



# TECHNICAL DATA SHEET

## SK1PLO

**Modular and flexible composites and advanced technical material cutting solution**

### ► DESCRIPTION

SK1PLO is a perfectly scalable and flexible fully automatic single and low ply precision cutting solution. The state-of-the-art high end digital cutting centre with a very compact and modular design, offering highest process and growth flexibility based on an upgradable cutting machine and cutting tool concept. The cutting solution SK1PLO is available in different table sizes and system configurations as well as scalable and combinable with many different hardware and software peripherals.

- Modular and upgradable machine and cutting tool concept
- Very compact and ergonomical cutter design
- Flexible tool adapter with easy to operate fast tool change system
- Very simple and fast blade change with every cutting tool
- Fully IP67 fiber and dust protected controller and electronics
- Front and back touchless, sensor based operator safety system
- Fully PC controlled operation with no extra additional operating panel
- CE certified
- High and constant cutting speed and acceleration
- Maintenance and service friendly
- Low operating and maintenance costs
- Compatible to all major CAD data



### ► MAIN AREAS OF APPLICATION

- Composites and lightweight material (Prepreg or dry fabric, woven or non-woven, made of Carbon, Glass, Aramid, Basalt, Flax etc.)



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- Technical Textiles (Cloth, upholstery cloth, plastic foil, vinyl, sail cloth, insulation material, coated special textiles etc.)
- Industrial flat sheet material (Hybrid and multistructural material, sealing material, several foams, cardboard, coated material etc.)

### ► MAIN TYPES OF MATERIALS

- Dry Fibre Composites
- Thermoplastic or Thremoset (Resin) Prepreg Composites
- UD UniDirectional, Multiaxial, Woven, Non-Woven
- Technical Textiles, Fabric, Carpet
- Foam, Multistructural Material, Coated Material
- Honeycomb

### ► TECHNICAL DATA



SK1PLO-L with effective cutting window of 1'800mm x 1'900mm



SK1PLO-S with effective cutting window of 1'300mm x 1'900mm

### BASIC CONFIGURATION OF ALL CUTTER MODELS

- Digitally operated static cutting table with integrated controlled vacuum system
- Cutter controller with cutter operating software idWINGMAN
- Servo drive based 4-axis-control
- Single multifunctional tool adapter with 43mm fast changing system
- Positioning laser
- Cut data compatibility to DXF and optionally also HPGL, ISO, Gerber, Lectra

### EXTENDED CONFIGURATION OPTIONS FOR ALL CUTTER MODELS

- Second multifunctional tool adapter with 43mm fast tool changing system
- Conveyorized model for automatic material transport
- Integrated offload table extension with conveyor



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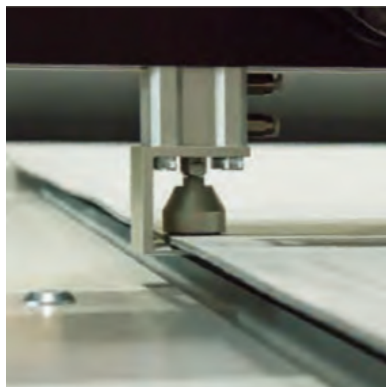
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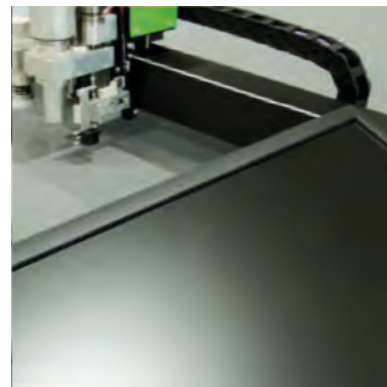
- Integrated PC screen holder with standard VESA mount
- Integrated IP67 19" touch based PC operation center
- Universal clamping tool holder for marking tools UTH



Twin Tool Adapter



Conveyor



Integrated touch PC



Universal Tool Holder UTH



Offload Table Extension

### CUTTING TOOLS FOR ALL CUTTER MODELS

- Tangentially controlled drag knife tool TKT
- Electrical driven rotary knife tool ERT
- Electrical driven oscillation tool EOT
- Multifunctional knife tool MKT

### MAIN OPERATING FIGURES OF ALL CUTTER MODELS

- Max cutting speed 1'500 mm/s
- Max positioning speed 2'000 mm/s
- Max acceleration 10 m/s<sup>2</sup> (1G)
- Positioning accuracy +/- 0,1mm



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### **SELECTED PERIPHERAL HARDWARE OPTIONS AND ACCESSORIES**

- Material roll support unit (manual or electrical)
- Label or inkjet printing/marketing solutions
- Laser projection system for cut part identification
- Fully automatic material handling solutions for ultra long marker cutting

### **SELECTED PERIPHERAL SOFTWARE SOLUTIONS**

- idPRECAM simple digital cut data generation and editing (CAD module)
- idCAMSUITE automatic nesting for material usage optimization (CAM module)
- idTUNESUITE solutions for job order processing (ERP module)
- DigiPen for simple and fast pattern digitalization

### **► INSTALLATION AND TRAINING**

Could be provided on request.

### **► NOTE**

Please contact us for more detailed information as well as for system development according to your technical specification.

Standard warranty period: 12 months.