



#### **Instructions for use.**

This special tool is a further development of the tried-and-trusted gear shaft extractor 400 0014 10.

A modification to the gear shaft cover on Vauxhall/Opel vehicles with front-wheel drive has made the use of this special tool an essential. This tool can be used for assembly work on gear systems with concentric and eccentric gear shaft boreholes, as well as on gear assemblies with closed housing covers, and can therefore be used for all 4-speed and 5-speed gear systems. Clutch replacement and crankshaft sealing ring replacement can be carried out on these vehicles with the engine and gear systems still installed.

Due to the special design of the new gear types, gear systems with closed housing covers should have the cover removed, and the special tool screwed into the threaded borehole.

On gear systems which are provided with a threaded insertion hole (blind plug) in the housing cover, the four corresponding securing screws in the housing cover are removed and the special tool is secured in the insertion hole.

Extraction and insertion of the gear shaft takes place by placing the threaded mandrel (1) into the gear shaft and turning the counter nuts (2).

A supplement to this extraction tool is an assembly set for inserting the crankshaft sealing rings and the spigot bearing, available under AS No.400 1030 10.