

ALTIKA

DIRECTIVE SPLITTING DEVICE FOR MONOLITIC BLOCK DEMOLITION

The device is to be used to split rock blocks and to perform secondary splitting of dimensional stones (border stones, plates, slabs, parapets etc.).

KKPM-600 Specifications	
Maximum width of the splitting block (mm)	1500
Maximum height of the splitting block (mm)	600
Maximum splitting force (ton)	630
Efficiency (splitting per hour)	50
Dimensions of the frame (mm)*	2300(H) ? 2000(W) ? 700(D)
Working table dimensions (mm)*	700(H) ? 2000(W) ? 3000(D)
Range of wedges automatic adjustment:	
- upper cross-piece (mm)	0...500
- lower cross-piece (mm)	0...100
Electric drive power (kW)	10
Working voltage (v)	380
Working pressure in hydraulic system (MPa)	70
Weight (ton)	6.5



Arrangement and Work

The machine has guide pillars with working members mounted on them – upper cross-piece and lower cross-piece which can be moved. The guide pillars are rigidly fixed in an immobile frame. Working power elements placed between the lower cross-piece and the frame interact with the latter passing the effort during the working cycle. Long axis of the power element is horizontal and parallel to the cross-pieces, and also to the frame. Extending spring-loaded wedges and hydraulic spreading power elements are mounted in the spaces of the upper and lower cross-pieces.

Hydraulic system of the power elements mounted in the spaces of the cross-pieces can be either autonomous or common. The hydraulic system of the working power element is independent of the hydrosystem of the spreading power elements.

The block to be split is moved along a feeding table so as to align the plane of the supposed split with the plane of the spring-loaded wedges location and with the help of hydraulic cylinder the block is being lowered until its lower surface contacts the working side of the wedges and of the lower cross-piece. By this, the spring-loaded wedges sink under the weight of the block to be split and “copy” the unevenness of its surface. The upper cross-piece is being sunk under its own weight on the opposite side of the block to be split the spring-loaded wedges of which press to its surface copying the unevenness. The position of the upper cross-piece on the guide pillars is fixed. The position of the wedges is being fixed by working agent feed of the hydraulic spreading elements for the duration of the whole working cycle, afterwards the working power elements are being put into operation. Under the load of horizontal parts of the case of the working elements passing to the wedges a directive crack is formed in the body of the split block, the position of the crack is determined by the load points when the load is applied to the block through the wedges. Oil pressure in the hydraulic system of the working agent feed to the spreading elements is determined by the condition of secure attachment of the elements during the whole working cycle.



For more information, contact:

Lars Harrison, CEO, Altika

6325-9 Falls of Neuse Rd., Suite 193, Raleigh, NC 27615-6809, USA

Phone: 919-878-8166, Cellular: 919-523-1770, Efax: 509-692-8101

lharrison@altika.com www.altika.com

Program code: 305