



IMPACT MOLES

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LOW MAINTENANCE AND SERVICE COSTS // EXCEPTIONAL ACCURACY
RELIABILITY // PROVEN EFFECTIVENESS // EASE OF USE AND CONTROL
DURABILITY // FUNCTIONALITY // ECO-FRIENDLY SOLUTIONS

SELECTING THE RIGHT MACHINE FOR MAKING BOREHOLES

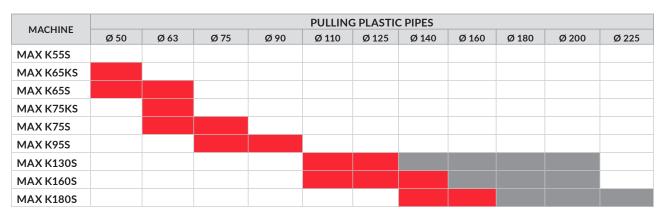
The table below specifies the diameters of boreholes made by particular models. Trenchless moles can be additionally equipped with an expanding tool, also known as a calibrator. It allows making holes with a much larger diameter than the diameter of the machine itself.

MACHINE	MAKING BOREHOLES											
	Ø 55	Ø 65	Ø 75	Ø 95	Ø 135	Ø 130	Ø 160	Ø 180	Ø 195	Ø 219	Ø 244	
MAX K55S												
MAX K65KS												
MAX K65S												
MAX K75KS												
MAX K75S												
MAX K95S												
MAX K130S												
MAX K160S												
MAX K180S												



SELECTING THE RIGHT MACHINE FOR PULLING PLASTIC PIPES

The table below shows typical PE / PVC pipe diameters and specifies the machine for a given diameter. In order to pull a pipe of a given diameter the machine must be equipped with a sleeve for inserting pipes. In some cases it is also necessary to use an expanding tool.



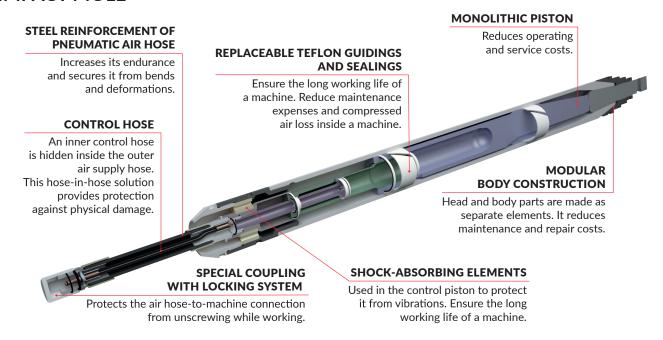


SELECTING THE RIGHT MACHINE FOR RAMMING STEEL PIPES

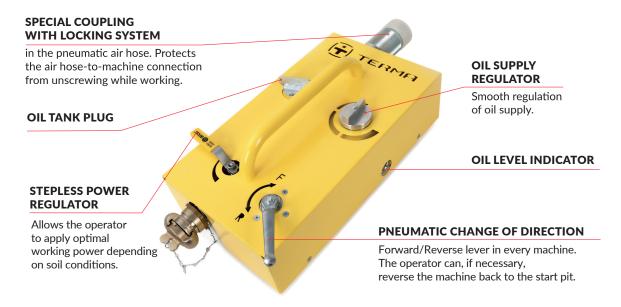
The table below shows capabilities of particular machines in terms of driving in steel pipes. The length of pipes being installed depends on local ground conditions.

MACHINE	RAMMING STEEL PIPES											
	Ø 133	Ø 159	Ø 219	Ø 273	Ø 323	Ø 355	Ø 406	Ø 457	Ø 508	Ø 610	Ø 711	
MAX K55S												
MAX K65KS												
MAX K65S												
MAX K75KS												
MAX K75S												
MAX K95S												
MAX K130S												
MAX K160S												
MAX K180S												
MAX T240												

IMPACT MOLE



CONTROL STATION



SPECIFICATIONS OF IMPACT MOLES

PARAMETR	UNIT	MAX K55S	MAX K65KS	MAX K65S	MAX K75KS	MAX K75S	MAX K95S	MAX K130S	MAX K160S	MAX K180S
diameter	mm	55	65	65	75	75	95	130	160	180
length	mm	1180	937	1366	1146	1501	1641	1815	2110	2256
weight	kg	15	15	22.5	24.5	33	56	115	203	275
air consumption*	m³/min	0.7 (1.1)	0.8 (1.2)	0.8 (1.2)	1.0 (1.2)	1.1 (1.8)	1.7 (2.5)	2.4 (3.6)	3.5 (4.5)	4.5 (5)
air pressure	atm	7	7	7	7	7	7	7	7	7
impact energy	J	40	70	100	80	150	250	430	710	1140
impact frequency	Hz	8	11.5	6	7.6	6	7	6	6	5

^{*}the recommended value in brackets ensures optimal working parameters

TERMA MAX PNEUMATIC MOLES



MAX K55S

- making boreholes (Ø 55 mm)
 pulling plastic pipes (Ø 25 mm 40 mm) using towing carrot



MAX K65KS (short version)

- making boreholes (Ø 65 mm)
 pulling plastic pipes (Ø 50 mm) using pipe pulling tailpiece
 pulling plastic pipes (Ø 25 mm 55 mm) using towing carrot



MAX K65S

- making boreholes (Ø 65 mm)
 pulling plastic pipes (Ø 50 mm and Ø 63 mm) using pipe pulling tailpiece
 pulling plastic pipes (Ø 25 mm 55 mm) using towing carrot



MAX K75KS (short version)

- making boreholes (Ø 75 mm)
 pulling plastic pipes (Ø 63 mm) using pipe pulling tailpiece
 pulling plastic pipes (Ø 25 mm 55 mm) using towing carrot



MAX K75S

- making boreholes (Ø 75 mm)
 pulling plastic pipes (Ø 63 mm and Ø 75 mm) using pipe pulling tailpiece
 pulling plastic pipes (Ø 25 mm 55 mm) using towing carrot



MAX K95S

- making boreholes (Ø 95 mm)
- expanding the hole diameter to 135 mm
 pulling plastic pipes (Ø 75 mm and Ø 90 mm) using pipe pulling tailpiece
 pulling plastic pipes (Ø 25 mm 75 mm) using air hose towing carrot
- ramming steel pipes up to 219 mm in diameter



MAX K130S

- making boreholes (Ø 130 mm)
- expanding the hole diameter to 160 mm, 180 mm, 195 mm, 219 mm
 pulling plastic pipes (Ø 110 mm and Ø 125 mm) using pipe pulling tailpiece
 pulling plastic pipes (Ø 140 mm 200 mm) using expanders
 pulling plastic pipes (Ø 25 mm 75 mm) using air hose towing carrot

- · ramming steel pipes up to 323 mm in diameter



MAX K160S

- making boreholes (Ø 160 mm)
- expanding the hole diameter to 195 mm, 219 mm
- pulling plastic pipes (Ø 110 mm 140 mm) using pipe pulling tailpiece
 pulling plastic pipes (Ø 160 mm 200 mm) using expanders
 pulling plastic pipes (Ø 25 mm 75 mm) using air hose towing carrot
 ramming steel pipes up to 406 mm in diameter



MAX K180S

- making boreholes (Ø 180 mm)
- expanding the hole diameter to 219 mm, 244 mm pulling plastic pipes (Ø 140 mm and Ø 160 mm) using pipe pulling tailpiece
- pulling plastic pipes (Ø 180 mm 225 mm) using expanders
 pulling plastic pipes (Ø 25 mm 75 mm) using air hose towing carrot
 ramming steel pipes up to 406 mm in diameter





MAX T240

Technical parameters:

· outside diameter 240 mm (9½") • length 1639 mm (64.17") · weight 378 kg (838 lb.) • air pressure 6 bar (87.02 psi)

6.0 - 7.5 m³/min (212 - 265 cfm) · air consumption

• impact energy 2000 J (1475 ft. lb.) • impact frequency 1.7 - 2.5 Hz

Intended use: ramming steel pipes with diameter up to 711 mm (28")





ACCESSORIES FOR MAX IMPACT POWER PNEUMATIC TOOLS



FOR AIMING AND POSITIONING

Optical Set, Starting Platform

Allow precise adjustment of the machine in the starting pit.



FOR PULLING PLASTIC PIPES

Tools for pulling plastic pipes

Allow pulling PE, PCV pipes directly behind the machine.

Tools for pulling plastic pipes manually

Allow installation of smaller diameter PE/PVC pipes manually by pulling the hose.

Rope tensioner

Is required for installing larger diameter plastic pipes.



FOR RAMMING STEEL PIPES

Cones

Allow installation of steel pipes by placing them in front of the piercing / ramming machine.

Tools for removing sand and debris from installed steel pipes

Are required for larger diameter steel pipes.



FOR EXPANDING HOLES

Expanding tools

Allow making larger boreholes than the diameter of the piercing machine.



MAX IMPACT POWER

FOR MORE INFORMATION, CONTACT OUR LOCAL PARTNER:

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Terma Sp. z o.o. is a leading Polish manufacturer of trenchless technology machines, pneumatic impact "moles". Trenchless technology machines are indispensable for laying water and gas pipelines, electrical and telecommunications installations and steel pipes for any application. Our products set new standards in the industry. The manufacturing process takes place in a state-of-the-art facility, with the use of most advanced technology. We have been present in the market for many years and by now we have earned reputation of being a leader among trenchless technology suppliers not only in Poland but also among users around the world.



MAX K130S

1st place THE MOLE RODEO

The First International Trenchless Technology Competition // Zawiercie 2012 //



MAX K95S

EXPERT 2012
THE INNOVATIVE DEVICE

Trenchless Technology NO-DIG Poland // Kielce 2012 //



MAX K55

EXPERT 2014
THE INNOVATIVE DEVICE

Trenchless Technology NO-DIG Poland // Kielce 2014 //