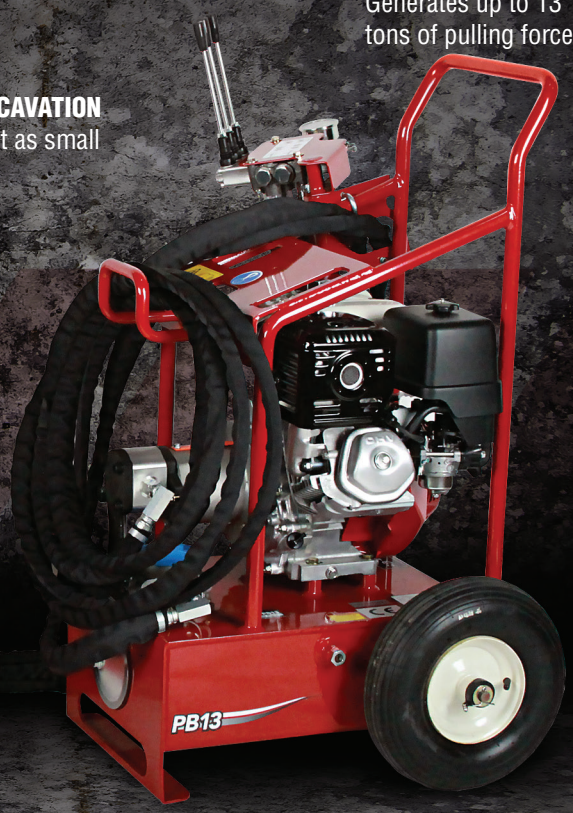
TRENCHLESS REPLACEMENT SYSTEM FOR SMALL DIAMETER STEEL GAS SERVICES

SLX1300 PIPE EXTRACTOR

SAME PATH™ TECHNOLOGY
Reduces risk to surrounding buried utilities

MINIMAL EXCAVATION
Requires a pit as small as 30 x 27”

COMPACT POWER
Generates up to 13 tons of pulling force

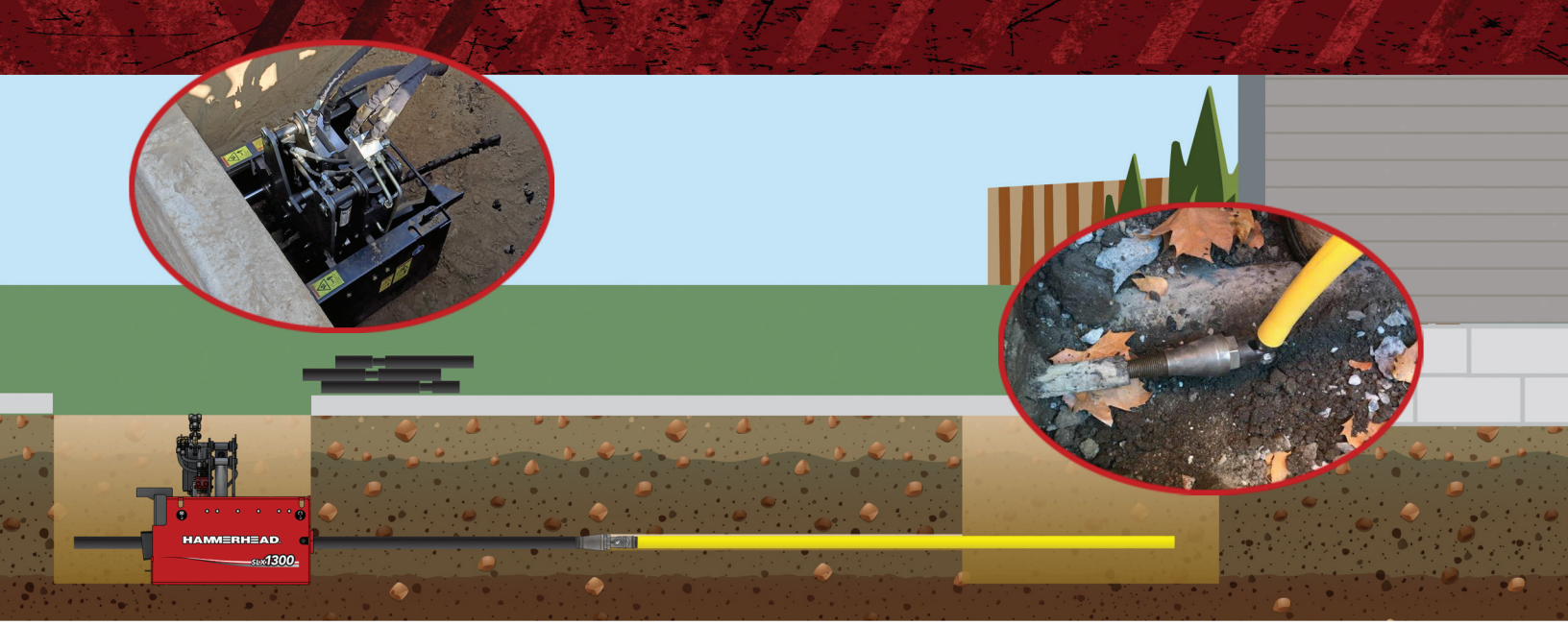


EASY DISPOSAL
On-board pipe shears cut the extracted pipe into manageable segments

SIMPLE OPERATION
Unit is controlled by a hydraulic powerpack outside the machine pit

SAME PATH™ TECHNOLOGY FOR EFFICIENT STEEL SERVICE REPLACEMENT

The innovative SLX1300 pipe extraction system from HammerHead Trenchless® uses Same Path™ Technology to remove 0.50 – 1.25” steel gas services from the ground while simultaneously pulling new pipe into the existing location, greatly reducing risk to surrounding utilities. The pipe extraction process using the SLX1300 requires minimal excavation – a machine pit as small as 30 x 27” in size and a second access point opposite the unit from which the new product pipe is pulled into place. The reduced excavation, simple set up and operation, and the elimination of additional easement for a new service make the pipe extraction process an economical and efficient alternative to other construction methods. The SLX1300 provides up to 13.3 tons of pulling force and can extract up to 100’ of steel pipe. A unique feature of the unit is the onboard pipe shears that are used to cut the extracted material into manageable segments for easy disposal.



PIPE EXTRACTION PROCESS

The SLX1300 extractor unit is positioned in a small pit where the service connects to the main, and it is connected to the hydraulic control station at the surface. Depending on soil conditions, a cable may be fed through the existing steel service from the machine to another access point, typically at the riser, where new pipe is attached to the end of the cable or pipe opposite the machine. Adding the cable nearly doubles the amount of pulling force that can be applied to the pipe/service. In some ground conditions, the process can work without the use of a cable.

The machine's jaws clamp the steel pipe and the cable within it and the machine is then engaged to pull the pipe out of the ground.

In extremely tough ground conditions, use of a pneumatic piercing tool with a specialized adapter can be used to apply additional force to the end of the steel pipe opposite the extractor machine to initiate movement.

The jaws release and the machine cycles forward to clamp and pull another segment. As the steel pipe is extracted, the new pipe is being pulled into place in one seamless motion.

Behind the clamping jaws of the extractor unit is a pipe shear. Once the pipe is pulled, the operator engages the shears snipping off a segment of the extracted pipe which makes it easier to manage the extracted material. Crews simply collect the sticks of steel from the extractor pit and throw them in the back of a truck for disposal/recycling.

EQUIPMENT SPECIFICATIONS

SLX 1300 DOWNHOLE UNIT	
Rig Size L/W/H – in (cm)	29.0/26.3/35.5 (73.7/66.7/90.2)
Weight – lb (kg)*	664 (301)
Max. pulling force – tons (t)	13.3 (12) @ 3,000psi
Max. line speed – fpm (mpm)	7 (2.13) @ 6/gpm (23/lpm)
Replacement range – in (cm)**	0.50 –1.25 (1.3 – 3.2)
Max. rec. pull length – ft (m)	100 (30.5)

PB13 CONTROL STATION	
Engine manufacturer/model	13 HP Honda® Gas
Rig size L/W/H – in (cm)	22.5/26.2/35 (57.1/66.5/88.9)
Weight – lb (kg)	250 (114)
Pump flow – g/min (L/min)	6 (23) @ 3,600 rpm
*Weight without optional accessories.	
**Schedule 40 welded steel	