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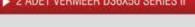


OUR EQUIPMENT POOL

















► VERMEER D220X300 S3



➤ VERMEER MCL 54/60













<u> sökez</u>

HEAVY EQUIPMENT	DRILLING DISTANCE M	TONNAGE
VERMEER D36X50 SERIES II	450	17,2
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VERMEER D40X55 S3	550	18,7
VERMEER D60X90 S3	700	27,2
VERMEER D100X140 S3	800	45,5
VERMEER D220X300 S3	1500	110
VERMEER MCL 54/60 PIPING MACHINE (32"- 60")	250	475
VERMEER HHGB-100 PIPING MACHINE (12"- 32")	200	275
PIPE PUSHING MACHINE (32"- 100")	200	600
HITACHI RUBBER WHEELED EXCAVATOR		20
HYUNDAİ FORKLIFT	3-87	3,5

VEHICLES	BRAND	NUMBER
TIR TRUCK	MERCEDES	4
TIR TRUCK	MAN	2
TRUCK	MERCEDES	2
WATER TANK	MERCEDES	1
DOUBLE CABIN TRUCK PIKAP (4X4)	WOLKSVAGEN	2
DOUBLE CABIN TRUCK PIKAP	MITSUBISHI	4
VEHICLE	AUDI	2
VEHICLE	0PEL	1



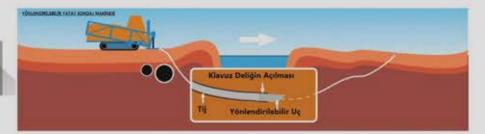
HORIZONTAL BORING

In our rapidly developing world, a great race is observed in bringing the projects under the ground in a short time and under more economic conditions. The directional horizontal drilling system implemented in the USA since 1983 was started to be used in all European countries in the 90's.

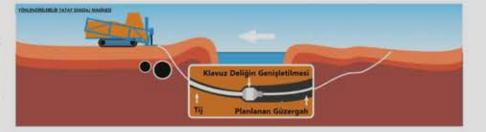
During these times, pipe boring, pipe jacking or a method simply called horizontal boring has been used in Turkey in order to to lay pipes to the under road and railways. Since 2000, the method known as Horizontal Directional Drilling Technology has been used instead of horizontal drilling methods.

WORKING PRINCIPLE

OPENING PILOT HOLE



TUNNEL DIAMETER ENLARGEMENT



PIPE PULLING STAGE



TECHNOLOGY



Directional horizontal drilling (HDD) method, one of the innovations of trenchless technology, is one of the most suitable techniques in such works as laying water, electricity or natural gas pipes under the obstacles like highway, railway, stream, lake, etc.

In this method, polyethylene and steel pipes can be utilized. Thanks to our existing machine park, piping can be installed at distances of up to 1500 m and diameters of up to 60" (depending on the type of formation).

In the HDD method, a pilot drilling is performed first. The drill (owing to its shape) can direct the drill in the desired direction and owing to the locator can determine the desired direction and coordinate. The tug conveys the pushing force received from the machine to the drill (in addition, the friction resistance of the formation is overwhelmed by injecting the pressurized lubricating fluid to the formation with hydraulic pumps) and thus performs the drilling.







DELIVERY OF MORE THAN

1000 PROJECTS OF TRENCHLESS

DIRECTIONAL HORIZONTAL

DRILLING IN DOMESTIC AND

OVERSEAS ROUTES



ADVANTAGES OF HORIZONTAL DRILLING

- It ensures low cost and fast realization of projects.
- Existing units in the upper structure (Tree, Building, Pavement, Asphalt etc.) are not damaged in any way.
- ▶ The simultaneous withdrawal of more than one pipe creates a regular association in the infrastructure.
- ▶ Pipes and cables previously installed by Telekom, TEDAŞ, BOTAŞ, Water and Sewerage organizations are certainly undamaged due to the orientation of Horizontal Drilling.
- Everyday life during work is not affected. Pedestrians and vehicles can continue their movement on the working area. The pavements and asphalts are not disturbed, the parks and gardens are not damaged.





► IMPORTANCE OF DRILLING MUD

Drilling mud is completely harmless and a special slurry that is prepared by mixing water and Bentonite material, which is a purified volcanic clay, along with polymers that may be needed according to soil type, that ensures that the soil within the tunnel during drilling reaches the earth, and that has technological features. Drilling mud protects underground equipment, reduces wear and provides floatation of the pipes to be pulled.

APPLICABLE PLACES





ALL ENERGY LINES



AIRPORTS



WATER NETWORKS AND
INSTALLATIONS



TRAIN ROADS AND RAILWAY SYSTEM



HIGHWAYS, STREETS AND STREETS, PARK AND GARDENS



COMMUNICATION AND COMMUNICATION LINES



HISTORICAL FIELDS



NATURAL GAS LINES



RIVER AND STREAM CROSSINGS WATER CHANNELS



MUD MOTOR TECHNOLOGY

Mud motor used for drilling guide hole with the ability to redirect firm soils (rock etc.) works with pressurized liquid flow movement produced by boring water and mud of drilling inserts.

Mud Motor is able to overcome all obstacles in the substructure with the torque power obtained from the pressure of the boring fluid.

Thanks to the Mud Motor technology that we have provided to the infrastructure of our country, we are your fast and high quality solution partner to pass the rock, concrete blocks and firm soils that may be encountered in your infrastructure works.





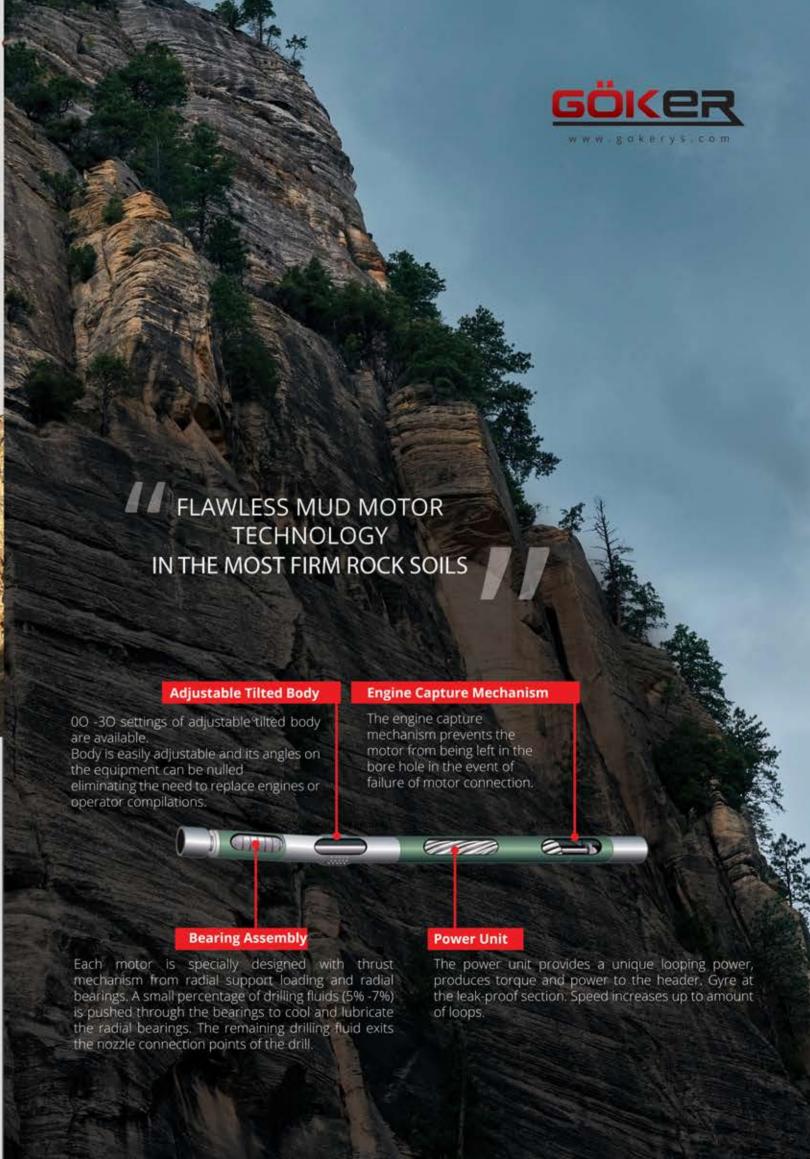
ADVANTAGES

Extremely hard rock formations can be drilled with engines that use diamond or PDC bits.

High penetration rates can be achieved because of the high rotational speed.

Thanks to the horsepower or torque generated independently by the engine, it also provides guidance for pilot drilling on rock soils and opening of the guide hole.







BORING SYSTEM

Boring method is the process of sliding steel pipes between the diameters of 300 mm and 1500 mm by means of a horizontal drill. With this method, all kinds of motorways, roads and railways passes are achieved.











SYSTEM PROCEDURE



With the determination of entry points and performing necessary topographic measurements and field works along the line, a crossing line is created. Obstacles that may occur during the shaft and tunnel excavation (existing infrastructures, water, telecommunication, sewerage, electric power transmission networks) are controlled and the necessary elevations are determined and the crossing elevation is determined.

After earth-moving of the shaft place, molds are installed, reinforcements are prepared, back concrete and base concrete are poured according to the dimensions of the machine to be utilized, dimension of pipe diameter and at the dimensions of crossing elevation prepared for the project (approximately 12.00 m in length and 4.00 m in width). If necessary, side shear walls are built. Curtain walls do not contribute to horizontal drilling, unless there is a risk to work safety.

Machine travel rails are lowered into the chimney with suitable crane and placed on the base concrete. The travel rails are adjusted according to the drilling axis. The center axis of the rail works with the drilling axis.

Appropriate helix is placed inside steel pipe with 6 m in length with adequate thickness (minimum 1% of the diameter, at least 12 mm thickness for a 1000 mm pipe). The pipe is safely lifted and lowered into the chimney by the crane, determining the balance point with helix. The connection socket of the helix is inserted into the machine's slewing slot. Fixing pin and cotter pin are attached. After the helix is connected to the machine, the pipe to be driven is based on the machine's pusher buffer. The end of the pipe is driven to the starting point of drilling using the pushing mechanism of the machine and drilling bit is placed at the starting point. The drilling process is started.

After the helix has gone to its end, the rotation is stopped. The machine is retracted to the length of the pipe and the other pipe, which has a helix in it, is lowered. The process continues until the end of the line. During this period, the direction and training checks are made by entering the pipe in certain intervals and the line is completed.

We do not recognize the obstacles in Spiral Horizontal Boring

with Steel Pipe Sliding Process



"WE HAVE A SIGNATURE UNDER

THE STRENGTHENING INFRASTRUCTURE OF CITIES"

ELECTRICITY / NATURAL GAS / DRINKING WATER / SEWERAGE







We are justifiably proud of finishing the

GIANT PROJECTS at home and abroad ...



TANAP - KEŞAN / EDİRNE LOT 4



STFA - ENERYA

(ANTALYA-AKSARAY-AYDIN-DENİZLİ-EREĞLİ-ERZİNCAN KARAMAN-KONYA-NEVŞEHİR-NİĞDE) REGION CONTRACTS OF VARIOUS WORKS



TURKMENISTAN AŞKABAT AIRPORT



ISTANBUL 3RD AIRPORT - NORTHERN MARMARA HIGHWAY



VIAPORT TEM EXPRESSWAY PASSAGE - ISTANBUL



ALÍAĞA LNG TERMINAL - NATURAL GAS 36" HIGH PRESSURE BOTAS PIPELINE BETWEEN ALÍAĞA RMS-A



Turkish Stream Land Section-1 - Natural Gas Pipeline - Tekirdag



DICLE RIVER UNDER OIL PIPELINE - BASRA / IRAQ

TRUST INITHIS POWER...

We have fully equipped infrastructure with Trenchless Directional Horizontal Drilling, Boring and Mud Motor technologies.

