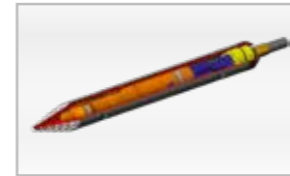


TERRA-HAMMER
Piercing Tool

Swiss made





TERRA-HAMMER

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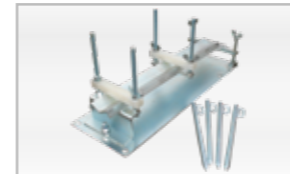


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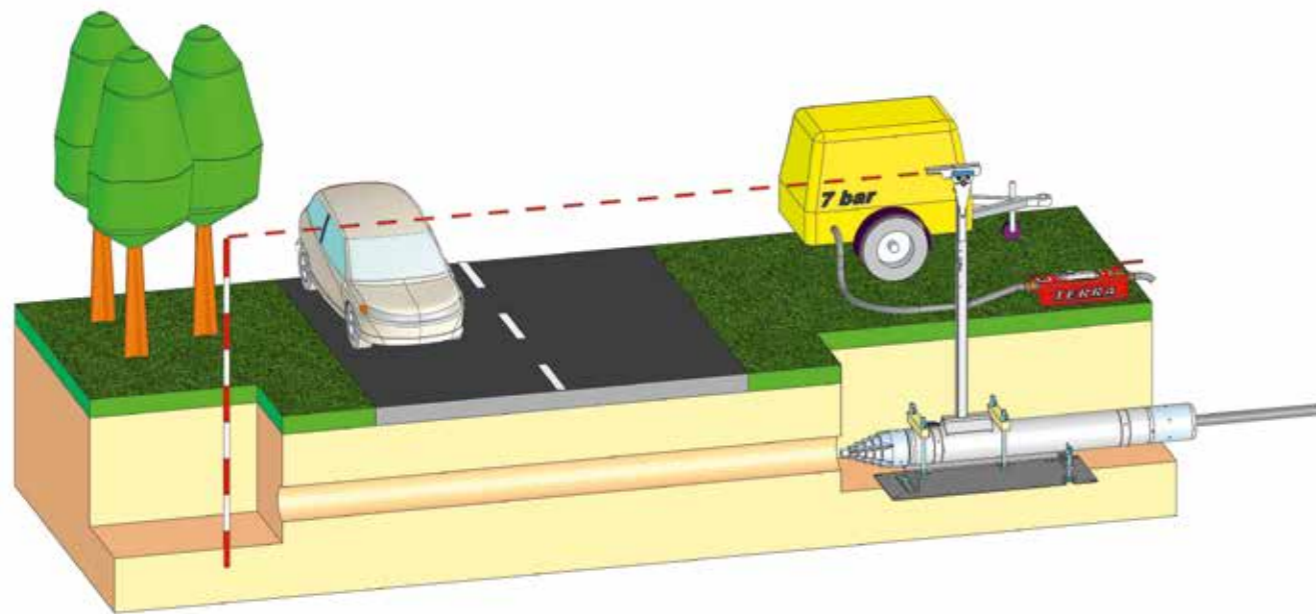
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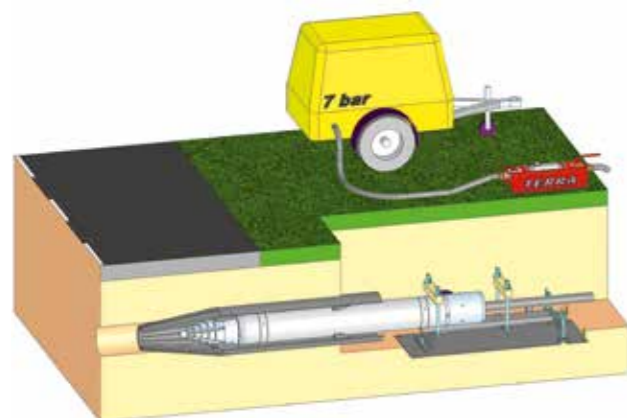
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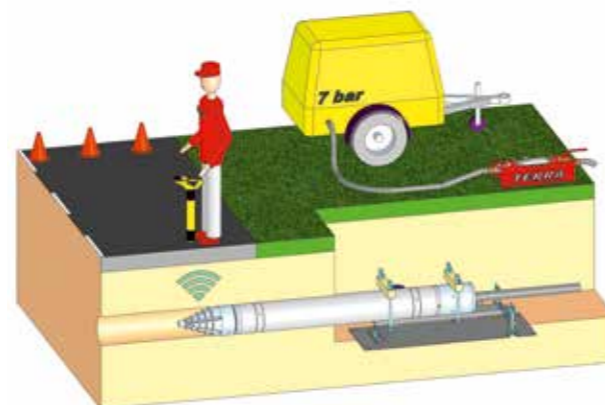
Full listing of available piercing tools



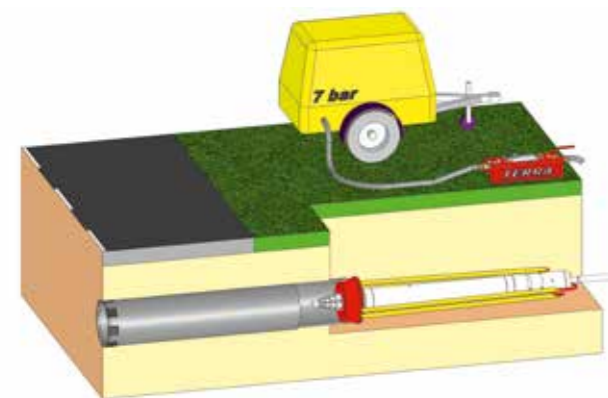
TERRA-HAMMER Mole
Lengths up to 25 m, Ø 210 mm



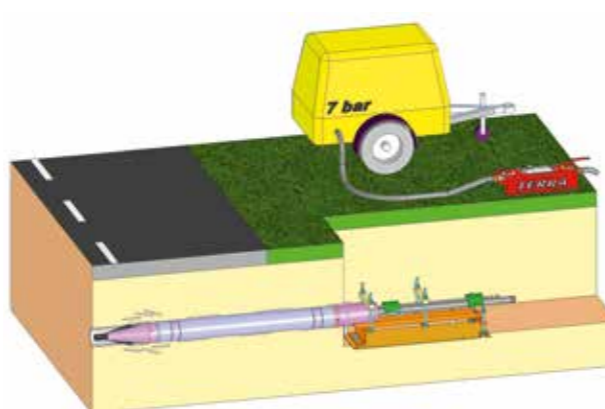
Mole with expander
Expanding is achieved in two steps
Lengths up to 25 m, Ø 300 mm



Traceable Mole
Sonde in the head, depths up to 4 m
Lengths up to 50 m, Ø 55 - 190 mm



Steel pipe ramming using the mole
Horizontal and vertical
without any modification required to the mole



Pipe bursting and cutting using the mole
Interchangeable head adapters
for old cast iron pipes and PE pipes

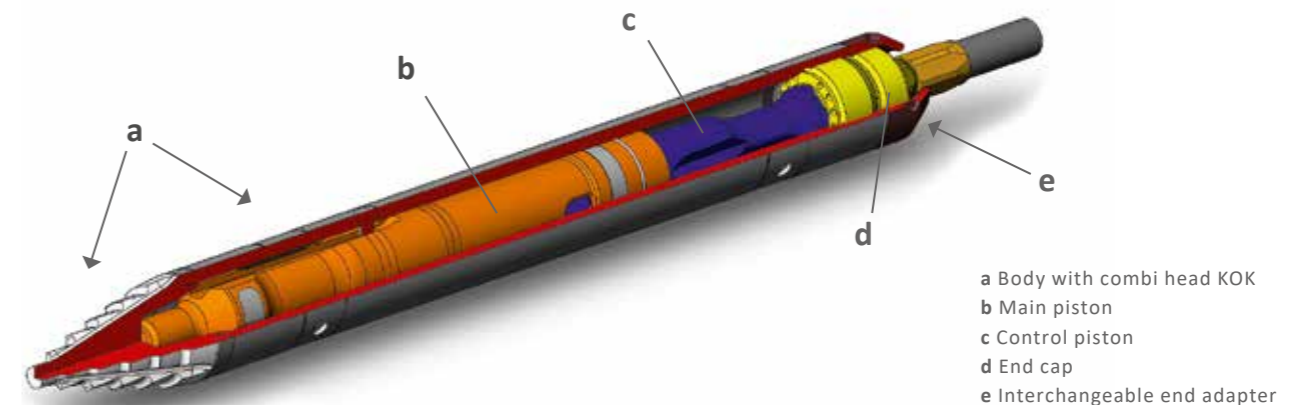
The TERRA Piercing Tools: fast and precise

The TERRA Piercing Tools are fast and precise at the same time. They are easy to operate and have many different applications. The piercing tools work in displaceabl ground. They are ideal for laying pipes trench-less into the ground.

All TERRA Piercing Tools are equipped with a combi head. Longitudinal grooves displace soil sideways and allow piercing even in hard ground conditions, a feature which makes the combi head superior in comparison to any other stepped, conical or "crown" head tool. The cutting and demolition edges destroy all obstructions regardless of whether they hit sideways or head-on. This results in the highest possible accuracy. The star chisel makes the combi head superior in demolishing obstructions. The star chisel penetrates through every breakable obstacle.

TERRA offers a long and a short version. Even traceable piercing tools are available on request.

Optionally expanders and ramming accessories are available. They can be used without modification of the head. TERRA offers 3 years of warranty onto the main piston on each piercing tool. The TERRA piercing tool is a must have for every contractor.



Advantages



The design is very service friendly because it consists of 40 % less parts than other tools.



The TERRA-HAMMER has 25 % heavier main pistons than competitive moles.



With the combi head (KOK) the TERRA-HAMMER operates fast and accurate.



The Ø 105-210 mm models are offered with remote control reverse by simply turning the lever at the oiler (Version F).



The "hollow head design" allows for 25 % heavier main pistons providing high energy and short machine lengths.



TERRA offers a 3 year warranty on their main pistons. The only company in the world to do so.



Versions S, SK and KK: A simple ¼ turn of the air hose will reverse the tool (models Ø 45-135 mm).



Every TERRA piercing tool can ram steel pipes without modification.

TERRA-HAMMER T

Mole with welded earth displacement head



The smartest head design for moles for many years ... and counting.



The T-Models have a welded earth displacement head. The cutting and demolition edges destroy all obstructions regardless of whether they hit sideways or head-on. This results in the highest possible accuracy.

TERRA-HAMMER Mole	Diameter [mm]	Length [m]	Weight [kg]	Frequency [1/min]	Air cons. [m ³ /min]	Pressure [bar]
T 105 F	∅ 105	1.40	60	360	2.4	6-7
T 105 S	∅ 105	1.40	60	360	2.4	6-7
T 135 Twin	∅ 135	1.70	120	350	2.4	6-7
T 135 S	∅ 135	1.70	120	350	2.4	6-7
T 155 F	∅ 155	1.84	170	285	3.8	6-7
T 190 F	∅ 190	1.89	258	275	5	6-7
T 210 F	∅ 210	1.90	317	275	5	6-7

T = Fused head, S = Quick reverse by hose, F = Quick reverse by remote control, Twin = remote control (hose-in-hose solution), K = Not glued, SK = Version S + Version K

TERRA-HAMMER TU

Mole with interchangeable head adapters



Moles with interchangeable head adapters



The TU model is equipped with an interchangeable head adapter. The head is threaded into the housing. There is no welding necessary, which makes the TU model more efficient than any other piercing tool with welded head adapter. This ensures a long lifetime of your piercing tool.

TERRA-HAMMER Mole	Diameter [mm]	Length [m]	Weight [kg]	Frequency [1/min]	Air cons. [m ³ /min]	Pressure [bar]
TU 045 R	∅ 45	1.00	9	475	0.6	6-7
TU 055 R	∅ 55	1.05	13	520	0.9	6-7
TU 068 SK	∅ 68	1.31	28	420	1.3	6-7
TU 080 SK	∅ 80	1.41	39	395	1.8	6-7
TU 090 SK	∅ 90	1.44	51	395	1.8	6-7
TU 105 F	∅ 105	1.40	65	360	2.4	6-7
TU 105 S	∅ 105	1.40	65	360	2.4	6-7
TU 135 Twin	∅ 135	1.70	125	350	2.4	6-7
TU 135 S	∅ 135	1.70	125	350	2.4	6-7
TU 155 F	∅ 155	1.85	172	285	3.8	6-7
TU 190 F	∅ 190	1.90	260	275	5	6-7
TU 210 F	∅ 210	1.91	319	275	5	6-7

TU = Interchangeable head adapter, S = Quick reverse by hose, F = Quick reverse by remote control, Twin = remote control (hose-in-hose solution), K = Not glued, SK = Version S + Version K

Combi Head (KOK)

Artikel Nr.	Artikelname	Modelle [mm]
2045.1121.00	KOK-adapter 045	∅ 45
2055.1121.00	KOK-adapter 055	∅ 55
2065.1121.05	KOK-adapter 068	∅ 68
2080.1121.03	KOK-adapter 080	∅ 80
2090.1121.00	KOK-adapter 090	∅ 90
2105.1121.02	KOK-adapter 105	∅ 105
2135.1121.06	KOK-adapter 135	∅ 135
5155.1121.00	KOK-adapter 155	∅ 155
5190.1121.00	KOK-adapter 190	∅ 190/210

KOK = Combi Head



Interchangeable combi head



TERRA-HAMMER Mini-Mole

MINI Moles with compact design



MINI Moles - short, compact and powerful



With lengths of only 880 mm they can be used in very small pits. Ideal for bores up to 10 m.

TERRA-HAMMER Mole	Diameter [mm]	Length [m]	Weight [kg]	Frequency [1/min]	Air cons. [m ³ /min]	Pressure [bar]
TU 045 R	∅ 45	1.00	9	475	0.6	6-7
TU 055 R	∅ 55	0.90	11	520	0.9	6-7
TU 068mini SK	∅ 68	0.93	20	480	1.1	6-7
TU 080mini SK	∅ 80	0.88	24	550	1.8	6-7
TU 090mini SK	∅ 90	0.88	38	550	1.8	6-7
T 105mini S	∅ 105	1.08	44	540	2.4	6-7

T = Fused head, S = Quick reverse by hose, K = Not glued, SK = Version S + Version K

«Ideal for manholes and confined spaces!»



Cable Clamp and Pulling Cable

Pulling Accessories

Simultaneous Pipe Pulling

Simultaneous pipe pulling is done with our cable clamps and pulling cable.

Part Number	Description	D [mm]	Models [mm]
0000.1747.03	Cable clamp, small tensioner		∅ 55 - 90
0000.1707.02	Cable clamp, large tensioner		∅ 105 - 210
0000.1707.04	Auxiliary clamp for 0000.1707.02*		∅ 105 - 210
0000.1734.00	Centering adapter 075	75	∅ 105
0000.1733.00	Centering adapter 095	95	∅ 135 - 155
0000.1737.00	Centering adapter 120	120	∅ 155 - 190
0000.1738.00	Centering adapter 150	150	∅ 155 - 210

D = smallest inner diameter of the pipe *for „endless“ tensioning

Pulling Cable

Part Number	Description	Models [mm]
0000.1725.02	Pulling cable, long (20 m), with APAG**	∅ 55-90
0000.1724.00	Pulling cable, long (25 m), with eyelets	∅ 105-210
2055.1930.00	Pulling cable, short, M10 (055)	∅ 55
2080.1930.12	Pulling cable, short, M10 (080)	∅ 68/80/90
2105.1930.01	Pulling cable, short, eyelets (105)	∅ 80/105
2130.1930.01	Pulling cable, short, eyelets (135)	∅ 135/155
2130.1930.02	Pulling cable, short, M16 (135 F)	∅ 135*
1190.1930.00	Pulling cable, short, eyelets (190)	∅ 190/210
2125.1729.00	shackle, dimension 10	∅ 105-210

*for stepped end cone E-135-94-75 **APAG = with threaded end

Pull Bow

The TERRA-HAMMER Piercing Tool is equipped with a long bore in the head. You can install a pull bow for direct pipe pulling.

Artikel Nr.	Artikelname	Modelle [mm]
2045.1132.00	Pull bow 045	∅ 45
2055.1132.00	Pull bow 055	∅ 55
2068.1132.00	Pull bow 068	∅ 68
2080.1132.00	Pull bow 080	∅ 80/90
2080.1132.01	Pulling adapter 080	∅ 80
2090.1132.01	Pulling adapter 090	∅ 90
2105.1129.00	Pull bow 105	∅ 105
2135.1133.00	Pull bow 135	∅ 135
5155.1133.00	Pull bow 155	∅ 155
5190.1133.00	Pull bow 190	∅ 190/210

Pulling carrot

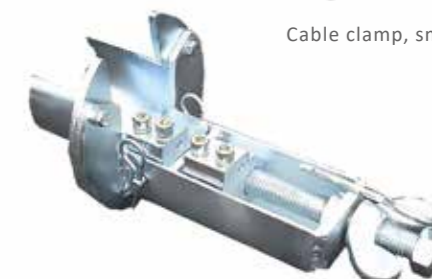
The PE pipe can be directly connected to the pulling carrot for immediate pipe pulling.

Artikel Nr.	Artikelname	DA [mm]
2065.1903.25	Pulling carrot 25-50/JIC	32-63
2080.1903.25	Pulling carrot 32-63/pulling eye	32-63

DA = Aussendurchmesser PE-Rohr



Cable clamp, small



Cable clamp, large



long pulling cable with eyelets



Pull bow



Pulling carrot

Aiming Staff and Launching Cradle

Accurate bore shots are critical to the bottom line, that's why TERRA offers aiming and launching equipment that ensures the piercing tool is aligned before the bore begins.

Safety aspect: The mole must not be held in the hands when beginning the bore (shock hazard). Inaccurate bores may hit gas and electric lines.

TERRA Oiler and Special Oil

The oiler with regulation and impulse valves guarantees a smooth starting procedure into the ground. The antifreeze operates down to -42 °C and ensures a long lifetime of your TERRA mole.

Safety aspect: The impulse valve stops the main piston immediately in the event of an emergency.

Aiming Staff

For the exact alignment of your mole.
For accuracy of 5 cm per 25 m¹⁾.

Part Number	Description	Models [mm]
0000.1700.00	Aiming staff, small	Ø 45 - 80
0000.1701.00	Aiming staff, large	Ø 68 - 210
0000.1702.00	Telescope	Ø 45 - 210

¹⁾ depending on ground conditions

Launching Cradle

The accurate alignment is done with launching cradles.

Part Number	Description	Models [mm]
3045.1760.00	Launching cradle, small	Ø 45 - 68
2105.1760.00	Launching cradle, medium	Ø 80 - 135
5190.1760.00	Launching cradle, large	Ø 155 - 210
0000.1736.00	Tirfor cable winch 1.25 to ²⁾	Ø 155 - 210

²⁾ For continuous pipe and mole pushing

TERRA Oiler and Special Oil

Part Number	Description	Models [mm]
0000.1790.00	Oiler, ECO	Ø 45 - 210
0000.1792.00	Oiler, Version S	Ø 45 - 135
0000.1791.00	Oiler, Version F	Ø 105 - 210
5135.1741.00	Ölereinheit, Version Twin	Ø 135
0000.1793.00	Option handle for lubricator Version S/F/Twin	
0000.1788.49	Option protection frame Version S/F/Twin	
0000.1749.00	TERRA oiler antifreeze, 5 litre	
0000.1749.10	TERRA oiler antifreeze, 25 litre	
0000.1749.15	TERRA oiler antifreeze, 50 litre	
0000.1749.20	TERRA oiler antifreeze, 200 litre barrel	
1540.1749.11	Barrel tap for 200 ltr-barrel	
0000.1661.00	TERRA Cleaner Bio 500, 6x 0.5 litre	

Version S: Quick reverse by 1/4 turn of the air hose

Version F: Quick reverse by remote control

Version Twin: Reverse by remote control (hose-in-hose solution)

Non-Conductive Hoses

The non-conductive hoses are assembled between the mole and air hose.

Part Number	Description	Models [mm]
2055.1700.02	Non-conductive hose (JIC)	Ø 45 - 55
2080.1702.00	Non-conductive hose adapter	Ø 55 - 90
2080.1700.00	Non-conductive hose DN 19 (L = 1 m)	Ø 68 - 90
2135.1700.00	Non-conductive hose DN 25 (L = 1 m)	Ø 105 - 135
2080.1701.00	Non-conductive rope Ø 6 mm (L = 2 m)	Ø 80 - 210



Telescope

Aiming Staff



Launching Cradle



Oiler Version S



Oiler Version Twin



Non-conductive hose and rope



Locating Accessories

With the Vivax vLoc Pro you can trace your TERRA-HAMMER mole via a sonde in the head. The interchangeable head can easily be changed on the jobsite. The electronic sonde is protected by shock absorbers.

Traceable Piercing Tools

Traceale Accessories

Traceable Head Adapters (KOK-LD)

Need to locate your piercing tool?

No problem! With the interchangeable head adapter you can convert your current mole into a traceable mole on the jobsite. Keep track of the bore path!

Part Number	Description	Models [mm]
2055.1121.07	Traceable KOK-LD adapter 055	Ø 55
2068.1121.02	Traceable KOK-LD adapter 068	Ø 68
2080.1123.00	Traceable KOK-LD adapter 080	Ø 80/90
2105.1121.06	Traceable KOK-LD adapter 105	Ø 105
2135.1121.04	Traceable KOK-LD adapter 135	Ø 135
5155.1121.05	Traceable KOK-LD adapter 155	Ø 155
5190.1121.05	Traceable KOK-LD adapter 190	Ø 190/210

KOK-LD = combi head long distance



For models Ø 55-80:
Traceable KOK-LD adapter
with interior battery



For models Ø 105-190:
Traceable KOK-LD adapter
with side battery



Sonde D 18 33 kHz



Vivax vLoc Pro2



Generator 5 Watt



Generator 10 Watt

Locating Equipment

Available accessories for your traceable mole.

Part Number	Description	Models [mm]
1961.7301.00	Locator (receiver) Vivax vLoc Pro2 to locate piercing tools	
1961.7314.00	Locator (receiver) Vivax vLoc3-cam to locate piercing tools and cables	
1961.7315.00	Bag for Vivax vLoc3-cam receiver	
1961.7303.00	Generator Vivax vLocPro2 5 Watt	
1961.7304.00	Generator Vivax vLocPro2 10 Watt	
1900.7198.05	Transmitter clamp 50 mm	
1900.7198.10	Transmitter clamp 100 mm	
1900.7198.15	Transmitter clamp 125 mm	
2068.1122.00	Sonde D18 (33 kHz)	Ø 55 - 210
2068.1123.00	Battery 3.0 V, CR 1/3N	Ø 55 - 80
2135.1122.07	Battery exchange kit KOK-LD	Ø 105 - 210

KOK-LD = combi head long distance (traceable)



Vivax vLoc Pro2

Interchangeable End Adapters - End Sleeves

Expanding Accessories

End Sleeves - Type A

End Sleeves are ideal end adapters for simultaneous pipe pulling. All end adapters can easily be changed on the jobsite.

Part Number	Description	OD [mm]	DI [mm]	Models [mm]
2055.1406.00	End Sleeve A-55-51	55	51	Ø 55
2065.1406.04	End Sleeve A-68-64	68	64	Ø 68
2080.1406.04	End Sleeve A-80-70	80	70	Ø 80
2090.1406.00	End Sleeve A-90-77	90	77	Ø 90
2105.1406.01	End Sleeve A-105-93	105	93	Ø 105
5105.1406.01	Adapter ring for end sleeve A-105-93			
2135.1406.01	End Sleeve A-135-114	135	114	Ø 135 S/F
2135.1406.08	End Sleeve A-135-114	135	114	Ø 135 Twin
5155.1406.02	End Sleeve A-155-142	155	142	Ø 155
5190.1406.00	End Sleeve A-190-172	190	172	Ø 190/210

OD = Outer diameter End Sleeve = max. diameter of the bore
ID = Inner diameter End Sleeve = max. outer diameter of the pipe



End Sleeve Type A

Oversized End Sleeves - Type A

Oversized End Sleeves are to allow pipes in diameters larger than that of the mole to be installed. They can easily be changed on the jobsite.

Part Number	Description	OD [mm]	DI [mm]	Models [mm]
2065.1406.03	End Sleeve A-75-65	75	65	Ø 68
2080.1406.06	End Sleeve A-90-77	90	77	Ø 80
2080.1406.07	End Sleeve A-95-87	95	87	Ø 80
2090.1406.01	End Sleeve A-96-87	96	87	Ø 90
2105.1406.03	End Sleeve A-110-94	110	94	Ø 105
2105.1706.17	End Sleeve A-130-114	130	114	Ø 105
2135.1406.03	End Sleeve A-145-127	145	127	Ø 135 S/F
2135.1406.11	End Sleeve A-145-127	145	127	Ø 135 Twin
2135.1406.07	End Sleeve A-160-142	160	142	Ø 135 S/F
2135.1406.09	End Sleeve A-160-142	160	142	Ø 135 Twin
5155.1406.03	End Sleeve A-180-166	180	166	Ø 155

OD = Outer diameter End Sleeve = max. diameter of the bore
ID = Inner diameter End Sleeve = max. outer diameter of the pipe



Oversized End Sleeve Type A



To change the end adapter a heavy ring spanner and a heavy C-spanner is needed. The end adapters can easily be changed on the jobsite.

Interchangeable End Adapters - End Cones

Expanding Accessories

End Cone - Type B

End Cones are the ideal end adapters for safe reverse. Due to the conical shape no dirt can enter into the mole.

Part Number	Description	OD [mm]	DI [mm]	Models [mm]
2045.1404.02	End Cone B 33	45	30	Ø 45
2055.1404.03	End Cone B-36	55	36	Ø 55
2068.1404.00	End Cone B-39	68	39	Ø 68 mini
2065.1404.03	End Cone B-75-39	75*	39	Ø 68
2080.1404.09	End Cone B-45	80	45	Ø 80 mini
2090.1404.02	End Cone B-45	90	45	Ø 90 mini
2105.1402.00	End Cone B-53	105	53	Ø 105 mini
2135.1404.02	End Cone B-76	135	76	Ø 135 Twin
5190.1402.00	End Cone B-127	190	127	Ø 190/210

OD = Outer diameter End Cone = max. diameter of the bore
ID = Inner diameter End Cone
* = Over-sized End Cone Typ B



End Cone Type B



Oversized End Cone Type B

Stepped End Cone, Single Step - Type E

End Cones are available in single or multi step versions. The pipe can simply be slid over the stepped End Cone. The steps have a length of around 50 mm.

Part Number	Description	DA [mm]	DA-1 [mm]	DI [mm]	Models [mm]
2055.1404.00	End Cone E-55-44-36	55	44	36	Ø 55
2065.1404.01	End Cone E-47-39	68	47	39	Ø 68
2080.1404.03	End Cone E-50-42	80	50	42	Ø 80
2080.1404.07	End Cone E-90-50-42	90*	50	42	Ø 80
2090.1404.00	End Cone E-90-50-42	90	50	42	Ø 90
2090.1404.01	End Cone E-96-50-42	96*	50	42	Ø 90
2105.1404.01	End Cone E-68-58	105	68	58	Ø 105
2105.1404.03	End Cone E-110-68-58	110*	68	58	Ø 105
2135.1404.00	End Cone E-80-70	135	80	70	Ø 135 S
2135.1404.01	End Cone E-80-70	135	80	70	Ø 135 F
5155.1404.00	End Cone E-100-88	155	100	88	Ø 155

OD = Outer diameter End Cone = max. diameter of the bore
OD-1 = Outer diameter End Cone first step = Inner diameter of the pipe
ID = Inner diameter End Cone
* = Oversized End Cone Typ E



Stepped End Cone Type E with single step

Stepped End Cone, Multi Steps - Type E

Several steps combined in one cone.

Part Number	Description	OD [mm]	OD-2 [mm]	OD-1 [mm]	DI [mm]	Models [mm]
2135.1404.03	End Cone E-135-94-75	135	94	75	65	Ø 135

OD = Outer diameter End Cone = max. diameter of the bore
OD-1 = Outer diameter End Cone, first step = Inner diameter of the pipe
OD-2 = Outer diameter End Cone, second step = Inner diameter of the pipe
ID = Inner diameter End Cone



Stepped End Cone Type E with multi steps

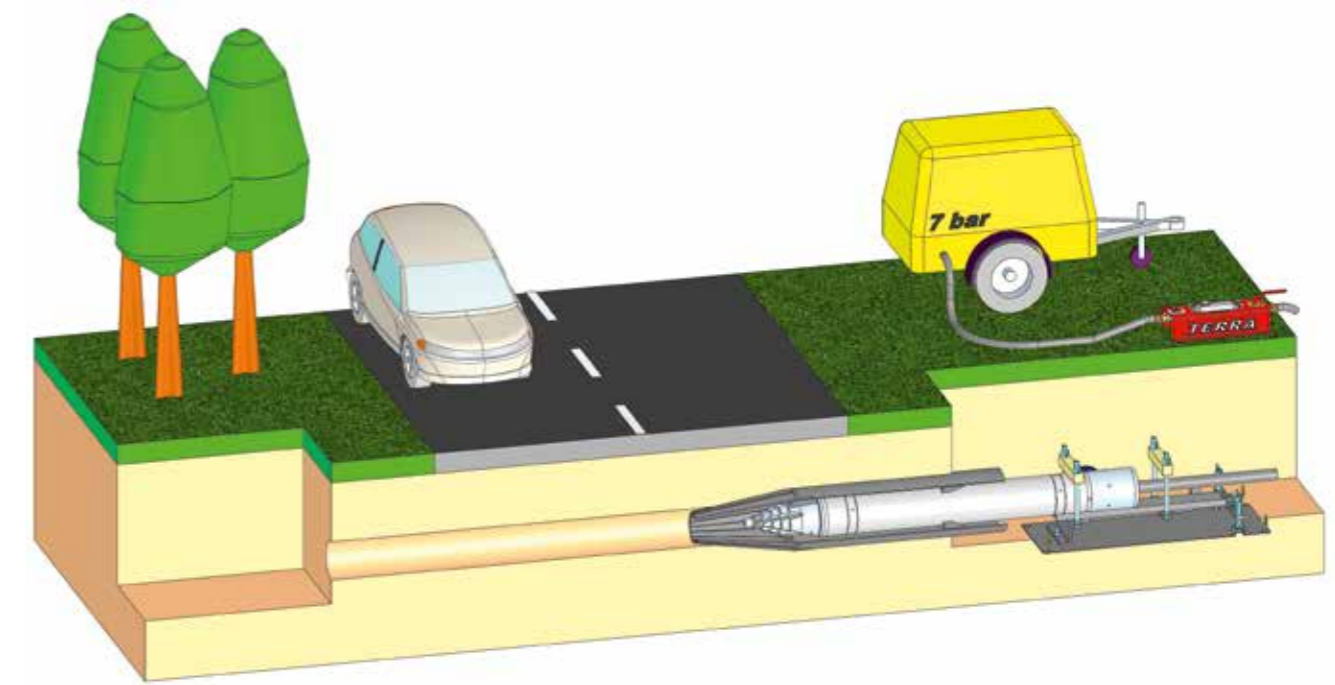


Expanders

Pilot bores are expanded to a larger diameter using the same TERRA-HAMMER in a second operation.

Part Number	Description	Models [mm]	Expand-Ø [mm]
3065.1801.00	Expander 068 /085	Ø 68	Ø 85
2080.1803.00	Expander 080 /102	Ø 80	Ø 102
2080.1805.00	Expander 080 /121	Ø 80	Ø 121
2080.1808.00	Expander 080 /133	Ø 80	Ø 133
2090.1805.00	Expander 090 /121	Ø 90	Ø 121
2090.1808.01	Expander 090 /133	Ø 90	Ø 133
2090.1810.00	Expander 090 /152	Ø 90	Ø 152
2090.1815.00	Expander 090 /169	Ø 90	Ø 169
2105.1808.00	Expander 105 /133	Ø 105	Ø 133
2105.1810.00	Expander 105 /152	Ø 105	Ø 152
2105.1815.00	Expander 105 /168	Ø 105	Ø 168
2105.1820.00	Expander 105 /194	Ø 105	Ø 194
2135.1810.00	Expander 135 /152	Ø 135	Ø 152
2135.1815.00	Expander 135 /168	Ø 135	Ø 168
2135.1820.00	Expander 135 /194	Ø 135	Ø 194
2135.1825.00	Expander 135 /203	Ø 135	Ø 203
2135.1830.00	Expander 135 /245	Ø 135	Ø 245
2135.1835.00	Expander 135 /273	Ø 135	Ø 273
5155.1820.00	Expander 155 /194	Ø 155	Ø 194
5155.1825.00	Expander 155 /203	Ø 155	Ø 203
5155.1830.00	Expander 155 /245	Ø 155	Ø 245
5190.1830.00	Expander 190 /245	Ø 190	Ø 245
5190.1832.00	Expander 190 /300	Ø 190	Ø 300

The expanders only work in displaceable ground conditions.





Ram Rings for Steel Pipe

Ramming Accessories

Ram Rings



Each mole can ram steel pipe without any modification to the head.
With a reciprocating head this is not possible.

Pease tell us:

- Outer diameter, thickness and inner diameter of the steel pipe
- Model and serial number of your TERRA mole

We will offer you the most suitable ram ring.

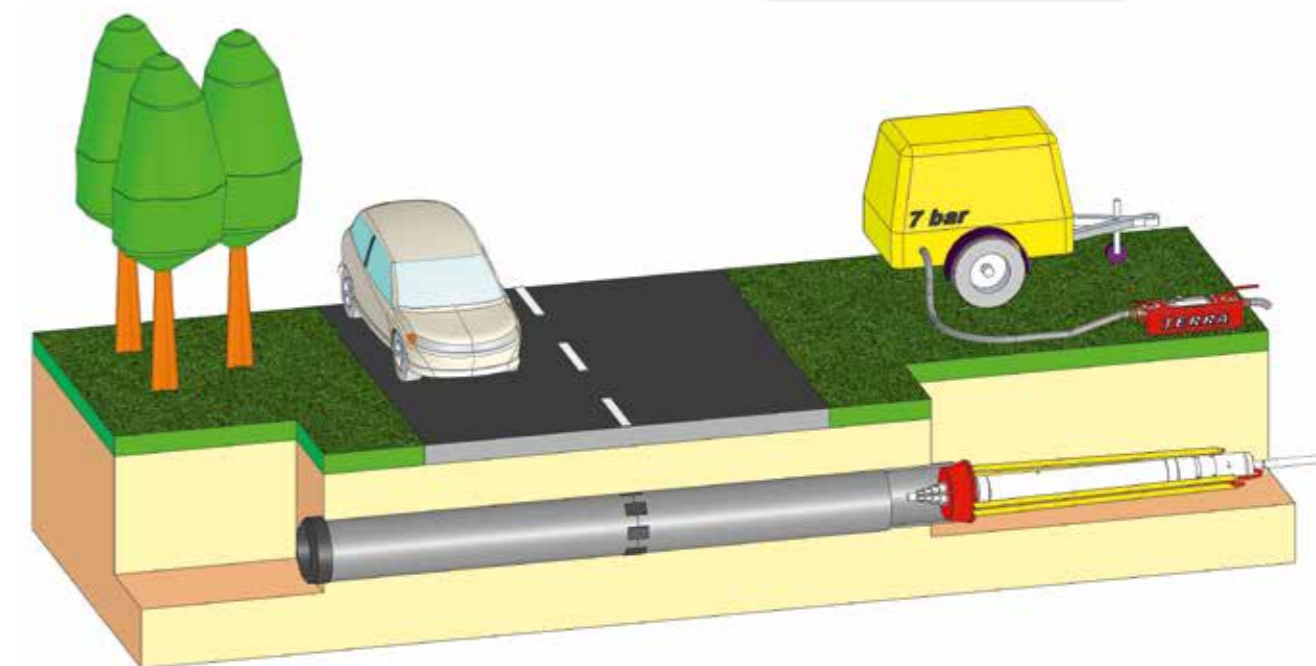
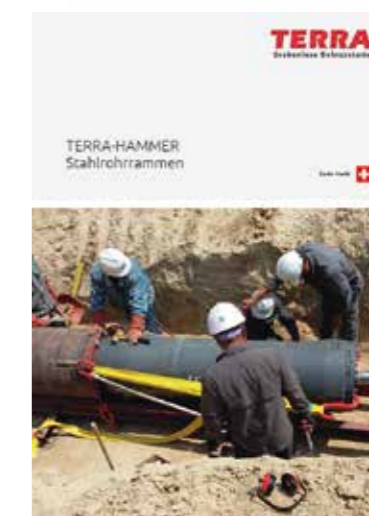


Ram Rings

TERRA-HAMMER Steel Pipe Ramming

View our TERRA-HAMMER Steel Pipe Ramming catalog.

TERRA offers rams up to \varnothing 565 mm, for steel pipes up to \varnothing 3 m.



Air Supply Hoses

Hose Connecting Accessories

Air Supply Hose

The air supply hose ensures safe air flow to your mole. Hose lengths are available in 15, 20 and 25 m. Extensions for air hoses are available on request.



Version S

The reverse function of the \varnothing 45 - 135 mm models is activated by a 1/4 turn of the air hose. Because of its double reinforced hose the rotation force is transferred through the whole length of the hose.



Version F + Twin

The quick reverse function of the \varnothing 105 - 210 mm models is activated by a third lever located on the oiler.



Air supply hose double reinforced

Part Number	Description	Models [mm]
Air supply hose ID 13, double reinforced, male + female JIC coupling + Mody coupling		\varnothing 45, Version S
3045.1710.00	15 m	
3045.1711.00	20 m	
3045.1712.00	25 m	
Air supply hose ID 16, double reinforced, male + female JIC coupling + Mody coupling		\varnothing 55, Version S
2055.1710.10	15 m	
2055.1711.12	20 m	
2055.1712.00	25 m	
Air supply hose ID 19, double reinforced, male + female JIC coupling + Mody coupling		\varnothing 68/80, Version S
2080.1710.10	15 m	
2080.1711.10	20 m	
2080.1712.10	25 m	
Air supply hose ID 25, double reinforced, male JIC coupling + Mody coupling		\varnothing 105/135, Version S
2135.1710.00	15 m	
2135.1711.00	20 m	
2135.1712.00	25 m	
Air supply hose ID 25 + ID 5, single reinforced, male JIC coupling + Mody coupling hose DN 5		\varnothing 105/135, Version F
5135.1710.00	15 m	
5135.1711.01	20 m	
5135.1712.01	25 m	
Air supply hose DN 32, single reinforced, male + female JIC coupling, with inner control hose DN 6		\varnothing 135, Version Twin
5135.1750.00	10 m	
5135.1751.00	20 m	
5135.1752.00	25 m	
Air supply hose ID 38 + ID 5, flexible, with inner control hose DN 5		\varnothing 155/190/210, Version F
5190.1710.00	15 m	
5190.1711.00	20 m	
5190.1712.00	25 m	

Fittings and Hose Covers

Hose Connecting Accessories

Quick Couplers

Optional quick couplers are available for the TERRA moles \varnothing 45 - 90 mm (1.77" - 3,54"). These quick couplers are equipped with JIC threads at both ends. This allows quick assembly of the short whip hose to the long air hose.

Quick couplers enable fast dis-connection of the long air hose in seconds without the need for extra tools.

Quick Couplers - Female for Mole

Typically the female coupler is attached to the mole. We offer the following female couplers:

Part Number	Description	Models [mm]
2055.1908.00	Quick coupling 055 female, with JIC pin	\varnothing 45-55
2080.1911.01	Quick coupling 080 female, with JIC pin	\varnothing 68-90



Quick coupler female and male



Quick coupler female

Quick Couplers - Male for Hose

Usually the male coupler is attached to the long air hose. We offer the following male couplers:

Part Number	Description	Models [mm]
2055.1910.00	Quick coupling 055 male, with JIC box	\varnothing 45-55
2080.1912.01	Quick coupling 080 male, with JIC box	\varnothing 68-90



Quick coupler male

Claw Couplers

Die Modykupplung ermöglicht ein schnelles und sicheres verbinden des Druckluft-Spezialschlauchs mit der TERRA-Erdrakete. Durch die Abdichtung wird verhindert, dass Luft aus der Kupplung austritt.

Part Number	Description	Models [mm]
2080.1940.10	Claw couplers with male JIC conversion	\varnothing 68 - 90
2135.1940.10	Claw couplers with male JIC conversion	\varnothing 105 - 135



Claw coupler

Service Tools

Wear parts kit and tool box

You want to service your mole yourself and need the necessary service parts? No problem!

For each TERRA mole we offer:

- Heavy Duty C-spanner
- Heavy Duty ring spanner
- Service parts kit
- Tool kit

Tell us the model and the serial number of your TERRA mole.

We can then immediately despatch your service parts.



«The TERRA-HAMMER mole is a must have for every contractor ... »

More TERRA Products

The World of Trenchless Technology

HDD Drills

TERRA-JET



HDD Pit Launched Machines

TERRA MINI-JET
TERRA-PIT



Thrust Boring Machines

TERRA-JACK



Cable and Rod Bursters

TERRA-EXTRACTOR
TERRA-HYDROCRACK



Steel Pipe Ramming Equipment

TERRA-HAMMER Series TR



Full listing of available percing tools

Technical Data

TERRA-HAMMER Piercing Tools	Diameter [mm]	Length [m]	Weight [kg]	Frequency [1/min]	Air cons. [m ³ /min]	Pressure [bar]
TU 045 R	Ø 45	1.00	9	475	0.6	6-7
TU 055 R	Ø 55	0.97	13	520	0.9	6-7
TU 055 R (locatable)	Ø 55	1.16	16	520	0.9	6-7
TU 068 SK	Ø 68	1.31	28	420	1.3	6-7
TU 068 SK (locatable)	Ø 68	1.51	33	420	1.3	6-7
TU 068mini SK	Ø 68	0.93	20	480	1.1	6-7
TU 080 SK	Ø 80	1.41	39	395	1.8	6-7
TU 080 SK (locatable)	Ø 80	1.51	42	395	1.8	6-7
T 080mini SK	Ø 80	0.88	24	550	1.8	6-7
TU 090 SK	Ø 90	1.44	51	395	1.8	6-7
TU 090 SK (locatable)	Ø 90	1.51	33	420	1.3	6-7
T 090mini SK	Ø 90	0.88	38	550	1.8	6-7
T 105 F	Ø 105	1.40	60	360	2.4	6-7
TU 105 F	Ø 105	1.40	65	360	2.4	6-7
TU 105 F (locatable)	Ø 105	1.50	71	360	2.4	6-7
T 105 S	Ø 105	1.40	60	360	2.4	6-7
TU 105 S	Ø 105	1.40	65	360	2.4	6-7
TU 105 S (locatable)	Ø 105	1.50	71	360	2.4	6-7
T 105mini S	Ø 105	1.08	44	540	2.4	6-7
T 135 Twin	Ø 135	1.70	120	350	2.4	6-7
TU 135 Twin	Ø 135	1.70	125	350	2.4	6-7
TU 135 F (locatable)	Ø 135	1.80	138	350	2.4	6-7
T 135 S	Ø 135	1.70	120	350	2.4	6-7
TU 135 S	Ø 135	1.70	125	350	2.4	6-7
TU 135 S (locatable)	Ø 135	1.80	138	350	2.4	6-7
T 155 F	Ø 155	1.84	170	285	3.8	6-7
TU 155 F	Ø 155	1.85	172	285	3.8	6-7
TU 155 F (locatable)	Ø 155	1.94	182	285	3.8	6-7
T 190 F	Ø 190	1.89	258	275	5	6-7
TU 190 F	Ø 190	1.90	260	275	5	6-7
TU 190 F (locatable)	Ø 190	1.97	284	275	5	6-7
T 210 F	Ø 210	1.90	317	275	5	6-7
TU 210 F	Ø 210	1.91	319	275	5	6-7
TU 210 F (locatable)	Ø 210	1.98	343	275	5	6-7

Technical specifications can be changed without previous notice.

The mole has to be at least 10 % bigger than the biggest outer diameter of the pipe.

T = TERRA-HAMMER with fused earth displacement head

TU = TERRA-HAMMER with interchangeable head adapters

KOK-LD = TERRA-HAMMER with traceable KOK-LD adapter

S = TERRA-HAMMER Version S, with quick reverse by 1/4 turn of the air hose

F = TERRA-HAMMER Version F, with quick reverse by remote control

Twin: Reverse by remote control (hose-in-hose solution)

K = TERRA-HAMMER Version K, not glued, can be serviced without heating

SK = TERRA-HAMMER Version S + Version K

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