



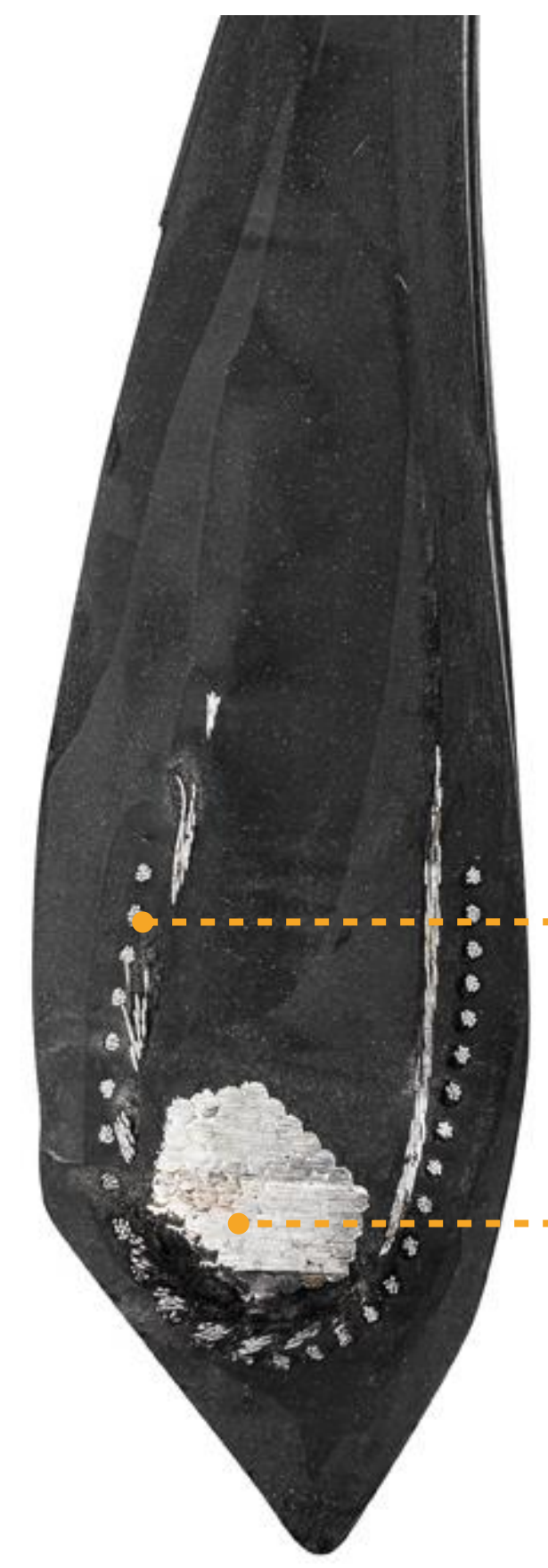
# THE STA CASING ADVANTAGE

## CASING CROSS SECTIONS

# BEAD

Looking for consistent shape, full size, no gaps

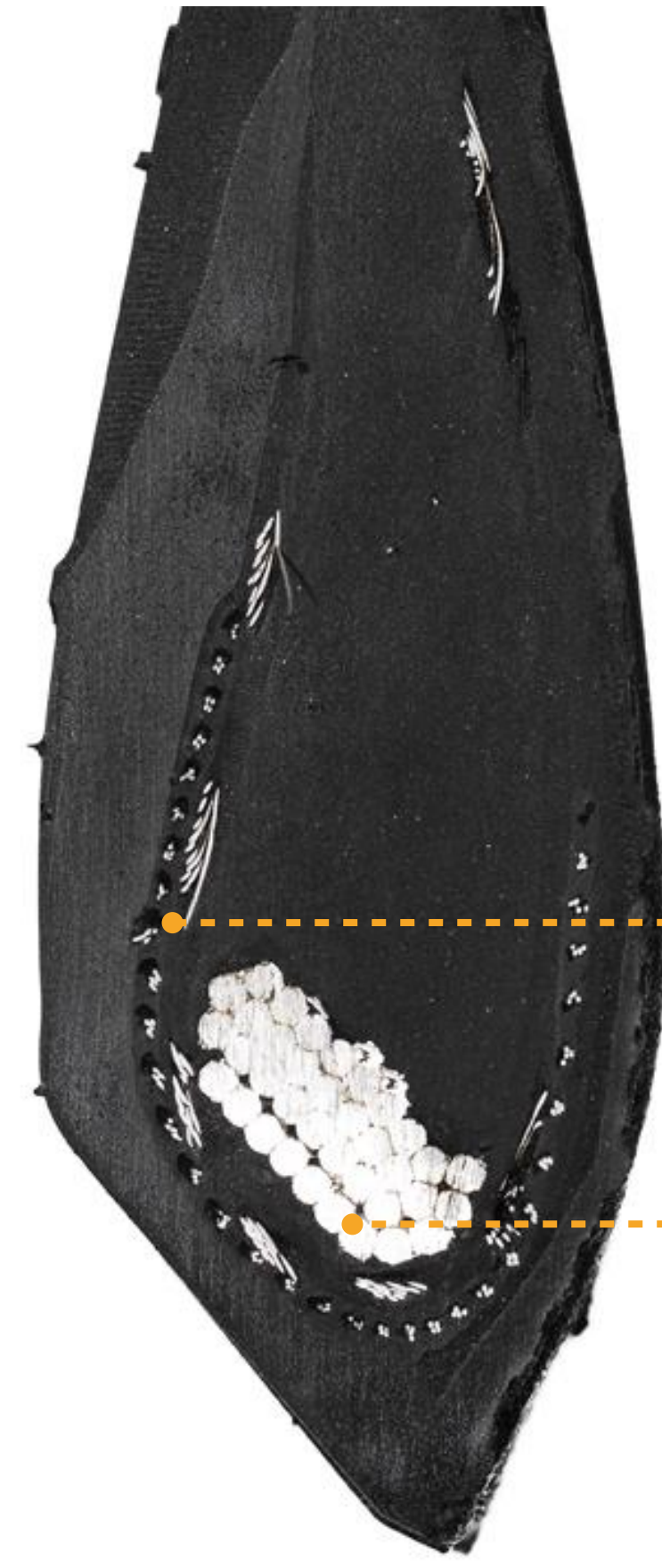
## IRONHEAD IDL290



No trapped air around steel cord

Solid, no gaps

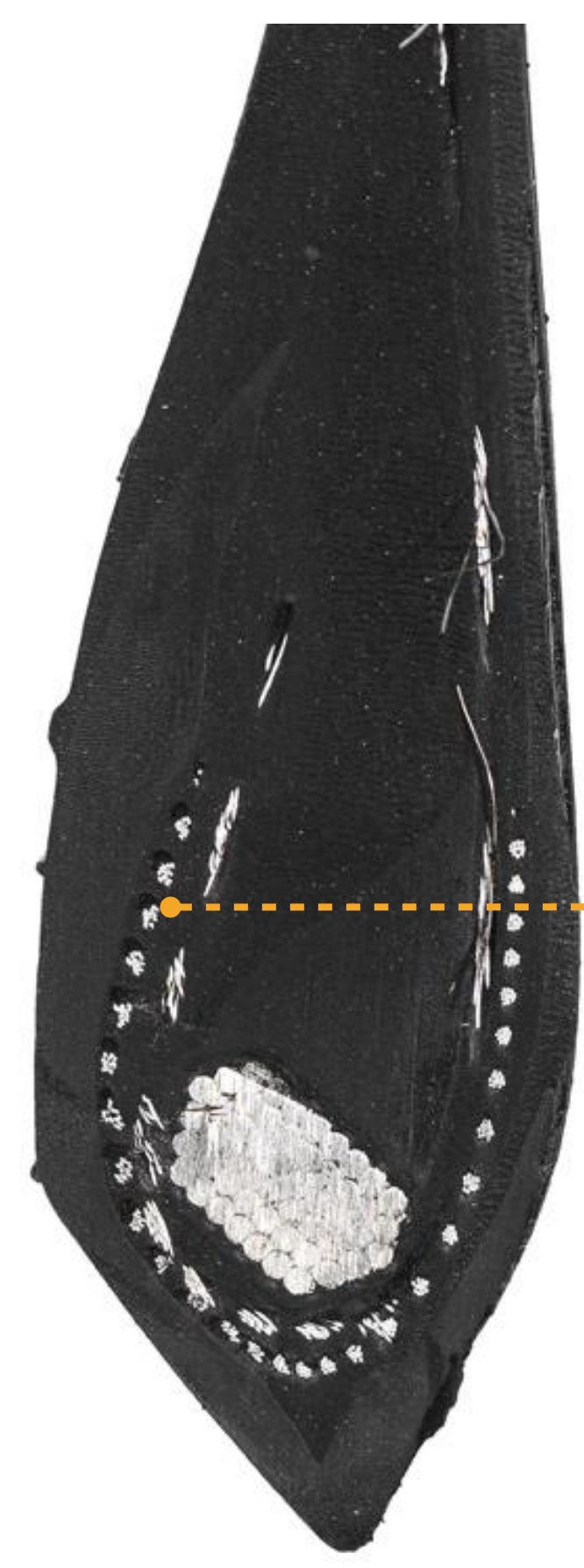
## COMPETITOR A



Trapped air around steel cord

Not uniform, gaps between bead cord

## COMPETITOR B

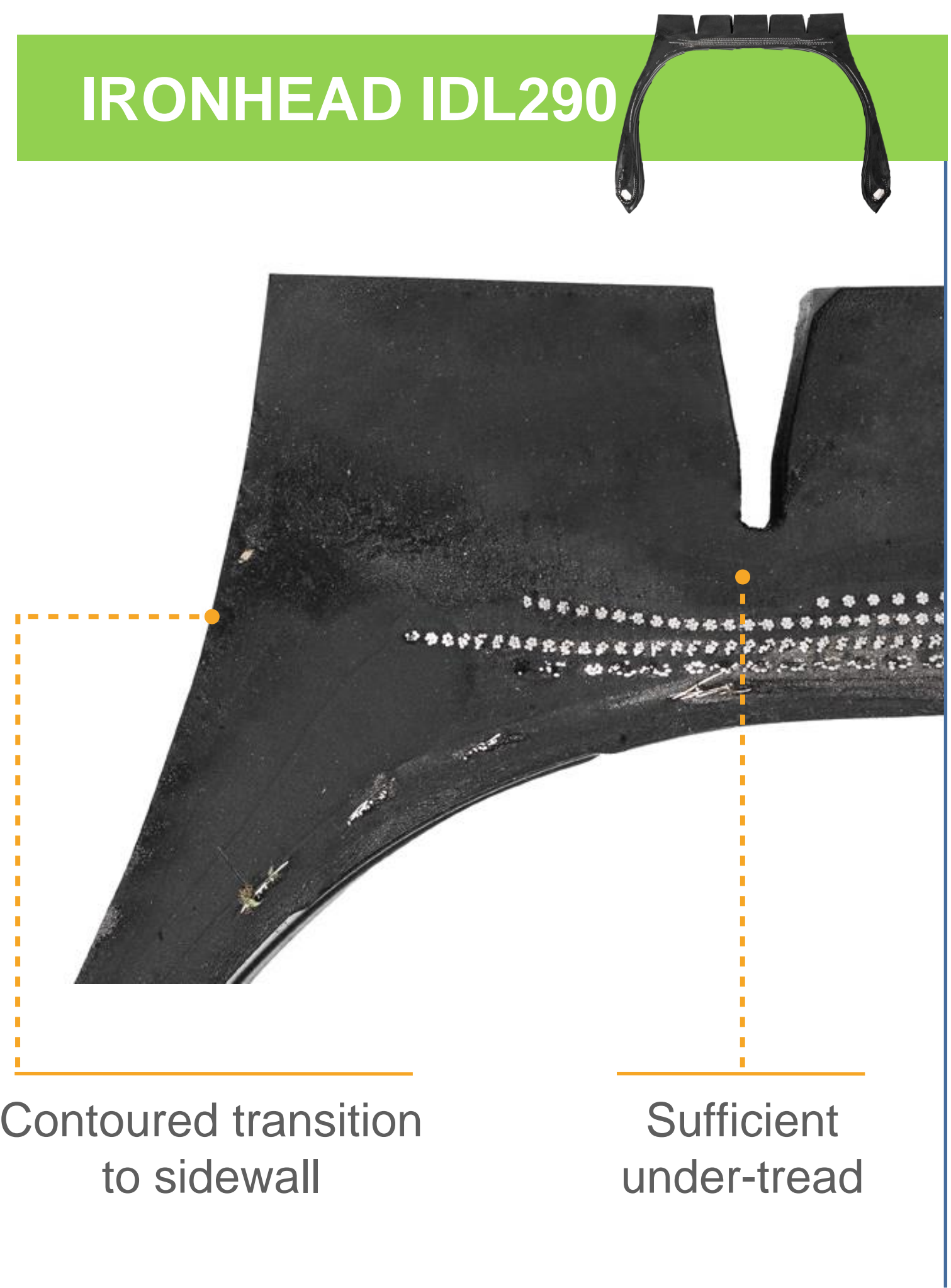


Trapped air around steel cord

# SHOULDER

Looking for shoulder transition to sidewall, minimal belt turn-up, sufficient undertread

**IRONHEAD IDL290**




Contoured transition to sidewall

Sufficient under-tread

Detailed description: This panel shows a cross-section of the Ironhead IDL290 tire. The shoulder area is highlighted with a green header. The tire's internal structure, including the belt and sidewall, is visible. A dashed orange line points to the smooth, curved transition between the shoulder and the sidewall. Another dashed orange line points to the area of the tread that remains on the sidewall, labeled as 'Sufficient under-tread'.

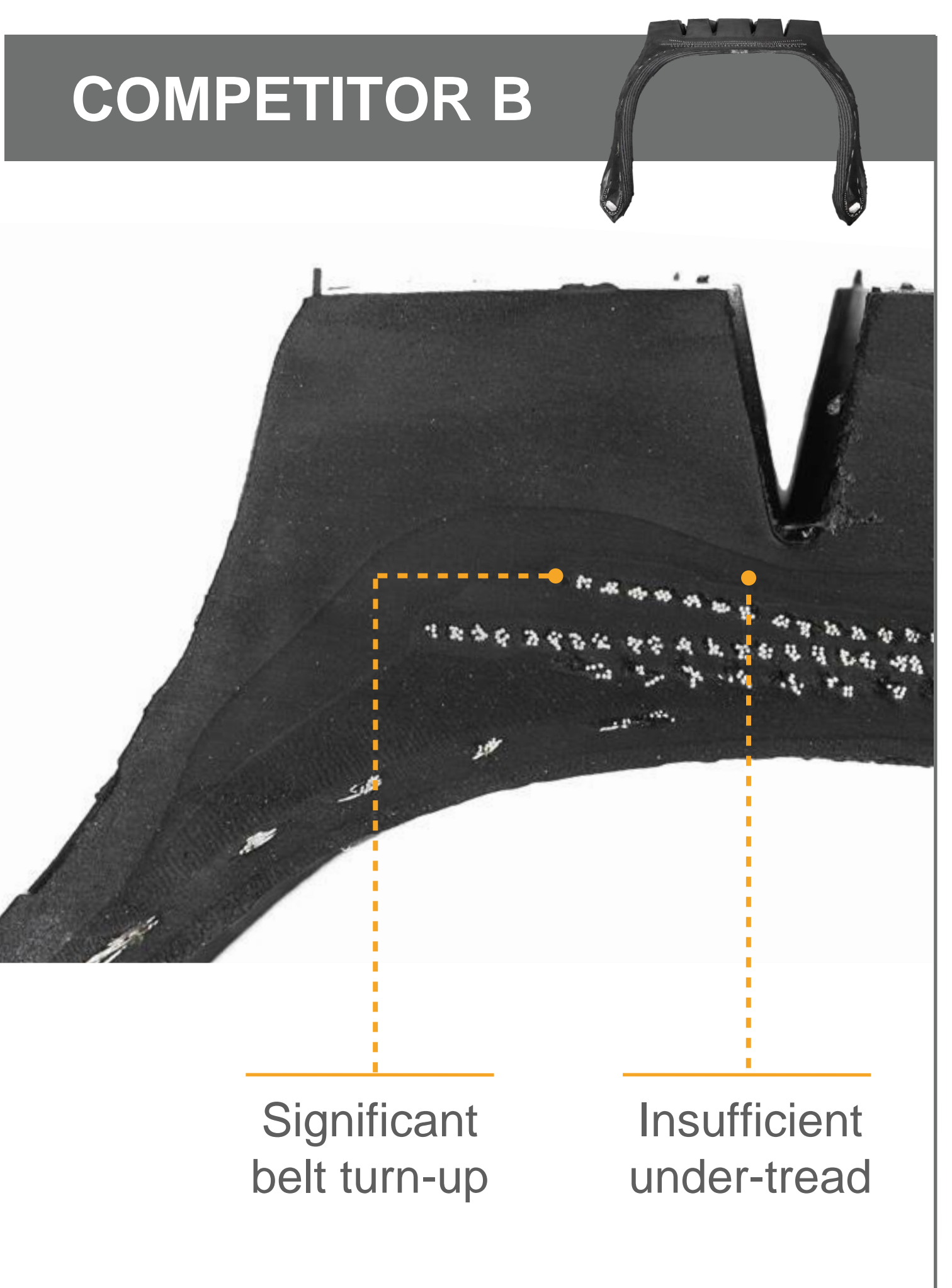
**COMPETITOR A**



No contour in transition to sidewall

Detailed description: This panel shows a cross-section of a competitor's tire. The header is grey. The shoulder area is shown with a sharp, angular transition to the sidewall, which is highlighted by a dashed orange line. This lack of a smooth curve is noted as 'No contour in transition to sidewall'.

**COMPETITOR B**



Significant belt turn-up

Insufficient under-tread

Detailed description: This panel shows a cross-section of another competitor's tire. The header is grey. The shoulder area shows a sharp, vertical transition to the sidewall, with a significant upward curve of the belt, highlighted by a dashed orange line and labeled 'Significant belt turn-up'. Additionally, the area of tread on the sidewall is smaller than in the Ironhead model, labeled as 'Insufficient under-tread'.

# SIDEWALL

Looking for radial ply placement

IRONHEAD IDL290



COMPETITOR A



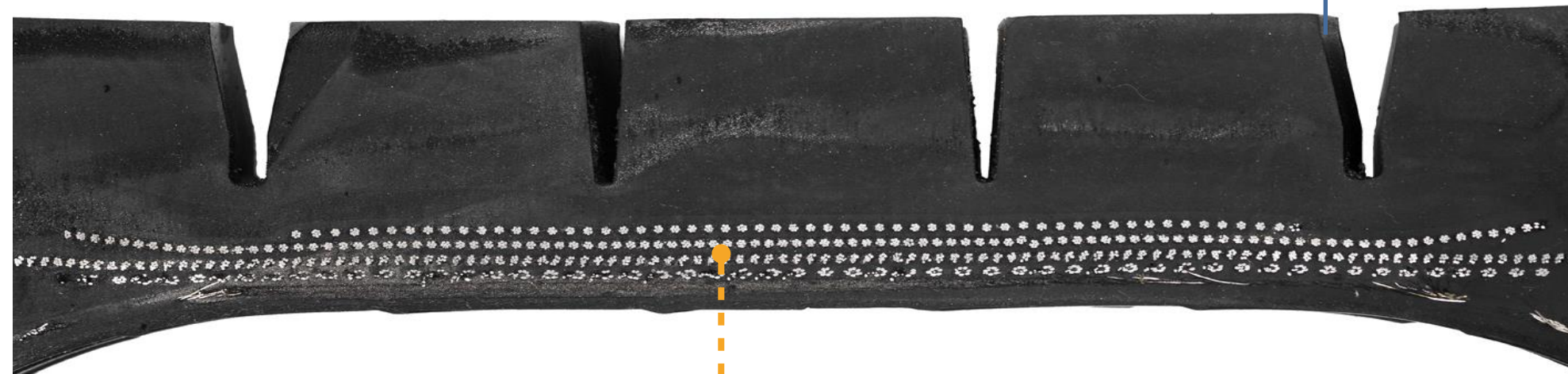
COMPETITOR B



# CROWN

Looking for consistent, flat belt layers, number of belt layers (4 vs 3), belt width, minimal belt turn-up, undertread

IRONHEAD IDL290



Full width 4<sup>th</sup> belt

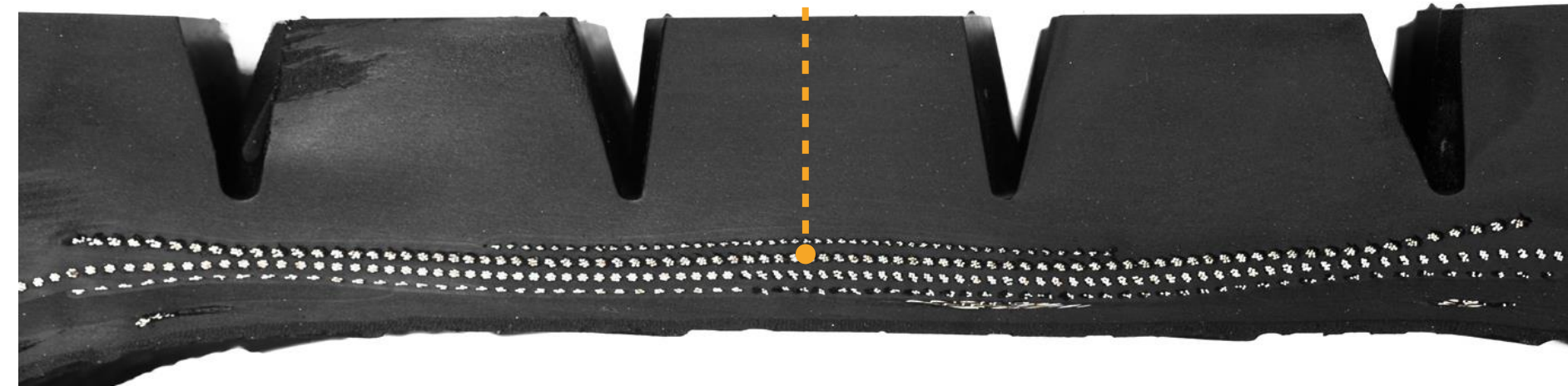
Consistent flat belt layers

COMPETITOR A



Narrow 4<sup>th</sup> belt with smaller diameter steel cord

Wavy/inconsistent belt layers

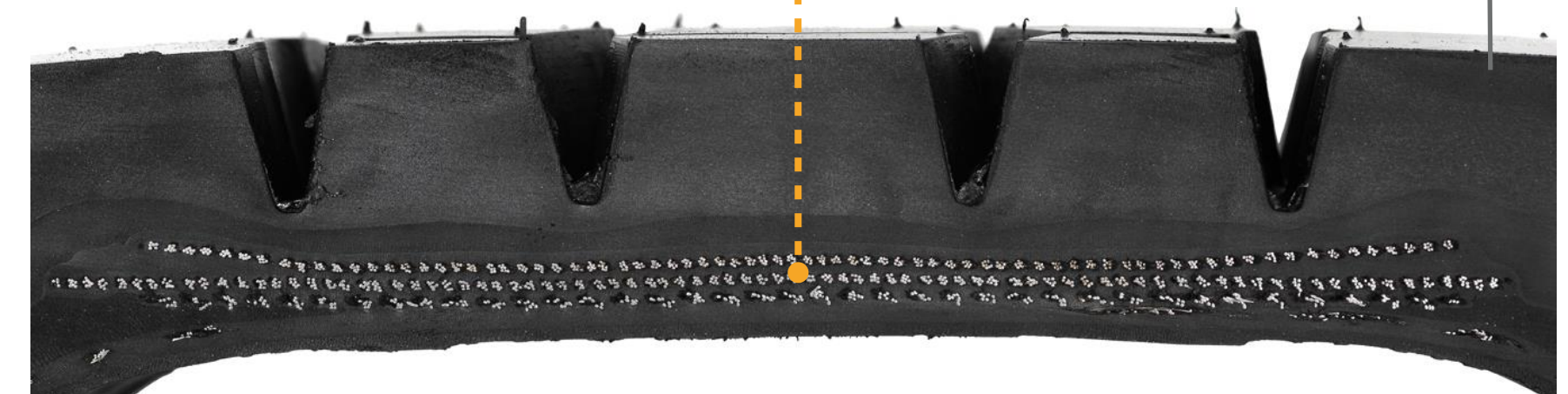


COMPETITOR B



3-belt package only

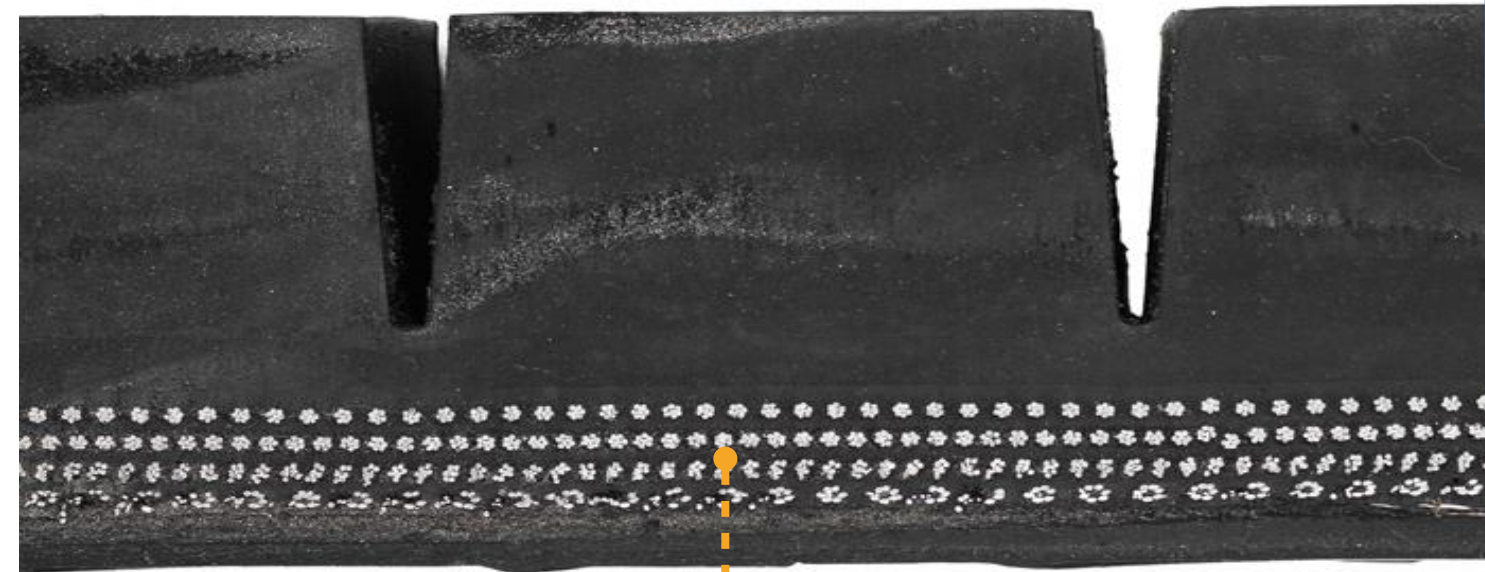
Air gaps around steel cord



# CROWN

Looking for consistent, flat belt layers, number of belt layers (4 vs 3), belt width, minimal belt turn-up, undertread

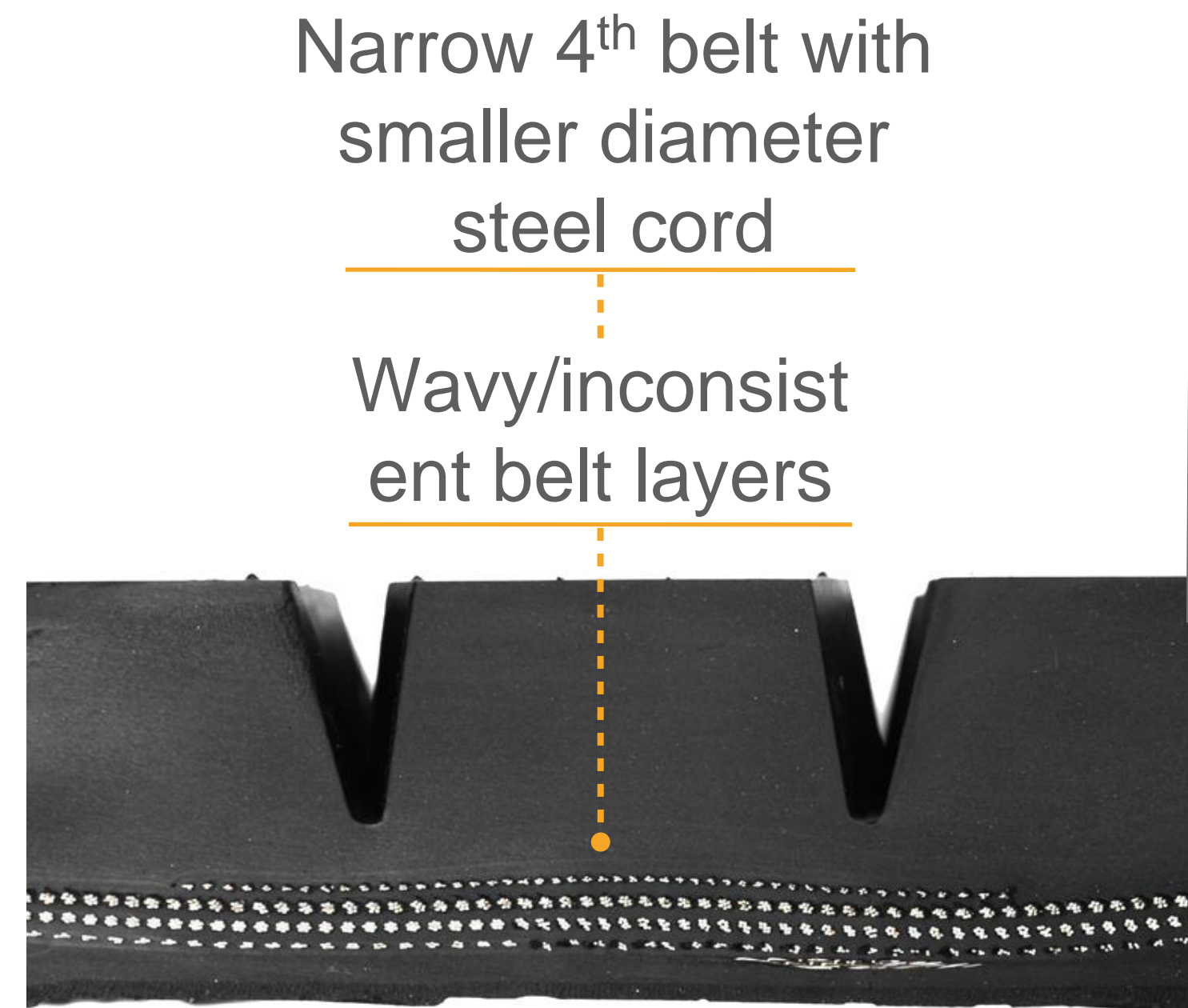
## IRONHEAD IDL290



Full width 4<sup>th</sup> belt

Consistent flat belt layers

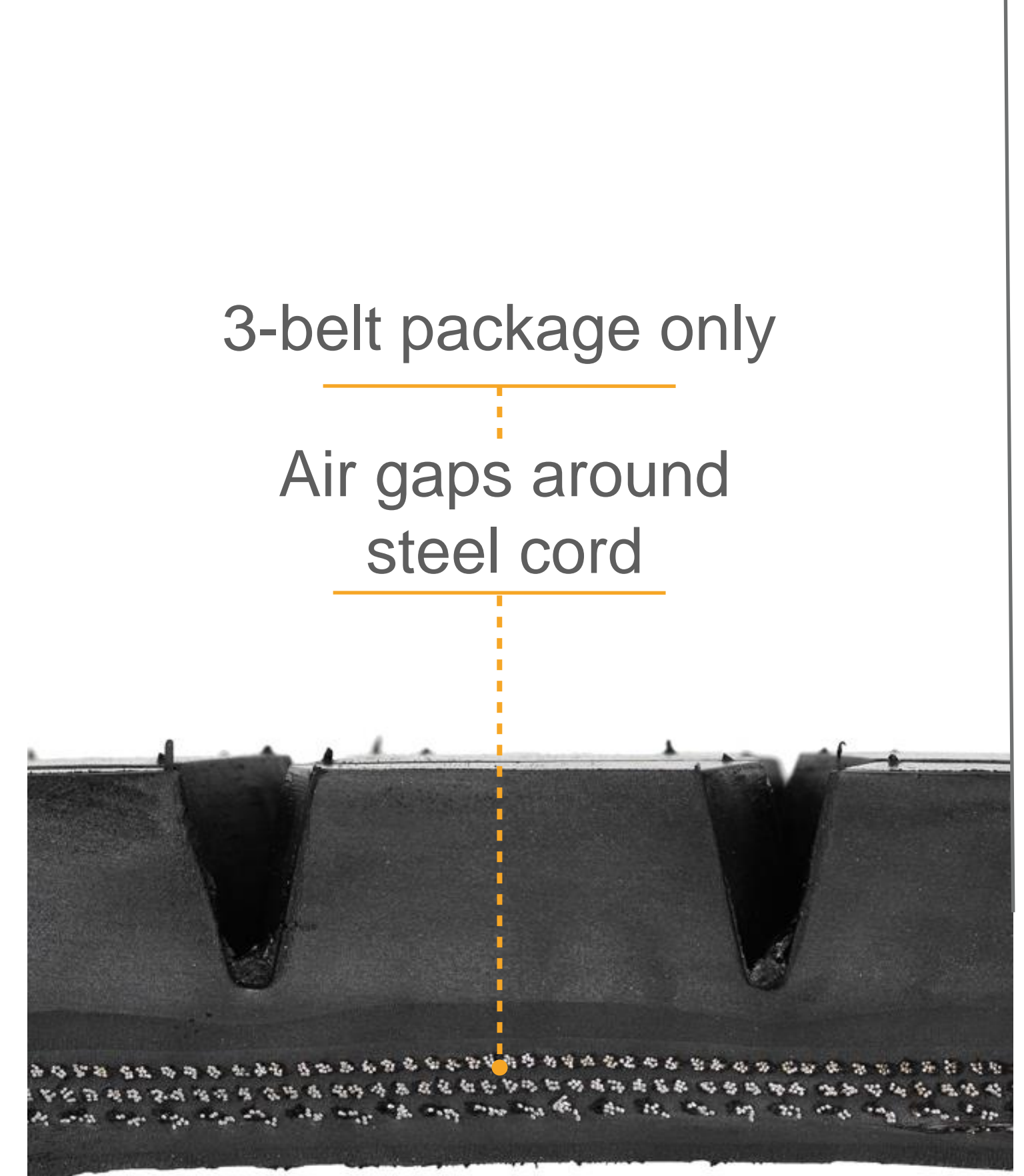
## COMPETITOR A



Narrow 4<sup>th</sup> belt with smaller diameter steel cord

Wavy/inconsistent belt layers

## COMPETITOR B



3-belt package only

Air gaps around steel cord

# RETREADABILITY SUMMARY

STA built products have proven their ability to perform due to high standards in construction and quality

BRAND	SUBMITTED	COMPLETE	RAR	SCRAP	REJECT	COMPLETE	RAR	SCRAP
GENERAL	29,752	24,539	3,736	1,398	79	82.50%	12.60%	4.70%
<b>SAILUN BUILT</b>	<b>1,902</b>	<b>1,537</b>	<b>244</b>	<b>118</b>	<b>3</b>	<b>80.80%</b>	<b>12.80%</b>	<b>6.20%</b>
CONTINENTAL	19,882	15,652	2,606	1,555	69	78.70%	13.10%	7.80%
LING LONG	2,713	2,023	518	159	7	74.60%	19.10%	5.90%
ROADONE	2,856	1,954	413	483	17	68.40%	14.50%	16.90%

Data presented at Clemson Univ forum as part of a larger report on offshore tire manufacturers

## TESTIMONIALS

June 2020

To Whom it May Concern,

Jewell Tire has been working with, and successfully retreading Sailun made casings for some years now. We have found that the Sailun made casing is very well constructed, consistent and highly retreadable. The four-belt casing design is robust and can withstand multiple retreads throughout its operational life. The Sailun casing is not only durable but is built uniformly. We have no issues running these casings across our buffers as belt placement is always consistent.

I highly recommend Sailun made casings be used in any retread program or operation in the USA.

Sincerely,



Bob Jewell  
Jewell Tire Retreading Inc.  
President

During our years retreading under the Ironhead brand banner, we recapped over 70,000 tires annually within our corporately owned retread facilities, and Sailun made casings represented over 40% of the yearly volumes. The Sailun casing is robust and retreads in line with the major manufacturers, and in many cases, outperformed the majors in retreadability and casing life.