

# SPREADING MACHINES

INNOVATIVE SPREADING TECHNOLOGY FOR PROFITABLE APPLICATIONS



**KURIS**

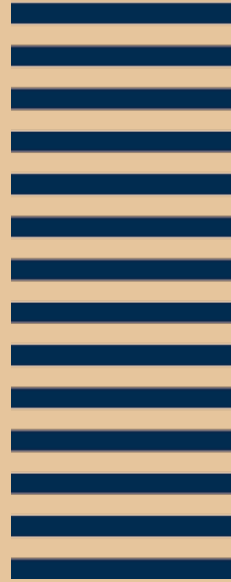
[www.kuris.de](http://www.kuris.de)

## Pionier Shuttle II und Shuttle II C

Spreading modes: One-Way, Zig-Zag and Tubular (fully- and semi-automatic), laid by pairs in the nap (semi-automatic)

### Standard features:

- fast-action cutter - only 1.2 sec.
- simple length adjustment with spread processor
- programming at the machine or externally (online operation)
- spreading of short plies
- 4 wheel drive
- high spreading performance achieved by high travel dynamics
- Travel diagrams programmable for different qualities of fabric
- easy servicing through compact design with trouble shooting system
- easy manual loading through compact low-installation height construction
- extremely low maintenance through long-life components
- very simple, ergonomic operation of the machine-minimal training required
- very suitable for spreading highly elastic fabrics



## PIONIER SHUTTLE II BAR



	1.68 m	1.83m / 1.98m / 2.13m / 2.28m
Working widths:	1.68 m	1.83m / 1.98m / 2.13m / 2.28m
Table widths (other widths on request):	1.85 m	2.00 m
Spreading speeds:	max. 100 m/min.	max. 100 m/min.
Spreading height:	max. 18 cm	max. 18 cm
Fabric roll dia.:	max. 40 cm	Option: max. 60 cm
Fabric roll weight:	100 kg	100 kg
Power requirement: (other voltages on request)	1,5- 2,0 kW 230 V AC, 50-60 Hz	1,5- 2,0 kW 230 V AC, 50-60 Hz
Weight of machine depending on working width and equipment:	from 290 kg	from 290 kg

## TECHNICAL DATA

## PIONIER SHUTTLE II C CRADLE



	1,98 m	2,13 m
Working widths:	1,98 m	2,13 m
Table widths (other widths on request):	2,15 m	2,30 m
Spreading speed:	max. 100 m/min.	max. 100 m/min.
Spreading height:	max. 18 cm	max. 18 cm
Fabric roll diameter:	Option max. 60 cm	Option max. 60 cm
Fabric roll weight:	Option max. 100 kg	Option max. 100 kg
Power requirement: (other voltages on request)	1,5- 2,0 kW 230 V AC, 50-60 Hz	1,5- 2,0 kW 230 V AC, 50-60 Hz
Weight of machine depending on working width an equipment:	from 290 kg	from 290 kg

## TECHNICAL DATA

## UNROLLING CRADLE



The unrolling cradle is available with either manual or electric lowering. A belt drive assures tension-free spreading. Fabric rolls can be easily loaded. The unrolling cradle is designed for fabric rolls of up to 400 mm dia. with 600 mm dia. available as an option.

### Cutting Unit

The width of the cutting unit is tailored to the customer's specification and is especially suitable for spreading short layers. Cutting is possible in both directions and the grinding device is integrated

### End-catcher

The moving end-catcher assures that the layer package can be cleanly and reliably arrested. For zig-zag folds, it is combined with a stationary end-catcher



## QUICK-LIFT 120

The Quick-Lift 120 makes the loading of the spreading machine with fabric bar easier and more efficient. It is available in two mounting versions:

- Mounting on the table
- Mounting behind the table

Fabric roll weight:	max. 120 kg
Fabric roll dia:	max. 60 cm
Total height:	2.28 m
Working width:	1.68 - 2.28 m
Power requirement:	2.2 / 1.1 kW
(other voltages on request)	230 / 400 V 3-phase, 50 Hz



## Pionier Professional

As a universal, competitively priced spreading machine, the Pionier Professional satisfies all the requirements of the apparel industry. Spreading modes: One-Way, Zig-Zag, Tubular (fully and semi-automatic), laid by pairs in the nap (semi-automatic)

### Standard features:

- fast and very simple threading with the Kuris threading aid
- easy to operate with ergonomic control panel with clearly arranged symbols
- Function control with LED display
- Program control via microprocessor
- clearly arranged, rugged construction
- fully synchronized 4-wheel drive
- spreading instructions programmable at control panel (option)
- Kuris-TDS for automatic minimization of fabric wastage during fault correction (option)
- turntable (option)

### Kuris-TDS = (Textile Defect System)

- fabric economy through automatic minimization of wastage
- better fabric utilization since no splice points necessary when making the marker
- reduction of fabric requirement through simple and precise assessment of flaws (ZOOM function)
- minimization of fabric waste by the patching method through indication of minimum size
- no cut-out of flaws located in waste or seam area and thus no fabric wastage
- lists for trimming of flawed parts
- statistical flaw evaluation protocol
- simple operation of system through menu technique also available in foreign languages

## Pionier Super Electronic

The cloth spreading machine with maximum spreading performance and maximum fabric economy:

- for the most exacting fabric qualities Option TFS (tension-free spreading)
  - for fault treatment Option TDS
- The new device for tension-free spreading = TFS is a guarantee for the economic processing of stretch-sensitive materials
- no tensile stress applied to material
  - automatically controlled fabric roll drive with contactless scanning of fabric reserve ensures constant fabric width
  - continuously motor-driven fabric roll avoids need for unrolling brake
  - no readjustment of preset roller
  - even transportation of fabric
  - excellent spreading results obtained with spreading surface for steadying the fabric
  - turntable (option)

Cutting is carried out in 0.4 sec. An excellent cut (Zackbox) is achieved even with sensitive materials and irrespective of the fabric quality and width. The cutting unit is patented

### TECHNICAL DATA

### PIONIER PROFESSIONAL

Working widths:	1.68 m	1.83 m
Table widths (other widths on request):	1.85 m	2.00 m
Spreading speed:	max. 100 m/min.	max. 100 m/min.
Spreading height:	bis 18 cm	max. 18 cm
Fabric roll dia:	40 cm	Option max. 60 cm
Fabric roll weight:	max. 120 kg depending on version	max. 120 kg depending on version
Power requirement: (other voltages on request)	1.0 kW, 380 V, 50 Hz	1.0 kW, 380 V, 50 Hz
Weight of machine depending on working width and equipment:	from 350 kg	from 350 kg



### TECHNICAL DATA

### PIONIER SUPER ELECTRONIC

Working widths:	1.68 m	1.83 m / 1.98m / 2.13 m
Table widths (other widths on request):	1.85 m	2.00 m / 2.15m / 2.30 m
Spreading speed:	max. 100 m/min.	max. 100 m/min.
Spreading height:	bis 20 cm	bis 20 cm
Fabric roll dia:	40 cm	Option max. 60 cm
Fabric roll weight:	max. 120 kg depending on version	max. 120 kg depending on version
Power requirement: (other voltages on request)	2.0 kW, 380 V, 50 Hz	2.0 kW, 380 V, 50 Hz
Weight of machine depending on working width and equipment:	from 390 kg	from 390 kg



### TECHNICAL DATA

### PIONIER-SPECIAL-KNITMASTER

The running gear – with 4 rubber wheels running on the table – has 4 lateral guidance rollers on the operator side. The drive is likewise identical to the Kuris Professional and is in the form of a tachometer-regulated DC PM-motor with a 4-quadrant controller.

This guarantees very high positional accuracy even during roll-load changes, thus assuring high-quality spreading with precise end-edges. The motor-driven unit elevator for the tubular fabric spreading unit is essential for a modern, user-friendly spreading machine. Motor operation is regulated by sensors. Automatic unit elevation takes place at both folder end-positions and can be steplessly and very sensitively adjusted at potentiometers. Extremely small steps can be programmed for reliable operation with a high end-edge accuracy, thus assuring high-quality spreading.

Working widths:	93 cm, 108 cm, 123 cm
Spreading speed:	max. ca. 80 m/min.
Spreading height:	max. 230 mm
End-edge accuracy depending on type of material:	2 mm
max. fabric roll dia:	ca. 60 cm
max. fabric roll weight:	ca. 80 kg
Length of platform:	as requested by customer
Shortest layer length:	ca. 0,8 m
Power requirement:	1 kW, 380V, 50/60 Hz
Weight:	approx. 150 kg



## Cross Cutter

### Fabric spreading and cutting unit

The Cross-Cutter is a user-friendly fabric spreading and cutting unit. It is especially suitable for professional use in the apparel industry, for home and house textiles, in the automobile supplier industry and in upholstered furniture manufacture.

## Cross-Cutter Automatic

- electric automatic cutting unit, automatic cutting device with direct drive of knife (no gearing) and very high knife speed.
- two cutting speeds
- clean cut, even with critical materials
- electrical lifting of the cutting unit with electronic lifting height adjustment
- electronically adjustable limits of cutting movement for different material widths
- electric layer counter
- easy raising of cloth rail by relief of weight (option)

- quick adjustment of cloth rail for simple alteration of spreading length (option)
- precise, right-angled lifting of cutting unit and cloth rail
- attachment of cutting unit and cloth rail only on the operator side
- only one machine-minder needed, depending on width of material
- simple operation with button control system
- excellent build-quality avoids damage during cutting operation
- version in compliance with German Electrical Engineering and Accident Prevention Regulations.

Short assembly time. The BOM 101 CC cutting unit is mounted in a profile rail. The cross-cutter is fitted with a stop device.

## Cross-Cutter Manual

The manual version of the Cross-Cutter has a cutting unit with vertical lift and a cloth rail with quick adjustment. Either the BOM 30 S or BOM 101 S cutting unit can be specified. The Cross-Cutter Manual is equipped with a mechanical layer-counter (option).

### CROSS-CUTTER AUTOMATIC

### TECHNICAL DATA

### CROSS-CUTTER MANUELL AMS



Working widths:	bis 1.68 m / 1.83 m / 1.98 m
Standard-table widths:	1.85 m / 2.00 m / 2.15 m / 2.20 m
Min. necessary table widths:	ca. 1.75 m / 1.90 m / 2.05 m
Max. table widths:	up to 2,4 m
Spreading height:	up to 20 cm
Power requirement:	0,7 kW, 220 V 50 Hz AC



## PRODUCT PROGRAM :

- Fully automatic cutting technology
- CAD Software solution
- Round knife cutting machines
- Straight knife cloth cutters
- Servo-Cutter-Automatic
- Bandknife cutting machines
- Manual, semi-automatic and fully automatic spreading machines
- Cutting and spreading tables
- Conveyor belt tables
- Special machinery fabrication



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