

# TEXTURING



Sehr geehrter  
Kunde,

wir möchten  
Ihnen bei der  
Auswahl unserer  
Komponenten  
textiltechnologisch  
umfassend helfen.

Diese Unterlagen  
können das nicht;  
das können nur  
wir Mit-Arbeiter.

Sprechen Sie mit  
uns!

Dear Customer,

We would like to  
assist you with the  
correct selection  
of our  
components.

These documents  
can only provide  
general  
information,  
so we would be  
delighted to work  
with you.

Please contact  
BROELL for  
personalised  
service!

Apreciado  
Cliente,

Queremos  
ayudarle en la  
elección correcta  
de nuestra  
extensa gama de  
componentes de  
tecnología textil.

Estos documentos  
no pueden  
hacerlo;  
pero nuestros  
expertos en  
BROELL sí.

No duden en  
contactar con  
nosotros!

尊敬的客户，

我们非常乐意帮助你  
正确选择我们的纺织  
机械专件。

这些样本虽不能提供  
所有帮助；  
但是我们的技术团队  
则能提供这种帮助。

请与我们联系。



**conTEX** is the innovative development of a friction disc unit which combines the advantages of hard material discs and those of PU-discs - but eliminates their disadvantages.

The ceramic/light-metal combination of **conTEX** discs is trailblazing:

- very low CV-values - throughout the whole service life
- no glazing
- maximum safety
- no electrostatic charge
- the anti-adhesive surface of **conTEX** is self-cleaning.

High twist insertion, with extremely low surface roughness values, reduce snow generation to absolute minimum.

Reduced yarn and disc temperature allow very high delivery speed without wearing problems.

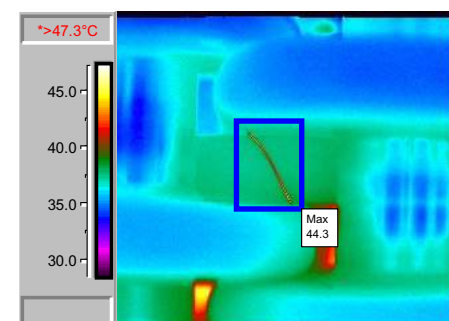
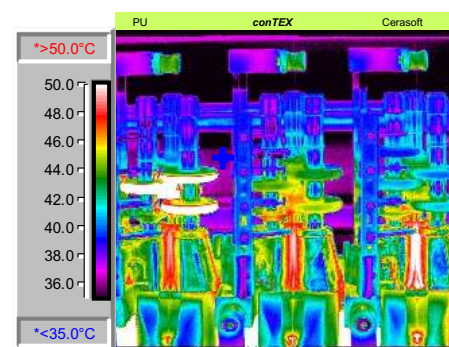
Suitable for all filament cross sections, textured with HT or conventional heating systems, as well as with forced cooling.

**conTEX** and **conTEX XL** will boost your texturing mill.

We will provide you with our technological support to find the best settings and optimum performance for **conTEX**.



designed to improve



let the yarn decide



**conTEX:** nanotechnology to improve friction texturing. A result of interdisciplinary research in textile technology, material and surface engineering.

**conTEX:** soft to the yarn as PU and wear resistant as white, solid ceramic.

**ConTEX:**

- self cleaning
- no snow generation
- very long service live
- suits all yarns

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# conTEX XL

the way to insert twist

## PES 76f24 set (automotive) - Barmag MPS HTI, Type 8 spindle

	PU	conTEX XL
DTY [dtex]	84	85
Stacking	1-4-1	1-5-1
Speed [m/min]	1000	1300
D/R	1.66	1.66
Unitens T2 [cN]	43	45
T2/T1	0.95	1.08
Tenacity [cN/tex]	42.5	42.4
Elongation [%]	22.4	22.0
Crimp [%]	20	20
Snow	no	no
Dye Affinity	ok	ok

### Calculation of profit:

- increased production per spindle and day due to higher speed 3.28 kg
- assumed production cost at 1000 m/min (without material) 1.2 EUR/kg
- saved amount due to increased production 3.28 kg x 1.2 EUR/kg= 3.93 EUR
- invest for **conTEX** set 1-5-1 (TD-WD-BD and spacer) 95 EUR/spindle
- **amortization 25 days**

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# conTEX XL

the way to insert twist

## PES 180f48 set

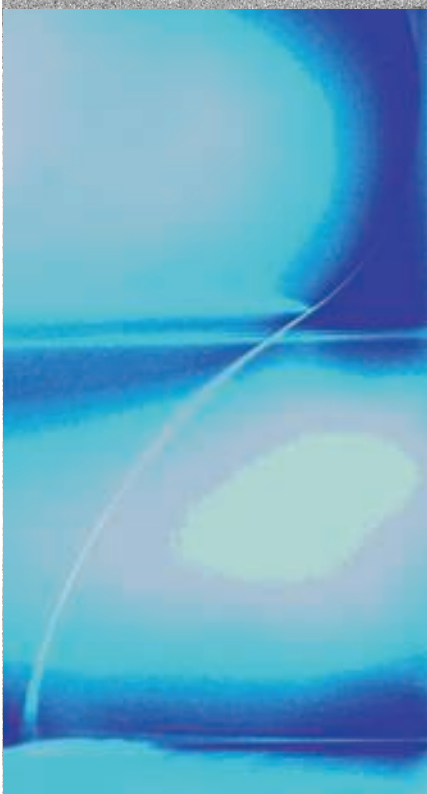
	PU (Temco)	conTEX XL
DTY [dtex]	182.5	183.1
Stacking	1-5-1	1-6-1
Speed [m/min]	900	1100*)
Unitens T2 [cN]	61.0	77.0
T2:T1	0.86	1.24
Tenacity [cN/tex]	34.0	34.8
Elongation [%]	19.9	22.5
Crimp [%]	14.7	14.7
Snow	low	low
exp. Life time (months)	6	>24

## Barmag AFK1 single driven, Type 8 spindle

\*) AFK1 performance close to the limits

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# conTEX

the way to insert twist

## PA6 50f34

	NiD	conTEX
DTY [dtex]	49.5	50.0
stacking	1-6-1	1-6-1
Speed [m/min]	550	550
T2 [cN]	19.8	20.3
T2/T1	1.11	1.15
Tenacity [g/den]	4.3	4.4
Elongation [%]	25	29
Dye affinity	o.k.	o.k.

## AFK-1

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# conTEX

the way to insert twist

## PA6 70f72

	PU 6 mm	conTEX 6 mm
DTY [dtex]	69.4	69.0
stacking	1-5-1	1-7-1
Speed [m/min]	600	600
T2 [cN]	30.3	37.0
T2/T1	0.7	1.2
Tenacity [g/den]	5.1	5.1
Elongation [%]	26	27
T.R. Crimp [%]	7.7	9.4
Dye affinity	o.k.	o.k.

## FK6M-80

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# conTEX

the way to insert twist

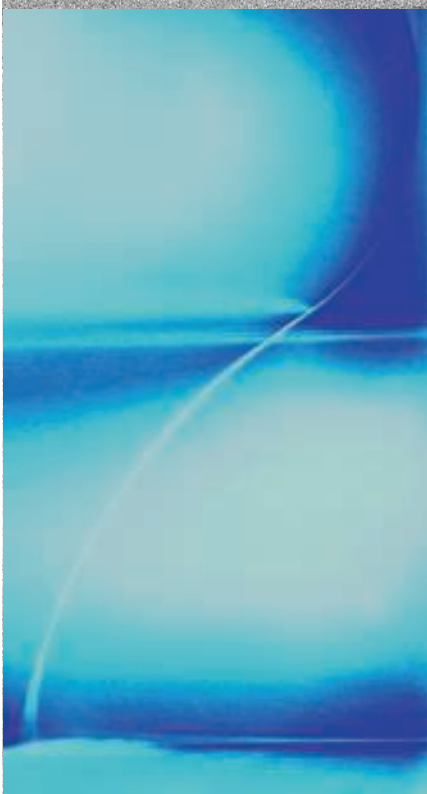
## PA 6.6 75f24

	Ceramic 6mm	ConTEX 9mm
DTY [dtex]	73.0	72.7
stacking	1-7-1	1-6-1
Speed [m/min]	700	700
T2 [cN]	35	32
T2/T1	1.1	0.84
Tenacity [g/den]	5.4	6.1
Elongation [%]	30.6	35.8
T.R. Crimp [%]	26.1	27.7
Dye affinity	o.k.	o.k.

## FK6M-80

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# conTEX

the way to insert twist

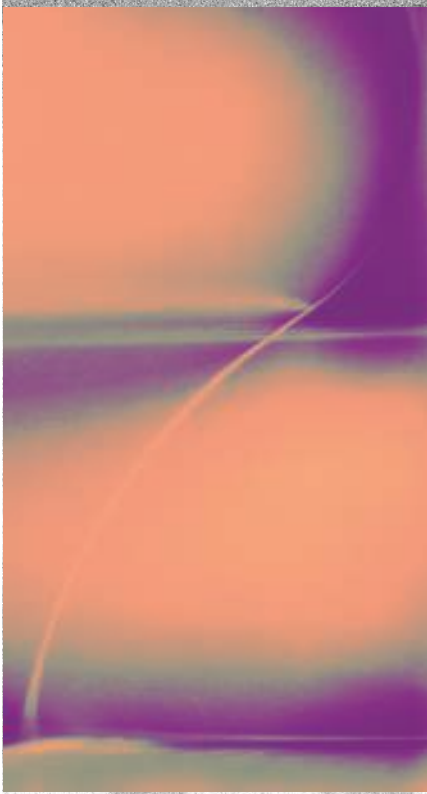
## PES 70 f 144

	PU	conTEX
DTY [dtex]	80.3	<b>80.2</b>
stacking	1-5-1	<b>1-7-1</b>
Speed [m/min]	500	<b>500</b>
T2 [cN]	20.0	<b>20.0</b>
T2/T1	0.68	<b>0.73</b>
Tenacity [cN/tex]	34.2	<b>34.8</b>
Elongation [%]	26.7	<b>28.1</b>
T.R. Crimp [%]	8.1	<b>8.2</b>
Broken Filament	not tolerable	<b>tolerable</b>
Dye affinity	not o.k.	<b>o.k.</b>

## AFK-1 HT

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# conTEX

the way to insert twist

## PES 65 f 204

	PU	conTEX
DTY [dtex]	68.6	68.9
stacking	1-6-1	1-7-1
Speed [m/min]	650	650
T2 [cN]	18.0	18.0
T2/T1	0.58	0.60
Tenacity [cN/tex]	42	40
Elongation [%]	21.6	20.7
T.R. Crimp [%]	8.1	8.2
Broken Filament	no	no
exp. life time [months]	6 - 12	> 24

## TMT ATF 12 F/V

let the yarn decide

