

## RCP – Rapid Crack Propagation



We help you perform even better

# About RCP-Rapid Crack Propagation

SCITEQ



Unique SCITEQ engineered drive

## Construction

The SCITEQ Rapid Crack Propagation is designed for high accuracy impact, easy and safe operation and low maintenance need. The machine consists of an acceleration tower and an automatic pipe conveyor system. The acceleration tower consists of a drive which controls the correct movement of the striker while striking into the pipe. It also enables easy and safe replacement of the striker, when changing sample dimension.

The automatic pipe conveyor system gives the necessary flexibility to enable testing on a large range of pipe dimensions and in the same time making it fast, simple and secure, making sure the sample is in correct position before impact.

## Operation

The SCITEQ Rapid Crack Propagation is operated fast and simple from the main touch panel, placed on a moveable arm for flexible positioning of the panel. The Automatic Pipe conveyor system is designed so the sample can be easily placed with crane or by hand and is hereafter automatically positioned in the acceleration tower just with a few clicks on the operation panel.



External dimensions, LxWxH [mm]	3019 x 1450 x 2481
Weight, tower only [kg]	Approx: 1220
Weight, all included, vacuum suction, extra tool plate, etc. [kg]	Approx: 1510
Pipe Outer dimension range (OD) [mm]*	DN90-DN315
Wall thickness range [mm]	SDR 9-22
Sample length [mm]	$L_t = 7,5 d_n \pm 2 \text{ mm}$
Striker speed range	10-15,5 m/s
Resolution of striker speed adjustment	0,5 m/s
Accuracy of speed measurement	$\pm 0,1 \text{ m/s}$
Recorded time it takes to do impact from sample is conditioned and stored in conditioning chamber**	Approx: 50 sek.
Automatic lid and hatch interlock system for safe operation	√
Complied standard	ISO13477:2008
Units available	Imperial and Metric (Inches and mm)
Language available***	English
Data storage	USB memory card
Complied standard	ISO13477:2008

\*Additional tool kits is necessary for each dimension and SDR class.

\*\*Testing done with DN4" pipe and conditioning room located approx. 5 mtr. from the RCP.

\*\*\* Other languages available on request.



<b>Power supply*</b>	3x 400/480 V (No neutral), 50/60 HZ (AC/DC protection relay required, due to servo drive)
<b>Maximum power consumption</b>	Approx: 25 kW, 30 A
<b>Recommended fuse</b>	63 A, (earth leakage circuit breaker (ELCB) must be AC/DC prepared)
<b>Air supply [Bar]</b>	4-7
<b>Operating temperature [°C]</b>	20-25
<b>Storage temperature [°C]</b>	(-10)-40
<b>CE approval**</b>	√
<b>Operation panel</b>	Siemens TP900, 9 inch touch panel

\* Other power supply available at request

\*\* Machines can on request be produced with CSA and/or UL approved parts



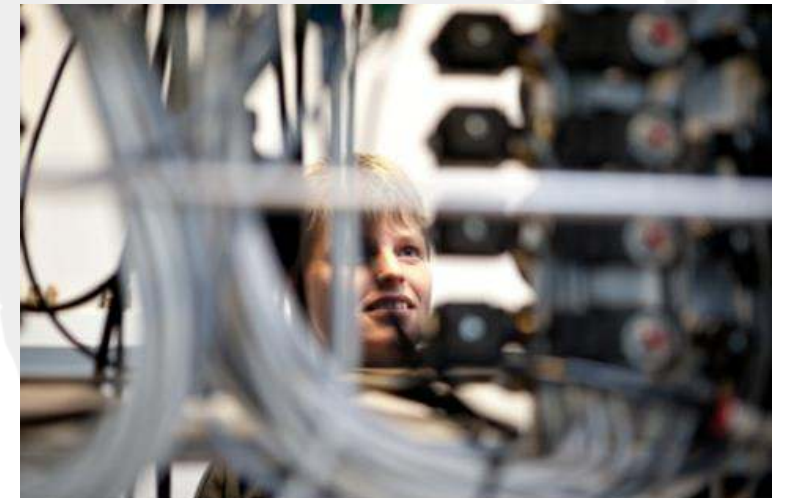
## Installation & training

SCITEQ's trained service technicians perform onsite installation of your new SCITEQ equipment as well as onsite or remote training of your operating personnel who will be using the equipment.



## Service agreements

With a SCITEQ service agreement you can rest assured your equipment will perform 100% all the time. Specialized service engineers will visit you annually to perform the best service and calibration of your equipment. You can always liaise with your SCITEQ service technician when in need of advice, looking for new solutions or trying out new equipment.



## Support online & on-site

SCITEQ offers online and on-site support on all SCITEQ products, for fast and effective problem solving, training, setup, etc. If you have an unforeseen challenge or you need advise asap, you can contact [service@sciteq.com](mailto:service@sciteq.com) or call us for urgent support.