



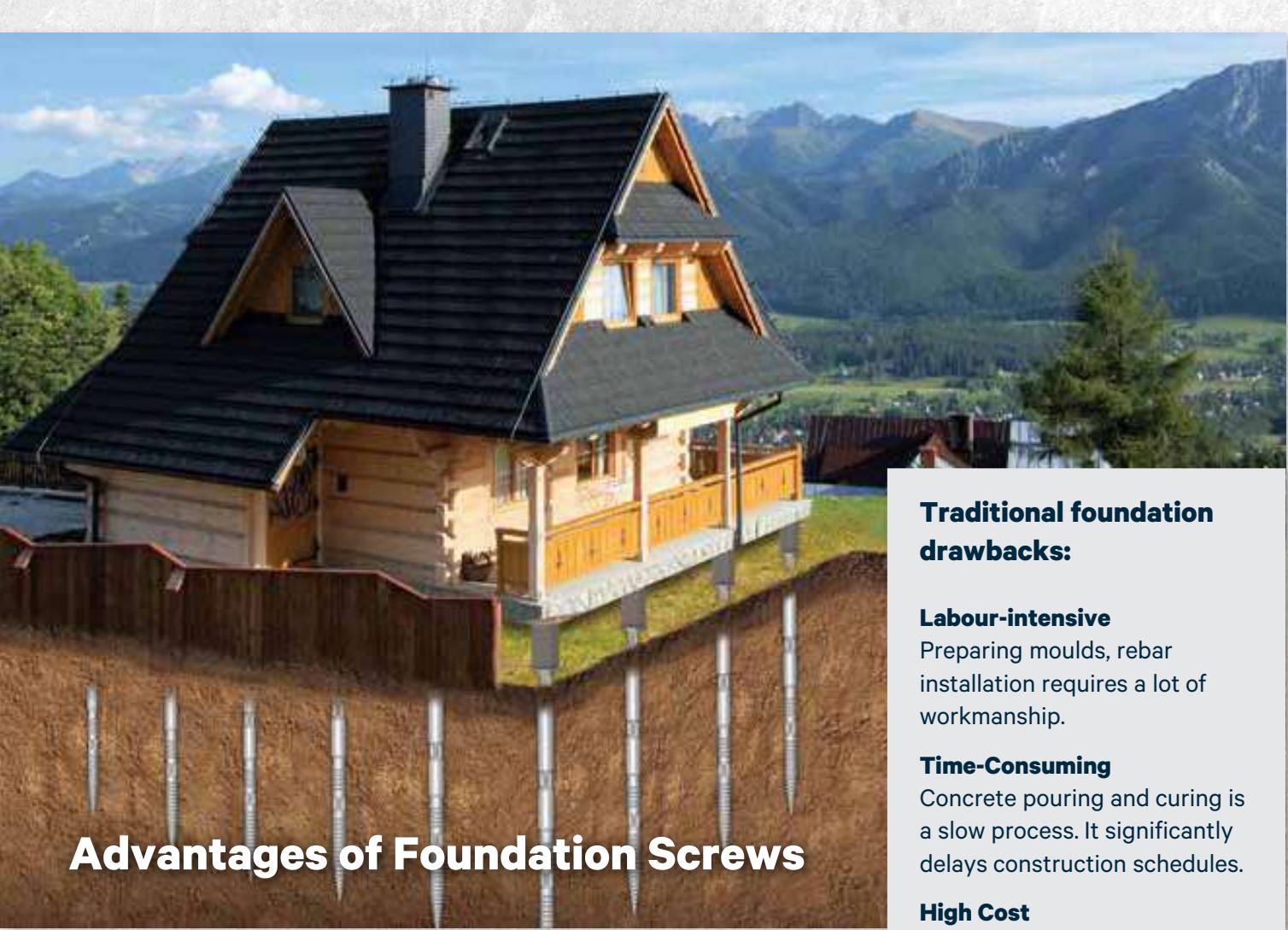
# FOUNDATION **SCREW:**

---

A REVOLUTIONARY  
GROUNDWORK  
SOLUTION



**POLARKON**



## Advantages of Foundation Screws

### Speed

Installation is much faster than traditional methods.



### Cost-Effective

Reduced labour and material costs provide savings.



### Environment

Minimal site disruption and reduced carbon footprint.



- Cost saving
- Fast and efficient installation
- No excavation for foundation
- No moulds
- No rebar installation
- No concrete pouring
- No waiting time for concrete setting
- Immediate use after installation
- Residue free dismantling (if required)

### Traditional foundation drawbacks:

#### Labour-intensive

Preparing moulds, rebar installation requires a lot of workmanship.

#### Time-Consuming

Concrete pouring and curing is a slow process. It significantly delays construction schedules.

#### High Cost

Extensive excavation and material costs add up quickly. This makes traditional foundations expensive. Hauling of the excavated material and importing backfill material with compaction increases the cost.

#### Environmental Impact

Concrete production releases substantial carbon emissions. Excavation disrupts the surrounding environment, damages local ecosystems.



## Technical Benefits of Foundation Screws:

- Installation depths up to 16-meters
- Load carrying capacity up to 12 tons (with D=139.7-mm screw)
- Galvanised or stainless steel based on feasibility study
- High precision (automatic balancing during screwing)



**Landscape application**



**Overpass foundations**



**Railway electrical pole foundations**



**Tinyhouse foundations**



**Solar farm foundations**



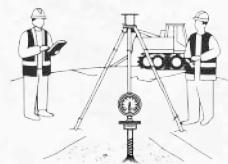
**Carport foundations**



## Ecological Benefits of Foundation Screws:

- 100% recyclable material.
- Residue-free removal.
- Minimal pollution of the environment.
- Renaturation is not required.
- Significantly reduced CO2 emissions.
- No soil sealing

# Installation Procedure



**Site assessment for evaluating soil conditions and project requirements**

**Driving the screw into the ground**

**Test load-bearing capacity to verify design requirements**



**POLARKON**

**POLARKON is an authorized dealer and application company of**



**Polarkon A.Ş.**

Birlik Mah. 490. Sok. No: 3/1  
06610 Çankaya/Ankara TÜRKİYE

**Polarkon GmbH**

Graf Adolf Straße 41  
40210 Düsseldorf

**Polarkon LLC**

11417 Irving Park Rd B6-5  
Franklin Park, IL 60131

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