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EXTERNAL INFORMATION

Langmatz GmbH Garmisch-Partenkirchen

Purchase of a test portal from Form + Test

This report describes the new acquisition and introduction of a testing portal type PP1000 HK-2SH into the development and verification process of products manufactured by Langmatz GmbH.

Machine type: PP1000 HK-2DH

Order no: 150223

Year of construction: 2015

Maximal test load: 1,000 kN

Test directions: tensile direction and pressing direction

Testing possibilities: static and dynamic; at ground level on the test field and in the 3 m testing pit for soil burial tests in real-time simulation.

This test portal is used in the technical department of our company. It is located in a hall which has been specially built for this facility and is governed by our technical laboratory.
We acquired the facility in order to verify new products and to optimize existing developments which results in getting still higher quality standards.
Principally these are cable duct systems which are tested and classified acc. to DIN EN 124.
We decided to buy this facility due to several reasons:
The high test load and the control system allow a lot of tests required by DIN EN 124. Moreover due to the flexibility of the test portal even foreign standards can be implied.
Due to the flexible positioning in all three axes the test portal can be positioned on a test area of about 12 m² and thus offers the possibility of testing specimens at several points of the test area.
The height adjustment allows to test specimens in mounting condition (soil burial test) and to test in real-time simulation.
The software PROTEUS enormously facilitates the data collection and evaluation.

By setting dynamic frequencies and sinus function our products can be subjected to a long–term load test, which results in a higher quality of our products. So negative long-term effects can be early detected and we can react appropriately.
Furthermore the use of test ports, to which various sensors can be fixed, is possible and allows the parallel recording of measuring data at specific points and with specific conditions of the specimen during the test. Thus during the load tests you can get new know-how and your level of knowledge can be broadened application-technically and constructively.
In addition to the standardized traffic area load tests acc. to DIN EN 124 for the classification of road-building products, the machine is used with tensile load tests and surface load tests for the verification of cable distribution cabinets acc. to DIN EN 61439-5 and VDE 0660.

After an in-house check of the machine Form + Test arranged for transport by a forwarding agent. The machine was delivered by truck without any problems and was handed over to Form +Test service technicians on site. The erection and installation of the facility ran smoothly – together with a local industrial assembly company – and there were no complications although the space in the hall was a big challenge.

During commissioning we were thoroughly instructed in operation and handling by Form+Test service technicians. The focus was on acceptance and calibration as well as its integration in PROTEUS software. We got precise answers to our questions and a lot of practical tips for the testing process. Due to the training with PROTEUS and detailed and realistic information we got a very good state of knowledge which enabled us to start with the facility immediately.
We would like to highlight the additional telephone support in operation and programming especially in the initial phase of use.
Altogether Langmatz GmbH is completely satisfied with the services of FORM+TEST and is looking forward to a good and uncomplicated cooperation in the future.

Langmatz GmbH
Frank Hoffmann, Head of Technical Laboratory