

NEW TECHNICAL SOLUTION

DOUBLE CIRCULAR ANGULAR SAW UPK 1000

The double circular angular saw UPK 1000 is composed of a firm frame on which two electric motors are fit in place perpendicular to each other. The circular saws can be moved in both, the horizontal and the vertical direction as well. Any saw-cut parameter, which means the saw circular discs mutual position, is PC-controlled through the control panel. Beneath the equipment frame there is a guiding way rail installed on which the round timber logs carriage moves. The guiding way rail consists of 3m long modules. The UPK 1000 is delivered with way lengths of 12m, 18m, 24m, eventually the ways can be extended by one more module, at least, up to the clients demand.

CONTROL PANEL

The double circular angular saw UPK 1000 is controlled through an advanced control panel.

Both, the horizontal and the vertical circular saw disks direction adjustment is carried out by OMRON control system. The carriage rightwards or leftwards movement and its speed as well is controlled through the controller continuously.

TECHNICAL DESCRIPTION

Round timber log minimal length	700 mm
Round timber log maximum length	12 000 mm
Round timber log optimum length	6 000 mm
Round timber log minimum diameter	100 mm
Round timber log maximum diameter	1 000 mm
Round timber log feed velocity control (mm/sec.)	0 – 1 000
Sawn slit (kerf) thickness and width accuracy	+/- 0,1 mm
Saw-blade circular disk diameter: horizontal	400 – 550 mm
Saw-blade circular disk diameter: vertical	400 – 600 mm
Maximal input power	44 kW
Height/Width/Length with ways	2 830/2 500/8 875 mm
Machine weight (18 m long version)	3 850 kg

MERITS OF UPK 1000

Due to the new technical solution, and the cutting method applied as well, using two mutually perpendicular and independent saw-blade circular disks, the double circular angular saw UPK 1000 has several benefits compared to any conventional wood cutting and shaping method:

Higher wood stock recovery rate by 10 – 20%, in average, is achieved either through high variability at timber logs cutting or by waste minimization as well.

Cutting variability – thanks to both, the vertical and the horizontal circular disk blades sliding ability it is possible to cut profiles of various dimensions from the round timber logs either by radial or tangential cuts without any necessity of stock turning by 90°.

Saw-cutting accuracy of +/- 0,1 mm is achieved by both the machine frame rigidity, and by carriage ways, used for timber logs fixation, accuracy as well. Both, the circular disks horizontal and vertical movements can be made by option with 0,1 mm accuracy.

High quality cut profiles surface treatment is achieved by high quality saw-blade circular disks use equipped with hard-metal cutting edge tool tips or by the help of planing blades use.

Over-sized round timber logs cutting with up to 1 000 mm diameter may be carried out thanks to the machine plant design.

Square timber production.

Quick cutting tools exchange – the horizontal disk is fixed to the 120 mm or 170 mm diameter clamping head by the help of eight countersunk screws. Its replacement takes about 10 min approx. The vertical disk is fixed between two clamping flanges with 120 or 150 mm diameter, and is locked by central nut.

Saw unpretentious installation – UPK 1000 does not require any high investment costs. Just it is necessary to anchor its foundation frame to a flat 30 cm thick, as a minimum, concrete surface with countersunk screws serving for machine plant ways establishment. The carriage trajectory is to be aligned by levelling equipment. The sawn profiles accuracy however will depend on the ways straightness.

Both, the saw-cutting principle used, and the machine design as well, are the patent document protected by Industrial Property Office of the Slovak Republic.



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OPERACNÝ PROGRAM
KONKURENCIESCHOPNOSŤ
A HOSPODÁRSKY RAST

Tento projekt sa realizuje s podporou
EURÓPSKEJ ÚNIE.
Európsky fond regionálneho rozvoja
Investícia do Vašej budúcnosti.

