

Twisting solutions

DD2000 &
DD2000GT



Features

Regardless of whether twisting standard multifilament yarn, tapes or even sensitive yarn – STC Spinnzwirn's DD 2000 series offers the right solution for any application. Exceptional quality, perfect for high-speed and precision winding, ultimately ensuring high package density and excellent performance in downstream processes, are the core competences of the DD2000 series.

Modular design, meter counter, individual control and drive systems per

position, central control system with "recipe" management and monitoring as well as a high degree of safety are just a few features of STC Spinnzwirn's twisting machines. Furthermore, all versions in the DD2000 series excel in terms of their long service life and low maintenance.

A broad range of materials can be processed, such as multifilament yarn made from PA, PES, PP, PE, aramid as well as fibrillated PP and PE tapes. The field of application reaches from

sewing yarn, technical textiles to artificial grass and baler twine. The two different versions available offer you the perfect machine for your specific requirements:

DD2000

The all-rounder, suitable for twisting and winding all types of multifilament.

DD2000GT

The "heavyweight", suitable for twisting and winding all heavy denier products.

Versions



Possible applications****	Machine type	Spindle Storage disc (d) / overflow ring (mm)	Pot inner diameter (mm)	Denier range (dtex)***	Max. package diameter (mm)*	Max. stroke (mm)	Max.# tube length (mm)	Inner tube diameter (mm)
Sewing yarn, jute replacement for bags and woven carpets	DD2000	135/245	318	2,200 – 6,600	300	260	300 300**	73 – 110 330**
Baler twine, artificial grass	DD2000GT	135/285	318 350	6,000 – 20,000 6,000 – 16,000	300	260	300	73 – 110
PP, PA, PES, aramid, PE	DD2000	190/285	275	550 – 3,300	250	260	300	73 – 110
			295	550 – 3,300	280	260	300	
			318	1,100 – 3,300	300	260	300	
			350	1,100 – 3,300	330	300**	330**	

* reduction of the max. package diameter by 40 mm, when using twisting flyer

** not to be combined with twisting flyer

*** allocation of the minimum and maximum values can vary due to the adjusted T/m

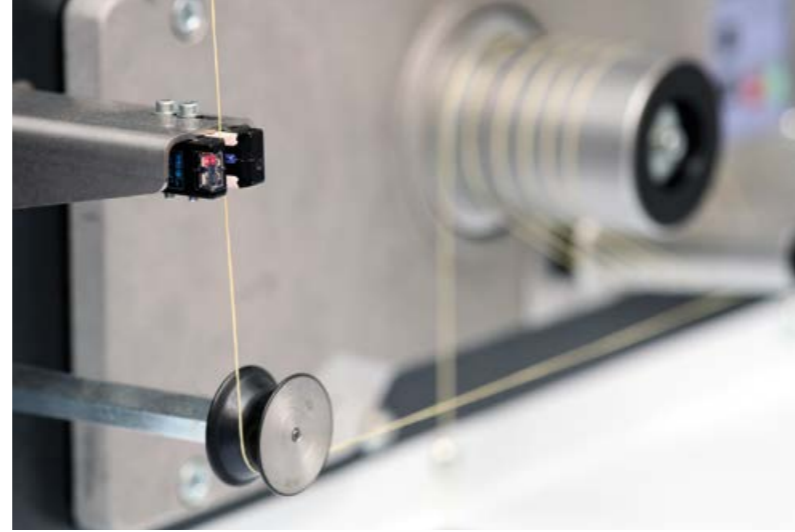
**** other applications on request

Take-up heads ATW / WinDuro

Stroke (mm)	Chuck Ø (mm)*	Max. tube length (mm)	Max. package Ø (mm)**
200	73/90/94	300	320
250	73/90/94	300	320
260	73/90/94	300	320
300	73/90/94	330	320

* other diameters on request

** max. values can only be obtained with an inner tube diameter > 90 mm



DD2000

for aramids

Special features

- Precision winding with WinDuro take-up head
- Optimized yarn path
- Electronic gear with up to 32 crossing ratios for take-up head available
- Transfer tail device for take-up head available

Arrangement and dimensions

- 1 double-sided section with 4 spindles each side back-to-back (8 spindles in total)
- Max. 12 sections in one line
- Dimension of one section: WxDxH 2400x1899x2232
- Spacing: 600 mm
- Separate control of the two machine sides available

Material	Aramid
Denier range*	550 up to 3,300 dtex
Spindle speed*	3,000 up to 7,500 (10,000) rpm
Turns per meter**	20 up to 150
Take-up speed*	150 up to 500 m/min

* max. values cannot be combined
 ** depends on spindle speed and denier

DD2000

for multifilament yarn and tapes

Special applications: sewing yarn and jute replacement

Special features

- Precision winding with WinDuro take-up head for multifilament yarn and ATW take-up head for tapes
- Electronic gear with up to 32 crossing ratios for take-up heads available
- Transfer tail device for take-up heads available
- Oiling device for sewing yarn
- Twisting flyer available

Arrangement

- 1 double-sided section with 4 spindles each side back-to-back (8 spindles in total)
- Max. 12 sections in one line
- Dimension of one section: WxDxH 2400x1899x2232
- Spacing: 600 mm
- Separate control of the two machine sides available

Material / application	PES, PP, PA, PE, CV, UHMWPE (single end or plied) and tapes	Jute replacement for woven carpets and bags
Denier range*	550 up to 6,600 dtex	1,000 up to 6,000 dtex
Spindle speed*	2,000 up to 7,500 (10,000) rpm	2,000 up to 7,500 (10,000) rpm
Turns per meter**	20 up to 150	20 up to 150
Take-up speed*	70 up to 500 m/min	70 up to 500 m/min

* max. values cannot be combined
 ** depends on spindle execution and denier



DD2000GT

for artificial grass

Special features

- Precision winding with ATW take-up head with compensator bar
- Electronic gear with up to 32 crossing ratios for take-up head available
- Transfer tail device for take-up head available

Arrangement

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

Material / application	Tapes for artificial grass
Denier range*	6,000 up to 16,000 dtex
Spindle speed*	2,000 up to 6,000 rpm
Turns per meter**	20 up to 150
Take-up speed*	70 up to 250 m/min

* max. values cannot be combined
 ** depends on spindle speed and denier

DD2000GT

for baler twine

Special features

- Tubeless precision winding with ATW take-up head with compensator bar
- High bobbin hardness for a high downstream process speed
- Winding with a yarn tension up to 2,000 cN
- Winding with a contact pressure of 10 up to 15 kg
- Electronic gear with up to 32 crossing ratios for take-up head available

Arrangement

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

Material / application	Fibrillated tapes for baler twine
Denier range*	6,000 up to 20,000 dtex
Spindle speed*	2,000 up to 6,000 rpm
Turns per meter**	20 up to 150
Take-up speed*	70 up to 250 m/min

* max. values cannot be combined
 ** depends on spindle speed and denier

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