ARR/260/416H	Fast Road Cam	1250	260	260	0.416	0.416	0.260	0.260	20-60	60-20	110		0.041"		Hyd	Hyd	£245.00	Blank
PH1		5500			10.56	10.56	6.60	6.60					1.04mm					
Notes	A Cam Designed for Engines wit	h Auto Trar	nsmission a	nd Engine	es Requi	ring a Sn	nooth Tid	kover wi	th Low Dow	n Power								
ARR/270/424H	Fast Road Cam	2000	270	270	0.424	0.424	0.265	0.265	25-65	65-25	110		0.050"		Hyd	Hyd	£245.00	Blank
PH2		6000			10.76	10.76	6.73	6.73					1.28mm					
Notes	Good Low Down Power for Carb	and Injection	on Engines.	Manager	ment Syt	em May	Have To	be Adjus	sted in Som	e Engines to	o Smooth T	ickover						
ARR/280/448H	Tarmac Rally/Sprint Cam	3000	280	280	0.448	0.448	0.280	0.280	30-70	70-30	110		0.098"		Hyd	Hyd	£245.00	Blank
PH4		6500			11.37	11.37	7.11	7.11					2.48mm					
Notes	This Cam will Not Run on Standa	ard Injection	n Engine. W	orks Wel	l with 4 E	Barrel Ho	lley Carb	Good M	id Range T	op End Pow	/er							
ARR/310/480	Race Cam	3750	310	310	0.480	0.480	0.300	0.300	45-85	85-45	110		0.142"		0.018	0.020	£245.00	Blank
PH5		8000			12.18	12.18	7.61	7.61					3.60mm		0.457	0.508		
Notes	A Race Cam Only Suited for Circ	cuit Race U	se Solid Ca	m Followe	ers													

Austin Rover V8 3.5 to 4.6 Additional Components

Austin Novel Volue to	7 4.0 Additorial Components	
Part No	Description	Price
DNCF56	16 x Hydraulic Chilled Iron Cam Followers	£140.00
DNCF56/MECH	16 x Mechanical Chilled Iron Cam Followers Adustable Push Rods or Rocker Arms Required	£240.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Austin Rover Camshaft Data :- Austin Healey 3000

Rocker Ratio 1: 1.42

Part No	Application	Power	Durat	ion	Valve	e Lift	Can	Lift	Tim	ning	Full	Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
ARH/284/355	Road Cam	1600	284	284	0.355	0.355	0.250	0.250	35-69	69-35	107		0.0612"		0.015	0.015		
PH1		5500			9.01	9.01	6.35	6.35					1.56mm		0.381	0.381	£460.00	Billet
Notes	The Factory BJ8 Profile Used as	an Early C	ompetition (Cam But I	Now Mak	es a Fin	e Road (Cam										
ARH/280/383	Fast Road Cam	2000	280	280	0.383	0.383	0.270	0.270	30-70	70-30	110		0.056"		0.015	0.015		i
PH2		6000			9.73	9.73	6.85	6.85					1.42mm		0.381	0.381	£460.00	Billet
Notes	Rally Fast Road Cam Suitable fo	r Long Dist	ance Event	s Smooth	Tickove	r Good N	∕lid Rang	e Power										
ARH/300/454	Race/Tarmac Rally/Sprint	3000	300	300	0.454	0.454	0.320	0.320	48-72	72-48	102		0.148"		0.015	0.015		ĺ
PH4	Cam	6500			11.53	11.53	8.12	8.12					3.76mm		0.381	0.381	£460.00	Billet
Notes	Factory 1622 Cam as Used in the	e Factory R	Rally Team (Cars														
ARR/320/554	Race Cam	4000	320	320	0.554	0.554	0.390	0.390	58-82	82-58	102		0.212"		0.016	0.018		i
PH5		7500			14.06	14.06	9.90	9.90					5.40mm		0.406	0.457	£460.00	Billet
Notes	The Ultimate Factory Race Cam	for Circuit I	Racing Only	in Conju	nction wi	th C/R G	ear Box											

Austin Rover Austin Healey 3000 Additional Components

Part No	Description	Price
DNCF670	12 x Chilled Iron Cam Followers	£108.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

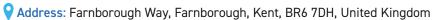








Telephone: +44 (0)1689 857 109 E-Mail: info@newman-cams.com





Austin Rover Camshaft Data :- MGC

Rocker Ratio 1: 1.42

Ttookoi Ttatio T	=																	
Part No	Application	Power	Dura	tion	Valv	e Lift	Can	Lift	Tim	ning	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
ARC/284/355	Road Cam	1600	284	284	0.355	0.355	0.250	0.250	35-69	69-35	107				0.015	0.015	£160.00	Repro
PH1		5500			9.01	9.01	6.35	6.35							0.381	0.381	£500.00	Billet
Notes	The Factory BJ8 Profile Used as	an Early C	Competition	Cam But	now Mak	es a Fin	e Road C	am										
ARC/280/383	Fast Road Cam	2000	280	280	0.383	0.383	0.270	0.270	30-70	70-30	110				0.015	0.015		
PH2		6000			9.73	9.73	6.85	6.85							0.381	0.381	£500.00	Billet
Notes	Rally Fast Road Cam Suitable for	or Long Dist	tance Event	s. Smootl	n Tickove	er. Good	Mid Ran	ge Powe	r									

Austin Rover Camshaft Data :- Austin Healey 100/4

Rocker Ratio 1 · 1 42

Part No	Application	Power	Durat	tion	Valv	e Lift	Can	Lift	Tim	ning	Full	Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	In Open	Ex Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
HEA/260/260	Road Cam	1600	260	260	0.433	0.433	0.315	0.315	25-65	65-25	110				0.015	0.015		
PH1		5500			10.99	10.99	7.99	7.99							0.381	0.381	£415.00	Billet
Notes	Touring Cam Designed for Torqu	ıe.																
HEA/266/369	Road Cam	1600	284	284	0.369	0.369	0.260	0.260	35-69	69-35	107				0.015	0.015	£150.00	Repro
PH1	Le Mans M Spec	5500			9.37	9.37	6.60	6.60							0.381	0.381	£415.00	Billet
Notes	The Factory M Profile Used as a	n Early Cor	npetition Ca	am But No	ow Make	s a Fine	Road Ca	m										
HEA/280/383	Race Rally Sprint Cam	2500	290	280	0.426	0.426	0.300	0.300	35-75	75-35	110				0.015	0.015		
PH2		6000			10.81	10.81	7.61	7.61							0.381	0.381	£415.00	Billet
Notes	Rally Fast Road Cam Suitable fo	r Long Dist	ance Event	s. Smootl	n Tickove	er. Good	Mid Ran	ge Powe	r	•			•	•	•	•		

MG C. Austin Healey 100/4 Additional Components

ine e riacini nicale, n	To a reduce the components	
Part No	Description	Price
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



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Toyota

Toyota Camshaft Data :- MR2 Mk 1 4AGE 16 Valve

Part No	Application	Power	Dura	ation	Valve	e Lift	Cam	Lift	Tim	ing	Ful	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
TOYA/252/310	Road Cam	2000	252	252	0.310	0.308	0.310	0.308	16-56	56-16	110	110	0.030"	0.030"	0.008	0.010	£480.00	Blank
PH1		6500			7.87	7.82	7.87	7.82					0.76mm	0.76mm	0.200	0.250	Per Pair	
Notes	Ideal for Road Use. Good Tick	over and Lo	w Down	Power														
TOYA/272/338	Road/Rally Cam	2500	272	272	0.338	0.334	0.338	0.334	26-66	66-26	110	110	0.040"	0.040"	0.008	0.010	£480.00	Blank
PH3		7500			8.58	8.48	8.58	8.48					1.02mm	1.02mm	0.200	0.250	Per Pair	
Notes	Good Mid Range Power. Will N	lot Run on	Standard	Injection														
TOYA/288/338	Tarmac Rally Sprint Cam	3000	288	288	0.338	0.336	0.338	0.336	36-72	72-36	108	108	0.080"	0.080"	0.008	0.010	£480.00	Blank
PH4		7500			8.58	8.53	8.58	8.53					2.03mm	2.03mm	0.200	0.250	Per Pair	
Notes	Good Mid Upper Range Power	. Will Not F	Run on Sta	andard Inj	ection													
TOYA/300/342	Race Cam	4000	300	300	0.342	0.338	0.342	0.340	42-78	78-42	108	108	0.120"	0.120"	0.008	0.010	£480.00	Blank
PH5		8000			8.68	8.58	8.68	8.63					3.05mm	3.05mm	0.200	0.250	Per Pair	
Notes	Powerful Upper Range Camsh	aft																

Toyota Camshaft Data :- MR2 3SGTE

Part No	Application	Power	Dura	Duration		e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
TOYS/272/335	Fast Road Cam	2000	272	272	0.328	0.325	0.335	0.335	26-66	64-24	110	110	0.040"	0.0038"	0.008	0.010	£480.00	Blank
PH1		7000			8.31	8.25	8.50	8.50					1.00mm	0.96mm	0.200	0.250	Per Pair	
Notes	Ideal for Road Use. Good Ticko	over and Lo	ow Down I	Power														
TOYS/272/396T	Turbo Fast Road Cam	2500	272	268	0.384	0.364	0.394	0.374	26-66	64-24	110	110	0.051"	0.043"	0.008	0.010	£480.00	Blank
PH4		8000			9.75	9.24	10.00	9.50					1.30mm	1.10mm	0.200	0.250	Per Pair	
Notes	For Turbo Engines Wanting Mo	ore Than 40	00BHP															

Toyota Camshaft Data :- Celica VVT/Lotus Elise

Rocker Ratio 1: 1.645

Part No	Application	Power	Dura	ition	Valve Lift		Can	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
TOYVT/288/480	Road Cam	2000	288	284	0.480	0.445	0.290	0.270	22-62	62-22	110	110	0.147"	0.134"	0.008	0.010	£525.00	Blank
PH1		7000			12.18	11.29	7.36	6.85					3.73mm	3.43mm	0.200	0.250	Per Pair	
Notes	Ideal for Track Day Use																	

Toyota Additional Components

Part No	Description	Price
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00









Triumph

Triumph Camshaft Data :- 1300cc to 1500cc Large Bearing 4 Cylinder. Small Bearing Available On Request

Rocker Ratio 1:1.5

Nockel Natio 1.	1.0																	
Part No	Application	Power	Duration		Valve	e Lift	Can	ı Lift	Tim	ing	Full	Lift	Lift @ ' with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
TRIS/260/375	Road Cam	1500	260	260	0.375	0.375	0.250	0.250	20-60	60-20	110		0.030"		0.014	0.016	£185.00	Blank
PH1		6000			9.52	9.52	6.35	6.35					0.075mm		0.300	0.350		
Notes	Ideal Road Cam for Town Use.	Good Idle																
TRIS/280/405	Fast Road/Rally Cam	2000	280	280	0.405	0.405	0.270	0.270	30-70	70-30	110		0.060"		0.014	0.016	£185.00	Blank
PH2		6500			10.28	10.28	6.85	6.85					1.50mm		0.300	0.350		
Notes	Good Mid Range Power																	
TRIS/300/435	Race Cam	4000	300	300	0.435	0.435	0.290	0.290	40-80	80-40	110		0.077"		0.014	0.016	£185.00	Blank
PH5		8000			11.04	11.04	7.36	7.36					1.95mm		0.300	0.350		
Notes	Powerful Mid Range Race Cam																	

Triumph 1300cc to 1500cc Large Bearing 4 Cylinder Additional Components / Triumph Spitfire Additional Components

Triumph 1300cc to 130	occ Large Bearing 4 Cylinder Additional Components / Thumph Spitine Additional Components	
Part No	Description	Price
DNCF3000	8 x Spitfire 1300cc 1500cc Competition Induction Hardened EN40 Nitrided Steel Cam Followers (20.3mm x 44.5mm)	£88.00
DNCF53	8 x Spitfire 1300cc 1500cc Chilled Iron Cam Followers (20.3mm x 44.5mm) PH1 Cam Only	£50.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00
DNS1040S	8 x Single Springs 160 Poundage PH1 to PH3 Cams	£60.00
DNS1040D	8 x Double Springs 200 Poundage PH5 Race Cams	£90.00

Triumph Camshaft Data :- TR2/3/4 4 Cyl

Pocker Patio 1 : 1 5

Part No	Application	Power	Duration		Valve	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Туре
TRI4/280/405	Road Cam	1500	280	280	0.405	0.405	0.270	0.270	30-70	70-30	110		0.060"		0.014	0.016	£195.00	Blank
PH1		5500			10.28	10.28	6.85	6.85					1.50mm		0.300	0.350		
Notes	Giving Excellent Low Down Power with Smooth Idle and a Free Revving Ability																	
TRI4/300/435	Fast Road Rally Cam	2500	300	300	0.435	0.435	0.290	0.290	40-80	80-40	110		0.077"		0.014	0.016	£195.00	Blank
PH3		6000			11.04	11.04	7.36	7.36					1.95mm		0.300	0.350		
Notes	Powerful Fast Road Rally Cam																	
TRI4/330/525	Race Cam	4000	330	330	0.525	0.525	0.350	0.350	50-90	90-50	110		0.168"		0.014	0.016	£195.00	Blank
PH5		7000			13.32	13.32	8.88	8.88					4.26mm		0.300	0.350		
Notes	A Race Cam for Circuit Racing C	nly. Best w	ith 45 or	48 DCOE	Carbs		·		·					·				

Triumph TR2/3/4 4 Cyl Additional Components

THUMPH HX2/3/4 4 Cyl	Additional Components	
Part No	Description	Price
DNCF3001	8 x TR2/3/4 Competition Induction Hardend EN40B Nitrided Steel Cam Followers	£88.00
DNCF993	8 x TR2/3/4 Chilled Iron Cam Followers PH1 Cams Only	£50.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00
DNS9974K	8 x Competition Double Valve Springs PH1 to PH4 Cams	£80.00

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Triumph

Triumph Camshaft Data :- TR6 6 Cylinder 2.5

Rocker Ratio 1: 1.5

Part No	Application	Power	Dura	ation	Valve	e Lift	Cam	Lift	Timi	ng	Full	Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
TRI6/260/375	Road Cam	1500	260	260	0.375	0.375	0.250	0.250	20-60	60-20	110		0.030"		0.014	0.016	£230.00	Blank
PH1		5500			9.52	9.52	6.35	6.35					0.75mm		0.350	0.400		
Notes	Ideal Road Cam for Town Use.	Good Idle. N	Not For 15	i0BHP Inj	ection Er	gines												
TRI6/280/405	Fast Road/Rally Cam	2500	280	280	0.405	0.405	0.270	0.270	30-70	70-30	110		0.060"		0.014	0.016	£230.00	Blank
PH2		6000			10.28	10.28	6.85	6.85					1.50mm		0.300	0.350		
Notes	Good Mid Range Power	•									•							
TRI6/300/435	Tarmac Rally Sprint Cam	3000	300	300	0.435	0.435	0.290	0.290	40-80	80-40	110		0.077"		0.014	0.016	£230.00	Blank
PH3		6500			11.04	11.04	7.36	7.36					1.95mm		0.350	0.400		
Notes	Fine All Round Fast Road Sprint	Cam for In	jection Mo	odels or E	ngines F	itted with	DCOE (Carbs										•
TRI6/310/480	Race Cam	3500	310	310	0.480	0.480	0.320	0.320	45-85	85-45	110		0.110"		0.014	0.016	£230.00	Blank
PH5		7500			12.18	12.18	8.12	8.12					2.80mm		0.350	0.400		
Notes	A Circuit Race Cam	•																

Triumph TR6 6 Cylinder 2.5 Additional Components

	. Lie / taattiella: Compenente	
Part No	Description	Price
DNCF53	12 x TR6 Chilled Iron Cam Followers Only for PH1 Cams	£75.00
DNCF3000	12 x Induction Hardend EN40 B Nitrided EN40 B Steel Cam Followers Cam Followers	£132.00
DNS2673	12 x Silicon Chrome Double Valve Springs	£132.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00
DNS1040S	12 x Single Springs 160 Poundage PH1 to PH3 Cams	£90.00
DNS1040D	12 x Double Springs 200 Poundage PH5 Race Cams	£132.00

Triumph Camshaft Data :- Dolomite Sprint

Part No	Application	Power	Dura	ition	Valve Lift		Cam	Lift	Timi	ing	Full	Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
TRID/260/390	Road Cam	1500	260	260	0.380	0.380	0.390	0.390	20-60	60-20	110		0.035"		0.010	0.012	£275.00	Blank
PH1		6500			9.64	9.64	9.90	9.90					0.90mm		0.025	0.300		
Notes	Ideal Road Cam for Town Use. 0	Good Idle. \	Will Run o	n SU Car	bs Grour	nd on Ne	w Chilled	Iron Bla	nk									
TRID/290/400	Tarmac Rally Sprint Cam	3000	290	290	0.390	0.388	0.400	0.400	35-75	75-35	110		0.069"		0.010	0.012	£275.00	Blank
PH3		7000			9.90	9.85	10.15	10.15					1.75mm		0.250	0.300		
Notes	Fine All Round Fast Road Sprint	Cam Will I	Run on Sl	J Carbs E	But Best v	vith Twin	40 DCO	E Carbs	Ground on N	New Chille	d Iron Blar	nk						
TRID/312/426	Race Cam	3500	312	312	0.416	0.414	0.426	0.426	48-84	84-48	108		0.138"		0.010	0.012	£275.00	Blank
PH5		8000			10.56	10.51	10.80	10.80					3.50mm		0.250	0.300		
Notes	The Original Factory Race Cam	STR 0139	for Race l	Jse Only	with Twir	DCOE	Carbs Gr	ound on	New Chilled	Iron Blan	k							
	The camshaft base circle is abou	ut 29mm di	ameter du	e to the c	asting. If	you requ	uire 30mr	n base c	ircle, we car	n manufac	ture a EN4	I0B camsh	aft for £595	5.00.				

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Vauxhall/Opel Camshaft Data :- Astra/Cavalier/Calibra/Vectra/1.6/1.8/2.00 J Series

Rocker Ratio 1: 1.69

Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATTIC	EX BAD	In	Ex	In	Ex	Ex VAT	Type
VAUX/272/456H	Road/Rally Cam	2500	272	272	0.456	0.456	0.270	0.270	26-66	66-26	110				Hyd	Hyd	£235.00	Blank
PH2		6500			11.58	11.58	6.85	6.85										
Notes	Ideal for Road Use. Good Tick	over. To Be	used in I	njection E	ngines					•	-							
VAUX/280/473H	Road/Rally Cam	2500	280	280	0.473	0.473	0.280	0.280	30.70	70.30	110				Hyd	Hyd	£235.00	Blank
PH2		6500			12.01	12.01	7.11	7.11										
Notes	Will Not Run on Standard Inject	tion. For Us	se with Tv	vin DCOE	Carbs o	r Throttle	Bodies											
VAUX/288/507H	Tarmac Rally Sprint Cam	3000	288	288	0.507	0.507	0.300	0.300	36-72	72-36	108				Hyd	Hyd	£235.00	Blank
PH4		7500			12.87	12.87	7.61	7.61										
Notes	Good Mid Upper Range Power	. Will Not R	un on Sta	ındard İnj	ection													
VAUX/300/541/M	Race Cam	4000	300	300	0.541	0.541	0.320	0.320	42-78	78-42	108				0.008	0.010	£235.00	Blank
PH5		8000			13.73	13.73	8.12	8.12							0.200	0.250		
Notes	Powerful Upper Range Camsh	aft								•					•			

Vauxhall/Opel Astra/Cavalier/Calibra/Vectra/1.6/1.8/2.00 J Series Addional Components

Part No	Description	Price
DNCF63A	8 x Steel Competition J Series Cam Followers	£60.00
DNS1040	8 x Single Valve Springs 160 Poundage	£60.00
TB0720	Timing Belt (111mm x 20mm)	£18.00
DNHL63	8 x Hydrualic Ball Studs	£56.00
DNCBS1	8 x Mechanical Ball Stud Internal Adjustment	£100.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Vauxhall/Opel Camshaft Data :- Corsa/Tigra Z16XE Z18XE 16 Valve

Part No	Application	Power	Dura	ition	Valv	e Lift	Cam	Lift	Tim	ing	Ful	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VUXT/264/380H	Road Cam	2000	264	264	0.380	0.380	0.380	0.380	22-62	62-22	110	110	0.063"	0.063"	Hyd	Hyd	£480.00	Blank
PH1		6500			9.64	9.64	9.64	9.64					1.60mm	1.60mm			Per Pair	
Notes	Ideal for Road Use. Good Ticko	ver. To Be	Used in I	Engines v	vith Stan	dard Inje	ction											
VUXT/270/405H	Road/Rally Cam	2500	270	270	0.405	0.405	0.405	0.405	25-65	65-25	110	110	0.051"	0.051"	Hyd	Hyd	£480.00	Blank
PH2		7000			10.28	10.28	10.28	10.28					1.30mm	1.30mm			Per Pair	
Notes	Will Not Run on Standard Inject	tion. For Us	se with Tv	vin DCOE	Carbs													
VUXT/288/420H	Rally Cam	3000	288	288	0.420	0.420	0.420	0.420	36-72	72-36	108	108	0.086"	0.086"	Hyd	Hyd	£480.00	Blank
PH3		7500			10.66	10.66	10.66	10.66					2.20mm	2.20mm			Per Pair	
Notes	Good Mid Upper Range Power.	Will Not R	un on Sta	andard Inj	ection													
VUXT/300/440	Race Cam	4000	300	300	0.440	0.440	0.440	0.320	42-78	78-42	108	108	0.141"	0.141"	0.008	0.010	£480.00	Blank
PH5		8000			11.17	11.17	11.17	8.12					3.60mm	3.60mm	0.200	0.250	Per Pair	
Notes	Powerful Upper Range Camsha	aft																

Vauxhall/Opel Corsa/Tigra 16 Valve Additional Components

Part No	Description	Price
DNCHL70	16 x Hydraulic Cam Followers (32mm x 26mm)	£160.00
DNCF5121	16 x Mechanical Cam Followers Easy Fit Non Shim Type (32mm x 26mm)	£300.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
TB5052	Timing Belt (111mm x 17mm)	£20.00

Vauxhall/Opel Camshaft Data :- 1.8/2.0/2.2 Ecotec 16 Valve

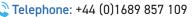
Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Tim	ing	Ful	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	ln	Ex	In	Ex	Ex VAT	Type
VAXE/264/380H	Road Cam	2000	264	264	0.380	0.380	0.380	0.380	22-62	62-22	110	110	0.063"	0.063"	Hyd	Hyd	£480.00	Blank
PH1		6500			9.64	9.64	9.64	9.64					1.60mm	1.60mm			Per Pair	
Notes	Ideal for Road Use. Good Ticko	over. To Be	Used in I	Engines v	vith Stand	dard Inje	ction											
VAXE/270/405H	Road/Rally Cam	2500	270	270	0.405	0.405	0.405	0.405	25-65	65-25	110	110	0.051"	0.051"	Hyd	Hyd	£480.00	Blank
PH2		7000			10.28	10.28	10.28	10.28					1.30mm	1.30mm			Per Pair	
Notes	Will Not Run on Standard Inject	tion. For Us	se with Tv	vin DCOE	Carbs													
VAXE/288/420H	Tarmac Rally Sprint Cam	3000	288	288	0.420	0.420	0.420	0.420	36-72	72-36	108	108	0.086"	0.086"	Hyd	Hyd	£480.00	Blank
PH3		7500			10.66	10.66	10.66	10.66					2.20mm	2.20mm			Per Pair	
Notes	Good Mid Upper Range Power.	Will Not R	un on Sta	ındard İnj	ection						•							

Vauxhall/Opel1.8 /2.0/2.2 Ecotec 16 Valve Additional Components

Tuakilali opolilo /=io/	- 2 20000 TO Valvo / talational Composition	
Part No	Description	Price
HL70	16 x Hydraulic Cam Followers (32mm x 26mm)	£160.00
DNCF5121	16 x Mechanical Cam Followers Easy Fit Non Shim Type (32mm x 26mm)	£300.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
TB5051	Timing Belt (176mm x 24mm)	£21.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00













Vauxhall/Opel Camshaft Data :- Astra/Cavalier/Calibra 16 Valve C20XE Engine

Part No	Application	Power	Dura	ation	Valve	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	ln	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	ln	Ex	Ex VAT	Type
VAXC/264/400H	Road Cam	2000	264	264	0.400	0.400	0.400	0.400	22-62	62-22	110	110	0.038"	0.038"	Hyd	Hyd	£480.00	Blank
PH1		6500			10.15	10.15	10.15	10.15					0.98mm	0.98mm			Per Pair	
Notes	Ideal for Road Use. Good Ticko	over. To Be	Used in	Engines v	vith Stand	dard Inje	ction and	in Turbo	Engines									
VAXC/270/420H	Road/Rally Cam	2500	270	270	0.420	0.420	0.420	0.420	25-65	65-25	110	110	0.063"	0.063"	Hyd	Hyd	£480.00	Blank
PH2		7000			10.66	10.66	10.66	10.66					1.60mm	1.60mm			Per Pair	
Notes	Will Not Run on Standard Injec	tion. For Us	se with Tv	vin DCOE	Carbs o	r Modifie	d Injectio	n										
VAXC/288/440H	Tarmac Rally Sprint Cam	3000	288	288	0.440	0.440	0.440	0.440	36-72	72-36	108	108	0.079"	0.079"	Hyd	Hyd	£480.00	Blank
PH4		7500			11.17	11.17	11.17	11.17					2.00mm	2.00mm			Per Pair	
Notes	Good Mid Upper Range Power	. Will Not R	un on Sta	andard Inj	ection													
VAXC/296/465	Race Cam	4000	296	296	0.455	0.455	0.465	0.465	40-76	76-40	108	108	0.132"	0.132"	0.008	0.010	£480.00	Blank
PH5		8000			11.55	11.55	11.80	11.80					3.35mm	3.35mm	0.200	0.250	Per Pair	
Notes	Powerful Upper Range Camsha	aft																

Vauxhall/Opel Astra/ Cavalier /Calibra 16 Valve C20XE Engine Additional Components

Part No	Description	Price
DNPOVP20XET	2 x Vernier Pulleys Early Type Round Belt Form	£170.00
DNPOPV20XE	2 x Vernier Pulleys Late Type Square Tooth Form	£170.00
DNCF5121	16 x Mechanical Cam Followers Easy Fit Non Shim (32mm x26mm) EN40 B Nitrided	£300.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
DNCF5121A	16 x Mechanical Cam Followers Shim Type (32mm x 26mm) EN40 B Nitrided	£300.00
DNCHL70	16 x Hydraulic Cam Followers (32mm x 26mm)	£160.00
TB5051	Timing Belt Post 92 (176mm x 24mm)	£30.00
TB8141	Timing Belt Pre 92 (141mm x 24mm)	£30.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



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Vauxhall/Opel Camshaft Data :- Astra/Nova 1.2/1.3/1.4/1.6GTE J SERIES

Rocker Ratio 1: 1.69

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Ful	Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VUXA/264/439H	Road Cam	2000	264	264	0.439	0.439	0.260	0.260	22-62	62-22	110				Hyd	Hyd	£235.00	Blank
PH1		5750			11.15	11.15	6.60	6.60										
Notes	Ideal for Road Use. Good Tick	over. To Be	Used in	1.4 Injecti	on Engin	е												
VAXA/272/473H	Road/Rally Cam	2500	272	272	0.473	0.473	0.280	0.280	26-66	66-26	110				Hyd	Hyd	£235.00	Blank
PH2		6500			12.01	12.01	7.11	7.11										
Notes	Will Not Run on Standard Inject	tion. For Us	se with To	wn DCO	E Carbs													
VAXA/288/507	Tarmac Rally Sprint Cam	3000	288	288	0.498	0.498	0.303	0.303	42-78	78-42	108				0.008	0.010	£235.00	Blank
PH3	Stock Rod Cam	7500			12.64	12.64	7.69	7.69							0.200	0.250		
Notes	Good Mid Upper Range Power	. Will Not R	un on Sta	andard Inj	ection													
VAXA/300/541	Race Cam	4000	300	300	0.541	0.541	0.320	0.320	42-78	78-42	108				0.008	0.010	£235.00	Blank
PH4		8000			13.73	13.73	8.12	8.12							0.200	0.250		
Notes	Powerful Upper Range Camsha	aft																

Vauxhall/Opel Astra/Nova 1.2/1.3/1.4/1.6GTE J SERIES Additional Components

Part No	Description	Price
K498	Aluminium Vernier Pulley with Steel Internal Sprocket	£90.00
DNCF63A	8 x Steel Competition J Series Cam Followers	£50.00
TB5030	Timing Belt 1.3 Post 80 (104mm x 15mm)	£18.00
TB5083	Timing Belt 1.4/1.6 Post 91 (104mm x 17mm)	£18.00
TB5054	Timing Belt 1.6 Post 91 (111mm x 17mm)	£18.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00
DNHL63	8 x Hydrualic Ball Studs	£56.00
DNCBS1	8 x Mechanical Ball Stud Internal Adjustment	£100.00
DNS2670	8 x Single Valve Springs 160 Poundage	£60.00



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Volkswagen Camshaft Data :- Golf Polo 1.4 and G40 Engines

Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Tim	ing	Ful	l Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VOLP/264/400H	Road Cam	2000	264	264	0.400	0.400	0.400	0.400	22-62	62-22	110		0.039"		Hyd	Hyd	£235.00	Blank
PH1		6500			10.15	10.15	10.15	10.15					0.98mm					
Notes	Ideal for Road Use. Good Ticko	over																
VOLP/270/410H	Road/Rally Cam	2500	270	270	0.410	0.410	0.410	0.410	25-65	65-25	110		0.051"		Hyd	Hyd	£235.00	Blank
PH2		7000			10.41	10.41	10.41	10.41					1.30mm					
Notes	A Free Revving Camshaft with	Little Loss	of Low Do	wn Powe	r													
VOLP/272/420H	Tarmac Rally Sprint Cam	3000	272	272	0.420	0.420	0.420	0.420	26-66	66-26	110		0.063"		Hyd	Hyd	£235.00	Blank
PH3		7500			10.66	10.66	10.66	10.66					1.60mm					
Notes	Good Mid Upper Range Power	. Will Not R	un on Sta	ındard İnj	ection													
VOLP/296/440	Race Cam	4000	296	296	0.440	0.440	0.440	0.440	40-76	76-40	108		0.102"		0.008	0.010	£235.00	Blank
PH5		8000			11.17	11.17	11.17	11.17					2.60mm		0.200	0.250		
Notes	Powerful Upper Range Camsha	aft. For Use	with Soli	d Cam Fo	llowers													
VOLP/268/400H	G40 Fast Road Cam	2000	264	268	0.400	0.413	0.400	0.413	20-64	66-22	112		0.032"		Hyd	Hyd	£235.00	Blank
PH2		7000			10.15	10.48	10.15	10.48					0.80mm					
Notes	Designed for the Supercharged	l Engine																

Volkswagen Golf Polo 1.4 G40 Hydraulic additional components

Part No	Description	Price
DNCFHL66	8 x Hydraulic Cam Followers (35mm x 26mm)	£80.00
DNCF5118	8 x Mechanical Easy Adjust Cam Followers Non Shim Type (35mm x 26mm)	£150.00
TB5352	Timing Belt (135mm x 19mm)	£20.00
K335	Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00



Volkswagen Camshaft Data :- Golf GTI Mk 1 Mechanical

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VOLM/264/396	Road Cam	2000	264	264	0.396	0.394	0.396	0.394	22-62	66-22	110		0.047"		0.008	0.010	£235.00	Blank
PH1		6500			10.05	10.00	10.05	10.00					1.20mm		0.200	0.250		1
Notes	Ideal for Road Use. Excellent L	ow Down F	ower															
VOLM/280/432	Road/Rally Cam	2500	280	280	0.432	0.430	0.432	0.430	30-70	70-30	110		0.062"		0.008	0.010	£235.00	Blank
PH2		7000			10.96	10.91	10.96	10.91					1.58mm		0.200	0.250		
Notes	A Free Revving Camshaft with	Little Loss	of Low Do	own Powe	r													
VOLM/288/442	Tarmac Rally Sprint Cam	3000	288	288	0.442	0.440	0.442	0.440	36-72	72-36	108		0.090"		0.008	0.010	£235.00	Blank
PH3		7500			11.22	11.17	11.22	11.17					2.30mm		0.200	0.250		
Notes	Good Mid Upper Range Power	Fit Non To	op Shim C	cam Follo	wers													
VOLM/296/492	Race Cam	4000	296	296	0.492	0.490	0.492	0.490	40-76	76-40	108		0.143"		0.008	0.010	£235.00	Blank
PH4		8000			12.49	12.44	12.49	12.44					3.65mm		0.200	0.250		
Notes	Powerful Upper Range Camsha	aft Fit Non	Top Shim	Cam Foll	owers													

Volkswagen Golf GTI Mk 1 Mechanical Additional Components

Part No	Description	Price
K561	8 x Cam Followers Non Top Shim Type (35mmx28.2mm)	£140.00
TB5320	Timing Belt (121mm x 18mm)	£20.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Volkswagen Camshaft Data :- Golf 1.9 PDF Diesel Pumpa Duse

Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Tim	ing	Ful	l Lift	Lift @ with cle	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VOLD/276/367	Road Cam	2000	276	276	0.367	0.367	0.367	0.367	26-76	76-26	112		0.020"	0.020"	Hyd	Hyd	£240.00	Blank
PH1		6000			9.31	9.31	9.31	9.31					0.51mm	0.51mm	Hyd	Hyd		
Notes	lotes A Road Competition Diesel Camshaft Giving Good Mid Range Power Advantageous To Re Programme ECU To Obtain Full Power (Essential To Use DNCFHL65 Cam Follower)																	
VOLD/276/375	Road Cam	2000	276	276	0.375	0.375	0.375	0.375	26-76	76-26	112		0.020"	0.020"	Hyd	Hyd	£240.00	Blank
PH1		6000			9.52	9.52	9.52	9.52					0.51mm	0.51mm	Hyd	Hyd		
Notes																		

Volkswagen Golf 1.9 PDF Diesel Pumpa Duse Additional Components

Part No	•	Description	Price
DNCFHL65	8 x Cam Followers (To be used onl	y with VOLD/276/367 as cam material is different from OE Spec.)	£96.00



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Website: www.newman-cams.com



Volkswagen Camshaft Data :- Golf GTI 8 Valve Hydraulic

Part No	Application	Power	Dura	ation	Valve	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VOLG/256/396H	Road Cam	2000	256	256	0.396	0.396	0.396	0.396	18-58	58-18	110		0.037"		Hyd	Hyd	£235.00	Blank
PH1		6500			10.05	10.05	10.05	10.05					0.95mm					
Notes	Ideal for Road Use. Smooth Tid	ckover																
VOLG/268/420H	Road/Rally Cam	2500	268	268	0.420	0.420	0.420	0.420	24-64	64-24	110		0.057"		Hyd	Hyd	£235.00	Blank
PH2		7000			10.66	10.66	10.66	10.66					1.45mm					
Notes	A Free Revving Camshaft with	Little Loss	of Low Do	own Powe	er													
VOLG/272/448H	Tarmac Rally Sprint Cam	3000	272	272	0.448	0.448	0.448	0.448	26-66	66-26	110		0.063"		Hyd	Hyd	£235.00	Blank
PH3		7500			11.37	11.37	11.37	11.37					1.60mm					
Notes	Good Mid Range Power										-				-			
VOLG/276/452H	Tarmac Rally Sprint Cam	3500	276	276	0.452	0.452	0.452	0.452	28-68	68-28	110		0.082"		Hyd	Hyd	£235.00	Blank
PH4		7500			11.47	11.47	11.47	11.47					2.10mm					
Notes	Good Mid Upper Range Power	. The Limit	off Hydru	alic Cam	Followers	S												
VOLG/296/490	Race Cam	4000	296	296	0.490	0.488	0.490	0.488	40-76	76-40	108		0.130"		0.008	0.010	£235.00	Blank
PH5		8000			12.44	12.39	12.44	12.39					3.30mm		0.200	0.250		
Notes	Powerful Upper Range Camsha	aft. For Use	with Soli	d Cam Fo	ollowers													
VOLGS/264/463	Supercharged G60 Cam	2500	264	278	0.463	0.433	0.463	0.433	20-64	76-32	112		0.047"		Hyd	Hyd	£235.00	Blank
PH3		7000			11.75	10.99	11.75	10.99					1.20mm					
Notes	A Fast Road Rally Cam Develo	ped for the	Superch	arged En	gine. Givi	ing Good	Mid Rar	nge with a	Steady Ti	ckover			•		•	•		•

Volkswagen Golf GTI 8 Valve Hydraulic additional Components

Part No	Description	Price
DNVP1800	1 x Vernier Pulley	£95.00
DNCFHL66	8 x Hydrualic Cam Followers	£80.00
DNCF5118	8 x Mechanical Easy Adjust Cam Followers Non Shim Type (35mm x 26mm)	£150.00
TN8124	Timing Belt (124mm x 18mm)	£20.00
K335	Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Volkswagen Camshaft Data :- Golf TDI 8 Valve Diesel Taper Pulley

Part No	Application	Power	Dura	ation	Valv	e Lift	Cam	Lift	Tim	ing	Full	Lift	Lift @ with clea		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VOLT/256/396H	Road Cam	2000	250	250	0.390	0.390	0.390	0.390	60-12	60-12	112		0.021"		Hyd	Hyd	£300.00	Blank
PH1		6500			9.90	9.90	9.90	9.90					0.54mm					
Notes	Road Rally Cam. Giving Increa	sed Mid Ra	ange Perf	ormance														





Volkswagen Camshaft Data :- Golf GTI 1.8 2.0 16 Valve

Part No	Application	Power	Dura	ation	Valv	e Lift	Can	ı Lift	Tim	ing	Full	Lift	Lift @ with cle		Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VOLV/264/410H	Road Cam	2000	264	264	0.410	0.410	0.410	0.410	22-62	66-22	110	110	0.033"	0.033"	Hyd	Hyd	£480.00	Blank
PH1		6500			10.41	10.41	10.41	10.41					0.85mm	0.85mm			Per Pair	
Notes	Ideal for Road Use. Excellent L	ow Down F	Power. Wo	orks with	Standard	Injection)											
VOLV/272/420H	Road/Rally Cam	2500	272	272	0.420	0.420	0.420	0.420	26-66	66-26	110	110	0.63"	0.63"	Hyd	Hyd	£480.00	Blank
PH2	_	7000			10.66	10.66	10.66	10.66					1.60mm	1.60mm			Per Pair	
Notes	A Free Revving Camshaft with	Little Loss	of Low Do	own Powe	r. Works	Well wit	h Standa	ard Injecti	on									
VOLV/288/442H	Tarmac Rally Sprint Cam	3000	288	288	0.442	0.442	0.442	0.442	36-72	72-36	108	108	0.079"	0.079"	Hyd	Hyd	£480.00	Blank
PH3		7500			11.22	11.22	11.22	11.22					2.00mm	2.00mm			Per Pair	
Notes	Good Mid Upper Range Power	w. Will Not I	Run on St	andard Ir	jection													
VOLV/296/492	Race Cam	4000	296	296	0.492	0.490	0.492	0.490	40-76	76-40	108	108	0.144"	0.144"	0.008	0.010	£480.00	Blank
PH4		8000			12.49	12.44	12.49	12.44					3.65mm	3.65mm	0.200	0.250	Per Pair	
Notes	Powerful Upper Range Camsha	aft			•		9	•			•							•
MK216V2	MK2 Control Cam	2500	272	272	0.414	0.414	0.414	0.414	26-66	66-26	110	110	0.040"	0.040"	Hyd	Hyd	£480.00	Blank
		7000			10.50	10.50	10.50	10.50					1.00mm	1.00mm	-		Per Pair	
Notes	•	•	•				•			•	•							•

Volkswagen Golf GTI 1.8 2.0 16 Valve Additional Components

Part No	Description	Price
DNCFHL66A	16 x Hydraulic Cam Followers (35mm x 26mm)	£160.00
DNCF5118	16 x Mechanical Easy Adjust Non Shim Cam Followers (35mm x 26mm)	£300.00
TB3460	Timing Belt 1.8 Model (147mm x 25mm)	£30.00
TB5351	Timing Belt 2.00 Model (151mm x 25mm)	£30.00
K335	1 x Clamping Tool for Adjusting Mechanical Cam Followers	£20.00
DNPVW16	1 x Vernier Pulley (Front of Engine)	£100.00
DNP 58.004	1 x Vernier Chain Adjuster for Inlet Cam	£60.00
DNS2673	16 x Competition Silicon Chrome Double Valve Springs 190 lbs	£160.00
DNV5118	16 x Chrome Moly Valve Cap to Suit DNS2673	£48.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Volkswagen Camshaft Data :- Golf Audi TT Turbo 20 Valve

Part No	Application	Power	Dura	ition	Valv	e Lift	Cam	Lift	Tim	ing	Ful	l Lift	Lift @ with cle	TDC arance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VA/256/315/T	Fast Road/Rally Cam	2500	256	264	0.315	0.410	0.315	0.410	40-76	76-40	112	112	0.016"	0.027"	Hyd	Hyd	£525.00	Blank
PH3		6500			7.99	10.41	7.99	10.41					0.40mm	0.68mm			Per Pair	
Notes	Powerfull Mid Range Turbo Ca	m That Wo	rks Well a	as a Road	and Co	mpetition	Cam		<u> </u>				<u> </u>	<u> </u>				



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Telephone: +44 (0)1689 857 109 E-Mail: info@newman-cams.com



Website: www.newman-cams.com



Volkswagen Camshaft Data :- Golf/Ventro VR6 12 Valve

Part No	Application	Power	Dura	ition	Valve	e Lift	Cam	Lift	Tim	ing	Ful	Lift	_	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VR6/264/420H	Road Cam	2000	264	264	0.420	0.420	0.420	0.420	1858	58-18	110	110			Hyd	Hyd	£460.00	Blank
PH1		6500			10.66	10.66	10.66	10.66									Per Pair	
Notes	Ideal for Road Use. Good Ticko	over. To Be	Used in I	Engines v	vith Stand	dard Injed	ction											
VR6/270/430H	Road/Rally Cam	2500	270	270	0.430	0.430	0.430	0.430	25-65	65-25	110	110			Hyd	Hyd	£460.00	Blank
PH2		7000			10.91	10.91	10.91	10.91									Per Pair	
Notes	Will Not Run on Standard Injec	tion. For Us	se with Mo	odified Inj	ection													
VR6/288/440H	Tarmac Rally Sprint Cam	3000	288	288	0.440	0.440	0.440	0.440	34-74	74-34	108	108			Hyd	Hyd	£460.00	Blank
PH3		7500			11.17	11.17	11.17	11.17									Per Pair	
Notes	Good Mid Upper Range Power	. Will Not R	un on Sta	ındard İnj	ection													

Volkswagen Golf/Ventro VR6 12 Valve Additional Components

Part No	Description	Price
DNCF5118	12 x Solid Cam Followers Non Shim Adjustable (35mm x 26mm)	£225.00
DNCFH66	12 x Hydrualic Cam Followers (35mm x 26mm)	£120.00
TD1	Timing Disc Dual Purpose Full Lift and Engine Degrees	£8.00

Volkswagen Camshaft Data :- Air Cooled Flat 4

Rocker Ratio 1:1.2

Part No	Application	Power	Dura	ation	Valve	e Lift	Cam	Lift	Tim	ing	Full	l Lift	_	TDC earance	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	In	Ex	Open	Close	IN. ATDC	EX BTDC	In	Ex	In	Ex	Ex VAT	Type
VOB/264/358	Road Cam	2000	264	264	0.358	0.358	0.320	0.320	1858	58-18	110				0.008	0.010	£115.00	Blank
PH1		5000			9.10	9.10	8.12	8.12							0.203	0.254		1
Notes	Ideal for Road Use. Good Tick	over																
VOB/270/392	Road/Rally Cam	2500	270	270	0.392	0.392	0.350	0.350	25-65	65-25	110				0.008	0.010	£115.00	Blank
PH3		6000			9.95	9.95	8.88	8.88							0.203	0.254		
Notes	Fast Road Competition Cam. F	or Use with	ı Twin Ca	rb Set Up)													
VOB/300/440	Formuale V Race Cam	4500	300	300	0.493	0.493	0.440	0.440	44-76	76-44	104				0.008	0.010	£125.00	Blank
PH5		7500			12.51	12.51	11.17	11.17							0.203	0.254		
Notes	Race Cam Only for Circuit Rac	ing (Chilled	Iron and	Tuftrided)													





Vintage MG

VINTAGE CARS SECTION

MG TB/TF XPAG 1250cc to 1500cc

Part No	Aplication	Power	Dura	ation	Valve	Lift	Tim	ing	Full	Lift	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	Open	Close	IN atdc	Ex btdc	In	Ex	Ex VAT	Type
MGX/240/300	Standard Cam	1250	240	240	0.300	0.300	10/50	50/10	110		0.012	0.014	£260.00	Blank
		4750												
Notes	Standard camshaft as fitted to 1250 engin	es and Y 1	ype Salo	on										
MGX/264/360	Fast Road Cam	1500	264	264	0.360	0.360	22/62	62/22	110		0.012	0.014	£260.00	Blank
PH2		5500												
Notes	A Superb Road Cam must be used in con	juction with	Twin S.U	J Carbs, h	nas a sm	ooth tick	over. Use	DNCF/X	(100 Follow	/er				
MGX/280/330	Fast Road Cam	1750	280	280	0.330	0.330	30/70	70/30	110		0.012	0.014	£260.00	Blank
PH3		6000												
Notes	A Cam based on the AEG 122 Profile with	n 0.025" Ind	rease in	cam lift.Tv	vin SU C	arbs mus	st be use	d. Use D	NCF/X100	Follower				
MGX/320/434	Full Race Cam	4000	320	320	0.434	0.434	45/85	85/45	108		0.012	0.014	£260.00	Blank
PH5		8000												
Notes	Full Race Cam Use DNCF/X100 Follower													
MGX/294/366	Supercharged Cam	1500	294	294	0.366	0.366	34/80	80/34	110		0.012	0.014	£260.00	Blank
PH2		6000												
Notes	A Supercharged Cam based on the Origin	nal Bibby P	rofile. Use	DNCF/X	100 Follo	ower								

Notes:-

All our Steel Cams manufactured from AISI 820 Steel have the cam lobe off set width increased by 0.125" to ensure rotation of the cam follower. There are some problems with the Standard Chilled Iron cam followers, these are OK for the Standard Profile but for the PH2/3 and Race Cams we recommend our Steel Nitrided Cam Followers.

MG TB/TF XPAG 1250cc to 1500cc Additional Components

Part No	Description	Price
DNCF127	8 x Chilled Iron Cam Followers for Standard Profile Cam Only	£72.00
DNCF/X/100	8 x Billet Steeel EN19 Induction Hardend Nitride Steel Compeitition Cam Followers	£144.00
DNS/X/120	8 x Valve Double Valve Springs 120 lbs that will rev to 5000 RPM with PH1 to PH3 Cams	£64.00
DNS/X/150	8 x Valve Double Valve Springs 150 lbs that will rev to 6500 RPM with PH2 to PH3 Cams	£70.00









Vintage Riley



Riley 9

Part No	Aplication	Power	Dura	ation	Cam	Lift	Tim	ing	Full	Lift	Valve	Clear	Price	Material
		Band	In	Ex	In	Ex	Open	Close	IN atdc	Ex btdc	ln	Ex	Ex VAT	Type
RIL9/240/230	Standard Cam	1250	240	240	0.230	0.230	50/10	50/10	110		0.012	0.014	£450.00	Blank
		4750											Per Pair	
Notes	Standard Profile except with quietning rar	nps												•
RIL9/260/240	Fast Road Cam	1500	260	260	0.240	0.240	20/60	60/20	110		0.012	0.014	£450.00	Blank
PH2		5000											Per Pair	
Notes	A Superb Road Cam based on the Sprite	Profile, mu	st be use	d in conju	ction with	Twin S.	U Carbs	, has a sr	nooth ticko	ver				
RIL9/280/260	Race Competition Cam	3000	280	280	0.330	0.330	30/70	70/30	110		0.012	0.014	£450.00	Blank
PH5		6000											Per Pair	
Notes	A Race Cam only suitable for competition	use												

Notes:-

Note when ordering you must specify the length of cam required, there are 3 lengths of Cams:

- 1. Short Cam Length 14"
- 2. Medium Cam Length 15.5"
- 3. Long Cam Length 17"

Riley 9 Additional Components

Part No	Description	Price
	rea per	
K102	8 x Through Hardend Cam Followers	£144.00
K104	2 x Lag Tappets	£36.00

Riley 12/4

Part No	Aplication	Power	Dura	ation	Cam	Lift	Tim	ing	Full	Lift	Valve	Clear	Price	Material
		Band	ln	Ex	In	Ex	Open	Close	IN atdc	Ex btdc	In	Ex	Ex VAT	Type
RIL12/240/230	Standard Cam	1250	240	240	0.230	0.230	10/50	50/10	110		0.012	0.014	£510.00	Blank
Std		4750											Per Pair	
Notes	Standard Profile except with quietning ran	nps			•	-							•	
RIL12/260/240	Fast Road Cam	1500	260	260	0.240	0.240	20/60	60/20	110		0.012	0.014	£510.00	Blank
PH2		5000											Per Pair	
Notes	A Superb Road Cam based on the Sprite	Profile												
RIL12/280/260	Competition Cam	3000	280	280	0.260	0.260	30/70	70/30	110		0.012	0.014	£510.00	Blank
PH4		6000											Per Pair	
Notes	A cam sutable for Sprints Hillclimbs and re	oad use. Re	equires tw	vin S.U Ca	arbs									
RIL12/296/270	Race Cam	3500	296	296	0.270	0.270	38/78	78/38	110		0.012	0.014	£510.00	Blank
PH5		7000											Per Pair	
Notes	A Race Cam only suited to circuit race us	e			•	•							•	•

Riley 12/4 Additional Components

Part No	Description	Price
K105	8 x Through Hardend Cam Followers	£144.00





Vintage Riley

Riley 6 Cylinder 12/6 15/6

Part No	Aplication	Power	Dura	ation	Cam	Lift	Tim	ing	Full	Lift	Valve	Clear	Price	Material
		Band	ln	Ex	In	Ex	Open	Close	IN atdc	Ex btdc	In	Ex	Ex VAT	Type
RIL6/240/230	Standard Cam	1250	240	240	0.230	0.230	10/50	50/10	110		0.012	0.014	£675.00	Blank
		4750											Per Pair	
Notes	Standard Profile except with quietning ran	nps												
RIL6/260/240	Fast Road Cam	1500	260	260	0.240	0.240	20/60	60/20	110		0.012	0.014	£675.00	Blank
PH2		5000											Per Pair	
Notes	A Superb Road Cam based on the Sprite	Profile												
RIL6/280/260	Competition Cam	3000	280	280	0.260	0.260	30/70	70/30	110		0.012	0.014	£675.00	Blank
PH4		6000											Per Pair	
Notes	A cam sutable for Sprints Hillclimbs and re	oad use. Re	equires tv	vin S.U Ca	arbs	<u> </u>			•					

Notes:-The 12/6 cam has a gear in one of the cams, when ordering please specify gear and non gear cams required.

Riley 6 Cylinder 12/6 15/6 Additional Components

Part No	Description	Price
K103	12 x Through Hardend Cam Followers	£216.00





Vintage BSA

VINTAGE MOTORCYCLES SECTION - PRE 1970

BSA Twin Cylinder Camshafts A6/A7/A10/A65

Part No	Aplication	O.E.	Dura	ation	Cam	Lift	Tim	ning	Lift	Valve	Clear	Price	Material
	·	Part No	In	Ex	In	Ex	Open	Close	at TDC	In	Ex	Ex VAT	Type
BSA A6	Standard Cam		TBA	TBA	0.265	0.265				0.012	0.014	£75.00	Repro
												£165.00	Billet
Notes	Billet New Cams Manufactured from AISI	8620 Case	e Hardeni	ing Steel (Regrind	Max We	ar on top	of cam lo	be 0.010 T	hou)			
BSA A7	Standard Cam		TBA	TBA	0.265	0.265				0.012	0.014	£75.00	Repro
												£165.00	Billet
Notes	Billet New Cams Manufactured from AOI	SI 8620 Ca	se Harde	ning Stee	l (Regrin	d Max W	ear on to	p of cam	lobe 0.010	Thou)			
BSA A10	Super Rocket	356	328	328	0.301	301	61/86	86/61	0.088"	0.012	0.014	£75.00	Repro
	Standard Cam											£165.00	Billet
Notes	New Billet Cams Manuafctured from EN40	B Nitridin	g Steel (F	Regrind m	ax wear	on top of	cam lobe	e 0.010 T	hou)	•	•	•	•
BSA A10	Spitfire	357	320	320	0.338	0.338	57/83	83/57	0.121"	0.012	0.014	£75.00	Repro
	Standard Cam											£165.00	Billet
Notes	New Billet Cams Manuafctured from EN40	B Nitridin	g Steel (F	Regrind m	ax wear	on top of	cam lobe	e 0.010 T	hou)	•	•	•	•
BSA A10	Race Cam		330	330	0.350	0.35	58/84	84/58	0.141"	0.012	0.012	£165.00	Billet
Notes	New Billet Cams Manuafctured from EN40) B Nitridin	g Steel	<u> </u>									
BSA A65	Super Rocket	356	328	328	0.301	0.301	57/83	83/57	0.088"	0.012	0.014	£75.00	Repro
	Standard Cam											£165.00	Billet
Notes	New Billet Cams Manuafctured from EN40	B Nitridin	g Steel (F	Regrind m	ax wear	on top of	cam lobe	e 0.010 T	hou)				
BSA A65	Spitfire	357	320	320	0.338	0.338			0.121"	0.012	0.014	£75.00	Repro
	Standard Cam											£165.00	Billet
Notes	New Billet Cams Manuafctured from EN40	B Nitridin	g Steel (F	Re Grind r	nax wear	on top c	of cam lob	oe 0.010	Thou)	•	•	•	•
BSA A65	Race Cam		290	290	0.445	0.445	58/84	84/58	0.141"	0.012	0.014	£165.00	Billet
					11.12	11.12							
Notes	New Billet Cams Manuafctured from EN40	B Nitridin	g Steel (F	Regrind m	ax wear	on top of	cam lobe	e 0.010 T	hou)		•	•	•

Notes:-

The Camshafts are Manuactured from either AlSI8620 Case Hardening Steel or EN40B Nitriding Steel in the UK. We can grind to any profile required also cams for offset cranks.

Cam Followers No Exchange Service we only work on customers own parts.





Vintage BSA

BSA Single Cylinder Gold Star

Part No	Aplication	O.E.	Dur	ation	Cam	Lift	Tim	ing	Lift	Valve	Clear	Price	Materia
	·	Part No	In	Ex	In	Ex	Open	Close	at TDC	In	Ex	Ex VAT	Type
BSA/42IN	Inlet Cam	42	336	336	0.440	0.440	50/106	106/50	0.161"	0.014	0.014	£105.00	Billet
Notes	Billet New Cam Manufactured from AISI 8	3620 Case	Hardenin	Steel (R	Regrind. N	/laximum	Wear or	top of ca	am lobe 0.0	10 Thou)			
BSA/42EX	Exhaust Cam	42	336	336	0.440		50/106			0.014	0.014	£105.00	Billet
Notes	Billet New Cam Manufactured from AISI 8	3620 Case	Hardenin	Steel (R	Regrind. N	/laximum	Wear or	top of ca	am lobe 0.0	10 Thou)			
BSA/44IN	Inlet Cam	44	330	330	0.450	0.450	55/100	100/55	0.160"	0.020	0.020	£105.00	Billet
Notes	Billet New Cam Manufactured from AISI 8	3620 Case	Hardenin	g Steel (R	Regrind. N	/laximum	Wear or	top of ca	am lobe 0.0	10 Thou)			
BSA/44EX	Exhaust Cam	44	330	330	0.450	0.450	55/100	100/55	0.160"	0.020	0.020	£105.00	Billet
Notes	Billet New Cam Manufactured from AISI 8	3620 Case	Hardenin	Steel (R	Regrind. N	//aximum	Wear or	top of ca	am lobe 0.0	10 Thou)			
BSA/46IN	Inlet Cam	46	344	344	0.397		62/102			0.014	0.014	£50.00 £105.00	Repro Billet
Notes	Billet New Cam Manufactured from AISI 8	3620 Case	Hardenin	g Steel (R	Regrind. N	⁄laximum	Wear or	top of ca	am lobe 0.0	10 Thou)	•		•
BSA/46IN	Exhaust Cam	46	344	344	0.397	0.397	62/102	102/62	0.124"	0.014	0.014	£50.00 £105.00	Repro Billet
Notes	Billet New Cam Manufactured from AISI 8	3620 Case	Hardenin	Steel (R	Regrind. N	/laximum	Wear or	top of ca	am lobe 0.0	10 Thou)			
BSA/48IN	Inlet Cam	48	334	334	0.375		56/98	98/56	0.106"	0.014	0.014	£50.00 £105.00	Repro Billet
Notes	Billet New Cam Manufactured from AISI 8	3620 Case	Hardenin	g Steel (R	Regrind. N	√aximum	Wear or	top of ca	am lobe 0.0	10 Thou)			
BSA/48EX	Exhaust Cam	48	334	334	0.375	0.375	56/98	98/56	0.106"	0.014	0.014	£50.00 £105.00	Repro Billet
Notes	Billet New Cam Manufactured from AISI 8	3620 Case	Hardenin	g Steel (R	Regrind. N	∕laximum	Wear or	top of ca	am lobe 0.0	10 Thou)			
BSA/50IN	Inlet Cam	50	296	296	0.365	0.365	38/78	78/38	0.101"	0.012	0.012	£50.00 £105.00	Repro Billet
Notes	Billet New Cam Manufactured from AISI 8	3620 Case	Hardenin	Steel (R	Regrind. N	//aximum	Wear or	top of ca	am lobe 0.0	10 Thou)		-	

Notes:-

Camshafts are manufactured in the UK from AISI8620 Case Hardening Steel Min RWC Hardness 60. Reground cams are on grinding customers own cams and can only be ground to existing profile max wear on top of lobe 0.010"





Norton Commando

Norton Commando

Part No	Aplication	O.E.	Dura	ation	Valve	Lift	Tir	ning	Lift	Valve	Clear	Price	Material
	•	Part No	ln	Ex	In	Ex	Open	Close	at TDC	ln	Ex	Ex VAT	Type
COM/STD	Standard Cam	COM/STD	316	316	0.326	0.326	57/79	79/57	0.111"	0.016	0.016	£195.00	Chilled
	Commando								0.111"			£235.00	Billet
Notes	Billet New Cams Manufactured from EN40	B Nitriding	Steel/Ch	illed Cam	s From (Chilled Iro	on						
COM/2S	2S Cam	2S	320	300	0.388	0.351	56/84	84/56	0.168"	0.016	0.016	£195.00	Chilled
	Commando								0.152"			£235.00	Billet
Notes	Billet New Cams Manufactured from EN40	B Nitriding	Steel/Ch	illed Cam	s From (Chilled Iro	on						
COM/4S	4S Cam	4S	332	300	0.388	0.351	60/92	92/60	0.168"	0.016	0.016	£195.00	Chilled
	Commando								0.145"			£235.00	Billet
Notes	Billet New Cams Manufactured from EN40	B Nitriding	Steel/Ch	illed Cam	s From (Chilled Iro	on						
COM/324/380	Race Cam	Race	324	324	0.380	0.380	55/89	89/55	0.132"	0.012	0.014	£195.00	Chilled
	Commando								0.132"			£235.00	Billet
Notes	Billet New Cams Manufactured from EN40	B Nitriding	Steel/Ch	illed Cam	s From (Chilled Iro	on						

Notes:-

WE DO NOT offer an exchange service, we only grind customers own cam followers. Materials: We can offer the above camshafts in either Nitriding Steel or Chilled Iron.

For cams manufactured to 270 or 90 degree crankshafts add £40.00.

Norton Commando Additional Components

Part No	Description	Price
Followers	4 x Reground Cam Followers Radiused or Flat Lapped and Polished	£60.00





Norton Dominator

Norton Dominator

Part No	Aplication	O.E.	Dura	ation	Valve	Lift	Tir	ning	Lift	Valve	Clear	Price	Material
	<u>'</u>	Part No	In	Ex	ln	Ex	Open	Close	at TDC	In	Ex	Ex VAT	Type
DOM/QR	Standard Cam	DOM/QR	292	292	0.306	0.306	42/70	70/42	0.086"	0.016	0.016	£185.00	Chilled
	Dominator								0.086"			£225.00	Billet
Notes	Billet New Cams Manufactured from EN4	OB Nitriding	Steel/Ch	illed Cam	s From (Chilled Iro	on						
DOM/316/326	Dominator Cam with	2S	320	300	0.388	0.351	56/84	84/56	0.168"	0.008	0.010	£185.00	Chilled
	Commado Profile								0.152"			£225.00	Billet
Notes	Billet New Cams Manufactured from EN4	OB Nitriding	Steel/Ch	illed Cam	s From (Chilled Iro	on						
DOM/2S	2S Cam	2S	320	300	0.388	0.351	56/84	84/56	0.168"	0.016	0.016	£185.00	Chilled
	Dominator								0.152"			£225.00	Billet
Notes	Billet New Cams Manufactured from EN4	OB Nitriding	Steel/Ch	illed Cam	s From (Chilled Iro	on						
DOM/4S	4S Cam	4S	332	300	0.388	0.351	60/92	92/60	0.168"	0.016	0.016	£185.00	Chilled
	Dominator								0.145"			£225.00	Billet
Notes	Billet New Cams Manufactured from EN4	OB Nitriding	Steel/Ch	illed Cam	s From (Chilled Iro	on						
DOM/324/380	Race Cam	Race	324	324	0.380	0.380	55/89	89/55	0.132"	0.012	0.014	£185.00	Chilled
	Dominator								0.132"			£225.00	Billet
Notes	Billet New Cams Manufactured from EN40B Nitriding Steel/Chilled Cams From Chilled Iron												

Notes:-

WE DO NOT offer an exchange service, we only grind customers own cam followers. Materials: We can offer the above camshafts in either Nitriding Steel or Chilled Iron.

For cams manufactured to 270 or 90 degree crankshafts add £40.00.

Norton Dominator Additional Components

Part No	Description	Price
Followers	4 x Reground Cam Followers Radiused or Flat Lapped and Polished	£60.00





Triumph

Triumph T120/T140 Twin Cylinder Camshaft

Part No	Aplication	O.E.	Dur	ation	Cam	Lift	Tim	ing	Lift	Valve	Clear	Price	Material
		Part No	In	Ex	In	Ex	Open	Close	at TDC	In	Ex	Ex VAT	Type
TRI/295/IN	T120 IN Standard Cam		TBA	TBA	0.295	0.295				0.010	0.012	£105.00	Billet
	Thunderbird Profile											£50.00	Repro
Notes	New Billet Cams Manuafctured from EN40) B Nitridino	g Steel (F	Regrind m	ax wear	on top of	cam lobe	0.010 Th	ou)				
TRI/295/EX	T120 EX Standard Cam		TBA	TBA	0.295	0.295				0.010	0.012	£105.00	Billet
	Thunderbird Profile											£50.00	Repro
Notes	New Billet Cams Manuafctured from EN40) B Nitridino	g Steel (F	Regrind m	ax wear	on top of	cam lobe	0.010 Th	ou)				
TRI/3134/IN	T120 IN Standard Cam	3134	312	312	0.315	0.315	46/86	86/46	TBA	0.010	0.012	£105.00	Billet
	3134 Profile											£50.00	Repro
Notes	New Billet Cams Manuafctured from EN40) B Nitridin	g Steel (F	Regrind m	ax wear	on top of	cam lobe	0.010 Th	ou)				
TRI/3134/EX	T120 EX Standard Cam	3134	312	312	0.315	0.315	46/86	86/46	TBA	0.010	0.012	£105.00	Billet
	3134 Profile											£50.00	Repro
Notes	New Billet Cams Manuafctured from EN40) B Nitridino	g Steel (F	Regrind m	ax wear	on top of	cam lobe	0.010 Th	ou)				
TRI/300/348IN	T120 IN Race Cam		300	300	0.348	0.348	48/72	70/50	0.116	0.010	0.012	£105.00	Billet
												£50.00	Repro
Notes	New Billet Cams Manuafctured from EN40) B Nitriding	g Steel (F	Regrind m	ax wear	on top of	cam lobe	0.010 Th	ou)		•	•	
TRI/300/348/EX	T120 EX Race Cam		300	300	0.348	0.348	48/72	70/50	0.109	0.010	0.012	£105.00	Billet
												£50.00	Repro
Notes	New Billet Cams Manuafctured from EN40 B Nitriding Steel (Regrind max wear on top of cam lobe 0.010 Thou)												

Triumph T150/T160 Triple Cylinder Inlet/Exhaust Universal Camshaft

Part No	Aplication	O.E.	Dura	ation	Cam	Lift	Tim	ing	Full Lift	Valve	Clear	Price	Material
		Part No	In	Ex	In	Ex	Open	Close	IN atdc	In	Ex	Ex VAT	Type
T150/T160	T150/T160 Standard Cam	T140			0.315	0.315	46/86	86/46		0.010	0.012	£205.00 £100.00	Billet Repro
Notes	New Billet Cams Manuafctured from EN4	0 B Nitridin	g Steel (F	Regrind m	ax wear	on top of	cam lobe	0.010 Th	ou)		l	£100.00	Керго

Notes:-

Reground Camshafts customers own cams ground and heat treated Case Harden Early Cams, Nitride Late.

Only grinding extisting profiles on the cams Max wear on cam 0.010"

Cam Follower Reclamation Service. We regrind and Lap and Polish T100/T140 Cam Followers.

Working on customer own cam followers This is not an exchange service.

Triumph Additional Components

Part No	Description	Price
TRI/T120/40	4 x Cam Followers ground lapped and polished	£60.00
TRI/T120/40 NEW	4 x New Cam Followers	£100.00



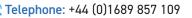




Website: www.newman-cams.com

Address: Farnborough Way, Farnborough, Kent, BR6 7DH, United Kingdom









Please phone for details or request our current Production List:

CONTACTS

Ken Newman	Profile Design, Technical, Sales
Stuart Clarke	Production Management, Progress, Sales
Marzena Hawkins	Accounts & Administration, HR, Sales

Telephone: +44 (0)1689 857 109 **E-Mail**: info@newman-cams.com

Website: www.newman-cams.com

Address: Farnborough Way, Farnborough, Kent, BR6 7DH, United Kingdom