# SLINGSHOT

KEY BENEFITS:

ZONAL STRETCH, 3D CONCEPT

**TYPE**Flat Knit

PATENT LANDSCAPE

Crowded: Must consult legal (patent team) when developing to review product features

#### DESIGN

OPPORTUNITY
Opportunity for yarn, knit structure & shape development

COLOR
6-8 Colors Max

ZONAL FIT
YES, Highly Customizable

DETAIL
High Visual Detail

SHAPE TO LAST
Pre-shape, good fit after steaming, opportunity to explore steaming on last, finished knit

components

# MATERIALS

YARN TYPE

2/150/144 double covered 280D
elastane. 70/10 Nylon hot melt,
440D Dyneema

Parn Dyed

YARN LEAD TIME

Depends On The Availability.
Dyneema - 120 Days Delivery
Sample Cover Yarn Poly Or Nylon - 25 Days
Production Cover Yarn Poly Or Nylon - 60 Days

#### BUSINESS/SOURCING

PARTNER	Chemtax
LOCATION	Hong Kong
UPPER COST PER PR	\$5 - \$13 (design dependant)
PRODUCTION LEAD TIME	90 - 120 Days
SAMPLE LEAD TIME	7 days for an accurate sample. A sample to show an idea will take only 2-3 days.
DESIGN LEAD TIME	2-3 Days
ITERATION LEAD TIME	2-3 Days
ISSUES TO BE AWARE	High level of complexity based on pattern and yarn selection

# SMARTWEAVE

KEY BENEFITS:

REFINED DETAIL, DURABILITY

**TYPE** 

Woven Jacquard

PATENT LANDSCAPE

Low Risk (evaluation ongoing as footwear developed)

# DESIGN

OPPORTUNITY	Zonal design, highly detailed graphic creating both an intuitive fit story and dynamic visual.
COLOR	3 or 4 colors. Piece dying is not an option.
ZONAL FIT	Yes, Highly Customizable
DETAIL	High Visual Detail
SHAPE TO LAST	Flat Patterened, Die Cut Upper

# MATERIALS

YARN TYPE	The warp yarn is fixed to 150D polyester and there are two colors in black warp beam for dark color and two colors in a white warp beam for light color. The weft yarn is mixed 300D and 600D polyester / TPU. They currently have polyester options in bright and mélange as well.
DYE TYPE	Yarn Dyed

YARN LEAD TIME Polyester, 2 weeks ; TPU, 3 weeks

# BUSINESS/SOURCING

PARTNER	Dong-A TEC
LOCATION	Korea
UPPER COST PER PR	\$26/ YD 60" or \$30/YD 60" TPU% dependant
PRODUCTION LEAD TIME	3-4 Weeks
SAMPLE LEAD TIME	3 Weeks
DESIGN LEAD TIME	2-3 Days
ITERATION LEAD TIME	1-2 Days
ISSUES TO BE AWARE	Fraying, Seam Slippage

# SPEEDKNIT

KEY BENEFITS: MOBILITY, EFFICIENCY

**TYPE**Circular Knit Jacquard

PATENT LANDSCAPE

Crowded: Must consult legal (patent team) when developing to review product features

# DESIGN

OPPORTUNITY

Use yarn plaiting for twist looks, knit constructions, structures and textures. Zonal design application.

COLOR

4 Colors Max

ZONAL FIT

YES

DETAIL

High Visual Detail

SHAPE TO LAST

Flat Patterened, Die Cut Upper

#### MATERIALS

YARN TYPE

Up to 450 D (18gg machines)

DYE TYPE

Yarn or Piece Dyed

YARN LEAD TIME

7-21 Days

#### BUSINESS/SOURCING

PARTNER	Tong Siang / You Young / DongJin
LOCATION	Thailand / Korea
UPPER COST PER PR	\$2-6.00 (design dependant)
PRODUCTION LEAD TIME	60 Days
SAMPLE LEAD TIME	35 Days
DESIGN LEAD TIME	7 Days
ITERATION LEAD TIME	7 Days
ISSUES TO BE AWARE	Fraying, Seam Slippage

# PARACORD

KEY BENEFITS: STABILITY, STRENGTH

TYPE
Stitchbonding

PATENT LANDSCAPE

Low Risk (evaluation ongoing as footwear developed)

# DESIGN

OPPORTUNITY	Design is locked. Maximum width 40cm.
COLOR	1-17 colors w/ high MOQ (No MOQ for Silver or Black
ZONAL FIT	NO
DETAIL	Subtle Visual Detail
SHAPE TO LAST	Flat Patterened, Die Cut Upper

# MATERIALS

TYPE

Braided Cords

Yarn Dyed

YARN LEAD TIME

10 days to yarn dye + 15-17 days to produce cording

# BUSINESS/SOURCING

PARTNER	Kaesheng
LOCATION	Taiwan
UPPER COST PER PR	\$7.16/Yx35cm
PRODUCTION LEAD TIME	45 Days
SAMPLE LEAD TIME	21 Days
DESIGN LEAD TIME	Set Design
ITERATION LEAD TIME	2 Weeks
ISSUES TO BE AWARE	Pattern engineer should designate the width for the best yield per component pattern

# WARPSPEED

KEY BENEFITS:

CUSTOMIZED VISUAL, BREATHABILITY

TYPE

Engineered Warp Knit

PATENT LANDSCAPE

Low Risk (evaluation ongoing as footwear developed)

# DESIGN

OPPORTUNITYZonal structure placement, vendors have stucture inspiration toolsCOLOR2 Color. Heathe looks available.ZONAL FITYESDETAILSubtle Visual DetailSHAPE TO LASTFlat Patterened, Die Cut Upper

#### MATERIALS

YARN LEAD TIME

YARN TYPE

Yarn type depends on the color combination and stretchability, for stretchable materials contains spandex. For two tone materials, it is a poly + nylon composition. They also have a collection that is heavier denier heathered called 'rough knitting'

DYE TYPE

Piece Dyed

#### BUSINESS/SOURCING

15-20 Days

**PARTNER** Hua Feng LOCATION China **UPPER COST** \$4-5 PER PR **PRODUCTION** 30-45 days, Needs to have forecast 25 days **LEAD TIME** prior to actual PO SAMPLE LEAD 18 Days TIME **DESIGN LEAD** 2 Days TIME **ITERATION** 2 Weeks LEAD TIME **ISSUES TO** Matching position variation (tolerance is +/-3mm), There will be thickness difference **BE AWARE** between N-P version and P-N version, For two tone color or fluo colors, cannot reach the shiny color yet maintain the physical property

# THREADBORNE (ORIGINAL)

KEY BENEFITS:

LIGHTWEIGHT, PRECISION

**TYPE**Embroidered

PATENT LANDSCAPE

Low Risk (evaluation ongoing as footwear developed)

# DESIGN

OPPORTUNITYEmbroider in any direction, Inclusion of structures and parts, Open and closed structures possibleCOLOR12 colors on Tajima machineZONAL FITOpportunity to explore stretch threadDETAILHigh Functional Visual DetailSHAPE TO LASTFlat patterned not shaped, potential to use TPU and PU thread to allow post process shaping or traditional manufacturing techniques

# MATERIALS

YARN TYPE

Many thread types limited by needle size

Yarn Dyed

YARN LEAD TIME

14 days for basic yarn 24 to 30 days for novelty

# BUSINESS/SOURCING

PARTNER	Coats / ASI / YY
LOCATION	China
UPPER COST PER PR	\$6 (extremely design dependant)
PRODUCTION LEAD TIME	Design dependant and quatity dependant, a 55k stitches upper, the cycle time is 120 minutes for 10 pairs
SAMPLE LEAD TIME	2 Weeks
DESIGN LEAD TIME	1 week to digitize the program
ITERATION LEAD TIME	Quality dependant, will be within a week
ISSUES TO BE AWARE	Capacity concerns. Each iteration demands physical property testing