

CORIZON[®]

DATA SHEET



KEY CONCEPT OF CORIZON[®]

- production of knitted fabric with fibers directly from roving
- bundled parallel fibres around core filament
- air-jet nozzles winding fibres around parallel fibres
- feeding any kind of circular knitting machine with consistent delivery speed
- combination of different fibers and filament yarns
- fit for all brands of circular knitting machines



ECONOMICAL ADVANTAGES

- combination of two process steps (spinning and knitting) in one
- short lead-time
- more R&D potential inhouse
- flexibility with one machine only
- less warehousing
- savings in energy, space and material costs



FABRIC CHARACTERISTICS

- soft and smooth
- brilliant and even
- opaque and lightweight
- high comfort and less twist
- suitable for high quality prints
- excellent washing quality with low pilling and less fabric twist
- perfect elastane plating possible
- adjustable fabric weight for design and comfort

TECHNICAL SPECIFICATIONS



TYPES OF KNITTING MACHINES

- plain Single-Jersey machines
- Fine Rib and 2:1 Rib machines
- Interlock machines
- any brands and diameters up to 120 feeders
- gauge from E18 to E36



CORIZON MACHINE UNIT

- 48 to 120 feeders
- modular design extendable in steps of 12
- fully electronic controls via touch panel
- integrated monitoring process
- integrated fluff removal
- fully integrated fluff blow-off at spinning devices and core yarn feeding
- exact synchronization with circular knitting machine via own sin/cos encoder on the knitting machine
- circular knitting machine also operable in jog or hand-drive mode
- air pressure: minimum 4.0 bar
- air consumption: 18-29 l/min per spinning system
- air quality classes 1-4
- power consumption: 16 kW
- temperature: 24 °C to 32 °C / 75.2 °F to 89.6 °F
- relative humidity: 35 to 50 %



PRODUCTION EFFICIENCY

- delivery Speed up to 200m/min
- yarn range: Nm 50 / Ne 30 – Nm 120 / Ne 70 based on roving-count of Nm 1.5 / Ne 0.9



RAW MATERIAL SPECIFICATIONS

- Roving
 - natural, synthetics and blends
 - staple fibers up to 40 mm long
 - cotton as combed fiber
 - roving count from Nm 1.5
 - Casablanca type roving bobbin holder
 - bobbin diameter up to 180 mm, height up to 440 mm
- Filament
 - continuous filament
 - plain or texturized