



### ULMIA mitre box saws

The company's founder Georg Ott, inventor of the world renowned mitre box saw, constructed his first mitre box saw in the year 1877. Today, original ULMIA mitre box saws are in successful professional use in over 100 countries around the world. Despite many imitations over the past decades, workmanship and precision of ULMIA mitre box saws are without equal.

## The outstanding features of ULMIA



#### Saw table

Modern, solid and positive locking design, grey cast iron in a single piece milled for absolute angular accuracy. Featuring precise centring holes in the segmented arc for central momentary lock-in (momentary adjustment) for 90°, 45° (square), 36° (pentangle), 30° (hexagon) and 22.5° (ogtagon). Any other angle can be set using templates. The non-working surfaces are surface protected by a high-grade artificial resin paintwork finish (reseda green RAL 6011).



#### Pivot rail

Made of grey cast iron, pivot point fixed by steel rotary pivot bolts. The spring-mounted setting pawl with its conical centring bolt is used for central momentary lock-in for angular cuts at 90°, 45°, 36°, 30° and 22.5°. Two pressed-in nickel-plated pairs of round bars serving as guide rods guarantee precise, wear-free vertical guidance of the guide pushers.

#### Guide pushers / guide rings

Guide pushers made of glass fibre reinforced plastic (PPO) with deep precision slots for tidy, precise saw blade guidance. The nickel-plated steel guide rings can be readjusted in accordance with the saw blade wear. Their pressed-in plastic inlays guarantee precise, noiseless and wear-free guidance of the reinforcing tube. Glued-in rubber buffers on the outsides of the guide pusher guarantee elastic, noiseless stroke limitation. The suspension eyelet on the front guide pusher and the round notch on one front guide rod are used to suspend the buck saw when not being used so as to permit the stock to be arranged without impediment using both hands underneath the saw blade. Actuation takes place automatically when a cut is made.



#### Buck saw

Highly stable, proven design and construction comprising burnished tensioning rod, galvanized reinforcing tube, burnished saw arm, burnished tang and exchangeable ready-to-use saw blade (set and sharpened). Fast, convenient tensioning is made possible by a wing nut, saw handle made of die cast aluminium with ergonomically shaped plastic handle shells.



#### Length adjuster

Comprising a long and short adjusting rod, galvanized, with clamping element and stop plate in plastic. The length adjuster can be inserted alternately in the provided boreholes on the two face sides of the saw table and screwed into place.

#### Footboard

Made of solid steamed red beech with high grade varnish coating, with boreholes for fixture of the saw table. The footboard serves at the same time for clamping the mitre box saw between the bench dogs of a workbench or for tensioning using screw clamps on other work surfaces.

#### Important note

To achieve an absolutely precise angular cut, the buck saw should be guided downwards during sawing, particularly when making the initial sawing strokes, without exerting pressure and at the same time the stock pressed manually against back panel of the saw table. The reason that a clamping fixture has been dispensed with for the stock is that the repeatedly occurring warp of wooden profiles changes its original position as a result of being clamped. After sawing and releasing the clamp it returns to its original position, so that the resulting mitre angle is incorrect.



Before leaving the factory, every ULMIA-mitre box saw is subjected to a complete quality assurance inspection and tested at every angle position for the guaranteed cutting accuracy.