

The base for your electromobility

ULF – Universal charging station foundation

Integrated charging infrastructure

Intelligent charging infrastructure for powering vehicles in the commercial and public spheres:

Commercial sphere

- companies
- hotels
- gastronomy
- housing industry

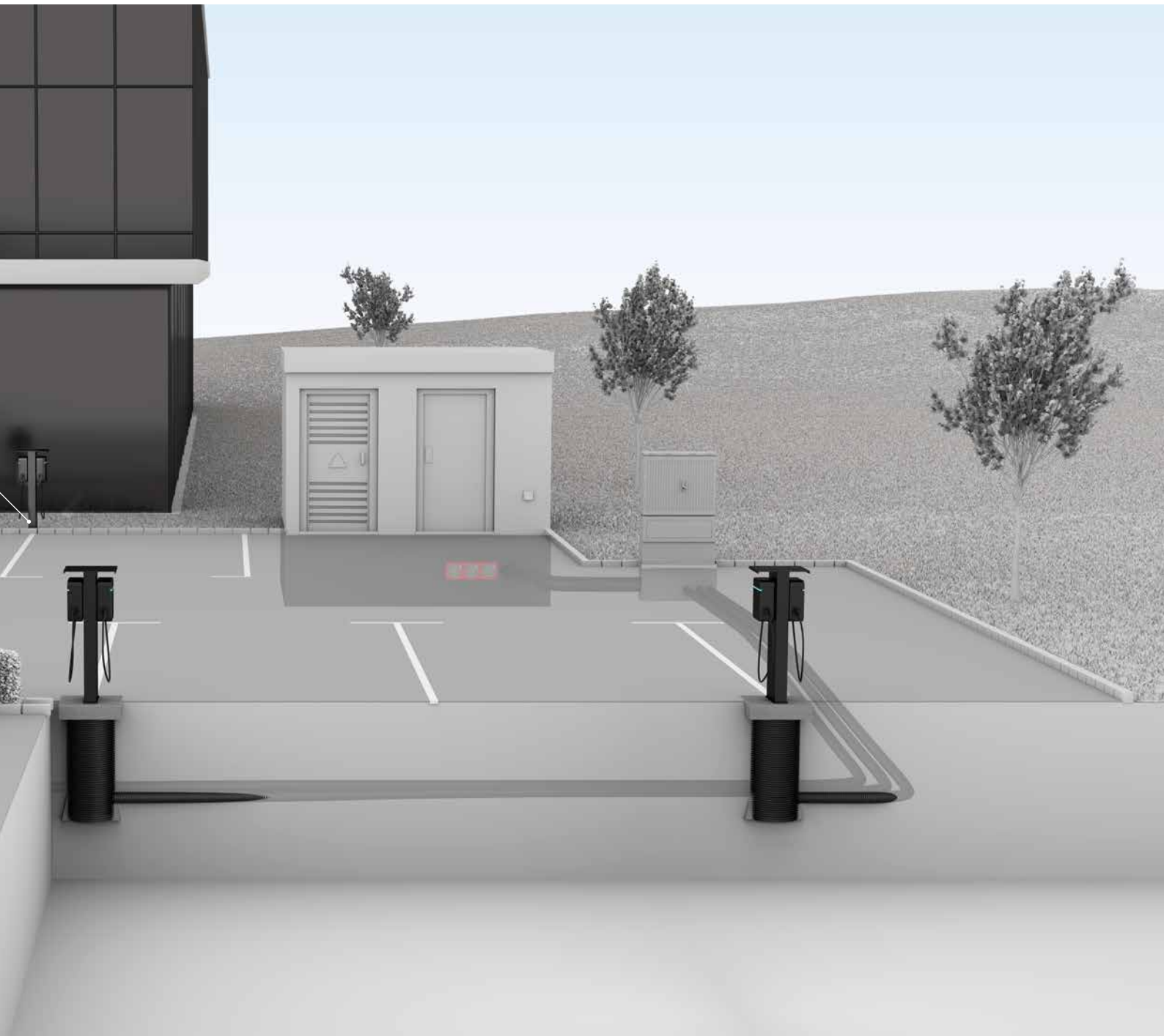
Public sphere

- cities
- municipalities
- public institutions



The clever foundation system

With a package of measures worth 6.3 billion euros, the German Federal Government wants to push ahead with the expansion of the charging network for electric cars. The goal is to set up a nationwide and user-friendly charging network with one million charging points by 2030. Of these publicly accessible charging points, only around 75,000 were available in Germany in 2022. There are also charging points for use in semi-public areas.



Companies, service providers, hotels and other semi-public institutions will also have greater demand for charging stations in the future. For the predicted ramp-up of e-mobility, it is therefore necessary for the corresponding charging infrastructure to be expanded. For this purpose, an increased number of charging stations is vital in view of the increasing demand for electric vehicles.

With the universal charging station foundation, Hauff-Technik has created an innovative and universal foundation for the construction of charging points. ULF offers a foundation solution for various types of charging stations and charging pedestals as well as for different installation situations. ULF is used in parking lots and charging points in public, semi-public as well as private areas.

Universal charging station foundation

Functional principle

ULF is a universal foundation for charging stations and charging pedestals. Power and data cables are introduced via a conduit connection.

The charging station or pedestal is attached and connected to the foundation plate.

Mounting options

Screwing or dowelling possible on site

Foundation slab

Flexible and safe installation of charging stations

Foundation pipe

Allows alignment of the foundation and a flexible arrangement of the media lines

Empty conduit

Connection option for empty conduits

Concrete foundation

Attachment of the ULF

Charging station

Data cable

Power cable

Connection of further ULFs possible

Electricity from the house connection/transformer station

Foundation comparison



Precast foundation



ULF



Foundation concreted on-site

Features

Weight	100 kg – 900 kg	< 60 kg	–
Chemical resistance	depending on the concrete quality	Acid and alkali resistance	depending on the concrete quality
Surface	smooth and even	very smooth and even	depending on the processor
Frost and de-icing salt resistance	only with special concrete	Resistant through polymer concrete (FX4)	only with special concrete
Height adjustment	–	can be cut to length on site	–
Water absorption	depending on the concrete quality	low	depending on the concrete quality

Installation

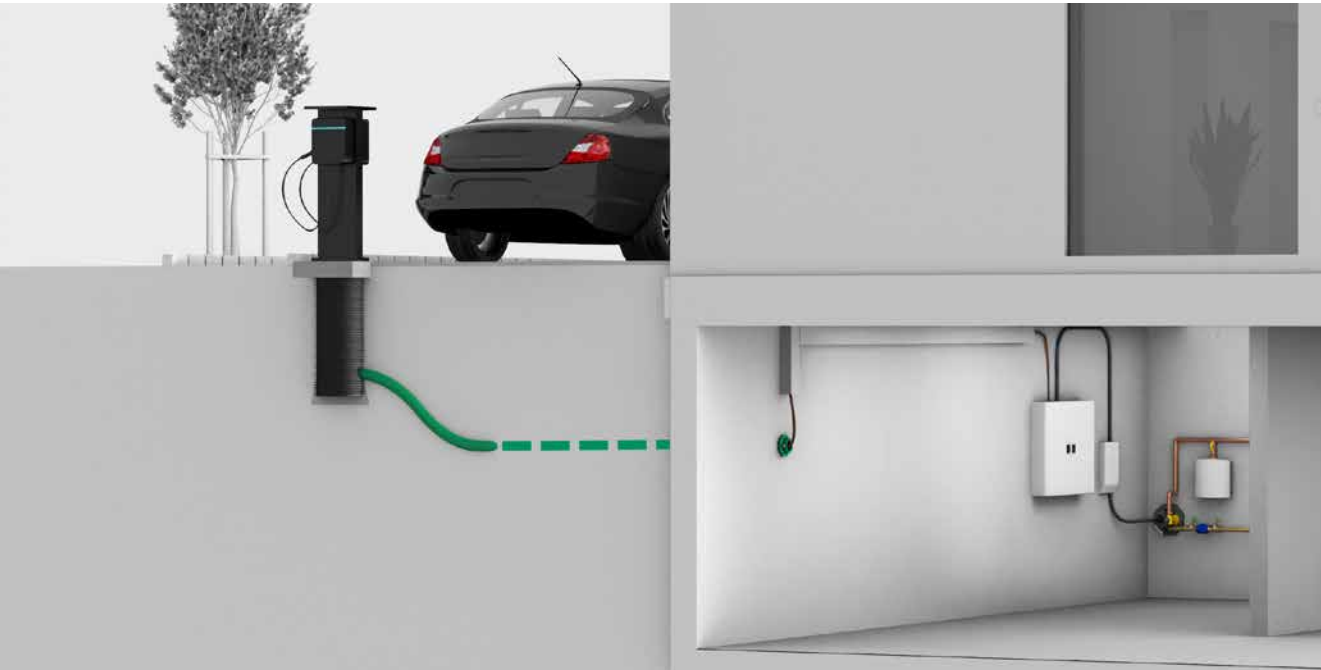
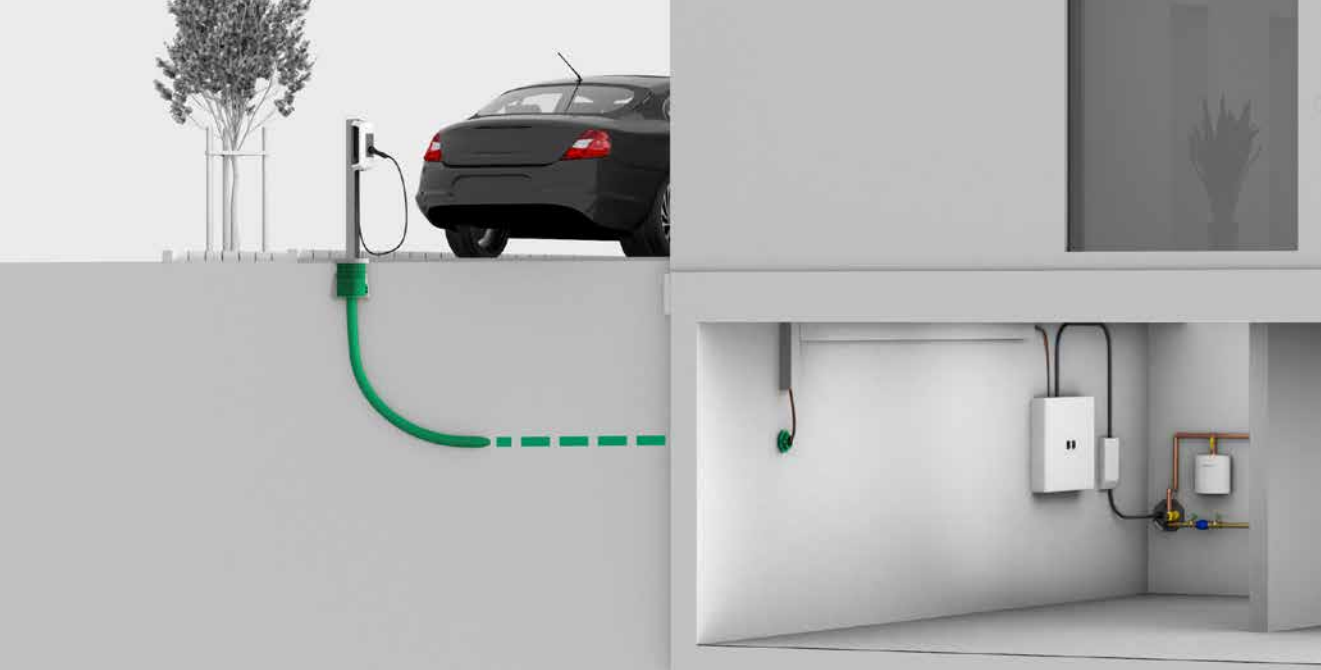
Installation complexity	low	low	very high
Formwork work	–	–	laborious/complex
Laying foundation	only possible with crane/excavator	1 person	2 persons
Installation time	fast	fast	time consuming
Transport costs	very high	low	low
Cable routing	integrated	integrated	on site

Installation

Variety of charging station models	type-related	flexibly applicable	type-related
Mounting options	Threaded sleeves, tie rods, concrete screws, dowels	Threaded sleeves, tie rods, concrete screws, dowels	Concrete screws, dowels, tie rods

Electromobility in the private sphere

ETGAR is a complete system for distributing the power supply to the entire property. The electricity is routed out of the building via the building services outlet and distributed on the property. The ETGAR foundation box serves as a ready-to-connect foundation system for smaller charging pedestals. The universal charging station foundation ULF is used for larger charging stations.



Single building services outlet for connecting an electronic device.

Electromobility system overview

Power source

Distribution

Deployment

Power distribution via the house connection



ETGAR building package for single-line building services outlets
for buildings with basement
1 x corrugated pipe connection



Universal wall sleeve 100
for new construction
1 x corrugated pipe connection



ETGAR building package for multi-line building services outlets
for buildings with basement
4 x corrugated pipe connections



ETGAR building developer package for building services outlets
for new construction
4 x corrugated pipe connections



Building services outlets, ETGAR multiple/single outer sealing element
for stock



ETGAR building package for building services outlets
for buildings without basement
4 x corrugated pipe connections



ETGAR corrugated pipe
ø 75 mm



ETGAR foundation box & ETGAR carrier plate



PE corrugated pipe

Cable duct as intermediate distributor necessary



ULF

Power distribution via a transformer station



HSI150
Single wall insert



HSI150 system cover



HSI150 DFK
polymer flange for dowelling

Universal charging station foundation

for the installation of charging stations and charging pedestals

ULF

Universal foundation solution for installing charging stations and charging pedestals. Option for mounting on the polymer concrete slab. Connection of power and data cables via an empty conduit connection.



Features and benefits



- universal foundation system for the installation of charging columns and charging pedestals
- adaptation option for empty conduits
- lightweight
- can be installed easily and quickly on-site

Scope of delivery:

- 1 x universal charging station foundation

Material:

- Foundation slab: polymer concrete
- Foundation pipe: PVC

Size	Foundation pipe \varnothing i (mm)	Article code	Article number
380 mm x 380 mm	250	ULF380	3030490218
470 mm x 470 mm	300	ULF470	3030490219

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