

# **Downstream solutions for artificial turf yarn**

Texturing, spiral wrapping  
and twisting





# Producing premium artificial turf

**STC Spinnzwirn's extrusion systems for monofilament yarn production are setting standards on the market. As a solution provider, we also provide the perfect downstream equipment for your specific artificial turf yarn requirements. Whether artificial grass for carpeting made of polypropylene, high-quality sports grass made from LLDPE or soft landscape grass – we have the right solution for you.**

## **Texturing**

Texturing solutions are available as inline or offline versions combined with automatic winders or combined with spiral wrapping and automatic winders for maximum flexibility.

## **Spiral wrapping**

Spiral wrapping solutions for artificial turf yarns is available as an inline process. The inline system means less waste, fewer operators and no interim storage of the packages.

## **Twisting**

Our two-for-one twisting machine type DD2000GTE is suitable for exceptional quality twisting and perfect high-speed precision winding of all types of multifilament and fibrillated tapes up to 20,000dtex. Its core competences: high package density and excellent performance in downstream processes.

Of course, our machines and systems ensure low energy consumption and low maintenance costs.

# Spiral wrapping solution for artificial turf yarns



## Special features

- Inline system with less waste
- Fewer operators
- No interim storage of the packages
- Spindle winding speed up to 11,000rpm
- Equipped with automatic precision winder (WinOro)

## WinOro features

- Monofilament : 8 x 550dtex up to 6 x 2,500dtex
- Wrapping yarn PES-DTY (draw-textured yarn)
- Number of spiral wraps: 30 up to 55 per meter
- Take-up speed: 70 up to 350m/min

## Options

- Transport belt solution for final bobbins

# Texturing solution for high-quality textured artificial turf yarn with spiral wrapping



## Special features

- Artificial turf monofilaments from LLDPE, PP, PA6 and PET
- Fibrillated LLDPE and PP tapes
- Maximum flexibility for textured and flat yarn on one machine (with integrated spiral wrapping spindle)
- Equipped with an automatic winders (WinOro)
- Lower air and energy consumption
- Central electrical system with cooling
- Low maintenance costs
- Texturing feed yarn speeds of up to 400m/min
- Variety of nozzle-inserts and -needles for very even texturing of any denier and material

## Options

- Unrolling system for offline texturing
- Transport belt solution for final bobbins



# DD2000GTE

## for twisted artificial turf yarn



### Special features

- Precision winding ATW take-up head with compensator bar
- Electronic gear with up to 32 crossing ratios adjustable during winding for excellent bobbin quality
- Transfer tail device for take-up head

### Arrangement

- Double-sided section with 2 spindles on each side, back-to-back (4 spindles in section)
- Max. 12 sections in one line
- Dimensions of one section: WxDxH 1600x2095x2268
- Spacing: 800mm
- Separate control of the two machine sides available

### Technical data

- Material/applications: Tapes for artificial turf and multi-end monofilament
- Denier range\*: 6,000 up to 16,000dtex
  - Spindle speed\*: 2,000 up to 6,000rpm
  - Turns per meter\*\*: 20 up to 150
  - Take-up speed\*: 70 up to 250m/min

\*max. values cannot be combined

\*\* depends on spindle speed and denier



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