

# 4610811

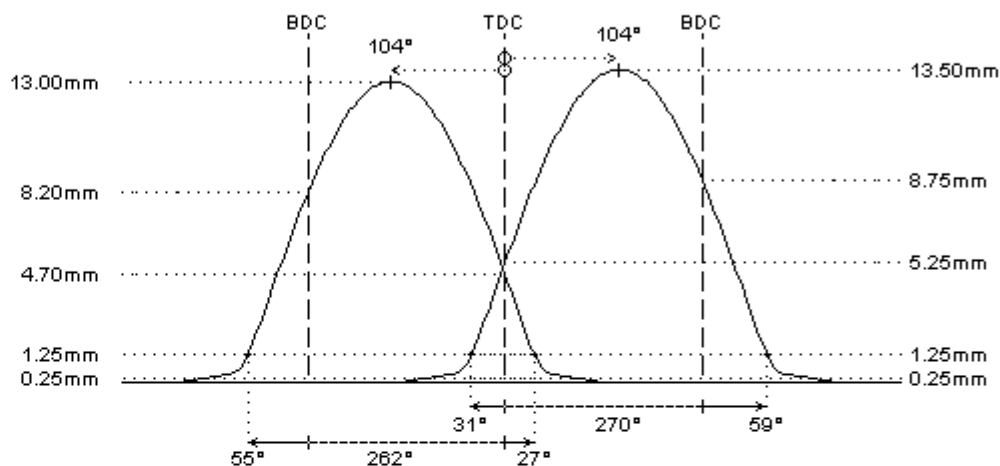
full race

Opel C20XE with distributor

I-4cyl 2.0L 16v DOHC (DTH/DTH)



	intake	exhaust
<b>camshaft data:</b>		
lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 317°	305°
duration @ 1.0mm	: 270°	262°
valve lift	: 13.50mm	13.00mm
cam lift	:	
lobe angle	: 104°	104°
timing @ 1.0mm	: 31° / 59°	55° / 27°
valve lift @ TDC	: 5.25mm	4.70mm
<b>parts setup:</b>		
cam wheels :	CSK5058	CSK5058
follower :	CC004	CC004
valve lash :	TS102	TS102
valve :	O.E.M.	O.E.M.
valve locks :	O.E.M.	O.E.M.
upper retainer :	99341	99341
lower retainer :	remove	remove
exterior spring :	PAC-E12009	PAC-E12009
interior spring :	PAC-I12009	PAC-I12009
fitted load / length	: 32kg @ 33.5mm	: 32kg @ 33.5mm
max. load / lift	: 102kg @ 14.0mm	: 102kg @ 14.0mm



### REMARKS :

- # - profiles for conversion to mechanic race cam followers
- camshafts available in cast iron or optional gundrilled steel billet (short competition version without distributor drive end)
- # FOR COMPETITION APPLICATIONS ONLY. Following details must be verified:
  - the camshafts must turn smooth in the cylinderhead, provide free travel by machining where needed
  - distance between valve seal and retainer at full lift must be 0.6mm at least
  - minimum valve spring travel of 1.0mm at full lift must be provided
  - distance between valve and piston 1.0mm (pref. 1.5mm). check 5-15° before TDC on exhaust, and after TDC on intake
- # ONLY for use in competition engines with independent engine management (throttle position sensor) or carburetors

### REMARKS :

- # replace OEM lower retainer to obtain a correct installation / fitted length (currently not available)