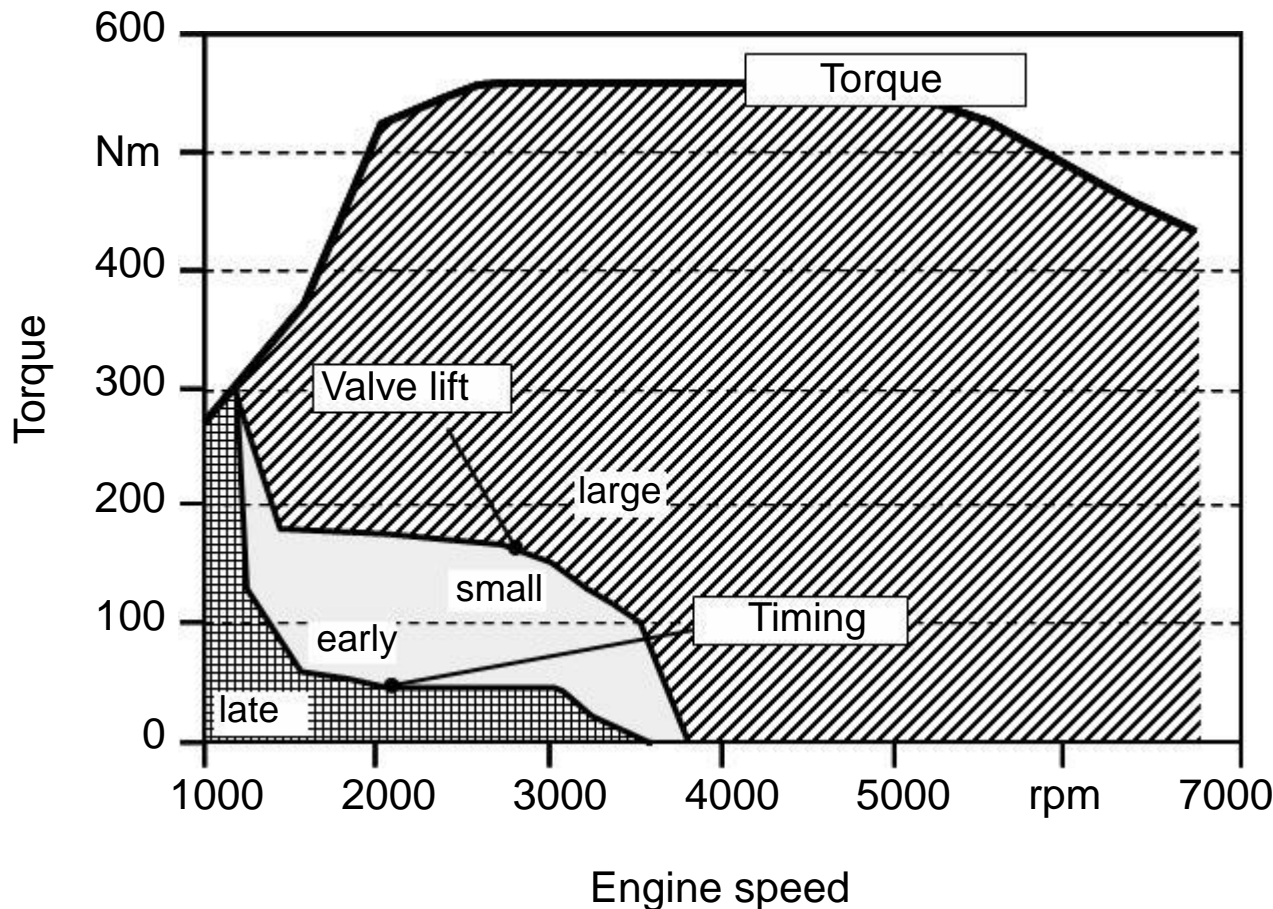


Control strategy „VarioCam Plus“ (Porsche)

Intake camshaft phasing with control bucket tappet



Idle speed:

- Small valve lift
 - ⇒ low friction
 - ⇒ increased charge movement
- Late-adjustment of camshaft
 - ⇒ low overlap
 - ⇒ low residual gas share

Uniform, stable combustion

Part-load:

- Small valve lift
- Early-adjustment of camshaft
 - ⇒ large overlap
 - ⇒ high residual gas share
 - ⇒ de-throttling

Low emissions/fuel consumption

Full-load:

- Large valve lift for adapted opening and closing valve timing
 - ⇒ max. cylinder load
- (- Early-adjustment of camshaft)

Maximum power