

Stretching Beyond



creora[®]
Denim


creora[®]
it's in our every fiber

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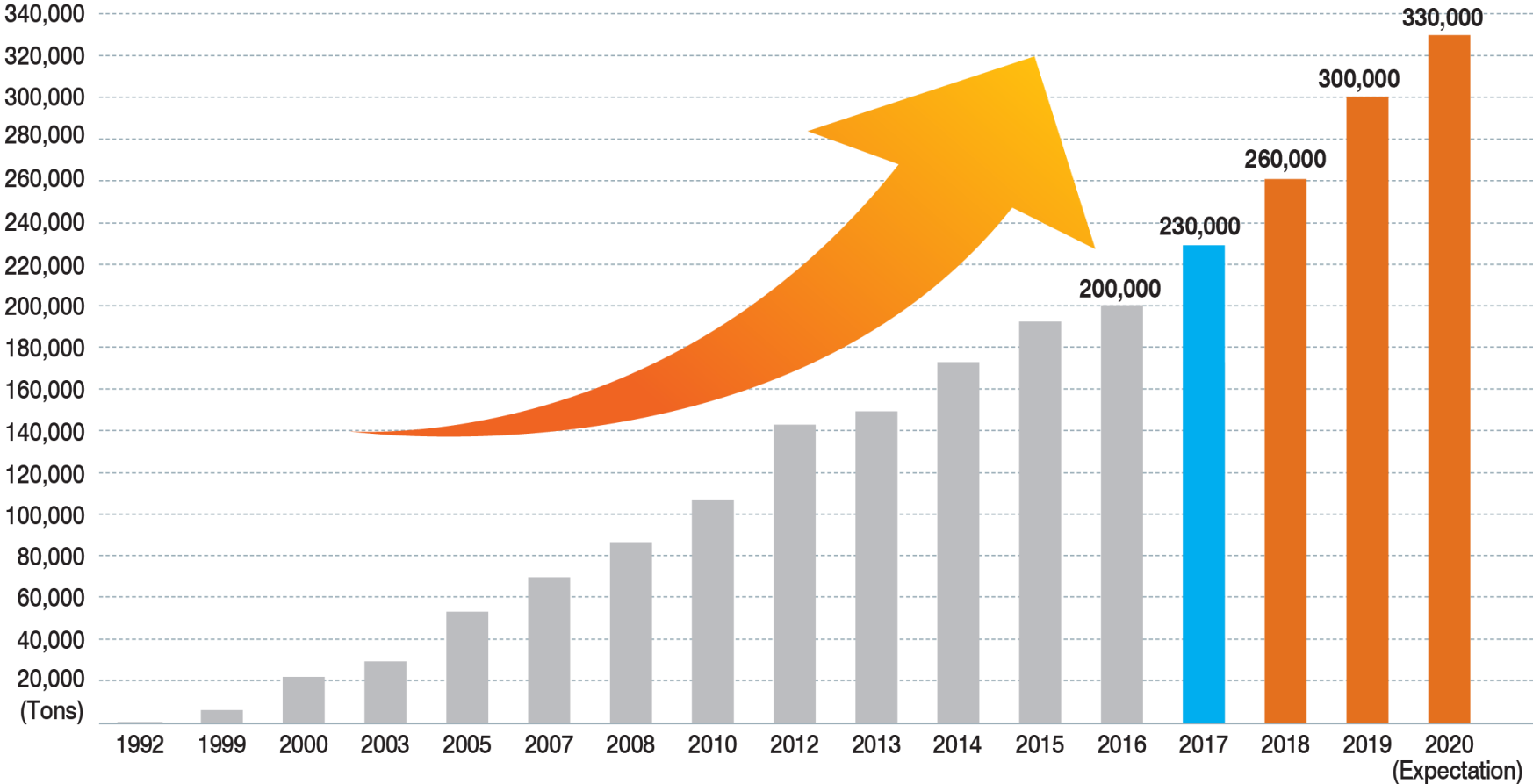
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 **HYOSUNG**

8 production sites, 40 sales & marketing offices
linking all continents



creora® capacity & expansion plan by 2020



"The largest & fastest growing global leading spandex/elastane producer"

creora® Offerings for Denim

PowerFit

*Optimum stretch performance
with chorine resistance*

- Feel the Power in fine den.
- Monitoring yarn breakage



eco-soft

*Superior setting
performance with stretch*

- Easy settable with stretch
- Energy saving



Fit²

*Extra comfort & perfect
silhouette from 360° stretch*

- Great stretch with low shrinkage
- Clean look with great productivity



aerolight

*Keep Fresh
with lightweight*

- Super quick wicking
- Light weight

askin MIPAN aqua·X

*Keep Cool
with Comfort*

- Cool touch & UV cut
- Quick Absorption and Fast Drying



robic MIPAN

*Keep Your Style
In Durability*

- Excellent Tenacity
- Superior Resistance in Tears

“Great Stretch & Recovery”

Value (creora span의 강력스판 버전)

- **Higher power(강한 스판력)**
 - Superior shaping and compression
 - **Higher heat resistance(내 고온성)**
 - maintain stretch denim fabric power even setting at high temperature
 - **Chlorine & bleach resistance(내 염소성)**
-
- Fluorescence Power Fit prevent spandex missing & de-centralizing in CSY
 - ▶ CSY process: Minimize defect of core spun yarn
 - ▶ Fabrics : Prevent from puckering & width problem
 - ▶ Garments : Minimize quality problem in garment



[Offerings(de)]

20, 30, 40, 50, 55, 70, 80, 90,...



[spandex under UV light]

샘플CODE	CODE	WASING	WEIGHT (OZ)		50*50		사용폭	요척		샘플CODE	CODE	WASING	WEIGHT (OZ)		50*50		사용폭	요척	H&I차이	
			B.W(전)	A.F(후)	Warp	Weft							M	yd	B.W(전)	A.F(후)			Warp	Weft
ZY7080	H350	노말	9.98	12.79	2.5	17	1.45	1.1		TH0001	INVISTA	노말	9.97	12.69	3.5	16.5	1.46	1.1	-0.5	-0.1
		D톤	9.98	13.33	7.3	21.5	1.45	1.15				D톤	9.97	13.46	6	21	1.46	1.15	-0.5	0.13
		M톤	9.98	13.27	4	20.6	1.45	1.1				M톤	9.97	13.24	5.6	22.5	1.46	1.15	1.9	-0.03
	T7080	L톤	9.98	13.01	7.5	21.5	1.45	1.15			L톤	9.97	13.26	6.5	22.4	1.46	1.15	0.9	0.25	
		아이스	9.98	13.1	7	21.8	1.45	1.15			아이스	9.97	13.16	5.5	22	1.46	1.15	0.2	0.06	
		M톤+틴	9.98	13.13	6.5	22.5	1.45	1.15			M톤+틴	9.97	13.27	7	22.5	1.46	1.15	0	0.14	
		M톤+엠보	9.98	13.37	4.8	21.5	1.45	1.15			M톤+엠보	9.97	13.47	6.3	22.6	1.46	1.15	1.1	0.1	
		스노우	9.98	13.44	4.5	22.5	1.45	1.15			스노우	9.97	13.56	6.3	23.8	1.46	1.15	1.3	0.12	
		곰팡이	9.98	12.67	7	20	1.45	1.15			곰팡이	9.97	13.48	8	24	1.46	1.15	4	0.81	

가먼트상 동일 테스트를 통한 워싱변화율 확인결과.

T7080은 creora 8s151은 invista의 lycra 둘다 동일한 70D SPANDEX

Intertek 검사. 2개의 공장에서 각각 실부터 후가공까지 완전 동일하게 생산한 결과



WARP		12'S			
WEFT (DR3.5) 12SB+70D		JUBO		WANTAI	
		T7080	8S151	T7080	8S151
stretch	WARP				
	WEFT	49.1	47.6	50.9	51.5
growth	WARP				
	WEFT	7.9	7.9	7.8	8
shrinkage	WARP	1.7	2.9	2.3	1.7
	WEFT	3.7	3.4	2.9	3.7
recovery	WEFT	84.2	83.9	85	84.8



[Offerings(de)]

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“Best solution for ultra stretch with great growth”

Mill name	Country	Item	Yarn	Stretch	Growth	Recovery	Shrinkage
A company	Korea	Ultra stretch	16'S + 105de	79.2%	5.2%	92.3%	-
B company	Korea	Ultra stretch	16'S + 105de	68.2%	4.5%	92.3%	-10.4%
C company	Turkey	Ultra stretch	16'S PES/CTN +105de	100%	5~6%	-	-15~20%
D company	India	Ultra stretch	20'S + 105de	50.3%	3.1%	92.8%	-
E company	Indonesia	Ultra stretch	T/C 16/105de	55%	5%	96%	-16.7%

* Test method: ASTM D3107 after wash used tension 4lb

“Make your product competitive with better productivity & price than dual core”

Value

- **Extra ordinary comfort & Perfect silhouette**
 - Second skin fit & extra comfort from 360° stretch
 - Perfect silhouette with great warp stretch
- **Best Quality**
 - Great stretch with low warp shrinkage (prevent puckering at sewing part)
 - More clean look preventing defect (white spot) on the warp that is occurred when using dual core product
- **Cost saving**
 - Affordable and providing easy splicing, making bigger bobbin than dual core product

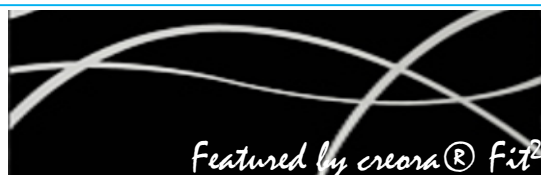


Features in warp direction

Cotton 10's – 20's creora® eco-soft 40de – 70de

- Stretch from 15% to 40% (bi-component yarn has max. 15%)
- Shrinkage under 10%

This data is based on ASTM D3107:2011, AATCC 135:2012 method (applied load:5lb). It may be different as per process condition.



- We can make co-hangtag for your collection with creora® Fit²

“Always Flattering Fit”

[3D scan after movement by Hohenstein]

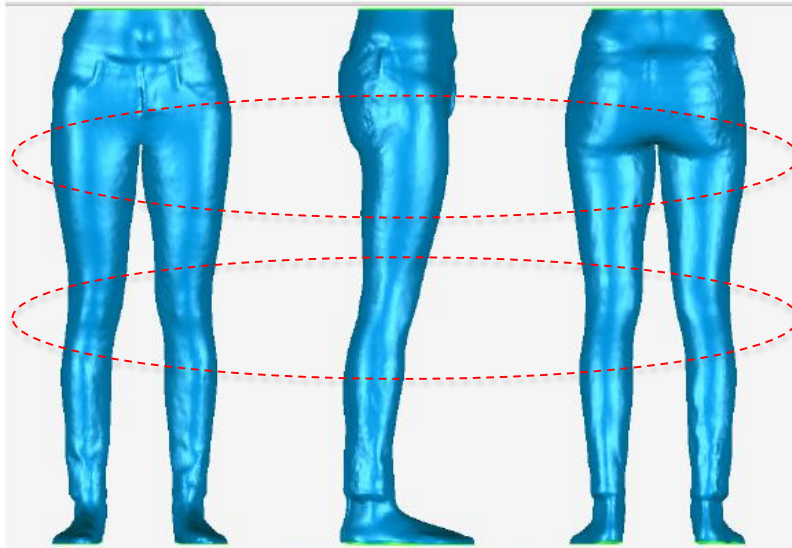


Image 3: front, side and back view

Bi-stretch jean (Fit²)

VS

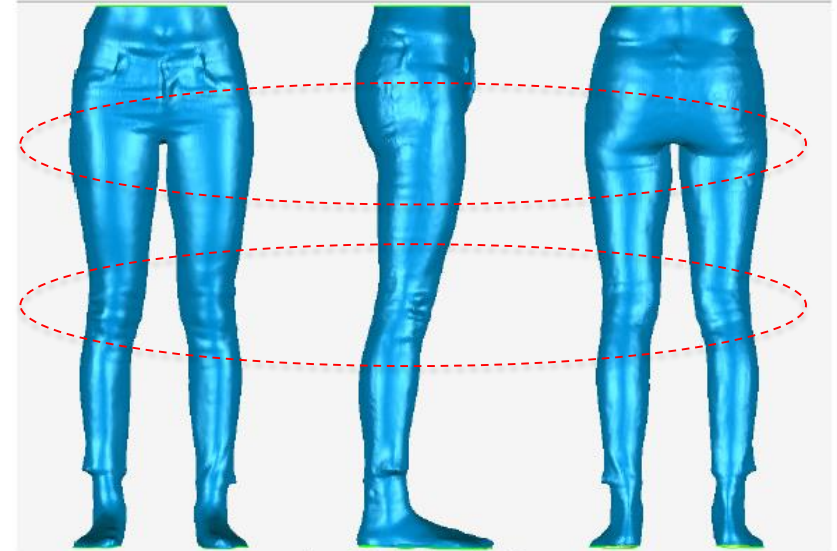


Image 7: front, side and back view

Ultra stretch jean (weft stretch only)



Bi-stretch

Weft only

“Stay sleek & slick
without wrinkles”