

## Gravel and Sand Extraction - TSP , VSP

The gravel and sand extraction equipment is intended to serve as an entry structure for wastewater treatment plants, collecting heavy parts of undissolved substances, and thus protecting further technological devices (such as pumps and screens). Inclusion of TSP and VSP into inlet canals is suitable especially in locations with higher occurrence of gravel and sand, in wastewater treatment plants located within sewage systems with higher gradient and flow speed.

*The TSP consists of:*

- A column with a swivelling boom actuated by an electric drive or manually (by pulling the load)
- Electric hoist suspended on the boom either firmly (TSP-P), or with travel (TSP-K).

*VSP consists of:*

- Two or more columns with a fixed straight travel way
- Electric hoist with travel.

*Both types are equipped with:*

- Hydraulically driven grab
- Accessories: electrical control panel, hose reel, suspended hoist and grab control box, cable connection.

### VSP



#### Specifications of TSP, VSP

TSP - column - height / boom length:	4 / 3.5 m
TSP – working radius:	260°
VSP - column - height / boom length:	5 / 6 -18 m
Power input:	2,8 / 3.9 kW
Grab lift:	up to 12 m
Grab capacity:	50 l, 100 l, 300 l

*Other parameter ranges to be consulted with the manufacturer*

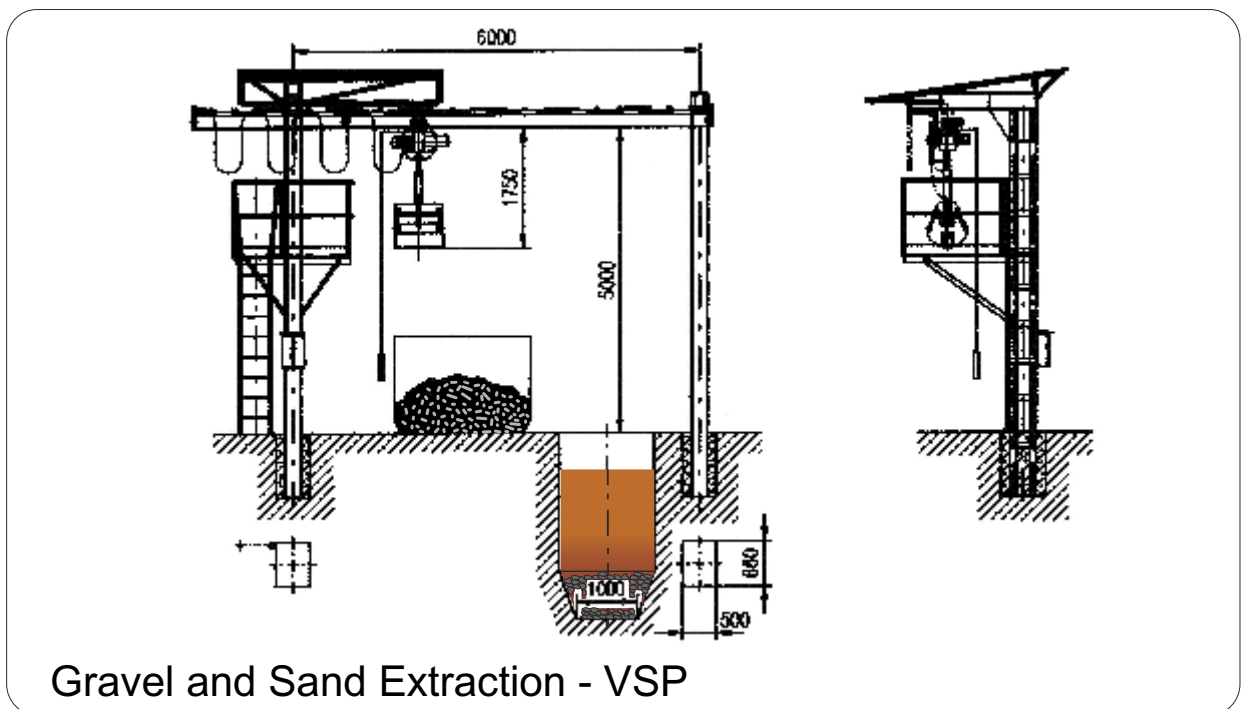
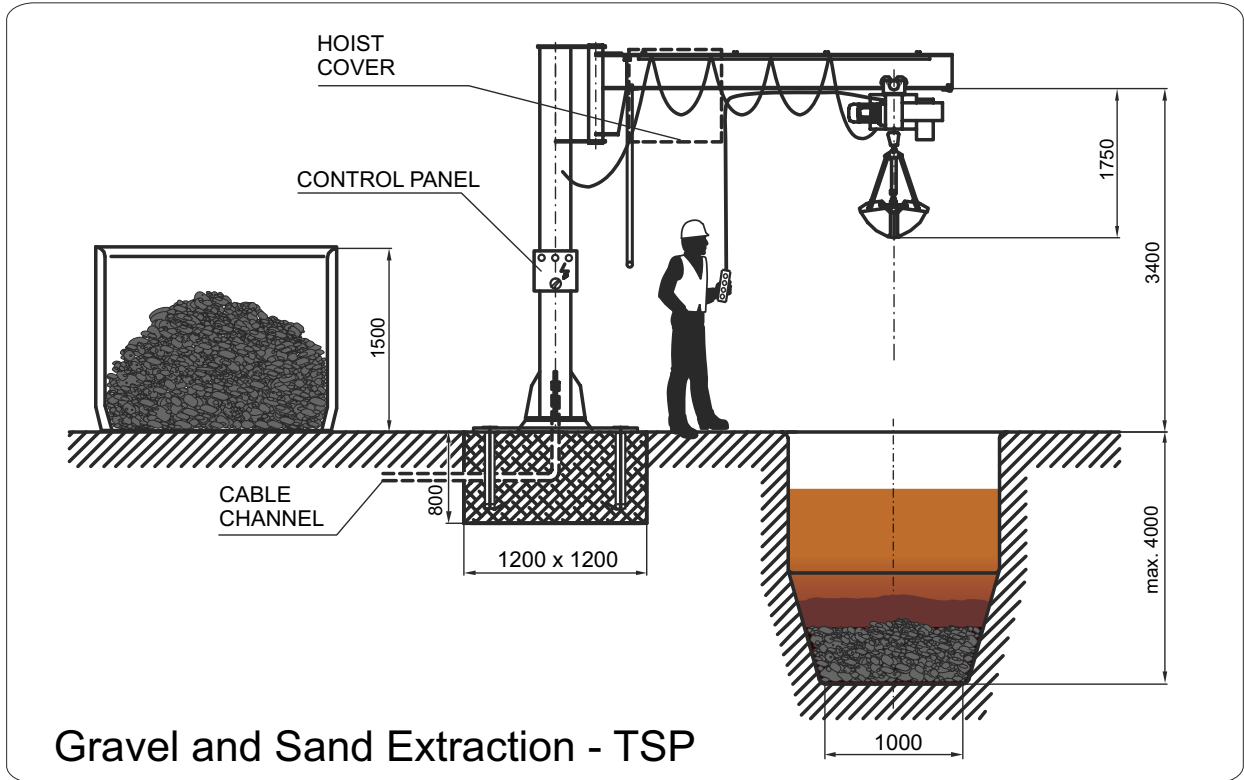
Product identification: **TSP - P, TSP - K, VSP**

### TSP



**ISO 9001**

The inlet canal is widened and deepened for the purpose of settling and collection in order to reduce the flow speed and to allow sand and gravel to settle.



The TSP column with the boom is anchored to concrete foundation with embedded anchoring bolts.

The columns of the VSP are anchored into the concrete in the anchoring shafts.

For optimum integration into the wastewater plant technology the Company FONTANA R, s.r.o. can offer consultations and technical assistance to its clients free of charge. Service can be provided within 24 (48) hours.



**Fontana R, s.r.o.** – Příkop 4, 602 00 BRNO, CZECH REPUBLIC  
 tel.: +420 545 175 853; +420 545 175 851; +420 545 175 854; tel./fax: +420 545 175 852  
<http://www.fontanar.cz/>; e-mail: [fontanar@fontanar.cz](mailto:fontanar@fontanar.cz)