

Kordsa Investor Presentation

May, 2019

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Global Footprint

4 continents
11 facilities*

~4,500 employees

2 R&D Centers 770 patent applications178 patents182 inventions

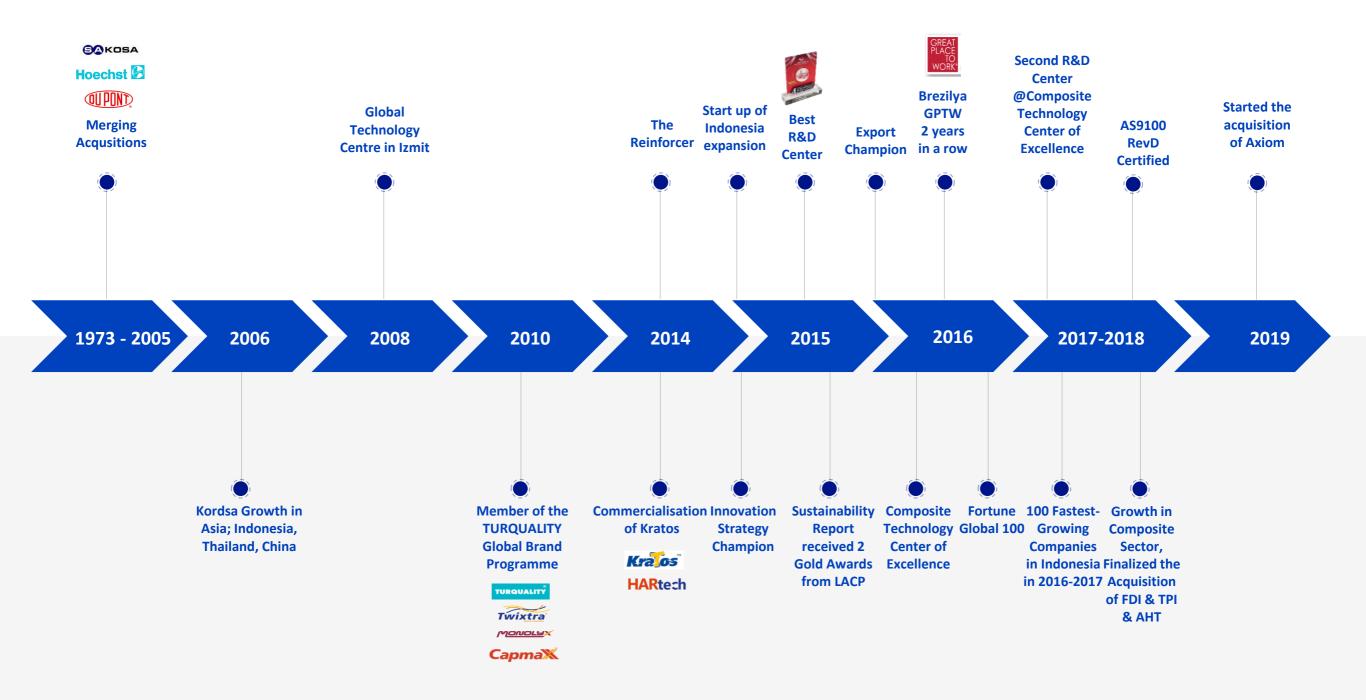


WE REINFORCE LIFE



^{*} Axiom Materials Acquisition LLC excluded due to the acquisition process continues

Milestones





Strategy House

Our Vision

Agile Kordsa in High Value Businesses for Sustainable Growth

Pillar Initiatives

Operational Excellence

- *Competitive Cost
- *Product and Service Quality Leadership
- *Lean and Agile Processes and Teams

Growth in Tire Industry

- *Profitable Growth for Tire Industry
- *New Products for High Performing Tires

Growth in Adjacent Ind.

- *Reinforcements for Composites Industry
- *Reinforcements for Construction Industry
- *Fibers for Alternative/ Adjacent Industries

Foundations

Our Values

SHE

Ethics

Continuous Improvement

Courage

Passion

Global Collaboration Continuous Improvement

KORDSA

Kordsa in Brief



Tire cord fabrics ("TCF")

- Nylon and polyester based tire reinforcement fibers and fabrics for radial and bias tires
- Global #1 by revenue/#2 by capacity @ NY66 TCF
- Global #2 by revenue / #3 by capacity @PET TCF

Next generation fabrics

- Textile reinforcement materials for green tires
- High performance Monofilaments
- Green Products with Resorcinol Formaldehyde Free Dipping
- Highly engineered hybrid cords with superior properties

Composite

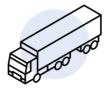
- · Carbon fiber, aramid, hybrid fabrics, and prepregs
- Production technologies for composite materials
- High value added thermoplastic and thermoset resins

Construction

• Macro and micro fibers for concrete reinforcement









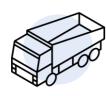




































"Hankook



YOKOHAMA



(HENG SHIN TIRE













Must Win Battles

1.
Operational
Excellence

- a. Continue TPM implementation at every site for zero incident, zero defect, zero downtime
- High capacity utilization and/or optimisation at all entities
- c. Local Talent Development for cost and productivity

2.
Profitable
Growth in
Tire Industry

- d. Focus on high value added segments
- e. Investing for smart plant, deployment of Industry 4.0 developments to support growth future plant concept
- f. Continuous Renewal of Product Portfolio new product revenue and increase approval base

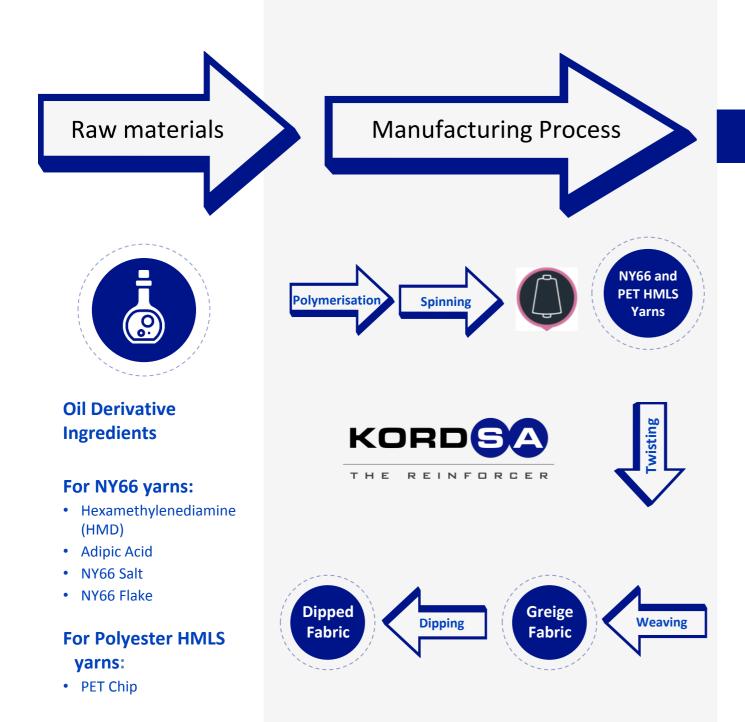
3.
Profitable
Growth in
Adjacent
Industries

- g. Ramp up Composite Reinforcement Business and complete inorganic growth
- h. Ramp up Construction Reinforcement Business PP line start up and global collaboration/ partnership
- i. Find out Alternative end uses for NY6.6

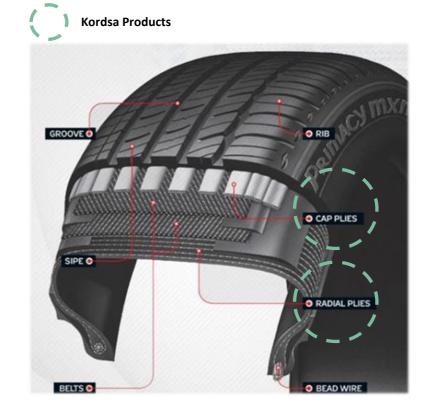
Focus on tire industry for profitable growth, selectively grow adjacencies



Overview of The Tire Cord Fabric Value Chain



Products

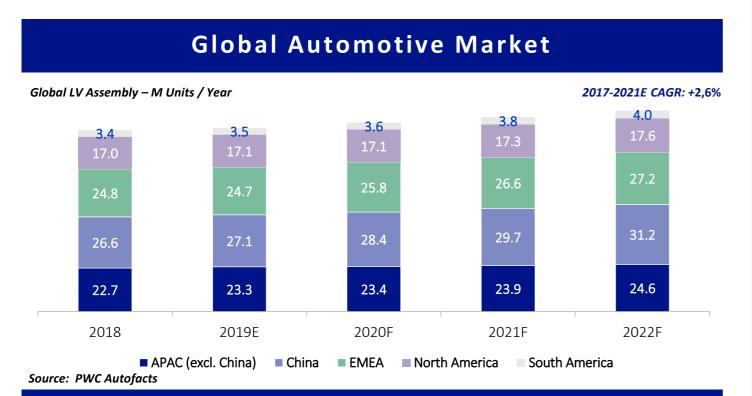


- A tire is a highly complex composite with approx. 40 components working under dynamic conditions
 - NY66 typically used in cap plies
 - PET typically used in radial plies
 - Approx 7-10% cost of a tire is Tire Cord Fabric

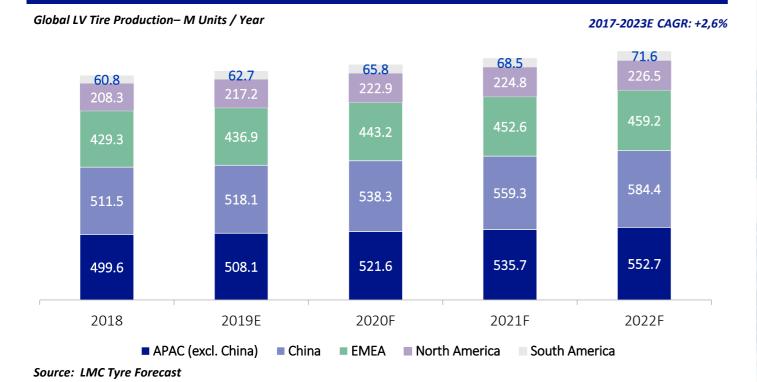
Kordsa fabrics are developed for specific requirements and are custom made



Market Dynamics – Tire Cord Fabric





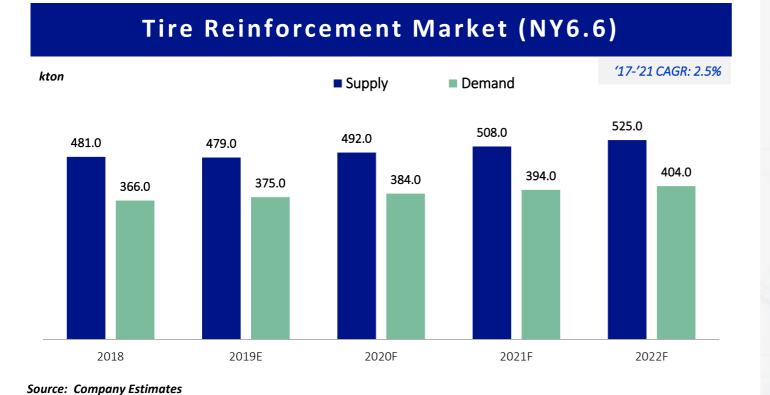


- **AP Exc. China:** +0.5% Highest growing region because of slowing other regions
- China: +1.9% Effected by tariff wars
- **EMEA:** +0.4%
- NA: 0.5% Crossover segment demand is strong
- SA: +1.4% Expected market recovery was not utilized in 2018 as a result of economic developments, slow trend to continue in 2019

- AP Exc. China: +2.6%
- China: +3.4% (tariff war effect)
- **EMEA:** +1.7% (miles driven decreased in EU with high oil prices)
- NA: +2.1% (mainly replacement effect)
- SA: +4.2%



Market Dynamics – Tire Cord Fabric







Nylon 6.6

- High capacity utilization rates
- Increasing demand for another market,
 Engineering Plastics
- Switching to NY6

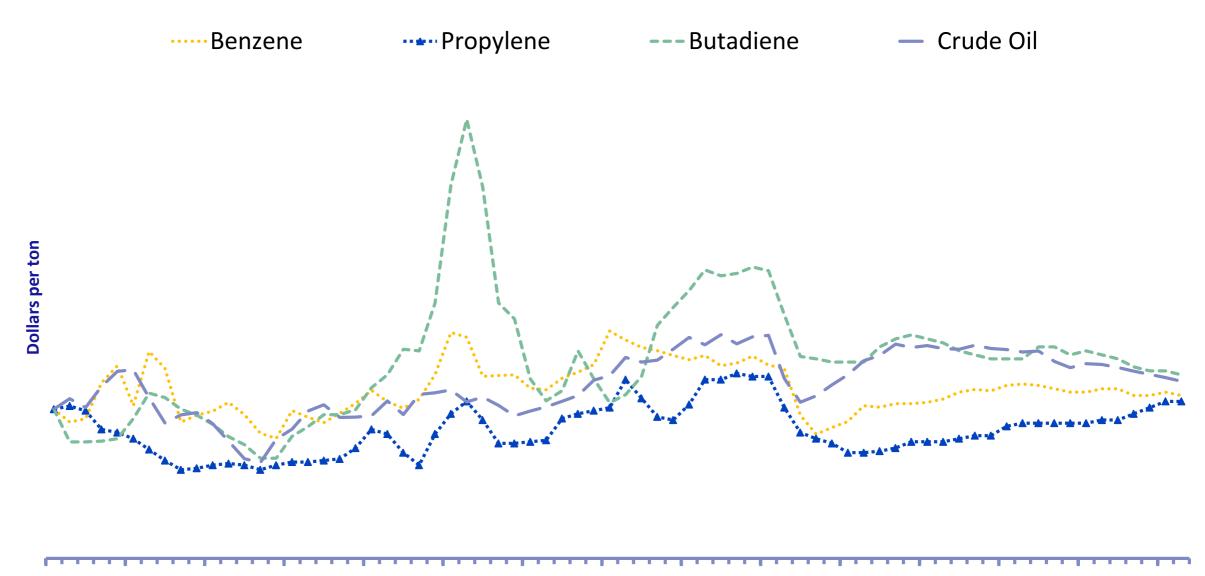


- Consolidation by Indorama (acquiring PF Kaiping, Glanzstoff, Durafiber)
- Increasing PET usage in Tire



RM Price Drivers – Tire Cord Fabric

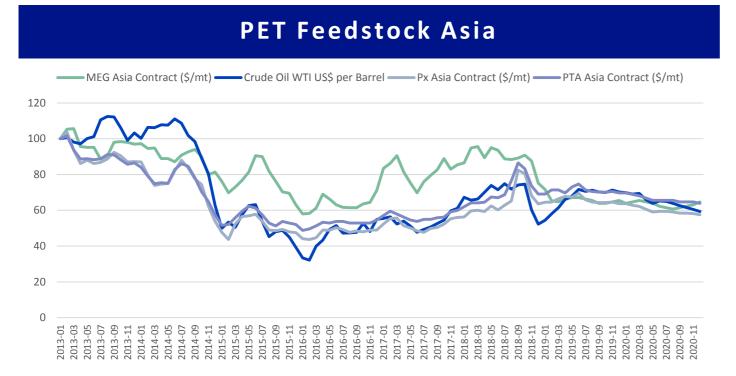
NY Raw Material Trend (Indexed)



Jan-15 Jun-15 Nov-15 Apr-16 Sep-16 Feb-17 Jul-17 Dec-17 May-18 Oct-18 Mar-19 Aug-19 Jan-20 Jun-20 Nov-20

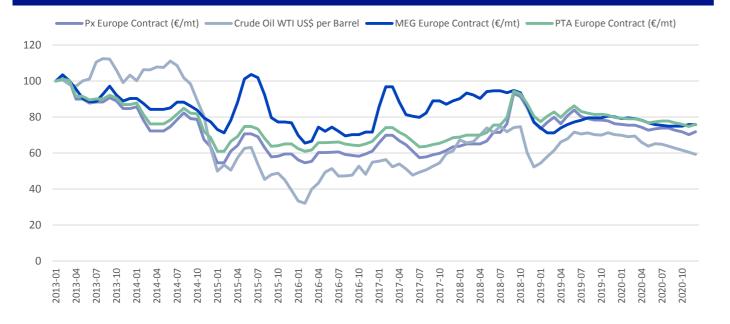
Source: Company Estimates

RM Price Drivers – Tire Cord Fabric



Source: IHS Markit

PET Feedstock West Europe



Source: IHS Markit

- Crude oil WTI (based on IHS) price is the major driver for PET price,
- MEG prices decrease in 2019 due to new capacity becoming online,
- 2020 and onwards still not clear from crude oil side due to IMO regulations, OPEC supplies, USA sanctions, etc,
- PTE & MEG are expected to remain tight in 2019.

- Crude oil price is the major driver for PET price,
- Europe PET chip feedstock prices tend to follow Asian market prices,
- PTA in Europe has also been affected by BP Geel & PK Orlen's recent FMs in 2019



Further Growth Opportunities: Composite

Mid-term opportunity: composites reinforcement











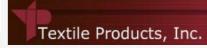
Current status

- Composite Technologies Center of Excellence opened in 2016 (~30 MM\$ investment)
- Ongoing development programs & joint projects with aerospace & automotive customers and major universities in both Turkey and Europe.
- Our target markets are Aviation, Automotive, Maritime and also Rail Systems

Buy & Build

 Finalized acquiring FDI & TPI in the US in 16th July, 2018; AHT in October 1, 2018



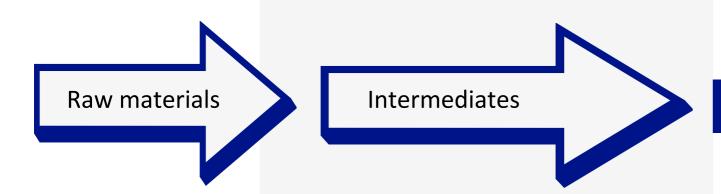




- The approval process of the acquision of Axiom Materials continues
- Potential M&A targets are always under consideration

External 13 THE REINFORCE

Overview of The Composites Value Chain



Precursors & Fibers:

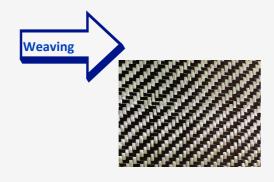
- PAN Precursor
- Carbon Fiber
- Aramide
- Glass Fiber

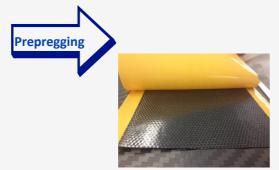
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Resins:

- Phenolic
- Epoxy
- Cyanate ester







Composite Parts





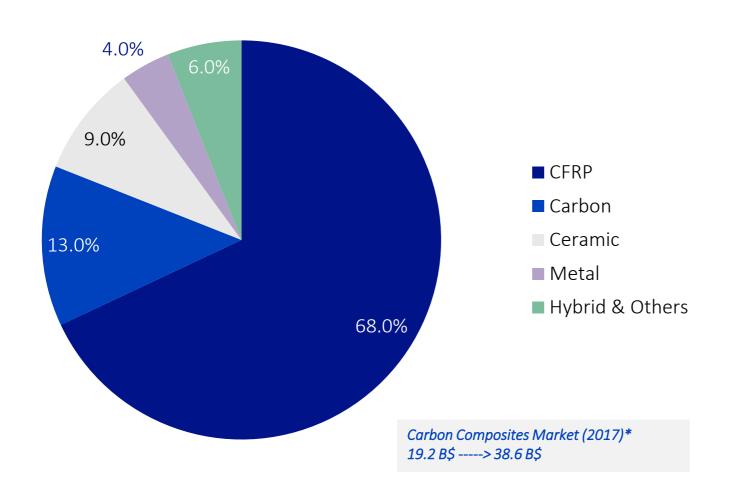


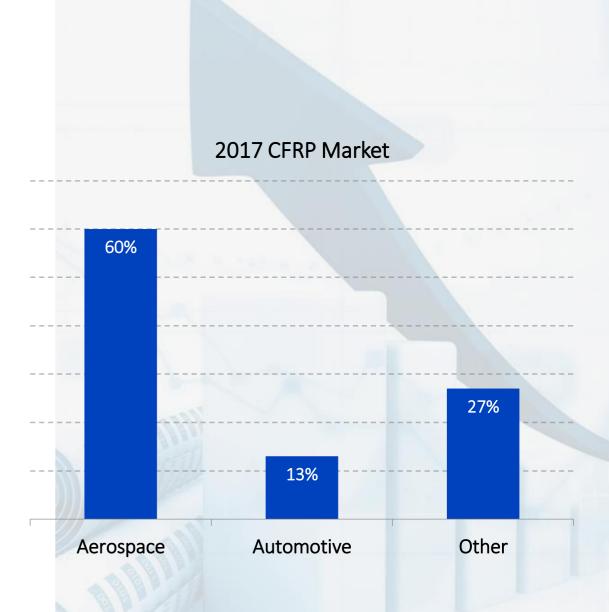
- Composites use in aerospace & automotive is increasing, due to improved material properties and weight savings over conventional materials
- «Lightweighting» is a major theme, driven by emission regulations as well as fuel-efficiency needs

Kordsa fabrics and prepregs offer cutting edge solutions for aerospace & automotive markets



Market Dynamics – Composite









Market Dynamics – Composite



^{*} Extrapolated values for 2023



Kordsa Investment Highlights

- 1 Market leadership based on longstanding strategic partner status with all global tire players
 - 2) Global footprint with large presence at growing regions
 - 3 Volume growth supported by favourable OE and replacement tire demand



- 4 Technology leadership at the cutting edge of reinforcement
- Growth opportunities from new tire reinforcement products and adjacent construction and composites reinforcement sectors
- 6 Strong cash generation and dividend payout
- 7 Experienced management team with proven track record



Kordsa in Brief

Net Debt/EBITDA

Key Financials								
	Mill	ion TL	Million USD					
	2018 1Q	2019 1Q	2018 1Q	2019 1Q				
Sales	713	1.265	187	236				
Gross profit	150	257	39	48				
Gross profit margin	21.1%	20.3%	21.1%	20.3%				
EBITDA* (a)	120	197	31	37				
EBITDA* margin (a)	16.8%	15.6%	16.8%	15.6%				
OPEX margin	8.4%	8.1%	8.4%	8.1%				
Net income	71	111	19	21				
Effective Tax Rate	16.7%	21.0%	16.7%	21.0%				
WC Turnover	3.25	3.48	3.25	3.48				
CAPEX	46	39	12	7				

1.80

8

Dep./Amort. (a) EBITDA* = Gross Profit – OPEX + Depreciation/Amortization

1.77

7

1.94

43



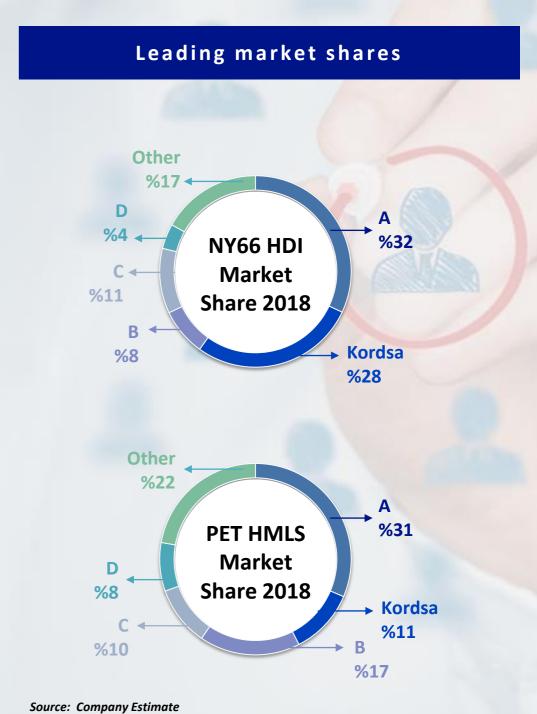
18 External

1.90

29

Market Leadership Based on Longstanding Strategic Partner Status with All Global Tire Players

Nature of customer relationship as key barrier to entry						
	Length of relationship	Typical length of approval period ^(a)	Co-development projects			
Global Tire Player 1	Since 1986	~ 5 years	✓			
Global Tire Player 2	Since 1995	~ 5 years	✓			
Global Tire Player 3	Since 1973	~ 3 years	✓			
Global Tire Player 4	Since 1985	~ 2 years	✓			
Global Tire Player 5	Since 1973	~ 3 years	✓			
Global Tire Player 6	Since 1987	~ 2 years	√			

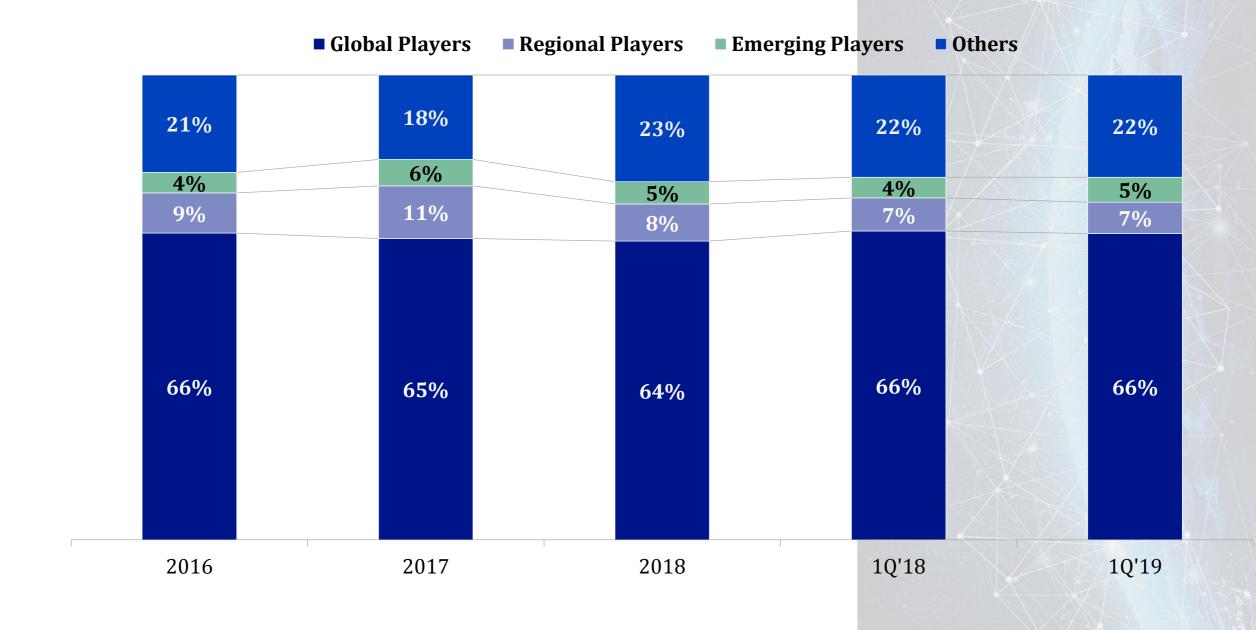


Strong barriers to entry for new comers



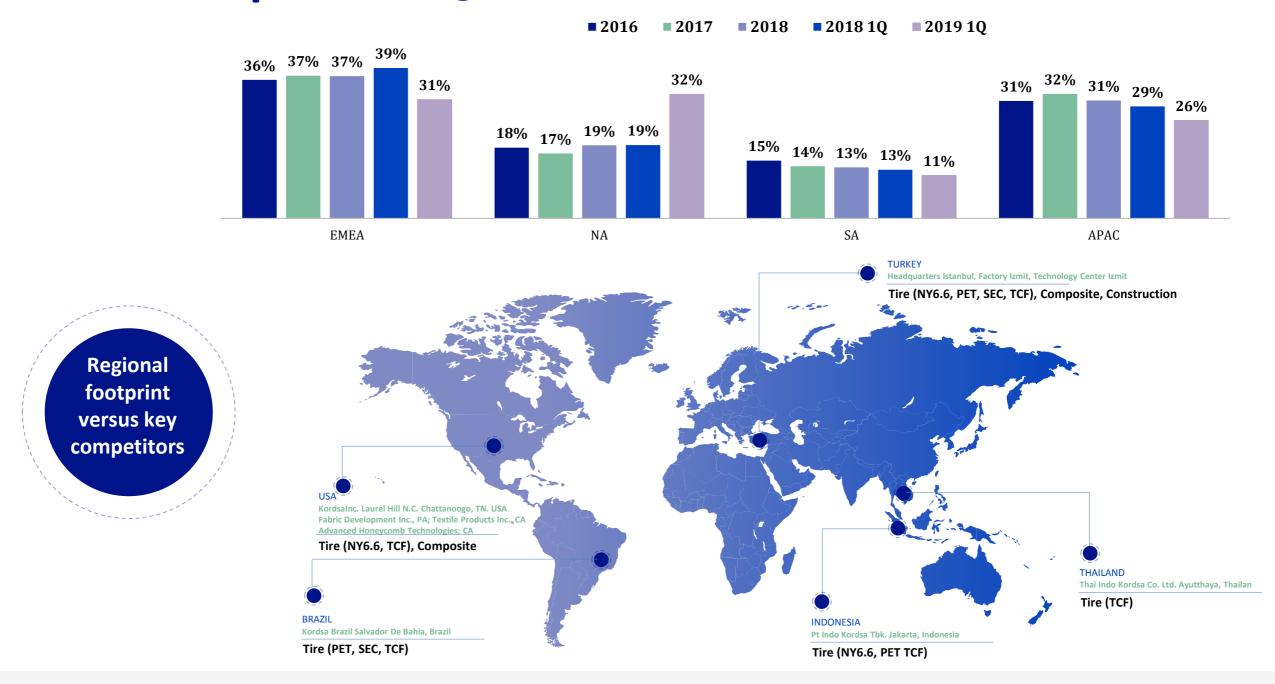
19

Capitalize on Global Footprint and Entrenched Supplier Status with All Key Tire Manufacturers - Segmental Progress





Global Footprint – Regional Breakdown of Revenues





- #1 NY TCF producer
- #1 PET TCF producer
- #1 NY TCF producer in the US
- The only PET yarn, TCF and SEC producer in LATAM
- #2 NY TCF producer
- #2 PET TCF producer

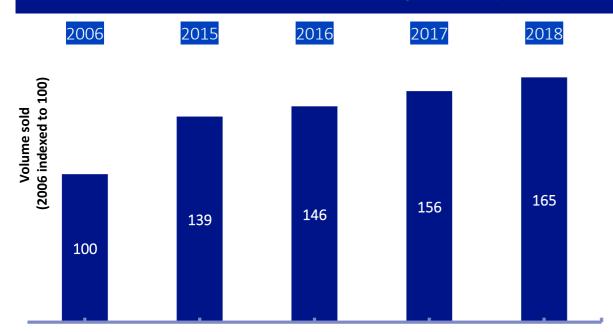


Well - Positioned to Enable Volume Growth

Comments

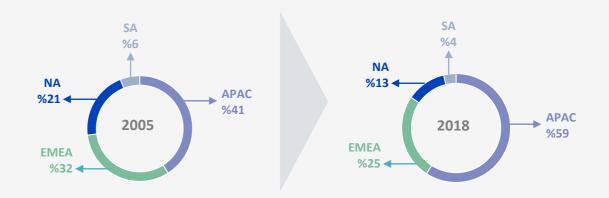
- Fabric form contributes the highest value add
- Disciplined approach to optimizing footprint
- 2015 investment in Indonesia has increased polyester tire cord fabric capacity by 18 ktons
- Enables regional growth in technology-advantaged PET segment with global and emerging customers
- Further investment in PET HMLS for new generation yarns
 - In TR for 6-6.5 ktons due for completion in 1H 2019.
 - In Indo for 6,5 ktons completed in Jan-2018.

Kordsa volume development(a)

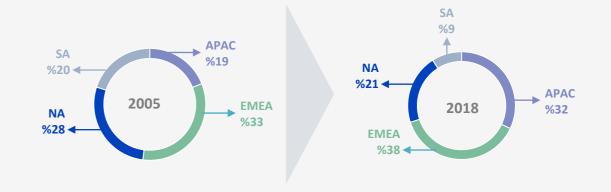


(a) Volume development adjusted for divested volumes

Light Vehicle Tire manufacturing market evolution



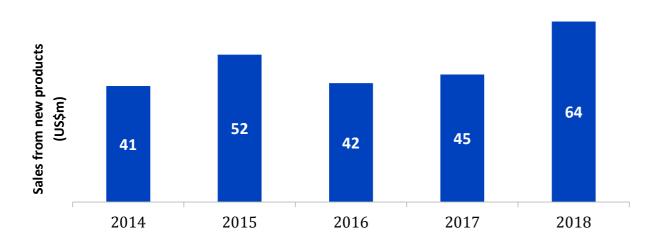
Kordsa regional capacity development





Technology Leadership at The Cutting Edge of Reinforcement

Strong focus on R&D



Selected collaborations(a)



(a) includes both, universities as well as individual academics from the names institutions

Cutting edge new products



✓ Rolling resistance improvements through higher modulus for high performance tires



✓ Protection layer for truck & bus tires; reduces tire weight

T802

√ 7% higher tenacity and better fatigue performance for aircraft tires (bias)

4G PET

√ 10% higher dimensional stability for better tire performance (improved labeling)

Leadership in Innovation and Technology"



 Kordsa will launch on the free licensing process of environmentally friendly formula, striving to make it the new standard instead of the 80-year old formula.



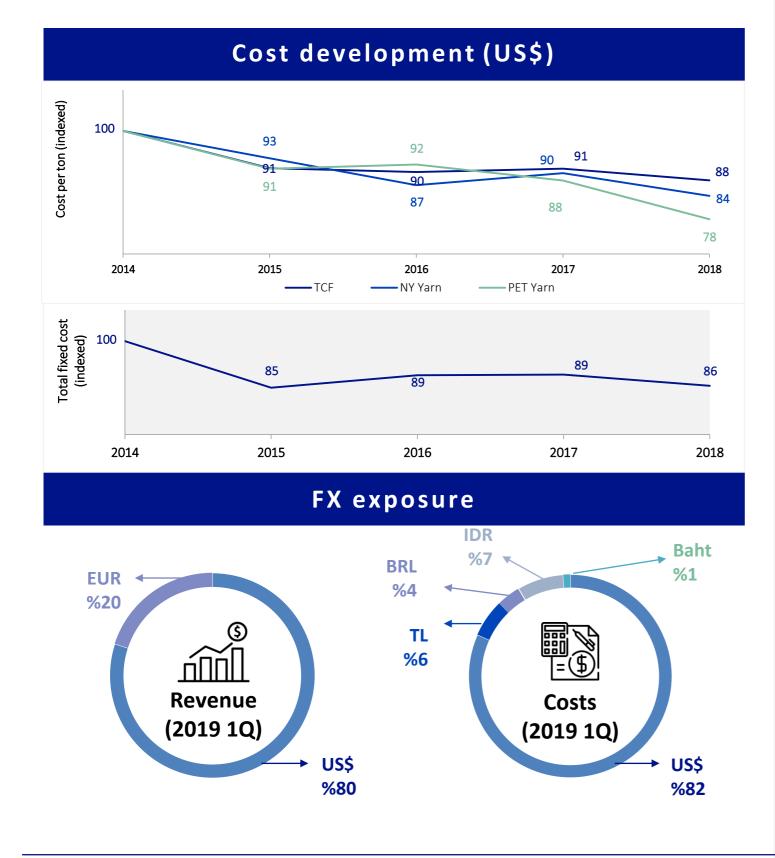
According to the patent research database, Kordsa is among the top 10 companies in the world with the number of patents issued in industrial textiles as of 2018.



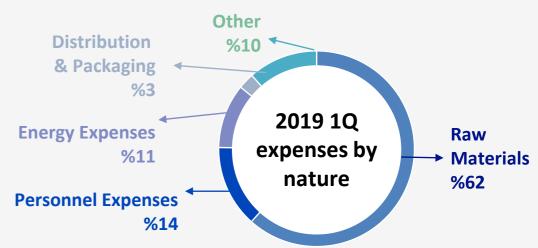
- Kordsa's 2016 Sustainability Report received
 Platinium Award in 2018 Inspire Awards by LACP
 and ranked 21st among top 100 companies
- Listed in BIST Sustainability Index for the third consecutive year



Well-Positioned for Strong Cash Generation and Dividends



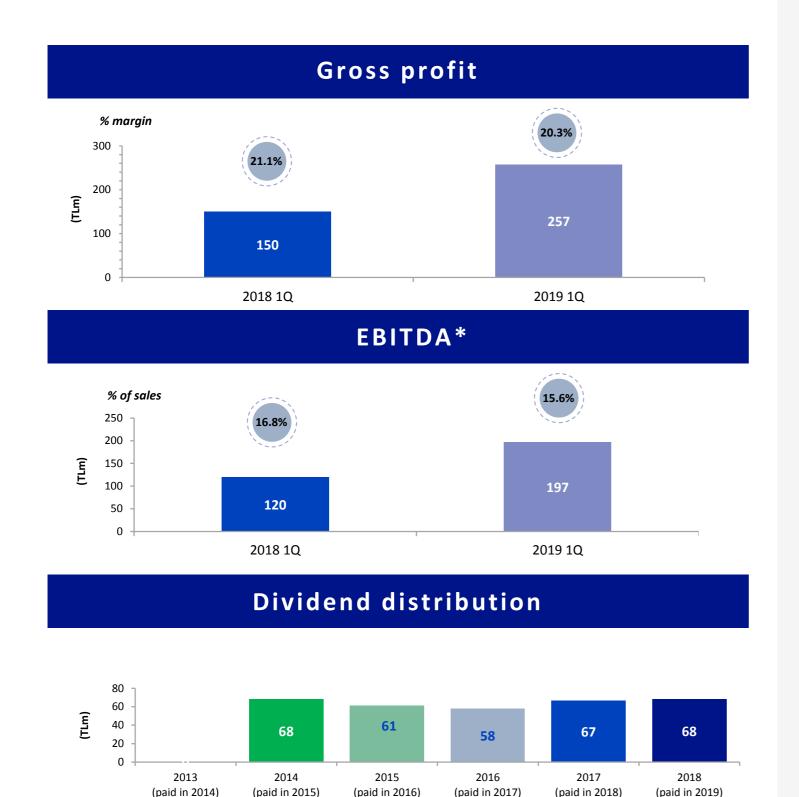
- Demonstrates value-based pricing model
- Ability to pass through raw material price volatility: (Revenue – raw material costs) tracked as a KPI by sales team
- Conversion costs as a key metric for management KPIs (main components are personnel expenses and energy costs)



- Hard currency revenues
- FX exposure on costs => EM footprint on local costs + hard currency priced raw materials
- Benefit from US\$ appreciation vs. TL, IDR and BRL



Well-Positioned for Strong Cash Generation and Dividends



Comments

- Price is a function of
- Value Proposal of Product including services offered
- Product type (nylon vs polyester or fabric vs yarn)
- Raw Material Price Movement (formula based pricing with adjustment on raw material indexes)
- 10 yrs avg EBITDA margin 12,0%
- Target is progressive improvement in EBITDA margins over the medium term
 - Focus on value
 - Improved Total and per kg Fixed Cost
 - Successful selling, general and administrative ("SG&A") cost reduction initiatives across all business units
 - Positive contribution of new products and adjacent businesses





Kordsa's Financial Policy

Our company guidance for financial year 2019 is as follows:

- Revenue : 30%-40% TL basis; 10%-15% USD basis
- EBITDA: 30%-40% TL basis; 10%-15% USD basis
- Composite business segment revenue : 105-115 M\$

EBITDA margins

Kordsa is targeting progressive improvement in EBITDA margins over the medium term

Distribution of all the distributable profits

- which is lower of the Kordsa Turkey local GAAP (VUK) or Kordsa Consolidated TFRS (IFRS) net income
- in the form of cash and/or bonus shares
- · subject to general assembly approval

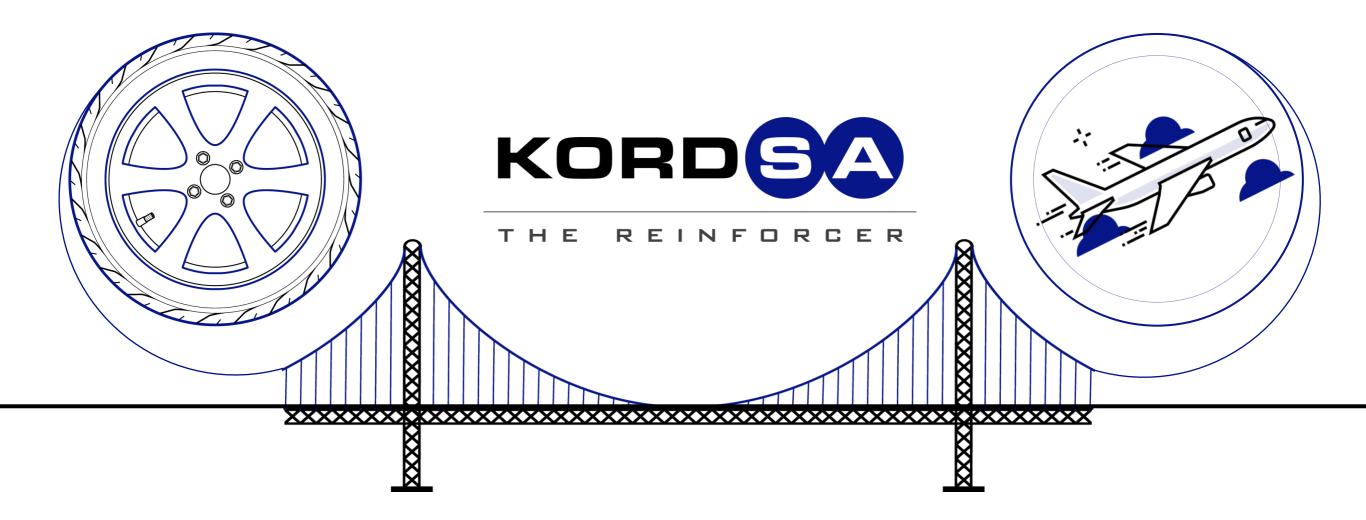
The distribution decision is agreed taking into consideration the sizable fixed asset purchases, acquisitions, covenants of current liabilities and the Company's mid and long term strategies, national and global economic conditions

Dividend policy

Reoccurring Creep Capex

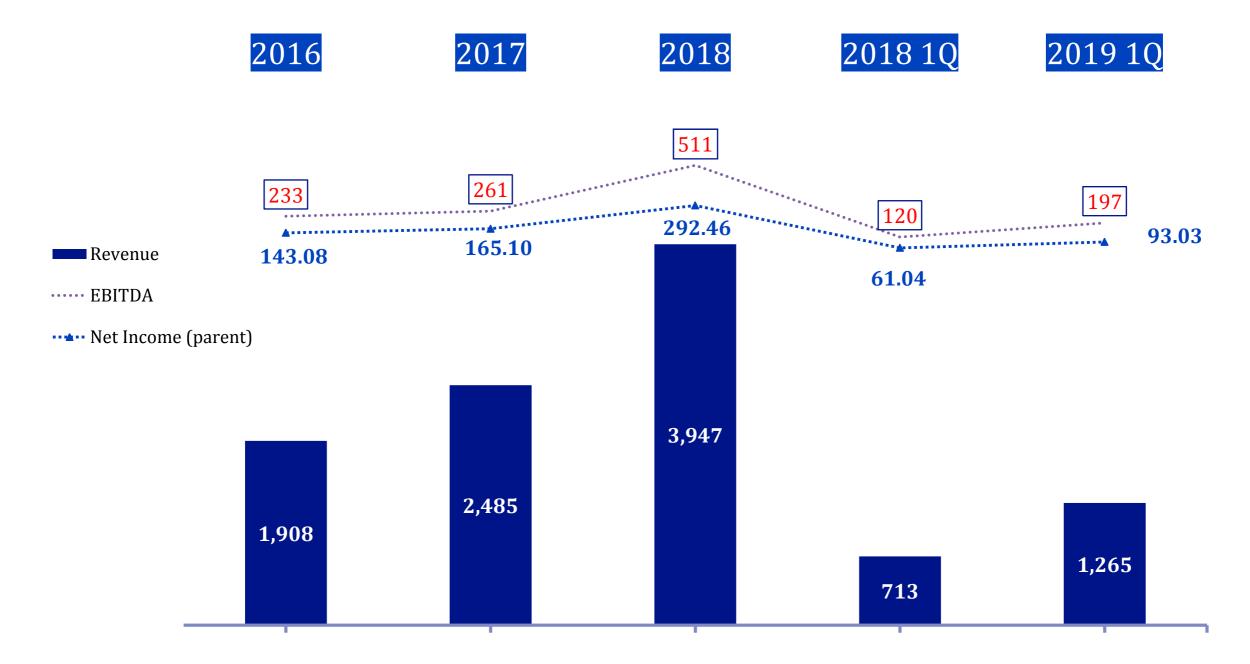
USD 23 million





Appendix

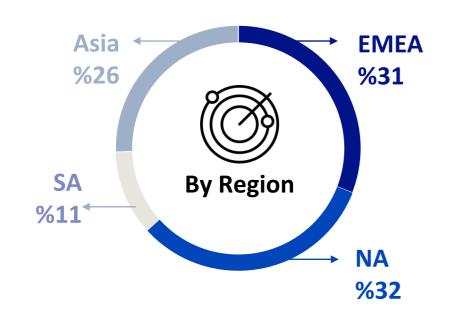
2016 – 2019 Financial Trend (MTL)

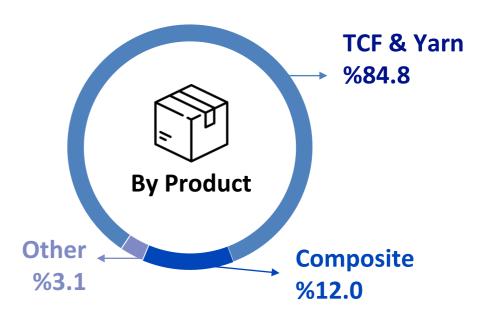




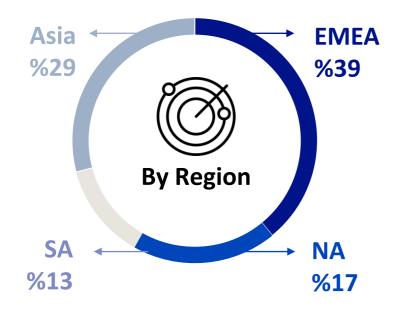
Kordsa in Brief

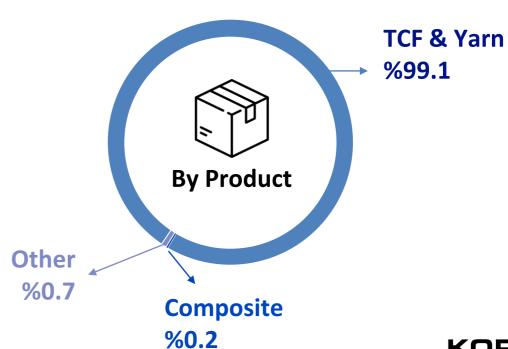
Q1 2019 Revenue Split





Q1 2018 Revenue Split







FX Rates

FX Rates as of Mar,19

	Monthly Avr	1Q'19	1Q'18	2018 YE
\$/TRY		5.36	3.81	4.81
EUR/\$		1.14	1.23	1.18
\$/BRL		3.77	3.24	3.65
\$/IDR		14,136	13,576	14,237
\$/THB		31.61	31.54	32.31
	Month End	1Q'19	1Q'18	2018 YE
\$/TRY	Month End	1Q'19 5.63	1Q'18 3.95	2018 YE 5.26
\$/TRY EUR/\$	Month End			
	Month End	5.63	3.95	5.26
	Month End	5.63	3.95	5.26
EUR/\$	Month End	5.63 1.12	3.95 1.23	5.26 1.15
EUR/\$ \$/BRL	Month End	5.63 1.12 3.90	3.95 1.23 3.32	5.26 1.15 3.87

Overview of The Construction Reinforcement Value Chain

Raw materials

Manufacturing Process



Oil Derivative Ingredients

For NY66 Fibers:

- Hexamethylenediamine (HMD)
- Adipic Acid
- NY66 Salt
- NY66 Flake

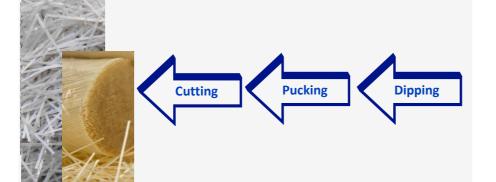
For PP Fibers:

Polypropylene Chips









Reinforced Concrete Structures









- Major applications:
- Tunneling
- Shotcrete
- Slab on ground concretes
- Screed concrete
- Concrete roads

Kordsa's Kratos Fiber Reinforcement are applied in Superstructure & Infrastructure Solutions



Growth Opportunities: Construction

Construction Reinforcement







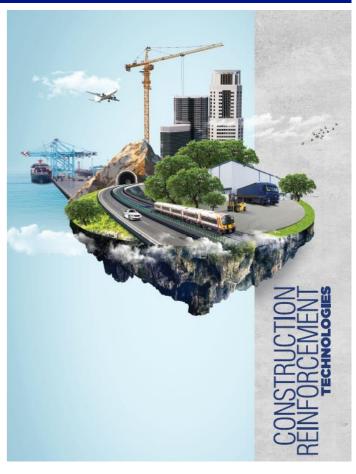




Samsun 2nd and 3rd
Stage Light Railway
Track Slab
(Non- Conductivity
Concrete
Reinforcement)
KraTos Macro
Reinforcement

3rd Bosphorus Bridge Toll Booths and Electronic Pass Areas (Non-Conductivity Concrete Reinforcement) KraTos Macro Reinforcement

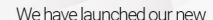
Asyaport Tekirdağ Port KraTos Macro Reinforcement





- KraTos Macro & Micro Synthetic Fibers are approved and applied in over 50 significant superstructure, industrial and infrastructure reference projects.
- Non-conductivity concrete reinforcement applications with KraTos Synthetic Fiber Reinforcements are approved in significant government-funded infrastructure projects.
- Kordsa İzmit Plant, R&D Concrete Lab technical and test equipment capabilities have increased. Technical Project Report service will be available for infrastructure projects.





Polypropylene Monofilament Fiber Reinforcement

production line.

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July 2018

