Yarn design as machine concept

Infinitely adjustable process conditions as well as an up-to-date yarn path enable the optimisation of the closeness and stability of the intermingling of yarns, according to the specific requirements of the down-stream process.

The following features have been introduced with the DP3-C DIGICONE® preciflex™ machine concept:

- Optimized yarn path and package build-up
- Improved ability of drawing yarn
- Extended range of application
- New machine terminal with graphic touchscreen display

**Basic machine**

- Universal peg for supply packages with reserve position
- Thread monitor
- One infinitely variable programmable over-feed roller positioned **before** the air jet, which controls the tension of the yarn components during the aircovering process
- One infinitely variable programmable over-feed roller positioned **after** the air jet, to control the tension of the yarn during the winding process
- **Preciflex™** yarn laying system
- Individual speed control
- Tube holders for specified type of tube
- Pneumat. controlled back pressure system
- Machine terminal with:
  - touch-screen display
  - central input of the winding parameters per machine or per spindle
  - storing of the recipes
- Length measuring system

**Options**

- Elastane feeding device with step-less setting of the draft
- Additional overfeed device for drafting elastan or aircovering an additional yarn component
- Integrated two-ply or three-ply creeling with yarn sensor for each end
- Separate creel with up to four-ply creeling with reserve
- Kiss roll oiling device
- Air Jet
- Automatic full package changer «Doffing on the fly»
- Yarn path modification for untextured / inelastic yarns (flat yarns)
## Technical data DP3-C

**Types of winding**
DIGICONE® or precision

**Mechanical speed**
up to 1200 m/min (process speed depending on process parameters)

**Package shape**
freely programmable

**Take-up shape**
cylindrical tubes

**Traverse length**
100…250 mm infinitely variable

**Take-up package diameter**
up to 280 mm

**Package weight**
up to 10 kg

**Supply package diameter**
- 1-ply: up to 300 mm; 2-ply or 1-ply + stand-by: up to 240 mm; 3-ply: up to 200 mm
- up to 4 ends and stand-by: up to 440 mm

**Yarns**
filament yarns, Elastane

**Count**
up to 3300 dtex

**Layout**
single sided

**No. of spindles per section**
5

**No. of spindles min./max.**
min. 5 / max. 40

**Gauge**
440 mm

**Drive**
individually controlled electronic single drives

**Electrical power (basic power supply)**
400 V, 50 cycles, 3 phases, loadable neutral, ground

**Installed power**
500 W per spindle

**Power consumption**
approx. 180–250 W per spindle

**Compressed air / Process air requirement**
- for machine operating
  - Air installations is the responsibility of the machine user
- for air covering
  - 6 bar
- up to 10 bar for the jet

**Process air consumption**
depending on type of jet and process parameters, according indication of jet manufacturer