

# LISSMAC

CONSTRUCTION TECHNOLOGY

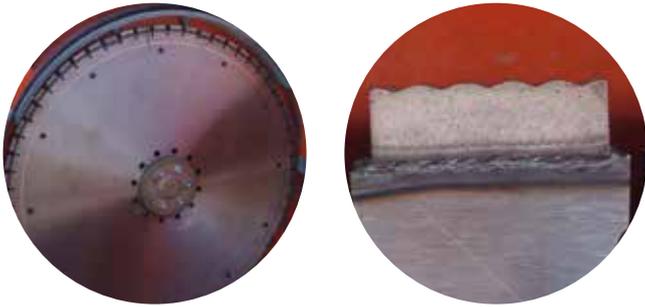
## DIAMOND TRENCHING



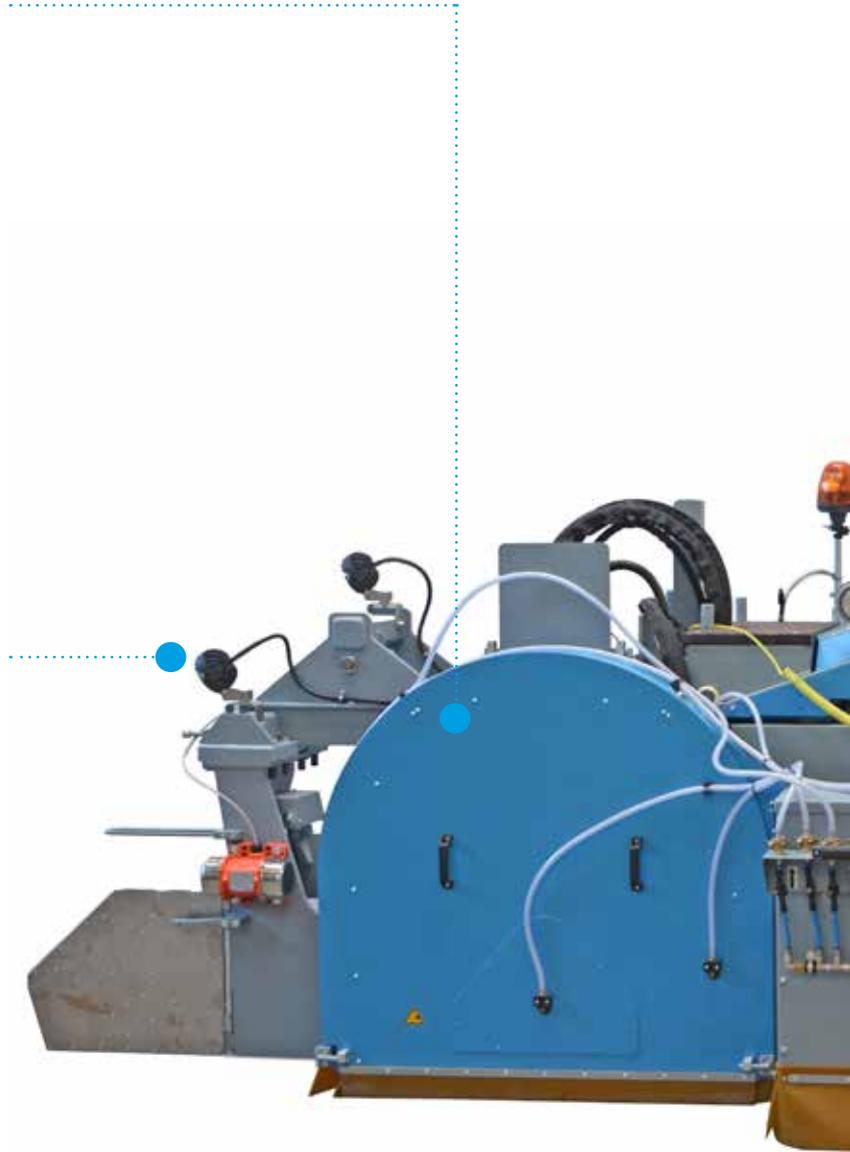
# DIAMOND TRENCHING

FAST AND INEXPENSIVE METHOD FOR BUILDING FIBRE NETWORKS

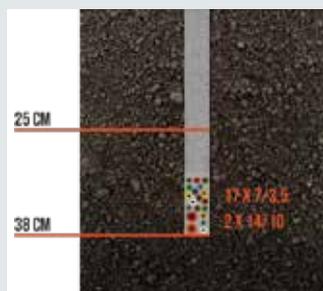
The specific diamond trenching blades are designed for cutting, respectively grinding all obstacles and materials that are installed in the ground. The main benefit is a monotonous, very even cut that leaves straight walls. A simplification of the filling and sealing process is a result of that and is also very inexpensive due to the narrow cutting width.



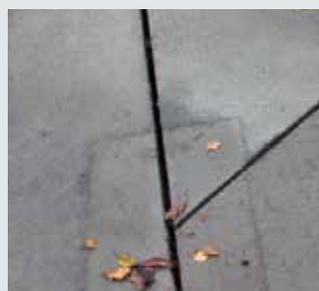
The LISSMAC trenching machine comes with a hydraulically operated laying unit, also called „plow“, which can be adjusted directly behind the diamond blade. This feature prevents the trench walls from collapsing and also guides the single pipes into the trench.



Trenching and laying single pipes



Cross section of a trench



Junctions to the homes



DT 90



Real time documentation during operation. Preset systems that enable a start / stop function.



Integrated display which show a variety of different functions, from service message, blade rotation to tilt compensation and more.

Joystick with intelligent controls and shortcut keys for easy access.



The term diamond trenching describes a process for laying pipes for fiber optic cables, in which narrow trenches and slots are made in floors and asphalt in a minimally invasive manner by using diamond cutting technology. This method of laying takes up little space and enables quick completion of pipe and fiber optic lines.

With the help of our diamond trenching machine a production capacity of min. 1 m/min is possible while cutting a trench into the upper layer (asphalt) and base layer, as well as the simultaneous laying of a large number of single pipes on the bottom of the trench using a laying unit specially developed for this process.

TECHNICAL DATA	DT 60	DT 90
Cutting depth max.	380 mm	300 mm
Cutting depth setting	hydraulic	hydraulic
Saw blade Ø max.	1000 mm	800 mm
Saw blade holder	35 mm (6 x M12 - TK120 mm)	35 mm (6 x M12 - TK120 mm)
Trench width	26-30 mm	20 mm
Arbeitsgeschwindigkeit	> 1 m/min	1 m/min
daily capacity when cutting max. depth	300 - 400 m	150 - 200 m
possible sizes of single pipes	von 7-20 mm	
Drive motor	DEUTZ Turbodiesel 4-cylinder	Hatz 4-cylinder
Output power max.	100 kW / 136 PS	55 kW / 74,8 PS
Emission level	EU stage IV / US EPA Tier 4	EU stage 5
Cutting Gear Forward	hydraulic/smoothly adjustable 0-60 m/min	hydraulic/smoothly adjustable 0-50 m/min
Cutting gear reverse	hydraulic/smoothly adjustable 0-60 m/min	hydraulic/smoothly adjustable 0-25 m/min
Saw blade speed	900 1/min	950 1/min
Steering	electro hydraulic	hydraulic
Left and right cut	- / x	x / -
Dimensions (L/W/H)	4700/1600/2200 mm	2500/1700/2000
Weight	3050 kg	1550 kg

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