

**OPERATING-INSTRUCTION  
TURBO-DIGGER**

**TD 80 / 110  
TD 80 / 110 S  
TD 80 / 110 SI  
TDE / TD SIII /**

**BSB**

**machines and vehicles**

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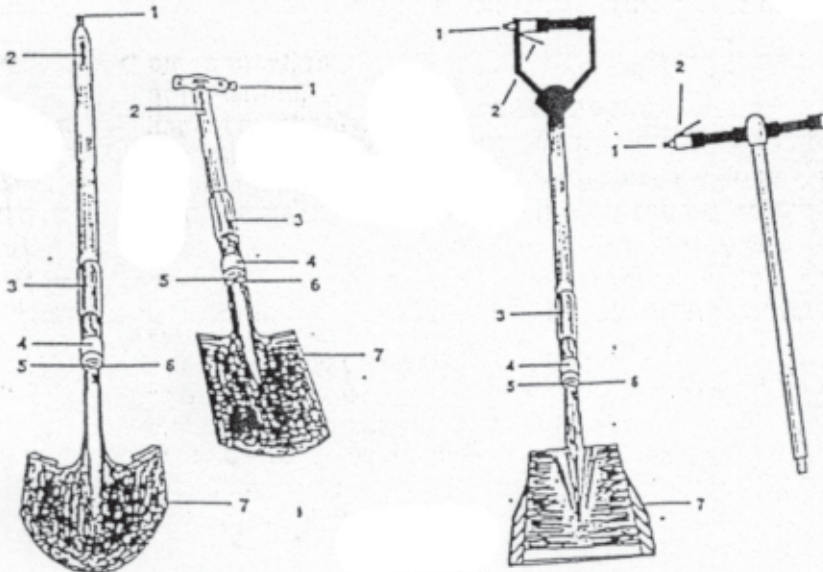
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- 1 air connection
- 2 grip (handle)
- 3 impact mechanism
- 4 clamping collar (sleeve)
- 5 mounting mandrel
- 6 seat
- 7 tool

**Technical data:**

air consume 300 L/min

air pressure 7-8 bar

weight depending on the tool 2-6 kg

SPL 91,5 – 93,5 – 99,5 decibel

depending on the tool

acceleration 15 m/s<sup>2</sup>

**Starting up of Turbo-Digger:**

- 1.) Fit together the air connection (1) with the air hose of the compressor. Lock the snap ring of the mody-coupling.
- 2.) Fit together the tool (7) and seat (6): Retract the clamping collar (4), insert the mounting mandrel (5) of the tool (7), loose the clamping collar (4) to fix the tool (7).
- 3.) Touch down the grip to start the impact mechanism (3).
- 4.) Loose the grip (2) to stop the impact mechanism (3)

**Don't start the impact mechanism without resistance of the tool !!**

**Don't drive in the tool up to the mounting mandrel !!**

**Controll about ducts and pipes before drive in the tool !!**

**Controll the tool about right mounting. Do not make strikes (empty) without resistance.**

- 5.) Change the tool while retract the clamping collar (4) and remove the tool (7).

**Servicing:** Before operating, fill in a little ecologically desivable creep oil into the air connection (4).

**Support:** The Turbo-Digger has to be supported with the impact mechanism down.

**Attention:** Use a hearing protection !  
Use safety shoes !  
Not to use against energie source !  
Not to use against human or animals !

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## Operating-method

### Turbo Digger TD / BS / BTS / TDL

**Use only uninjured and tested high pressure hoses (min. 20 bar) and tested Safety connecting parts.  
Use only tested air compressors.**

### Removing of all movable surfaces like plaster, ceramic, carpet, lime floor, bitumen mortar, bitumen, bitumen felt, bark, green, etc.:

Place the tool of the TD on the material you wish to remove.  
Start the striking mechanism while pushing the grip 2.  
Press the tool continuously forward against the removing material.

### Digging of holes in soil:





Place the tool of the TD on the surface.  
Start the striking mechanism while pushing the grip 2.  
Drive in (press) the spade or shovel into the ground.  
Remove the insert spade out of soil, while you are pressing the spade shortly in front of yourself or sideways, therefore you are reducing the affinity of the tool.

### Cutting of roots – digging of plant bales:

Take only sharp tools (insert spade, plant bale spade).  
Place the tool on the surface of the soil.  
Start the impact mechanism while pushing the grip 2.  
Press continuously the insert spade or plant bale spade without moving forward or behind up to the time you feel the roots are cut.  
Then move the tool shortly in front of yourself or sideways, so you are losing the affinity of the soil.

There is no more warranty and liability if you don't use the original parts and tools

Technical Data:

<b>TD 60 :</b>	Sticklength 60 cm, Air consumption l/min: 150 Work, pressure bar: 6-8 No. of strikes/min: 3500 Weight kg: ca. 2,4	Release handle: Metal, added at side		TD-60
<b>TD 80 :</b>	Sticklength 80 cm, Air consumption l/min: 150 Work, pressure bar: 6-8 No. of strikes/min: 3500 Weight kg: ca. 2,6	Release handle: Alu-T-Handle Release handle: Plastic, integrated		TD-80
<b>TD 110 S :</b>	Sticklength 110 cm, Air consumption l/min: 230 Work, pressure bar: 6-8 No. of strikes/min: 3100 Weight kg: ca. 2,9	Release handle: Alu-T-Handle Release handle: Plastic, integrated		BS
<b>TD 80 S II :</b>	Sticklength 80 cm, Air consumption l/min: 300 Work, pressure bar: 6-8 No. of strikes/min: 2300 Weight kg: 4	Release handle: Alu-T-Handle Release handle: Plastic, integrated		TD-110
<b>TDE :</b>	Sticklength 110 cm, Air consumption l/min: 300 Work, pressure bar: 6-8 No. of strikes/min: 3500 Weight kg: ca. 5,2	Release handle: Plastic, integrated		
<b>TDE S :</b>	Sticklength 110 cm, Air consumption l/min: 460 Work, pressure bar: 6-8 No. of strikes/min: 3100 Weight kg: ca. 5,8	Release handle: Plastic, integrated		
<b>TDE S II :</b>	Sticklength 110 cm, Air consumption l/min: 600 Work, pressure bar: 6-8 No. of strikes/min: 2100 Weight kg: ca. 8	Release handle: Plastic, integrated		
<b>TD 80 S III :</b>	Sticklength 80 cm, Air consumption l/min: 400 Work, pressure bar: 6-8 No. of strikes/min: 1800 Weight kg: ca. 5	Release handle: D-form, metal		TD-80 D

**Turbo-Digger application fields**  
of the different types TD / TDS / TDS II

application / type	TD	TDS	TDS II
<b>Building construction:</b>			
removing of ceramic, plaster and mortar	X	X	X
bottom coverings ( linoleum, plastic, parquet, carpet )	X	X	X
removal of cement rendering	X	X	X
making cuts for cable installations etc.	X	X	X
old construction restoration	X	X	X
Bridge renovation working		X	
<b>Underground working:</b>			
loosening of removable material:			
mud, frozen sand, fracture cleavage		X	X
removing of potters clay			X
blumen layers, tarboard, bottom covering ( all kinds )		X	X
making foundation pits		X	X
foundation excavation in smallest dimensions		X	X
undermining		X	X
working small wells		X	X
compacting at inaccessible parts		X	X
compacting in narrow space between cables and ducts			X
bridge and building renovation		X	X
<b>Landscaping and gardening:</b>			
loosening or stacking of air removing materials		X	X
also frozen soil			X
removing of tar, beton			X
bale cutting			X
roots cutting			X
digging of plant holes, foundation pits		X	X
digging of holes for piles, posts fences, gates		X	X
compacting in narrow space: small gardens, terraces			X
<b>Special operating fields:</b>			
tank depot cleaning		X	X
fuel tank cleaning		X	X
military renovation			X
dry cleaning for large machines and equipments		X	X
removing of bark		X	X