Zimbabwe Bush Pump – Tools and equipment

Like any machine, the Zimbabwe Bush Pump can best be installed and maintained by well designed and manufactured tools and equipment. The pump has been designed for heavy duty use and uses galvanised iron rising mains (pipes) which are heavy to lift and lower. Most pumps operate at depth greater than 30 metres. 50mm GI piping is standard together with 16mm mild steel rods.

It is safest to use a steel tripod for raising and lowering pipes, although gantries made of hardwood have often in the past been erected over Bush Pumps. The block and tackle or rope and pulleys are then attached to this gantry for lowering and raising pipes and rods. Modern equipment is now available for installing and servicing Bush Pumps.

Tools like wrench spanners, files, threading equipment for 16mm rods, files, special pump spanners, hacksaws, plumbers delight (a pipe joining compound) all form part of the kit for installing and maintaining the Bush Pump. In addition pipe clamps, “pull-tights” (a tool for raising and lowering pipes working on a system that clamps the pipe), “swivel nipples” (for attaching the rope and pulley to a pipe).

Tools for the job

Special spanners which are used on the pump head. A special tool which holds the 16mm rods.
Robust pipe clamp. An essential tool for securing steel pipes when they are being raised and lowered the pipes.

The 50mm “swivel nipple” – an excellent tool for raising and lowering pipes.

“Pull-tight” for raising and lowering pipes. Rope and pulleys – a light weight equivalent to the heavy block and tackle used to raise and lower pipes. It is suspended from a tripod. Special tripods are now available.

ALL EQUIPMENT SHOWN AVAILABLE FROM V & W ENGINEERING; HARARE.