optimax system OKS 500

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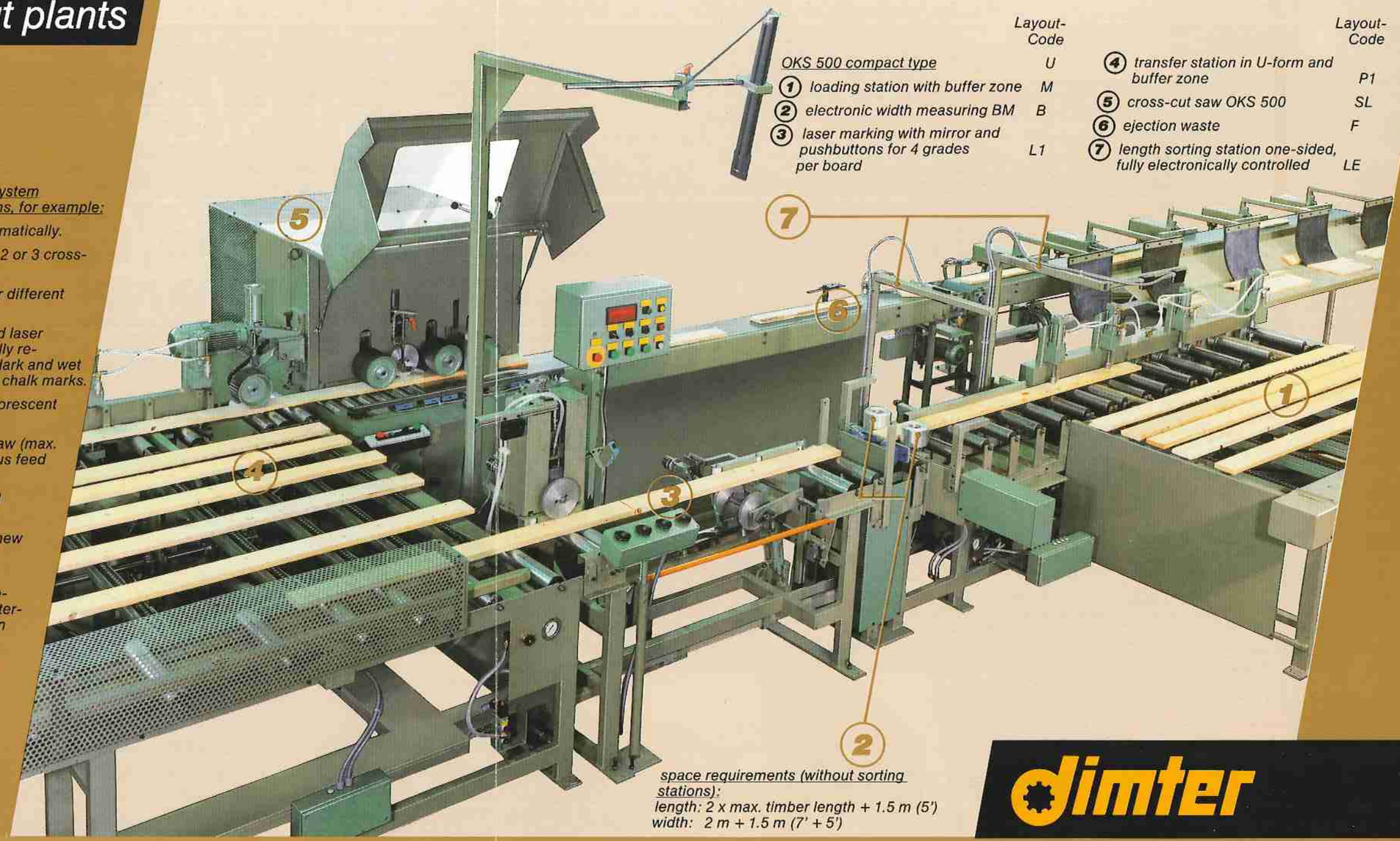
The system OKS 500

optimizing cross-cut plants

Tailor-made and in module-system many individual layout versions, for example:

- *destacking manually or automatically.*
- *central loading system for 1, 2 or 3 cross-cut stations.*
- *electronic width measuring for different cutting lists per board width.*
- *precision marking via all around laser beam (see front page), especially re-commended with rough-sawn, dark and wet timber surface and undersirable chalk marks.*
- *convential chalk marking with fluorescent camera (see front page).*
- *buffer zone in front of cross-cut saw (max. 5 board's memory), thus continuous feed into saw.*
- *cross-cut saw OKS 500 redesigned modified out of OKS 450.*
- *optimizing computer "Optimax" – a new generation of computers (details see special leaflet).*
- *length sorting stations, one- or double-sided ejection, up to 50 boxes, computer-controlled, free programmable, ejection positions infinitely adjustable.*
- *workflow in U-form or longitudinal form.*



	Layout-Code
OKS 500 compact type	*U*
(1) *loading station with buffer zone*	*M*
(2) *electronic width measuring BM*	*B*
(3) *laser marking with mirror and pushbuttons for 4 grades per board*	*L1*
(4) *transfer station in U-form and buffer zone*	*P1*
(5) *cross-cut saw OKS 500*	*SL*
(6) *ejection waste*	*F*
(7) *length sorting station one-sided, fully electronically controlled*	*LE*

space requirements (without sorting stations):
length: 2 x max. timber length + 1.5 m (5')
width: 2 m + 1.5 m (7' + 5')

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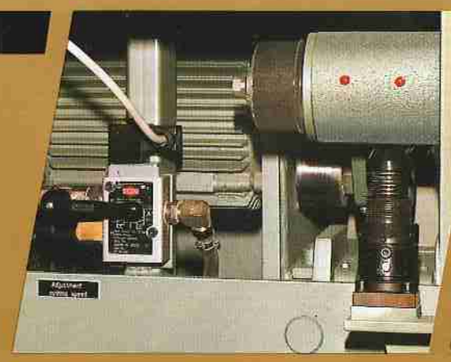
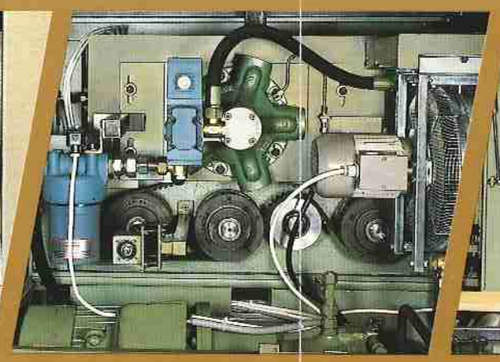
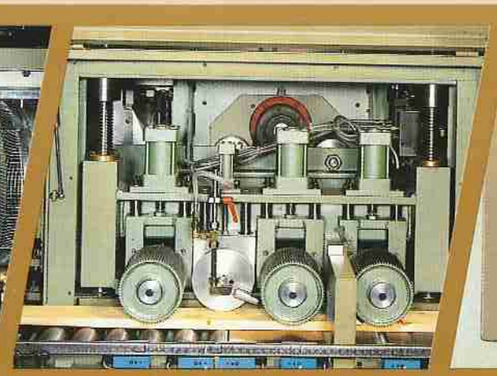
details:



1 *saw motor stationary saw blade travels: fast cut-off cycle – hydraulic shock absorber*



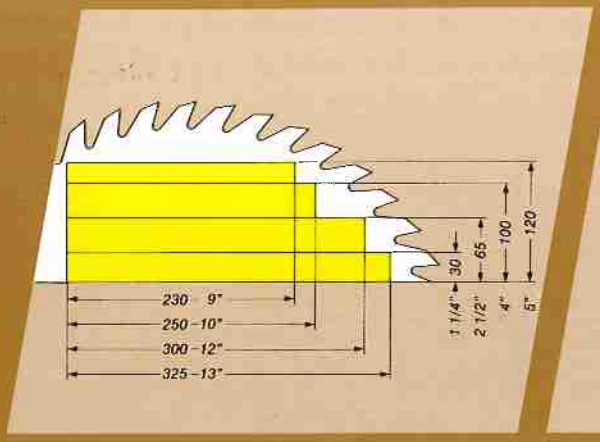
2 *fully hydraulic drive, nearly maintenance-free, computer-controlled hydraulic valve (precise board positioning)*



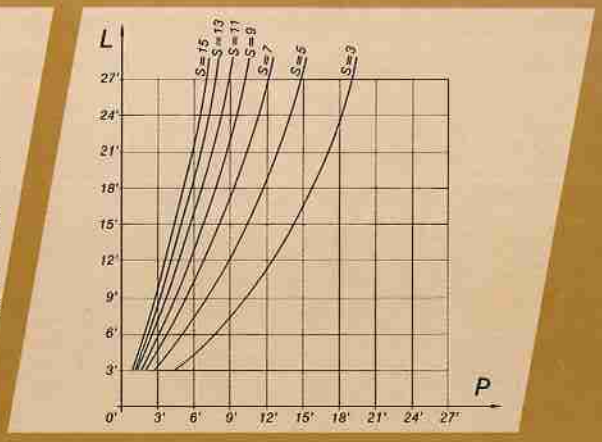
3 *feed rollers in front and after saw blade – exact fixed lengths, measuring wheel separated from drive rollers – no slipping – exact fixed lengths*

central height adjustment – quick resetting

4 *PC-machine control with fault diagnosis. Simple trouble shooting maintenance-free*



Cutting-Diagram for max. cross-section

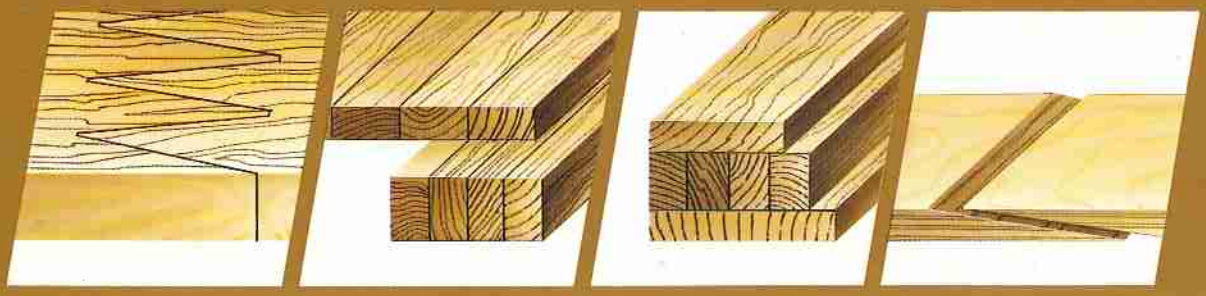


Performance-Diagram:
(*theoret. capacity at cut-off-saw)
S = Number of cuts per board
L = Length of ingoing board in feet
P = throughoutput in lin/min*

Technical data:

Saw blade diameter	500 mm (20")
Speed	4600 rpm.
Feed speed	130/min. (430'/min.)
Drive saw motor	7.5 kW (10 HP)
Drive hydraulics	7.5 kW (10 HP)
Braking, cut-off and acceleration	0.5 – 1 sec.
Cutting accuracy	+/– 1 mm (+/– 1/16") +/– 0,15% max.
Service pressure	8 bar (120 psi)
Exhaust diameter	120 mm (4 3/4")
Exhaust speed	28 – 30 m/sec. (92' – 98'/sec.)

The "DIMTER" supply program:



Finger jointing plants
Continuous, longitudinal gluing on DIMTER finger-jointing plants for all performance ranges (finger jointing allowable for structural members).
Finger jointing improves timber quality, allows any fixed-lengths and eliminates off-cuts and timber waste.

Edge gluing plants
DIMTER throughfeed edge gluing plants. DFU-system, enable gluing of parallel and conical boards into panels and allow the laminating of equal board widths.
Panel widths is up to 6 m.
Laminate length is up to 18 m (glue lam beams).

Laminating plants
DIMTER laminating plants utilize pre-heating and automatic feeding magazines for loading and unloading of press.
Block or profile shape as required.
Laminating plants with optimum timber utilization for production of windows and mouldings.

Scarfing plants
DIMTER scarfing plants produce "endless" particle boards and plywood panels.
DIMTER also solves your "waste problem".

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