



The Rammer

The Rammer is the next generation Gulper that goes deeper and is cleaner than the original, yet retains the important qualities of having low capital costs, low running costs, capable of local manufacture, simple to maintain, lightweight and not worth stealing. It a Pompidou Centre version of the Gulper in that connecting rods are on the outside the mechanism allowing the unimpeded passage of sludge out of the pit. The project establishes local manufacturers of Rammers and other emptying equipment-who sell their devices to start-up pit emptying businesses.

The ability of the rammer to pump thicker sludge, go deeper, easy to insert and remove from the pit, easy to clean makes it superior over gulper. The incorporation of a donkey tail drive mechanism is aimed at reducing drudgery and long periods of work by increasing the amount sludge pumped at a given time

The rammer components are made of steel and galvanized iron which is both robust and durable

Item	Price (\$)
Internal rising Bar	15
External rising rods	12
Main support strut	20
Foot stool	8
Fixed main cylinder	25
Plastic outer cylinder	25
Cage and valves	10
washers	3
Bolts 70 mm	5
Nuts 30 mm	4
Donkey tail	20
Labor	44
Total	191

Moving forward: The Peddler

The use of a peddle mechanism on rammer for driving external rods is aimed at making pumping easy as it enters deeper into the pit. The leg muscles are strong enough to provide the power requirement needed to pump thicker sludge for long periods of time



The rammer can be disassembled for tranquil cleaning and transportation.

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The suction hose pipe makes the pit emptying operation cleaner.

