

\_ DRIVING THE INDUSTRY

**Single-minded benefits  
don't come from  
multiple suppliers.**

# THE FUTURE IS SINGLE-MINDED.

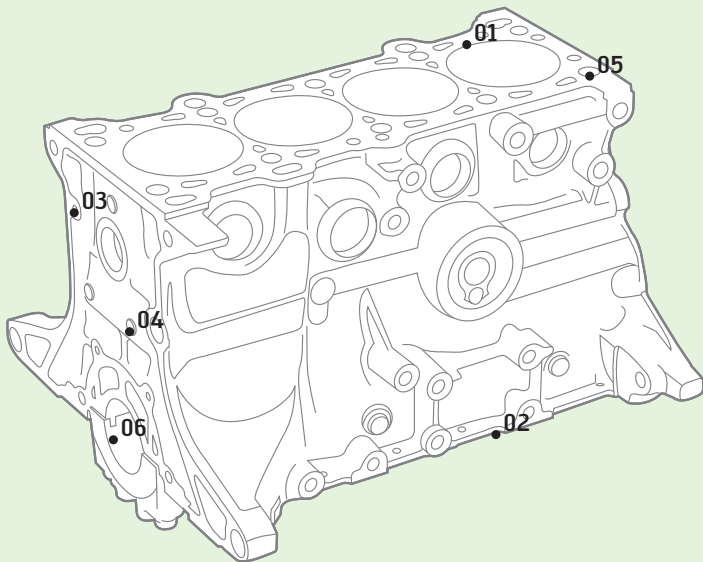
Everyone knows the automotive industry must keep up with continual, radical change. Greater productivity with higher quality. Declining margins and higher precision. New materials, new locations and more demanding customers.

With the combined power of Walter, Walter Titex and Walter Prototyp, we deliver more than tools. We are a single-source provider for the complete processing of workpieces. We're setting a new standard in metal cutting, and our tool management contracts and function-guarantee agreements support your ongoing drive for improved productivity. No one else competes at this level of quality and precision.

**Expect more. Engineer what you envision.  
Experience the new Walter.**

# ENGINE BLOCK

Machining GGL grey cast iron or cast iron with GGV vermicular graphite? Our Tiger-tec® cutting materials and Xtra-tec® systems were meant for it. Achieve the highest levels of form, finish and productivity increases with high-performance drills by Walter Titex and the innovative milling program of Walter Prototyp.



- **01** **Walter Xtra-tec®** face mill F4033 for rough and finish machining of fire face



- **04** **Walter Titex XD®** Technology for manufacturing oil holes



- **02** **Walter Gang** milling cutter for cheek face milling



- **05** **Walter Prototyp Paradur Engine** and **Prototflex C** collet chuck for synchronous rigid tapping



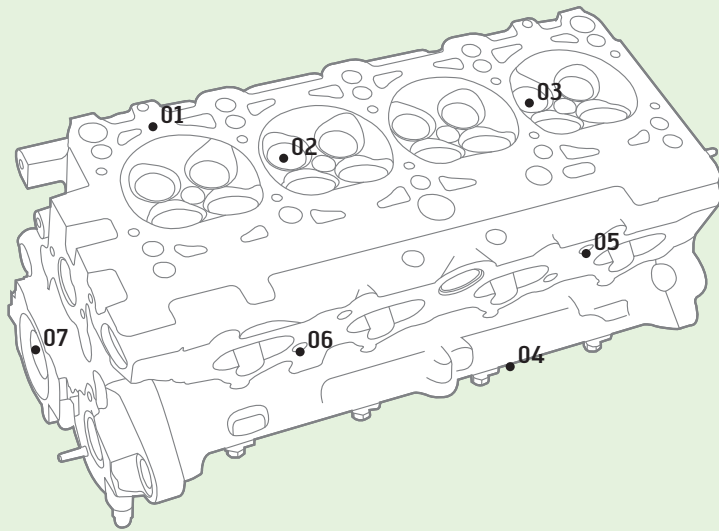
- **03** **Walter Titex Alpha® 4** for drilling mounting holes



- **06** **Walter CBN** reamer for crankshaft bore

# CYLINDER HEAD

Workpieces are increasingly manufactured from aluminium thanks to its lower weight, longer service life, lower energy consumption and fewer toxic emissions. We offer a sophisticated PCD and solid carbide tool programme for precise and economical aluminium machining.



•01 **Walter PCD face mill**  
for rough and finish machining of fire face



•04 **Walter PCD reamer**  
for the spark-plug hole



•02 **Walter PCD reamer**  
for parent metal bore



•05 **Walter Titex Alpha® Jet**  
for contour finishing of main cylinder



•03 **Walter PCD reamer**  
for valve guide and seat



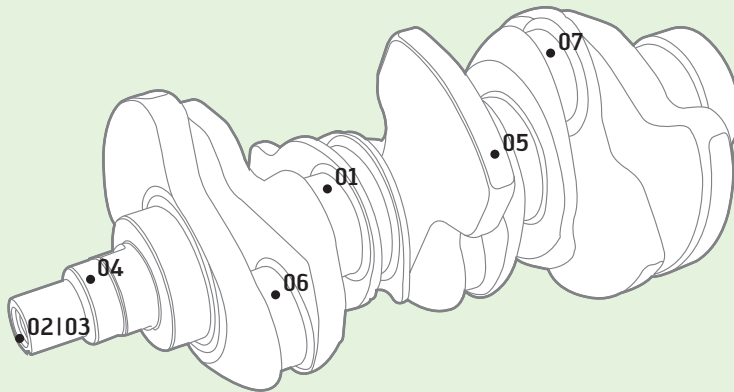
•06 **Walter Prototyp Protodyn CAP**  
thread formers



•07 **Walter PCD reamer**  
for camshaft bore

# CRANKSHAFT

Crankshafts face immense forces and must be built with a high level of precision. Whether from ductile iron or steel alloys, durable crankshafts with a long service life can be produced at a competitive price per unit.



- **01** **Walter Titex XD® Technology**  
for manufacturing oil holes



- **05** **Walter Rotary broaching tool**  
for bearing and flange machining



- **02** **Walter Xtra-tec® Point Drill**  
with interchangeable drill tip



- **06** **Walter External mill**  
for bearing and flange machining



- **03** **Walter Prototyp Paradur HT**  
for manufacturing fastening threaded holes

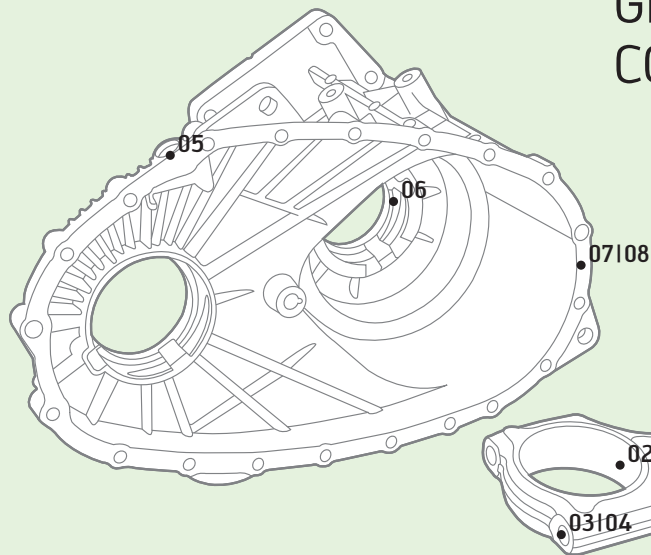


- **04** **Walter Capto**  
rotary support for finish turning



- **07** **Walter Internal mill**  
for bearing and flange machining

# GEAR CASING AND CONNECTING RODS



PCD monoblock mills from Walter, solid carbide drills from Walter Titex and taps from Walter Prototyp: the perfect combination for machining gear casings in sub-eutectic aluminium.

For difficult-to-machine connecting rods, the latest Walter Xtra-tec® rough mill generation with eight very positive indexable cutting edges, deep hole drills from Titex and premium taps from Walter Prototyp combine to provide highly productive results.



•01 **Walter** Indexable insert drill for the small eye



•05 **Walter** PCD mill for rough machining and finishing of flat surfaces



•02 **Walter** Indexable insert boring and milling tool for the big eye



•06 **Walter** Fine boring tool for machining multi-step bores



•03 **Walter Titex XD®** Technology special tool for core hole drilling



•07 **Walter Titex Alpha®** Jet for drilling core holes in flange



•04 **Walter Prototyp Prototex H** special tool for threading



•08 **Walter Prototyp Paradur HS** for tapping the flange



## Walter AG

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