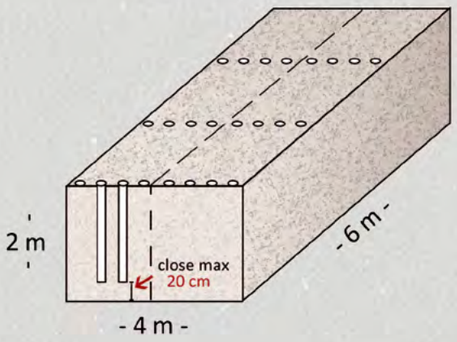
Technical details

	SplitStone S 100	SplitStone S 120-200	SplitStone SP 100
Cylinder diameter	100 mm	120 - 200 mm	100 mm
Bore size	1 3/8 inc	1 3/4 - 2 inc 2 - 2 1/2 - 3 inc 3 inc - 4 inc	1 3/8 - 1 3/4 inc
Minimum drilling depth	700 mm	1100 mm	500 mm
Wedge length	400 mm	500 - 600 mm	300 mm
Total length with wedges	1125 mm	1550 mm	1125 mm
Weight of single wedge	30 kg	450 kg	30 kg
Total weight	~1000 kg	70 - 450 kg + mounting plate	200 kg
Maximum required hydraulic pressure	250 bar	300 bar	300 bar - self contained
Flow requirement	50 - 60 l/min	8 - 15 l/min	5 l/min

[1] 120 mm cylinder
[2] 200 mm cylinder

SP= Portable



S 100 Recommended drilling depths

Block:	Drilling depth:
1 m	0,8 m
2 m	1,8 m
3 m	2,8 m

Maximum closing is 20 cm (7.9")

Your local dealer

For more information visit

www.splitstone.fi

SplitStone

Work smarter, not harder

SPLITSTONE INTRODUCTION

Faster, safer, more effective

Safe and efficient stone cutting

SplitStone is based on a completely new stone-cutting technology developed in cooperation with quarrying industry experts to improve the efficiency and safety of stone-cutting. SplitStone technology is based on a unique hydraulic wedging. With SplitStone we try to get the best possible economical, effective and safe result in quarrying.

Optimally divided breaking force enables even 30 % greater strength with same hydraulic pressure than the equivalent devices. SplitStone is a unique hydraulic wedge device, which can be installed, for instance, in an excavator, a loader, or any forestry machine with a pump capacity of 10 – 60 liters / at a 250 bar pressure. There are several SplitStone models, which varies from single wedge to multiple wedge units depending on the work area. Bore sizes varies. Wedges are installed manually in to drill holes. In smaller models mobility has been taken into account in planning. Bigger S 120 – S 200 wedges can be mounted directly to a carrier and controlled using the carrier. In S 100 models tool balancers are part of SplitStones wedge barriers. After the split, the cylinders will pull to upper position automatically. Tool balancers significantly lighten the workload of the worker. The radio or remote control option keeps the operator always on safe distance from the danger area.

SplitStone technique produces straight and clean cut without color drawbacks or hair cracks

More than 50% faster stone cutting

SplitStone is more than 50% quicker at stone cutting than any of the traditional methods. Straight and clean cut, because of the hydraulic system producing equal pressure at all cylinders and holes through out the splitting line. This totally even breaking force also allows longer hole spacing and immediate split. Hydraulic wedging saves rock, reduce costs of explosives and it makes no noise. Thanks to its brilliant operational technique SplitStone works also well for stone finishing. This enables a neat and precise cutting of even very small stone parts off the rock face. SplitStone has been designed for a wide collection of different rock types. Even if the explosives are allowed to use, the splitstone method doesn't blacken the splitted surface or cause hair cracking, saving more sellable stone.

Quality with experience

SplitStone equipment is made in Finland. Each machine is built according to special needs of the customer. Thanks to its materials and structure, wedges of the machines are stable tools. In constant use and properly maintained the operating time of the wedges amounts to about one year.

"It's an amazingly fit gadget. The SplitStone comes up with excellent wedging performance and its reliability never lets you down. Thanks to SplitStone, there have been fewer accidents, and the saving on manpower and explosives has been substantial here."

Granikon Oy
Risto Heino

HYDRAULIC ROCK SPLITTING SYSTEMS

SPLITSTONE S 100

The unit is typically mounted to tractor or excavator boom or to crane, where the zoom type hydraulic boom is recommended for the longest reach. Each unit has the client specified number of hydraulic wedges. At granite industry for primary splitting up to 20, secondary splitting typically around 12 and like at limestone applications 8.

Also at the granite quarries the unit is typically equipped in the middle one or two "Opening Wedges", which after the initial split will be dropped deeper in to cracked hole and from there used to separate the rock totally loose.

Every wedge cylinder is mounted to tool balancer. This allows effortless installation of the wedges in to the holes and when the split is done, the loosened cylinder will rise automatically.

Hydraulic recommendation is up to 250 bar (3600 psi) and the unit is either radio or remote cable controlled. The cross bar can be equipped with 360 deg. hydraulic rotator to add convenience.

S 100 is patented and meets European CE- safety requirements.

SPLITSTONE S 120 – S 200

Auxiliary unit mounted to excavator boom or any other suitable hydraulic boom for secondary splitting and over size boulder breaking, especially larger size in the areas where the use of explosives is restricted.

S120 - S200 is available in different sizes of wedges, 45 - 102 mm(1 3/4"–4") depending on the tasks. Connecting to excavator hydraulic PTO with quick couplings is fast and effortless. The controls are radio - remote operated, adding the safety.

SPLITSTONE SP 100

SP 100 is wheel mounted self contained unit with one or two hydraulic splitters. Mobile and compact size, ideal for demolition contractors and secondary rock or boulder splitting where use of explosives are restricted such as inside the buildings and where the manual wedging has been the only alternative.

Unit weights approx 160 kg (350 lbs) with one wedge. SP 100 is equipped with radio controls for safe and fast operation and it's hydraulics are powered with electric motor or gas engine.

In total safe and easy to move and to operate and very efficient comparing to manual wedging and splitting.