



# PIPE PUSHING MACHINES

A safe, cost effective alternative to the use of winches or excavator buckets & slings for pushing new pipe into a host pipe

Since the 1980s, Steve Vick International has been producing pipe pushing machines for use in mains renovation projects, that is for the insertion or sliplining of old metal mains with new PE pipe. Other uses include feeding cable into ducting, or removing it quickly and easily.

We produce a range of models capable of handling PE from 40mm up to 630mm in diameter, although larger machines are produced to special order. Each model may be fitted with shell inserts to accommodate smaller dimensions. The smallest machine is pneumatically operated whilst the larger models are hydraulic in operation. In addition, we produce manual pushing machines pushing 20, 25, 32 and 40mm diameters.



The 355 (Left) and 500 (Right) Hydraulic Pushing Machines on site inserting sticks of PE pipe

## BENEFITS

- Lower equipment costs than winches
- Insertion can take place with only one excavation open
- Avoids the risk of stretching and exceeding tensile loading of the PE (when winching)
- Preferred method of many gas distribution companies
- Action may be reversed to pull back pipe if an obstruction is met
- Avoids the need to first feed a winch wire through the host pipe
- Avoids the safety issues associated with winch cable under tension
- Avoids prescribed waiting time for PE to 'relax' before jointing
- Long sections can be inserted in one operation: 500 metres typical; 1000+ metres possible
- Insertion speeds of up to 12 minutes per metre depending on model/pipe diameter
- Avoids the uncontrolled force associated with using an excavator shovel to push in pipe

## OPERATION

SVI Pushing Machines are extremely easy to operate—just a touch of a lever is all that's needed to insert even large diameter PE. The machines work on the principle of grasping the pipe in a set of jaws, thrusting it forward and holding it in that position whilst the jaws return to the start position ready to push the pipe again.

**Pushing  
has many  
benefits over  
winching**

**Contact us for  
information  
on our Pipe  
Handlers  
which attach  
to the arm of  
an excavator**



125 Pneumatic Pushing Machine



Insert Shells



180 Hydraulic Pushing Machine



355 Hydraulic Pushing Machine



630 Hydraulic Pushing Machine

### SPECIFICATION

Model	125 Plus	180	355	500	630
For use with pipe sizes	40 to 125mm	40 to 180mm	90 to 355mm	355 to 500mm	355 to 630mm
Mode of operation	Pneumatic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Max pushing speed	12 m/min	8 m/min	4 m/min	4 m/min	4 m/min
Compressed air supply	7 Bar from 3m <sup>3</sup>	N/A	N/A	N/A	N/A
Hydraulic supply	N/A	140 Bar at 30 litres/min	140 Bar at 30 litres/min	200 Bar at 50 litres/min	200 Bar at 50 litres/min
Max pushing force	0.45 tonnes	2.5 tonnes	5.5 tonnes	11 tonnes	11 tonnes
Dimensions: Length	1200 mm	1200 mm	1005 mm	1200 mm	1200 mm
Width	350 mm	420 mm	650mm	1100 mm	1200 mm
Height	600 mm	770 mm	800 mm	900 mm	1030 mm
Weight	78 kg	118 kg	260 kg	560 kg	600 kg

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