To contract the stone columns, Özkanlar vibroflot is allowed to penetrate to the design depth and the resulting cavity is filled with hard stone, free clay and silt fines. The required interaction between the stone columns and the surrounding soils, is developed by the stone infill being introduces and compacted in stages, each stone being thoroughly compacted.

The stone columns and the confining soils form and build foundation support system having low compressibility and improved load bearing capacity. In cohesive soils, relatively rapid consolidation is achieved through excess pore water pressures being readily dissipated by the stone columns.
**Technical Data**

**Vibroflotation Machine**
- **ÖVF 300 - 2**
  - Eksantrik Moment (km) 2,026
  - Frekans (rpm) 3000/50
  - Santrifüj Kuvveti (kN) 200
  - Güç (kW) 1400
  - Yükseklik (H) 3100
  - Genişlik (W) 335
  - Uzunluk (L) 758
  - Güç Ünitesi PP252

- **ÖVF 300 - 2 HF**
  - Eksantrik Moment (km) 2,026
  - Frekans (rpm) 3600/60
  - Santrifüj Kuvveti (kN) 293
  - Güç (kW) 1400
  - Yükseklik (H) 3100
  - Genişlik (W) 335
  - Uzunluk (L) 758
  - Güç Ünitesi PP252

- **ÖVF 300 - 4**
  - Eksantrik Moment (km) 4
  - Frekans (rpm) 3000/50
  - Santrifüj Kuvveti (kN) 396
  - Güç (kW) 2000
  - Yükseklik (H) 3840
  - Genişlik (W) 570
  - Uzunluk (L) 520
  - Güç Ünitesi PP252

- **ÖVF 400 - 9**
  - Eksantrik Moment (km) 9,1
  - Frekans (rpm) 1800/30
  - Santrifüj Kuvveti (kN) 329,6
  - Güç (kW) 2200
  - Yükseklik (H) 3670
  - Genişlik (W) 416
  - Uzunluk (L) 920
  - Güç Ünitesi PP343

- **ÖVF 400 - 9 HF**
  - Eksantrik Moment (km) 9,1
  - Frekans (rpm) 2100/35
  - Santrifüj Kuvveti (kN) 448,6
  - Güç (kW) 2200
  - Yükseklik (H) 3670
  - Genişlik (W) 416
  - Uzunluk (L) 920
  - Güç Ünitesi PP343

**Power Packs**
- **PP 252**
  - Output (kWe) 185,2
  - Oil Flow (lt/dk) 317,1
  - Working Pressure (bar) 350

- **PP 343**
  - Output (kWe) 252
  - Oil Flow (lt/dk) 342
  - Working Pressure (bar) 350

**Weight and Dimensions**
- **ÖVF 300 - 2**
  - Lenght / L (mm) 2026
  - Height / H (mm) 2393
  - Width / W (mm) 218
  - Weight / kg 91

- **ÖVF 300 - 2 HF**
  - Lenght / L (mm) 2026
  - Height / H (mm) 2393
  - Width / W (mm) 218
  - Weight / kg 91

- **ÖVF 300 - 4**
  - Lenght / L (mm) 2026
  - Height / H (mm) 2393
  - Width / W (mm) 218
  - Weight / kg 91

- **ÖVF 400 - 9**
  - Lenght / L (mm) 2026
  - Height / H (mm) 2393
  - Width / W (mm) 218
  - Weight / kg 91

- **ÖVF 400 - 9 HF**
  - Lenght / L (mm) 2026
  - Height / H (mm) 2393
  - Width / W (mm) 218
  - Weight / kg 91

**Top Feed**
- The top feed system is used when the gravel is fed into the probe from above.

**Bottom Feed**
- The bottom feed system involves the gravel being fed into the probe from the side.

**Gravel Hooper & Feeding Mechanism**
- The gravel is hooped and then fed into the probe.

**Monitoring & Reporting**
- The software is used for data application purposes; it generates and provides a simple display of the various parameters.

**CONTROL PANEL**
- Display is placed in totally waterproof housing that has a membrane keyboard and LCD screen. From the screen, the operator can control compaction process parameters in real time.

**REVIEW**
- Instrumentations is used to measure, check and record the parameters for foundation processes that use vibration for compacting ground and materials:
  - Depth of Treatment
  - Compaction Rate
  - Diameter of Column
  - Volume of the Material