


[www.microtunnel.com](http://www.microtunnel.com)

Didactic web page for pipe jacking, TBM, ...

VSM

MMC

Pipe Jacking

TBM

Auger Drills

Guidance S.

On Site

## Guidance Systems

U.N.S.

E.L.S.

E.L.S. - H.W.L.

G.N.S. - P

S.L.S. - T

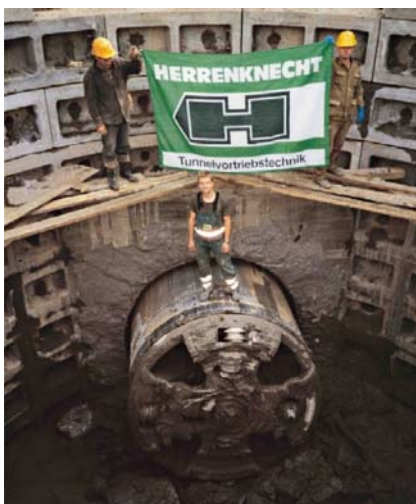
## U.N.S. Universal Navigation System

Plug and drive for Microtunnelling equipment.

Due to modern navigation technologies, remote-controlled Pipe Jacking can be effectuated in straight or curve drives, in any tunnel alignment as well as over long distances. High-tech sensor technology ensures high accuracy even in variable tunnel alignments.



Depending on tunnel alignment and length, different control respectively navigation systems are used on Microtunnelling equipment. To guarantee the compatibility between the machines and the navigation systems, Herrenknecht AG developed the Universal Navigation System as a basic module. With the modular concept, U.N.S., Microtunnelling systems can be equipped with the relevant navigation system quickly and economically. U.N.S. is a basic module for integrated or stand-alone navigation systems.



U.N.S.: One basic module for three navigation systems:

- [Electronic Laser System \(ELS\)](#)
- [ELS with Hydrostatic Water Levelling \(ELS-HWL\)](#)
- [Gyro Navigation System for Pipe Jacking \(GNS-P\)](#)



Spanish



Statistics



E-mail



How to print



Versión PDF



Web Map