

Schletter Rack Engineering & Design – Soil Testing for Piles

The following tests are performed to determine pile size and embedment depth. Tests are performed with the GAYK pile driver fitting with special hydraulic measurement equipment. See picture below and attached specification sheet for information on the GAYK.

With these tests and results, Schletter is able to finalize the design of the rack, evaluate the depth the posts need to be driven to, and determine the number of posts the actual rack needs as a support for a particular site. The completed rack design also takes into account local snow and wind loads. Full test results and stamped construction drawings are then submitted to customer.

- Vertical pull-out Tests
Posts are driven into the soil at various depths and various locations on the site. The force necessary to pull the posts out of the ground is measured.
- Horizontal Pressure Test
Hydraulic pressure is applied horizontally and post movement is measured.
- Laboratory Chemical Analysis of soil samples
Soil samples are taken from the site and a chemical analysis is performed to test for corrosiveness.

GAYK 3000 Hydraulic Ram



GAYK HRE 3000	Transport length	16.4 ft
	Transport width	6.56 ft
	Transport height	8.2 ft
	Weight with hammer	8,069 lbs
	Max. length of posts to be rammed	13 ft
	Number of impacts	670 - 1450 1/min
	Weight of hammer	300 lbs
	Power	48.3 hp