

function

The **SCITEQ B50 impact tester** has been designed to be a versatile production test unit for the pipe industry. It has been developed in conjunction with major European pipe manufacturers.

highlights

automatic settings

time saving

speed measuring

high quality material

unique design

perfect sealing

features

The heart of this machine is the unique principle with which the weight is lifted to its release position, SCITEQ holds full patents on this vacuum system. The vacuum method has several advantages to its alternatives enabling extremely fast repeat of tests of up to 15 strokes/minute. The weights can be exchanged in seconds. All parameters are selected in seconds using the user-friendly control panel.

The sample is placed in the V-block adjusted for the diameter of the specific sample being tested. The weight can now be released and test repeated as desired. The system has built in impact speed measurement to prove the falling velocity of each test.



construction

Weights between 0,250 kg and 16 kg can be used, the machine is the only machine in the market to obtain the correct falling weight velocity. The machine can be supplied with 2,3 or 4 meters impact height. The **safety** while using a SCITEQ B50 impact tester is also second to none.

First of all the vacuum system secures that if the power fails while a weight is in the machine, the weight will fall very slowly down like a "parachute" due to the vacuum pump stopping slowly, when power is removed. A safety door on the front makes it impossible to release Impact weight unless the door is closed. The control panel is equipped with a "two – hand – release" function of the Impact weights.

Instrumentation:

The **SCITEQ B50 impact tester** is the only production testing machine produced which can be used as a fully instrumented machine. This is achieved by the addition of wireless instrumented weights and a PC program. This allows the machine unrivalled flexibility as both a production and development tool.

We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

associated | equipment ▲ | essential equipment

impact weights

0° C tanks

Pc- software

instrumen-
tation

laboratory
saw

- speed** better than 95% of theoretical free fall
- specifications** h = 4050 mm, w = 1800 mm, d = 600 mm
- weight** app. 600 kg
- ambient temperature** min. 50 C, max. 70 degrees C
- humidity** app. 70%
- tolerance, weights** +/- .005 kg
or + .005 kg/- .000 kg depending on standard
- colours** grey and black
- power supply** 3 x 400 V
- air** 4 to 8 bar
- sample dimensions** from Ø 32 mm up to Ø 630 mm standard

Larger dimensions and special test samples on request

Please note: The machine is intended for use in a production environment with particular emphasis on ease and speed of use, low maintenance and safety. Tests outlined in ISO 3127, EN 744, EN 1411, EN 1452, EN 1453-1 and ASTM D 2444 for impact testing can be carried out by using this machine.

Range of weights for the SCITEQ B50 impact tester



Falling weights – "round the clock" method

250	gram falling weight +	D=25 falling weight head
500	gram falling weight +	D=25 falling weight head
800	gram falling weight +	D=25 falling weight head
1000	gram falling weight +	D=25 falling weight head
1250	gram falling weight +	D=25 falling weight head
1600	gram falling weight +	D=25 falling weight head
2000	gram falling weight +	D=25 falling weight head
2500	gram falling weight +	D=25 falling weight head
3200	gram falling weight +	D=25 falling weight head
4000	gram falling weight +	D=90 falling weight head
5000	gram falling weight +	D=90 falling weight head
6300	gram falling weight +	D=90 falling weight head
8000	gram falling weight +	D=90 falling weight head
10000	gram falling weight +	D=90 falling weight head
12500	gram falling weight +	D=90 falling weight head
15000	gram falling weight +	D=90 falling weight head

Falling weights – "stair case" method

250	gram falling weight +	D=25 falling weight head
500	gram falling weight +	D=25 falling weight head
800	gram falling weight +	D=25 falling weight head
1000	gram falling weight +	D=90 falling weight head
1250	gram falling weight +	D=90 falling weight head
1600	gram falling weight +	D=90 falling weight head
2000	gram falling weight +	D=90 falling weight head
2500	gram falling weight +	D=90 falling weight head
3200	gram falling weight +	D=90 falling weight head
4000	gram falling weight +	D=90 falling weight head
5000	gram falling weight +	D=90 falling weight head
6300	gram falling weight +	D=90 falling weight head
8000	gram falling weight +	D=90 falling weight head
10000	gram falling weight +	D=90 falling weight head
12500	gram falling weight +	D=90 falling weight head
15000	gram falling weight +	D=90 falling weight head

Range of striker heads for the SCITEQ B50 impact tester:



- Striker heads
- R=12.5mm, D=25 falling weight head
 - R=25mm, D=25 falling weight head
 - R=50mm, D=50 falling weight head
 - R=50mm, D=90 falling weight head
 - R=50mm, D=25 falling weight head

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