



6<sup>th</sup>

Greek  
Investment  
Forum  
in NY  
June 21 | 22, 2017



# CORPORATE PRESENTATION

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June 2017

 **THRACE GROUP**  
A WORLD OF MATERIALS & SOLUTIONS



**Converting polypropylene into a  
World of Material & Solutions for over 38 years**



# 2 BUSINESS UNITS

## TECHNICAL FABRICS



## PACKAGING SOLUTIONS



**THRACE GROUP  
AT A GLANCE**



Converting more than **100k MT of PP/PE** per year



Operations in **11 countries**



**28 different** production technologies



**59% production / 18% sales** in Greece



Sales network in **80 countries** / Sales in **24 market segments**

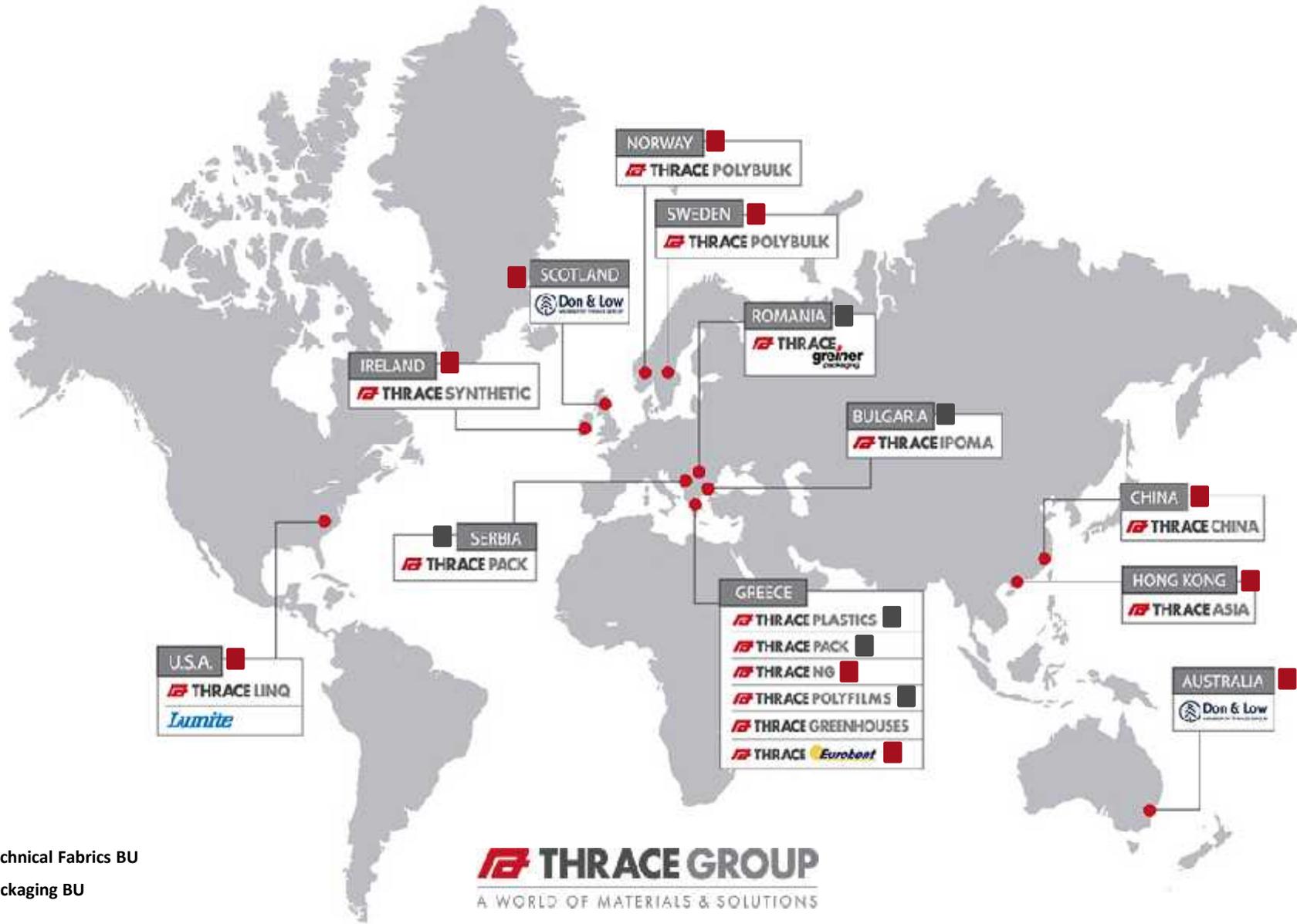


FY 2016 Group Sales **292 mil €** / 2015-2016 CAPEX **57 mil €**



**1,709** employees

# PRESENCE



- Technical Fabrics BU
- Packaging BU

**THRACE GROUP**  
A WORLD OF MATERIALS & SOLUTIONS



# TECHNICAL FABRICS

BUSINESS UNIT

## TECHNICAL FABRICS BUSINESS UNIT | PRODUCTS BY APPLICATION



**GEOSYNTHETICS**



**CONSTRUCTION**



**AGRI/HORTICULTURE  
AQUACULTURE**



**LANDSCAPE-  
GARDENING**



**SPORT & LEISURE**



**MEDICAL & HYGIENE**



**FILTRATION**



**FURNITURE &  
BEDDING**



**AUTOMOTIVE**



**FIBC / PACKAGING  
FABRICS**



**ADVANCED FABRICS/  
COMPOSITES**



**FLOOR COVERING**



**INDUSTRIAL FABRICS**



**ARNO WEBBINGS/  
STRAPS/ ROPES**

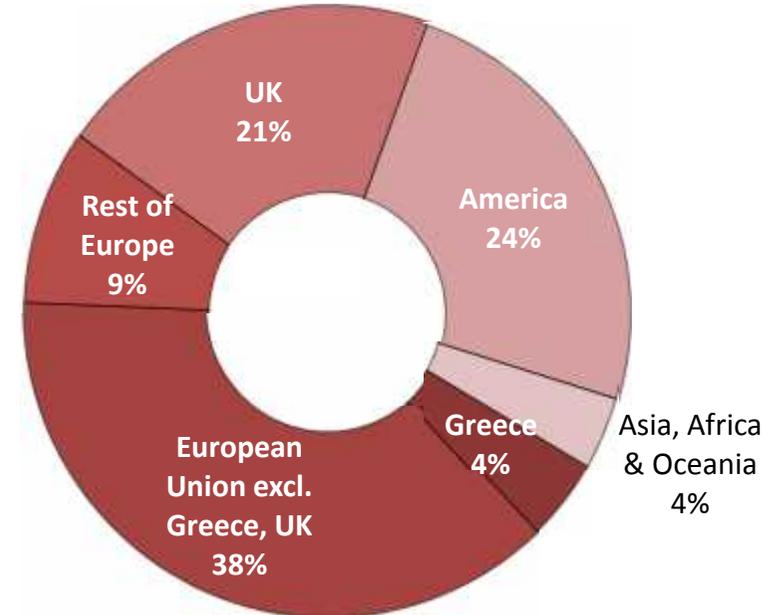


**INDUSTRIAL YARNS &  
FIBERS**

Production Geographical Breakdown



Sales Geographical Breakdown



- 57% of production in Greece (following the investments of 2015-2016) but only 4% of the sales in Greece.
- Global sales presence but mainly Europe (very much diversified within Europe), and the USA.

TECHNICAL FABRICS BUSINESS UNIT | COMPETITION





# PACKAGING SOLUTIONS

BUSINESS UNIT

 **THRACE GROUP**  
A WORLD OF MATERIALS & SOLUTIONS

## PACKAGING BUSINESS UNIT | PRODUCTS



**BAGS/FFS FILMS**



**PALLET COVERING/  
PACKAGING FILM**



**CONTAINER LINERS/  
CARGO PROTECTION**



**FABRICS**



**INJECTION/BUCKETS/  
PAILS/CONTAINERS**



**THERMOFORMING  
CUPS**



**EPS CONTAINERS &  
TRAYS**



**CRATES**



**5 GAL BOTTLES & CAPS**



**BAG IN BOX**

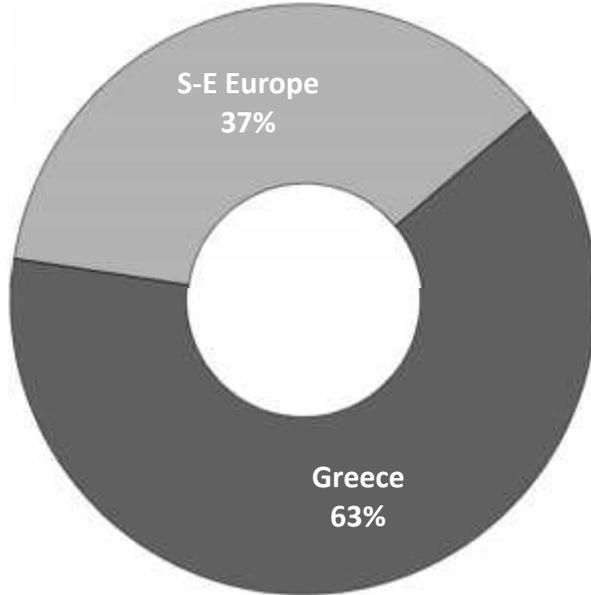


**GARBAGE BAGS**

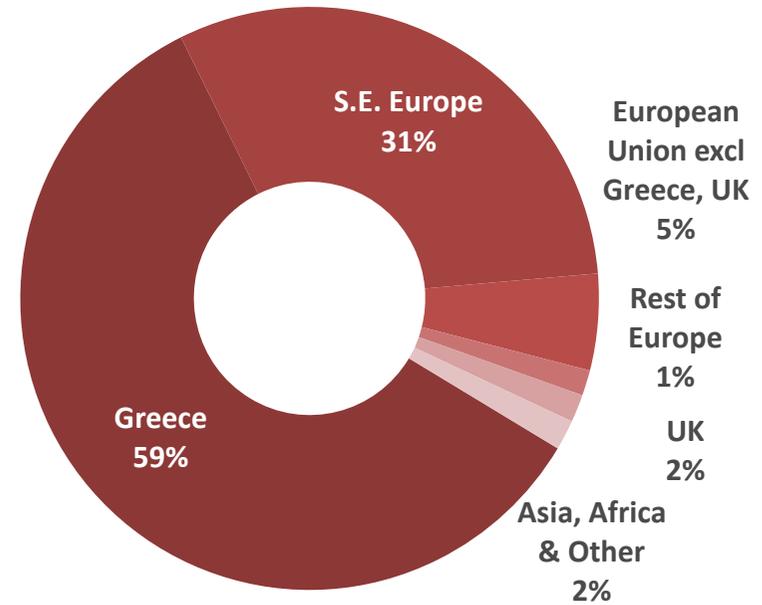


**ROPES & TWINES**

Production Geographical Breakdown



Sales Geographical Breakdown



- 63% of production and 59% of the sales in Greece.
- Main markets are Greece and SE Europe (90%).
- Exports are limited to a specific radius (local production is major advantage)

PACKAGING BUSINESS UNIT | COMPETITION



Huhtamaki



POLARCUP



**WOLF PLASTICS**





# STRATEGY

Pursuing **profitable growth** through  
investment in **capacity & innovation**

 **THRACE GROUP**  
A WORLD OF MATERIALS & SOLUTIONS

## Profitable Growth

### Market-driven Organic growth

- Increase Capacity
- Geographical expansion

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- Focus on two major growth markets:
  - Nonwovens (spunbond & needlepunch)
  - Expand the Rigid Packaging in SE Europe and UK & Ireland

### Value Capture (increase margins)

- Further reduce production cost
- Improvement of Product Mix (shift of sales to the high margin products)
- Development of new high margin products
- Going downstream to the production chain
- Development of Branded Consumer products

<b>Market-driven Organic Growth</b>	<b>Cost ('000 Euros)</b>	<b>Capacity ('000 tons)</b>
<b>CAPEX 2015 – 2016</b>	<b>56.742</b>	<b>25.600</b>
Fiber line expansion (for Needle-punch fiber production)	Technical Fabric BU	Greece
Needle-punch line	Technical Fabric BU	Greece
Spunbond line	Technical Fabric BU	Greece
Geogrid line	Technical Fabric BU	Greece
New Creel	Technical Fabric BU	Greece
Monofilament line	Technical Fabric BU	Greece
Extrusion line	Technical Fabric BU	Scotland
Melt-blown line	Technical Fabric BU	Scotland
Thermoforming lines (4)	Packaging BU	Greece
Thermoforming line	Packaging BU	Bulgaria
Injection lines (5)	Packaging BU	Greece
Injection lines (2)	Packaging BU	Bulgaria
Expansion of Greenhouses	Agricultural BU	Greece

Market-driven Organic Growth	Cost ('000 Euros)	Capacity ('000 tons)
<b>CAPEX 2017 – 2018</b>	<b>28.800</b>	<b>15.000</b>
Grass yarn line	Technical Fabric BU	Scotland
New Building	Technical Fabric BU	Scotland
Spunbond line	Technical Fabric BU	Scotland
Yarns	Technical Fabric BU	Scotland
Slit-film line	Technical Fabric BU	Scotland
Printing line	Technical Fabric BU	Scotland
Needlepunch line	Technical Fabric BU	USA
Injection lines (4)	Packaging BU	Greece
Injection lines (2)	Packaging BU	Bulgaria

Note: CAPEX for 2017-2018 includes only the CAPEX approved so far (expenditure committed)

### Additional CAPEX

Implementation of SAP ERP system to all Group Companies within the next 4 years (total cost 2.5 mil Euros)

**Value Capture (increase margins)**

**Further reduce Production Cost**

Energy Management: target to reduce kwh/kg by 30%

Control cost per man-hour: improve competitiveness

Reduce scrap rates

**Improvement of Product Mix**

Increase the number of sales people

Add new channels to markets where needed

Training for the sales people (Kellogg University)

Focus on customer insight

Each of our product families to be offered together with a service

**Development of new high margin products**

Innovation training for product development (Kellogg University)

Monitor product development with the Horizons concept

**Going downstream to the production chain**

Melt-blown line

Hot-melt line

MDO line

**Branded Consumer products**

OKI DOKI (cups and garbage bags) and TERRA HOME (DIY technical fabrics)



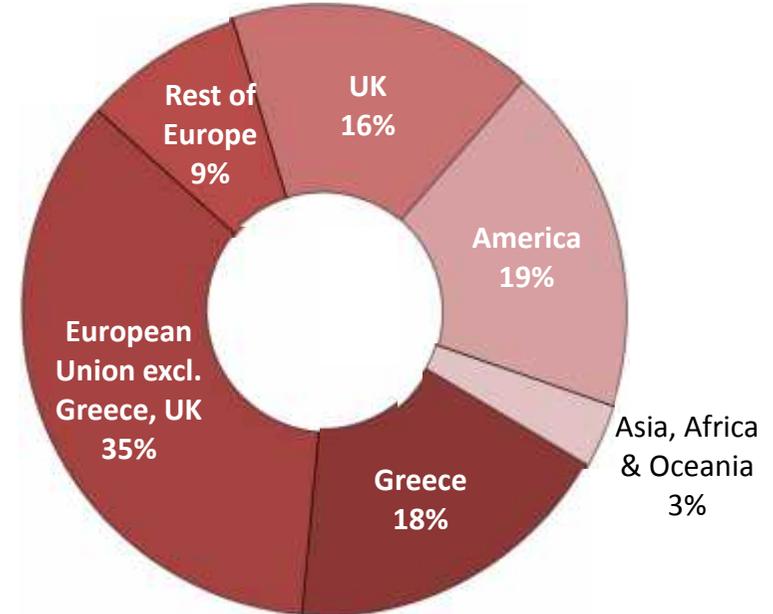
# FINANCIALS

**Statutory Financial Statements:** The change of standards with regard to the consolidation of joint ventures (IFRS 10, 11 and 12) resulted into the change of the consolidation method. IFRS 11 abolishes the concept of the proportional consolidation of the jointly controlled entities. Instead, the jointly controlled entities are now consolidated with the Equity method.

Production Geographical Breakdown

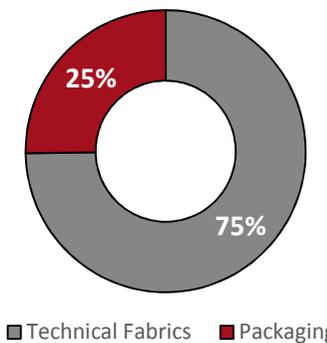


Sales Geographical Breakdown



- 59% of group production in Greece (increased due to the investment plan of 2015 – 2016 which was focused in Greece. This will be reduced due to the investment plan of 2017 – 2018 that is focused abroad.
- Strong sales diversification – only 18% of sales in Greece.

Sales Contribution of each BU

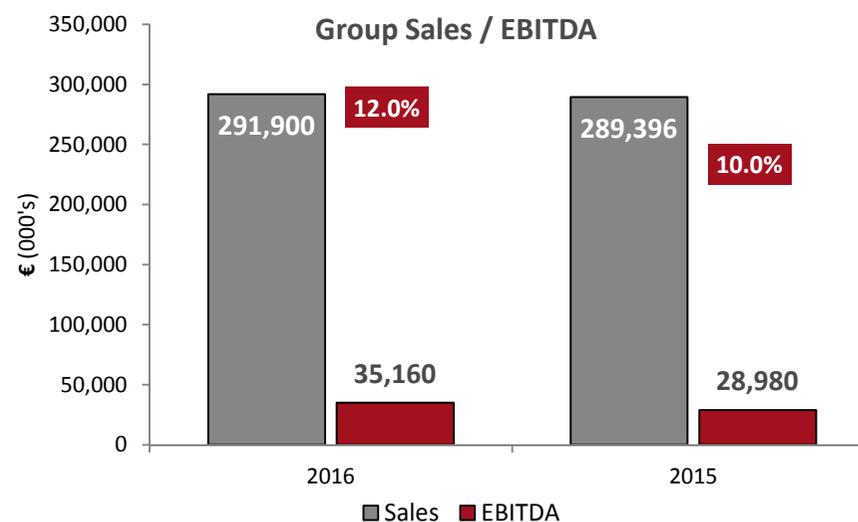


## FY 2016 IFRS FINANCIAL RESULTS | P&L SUMMARY

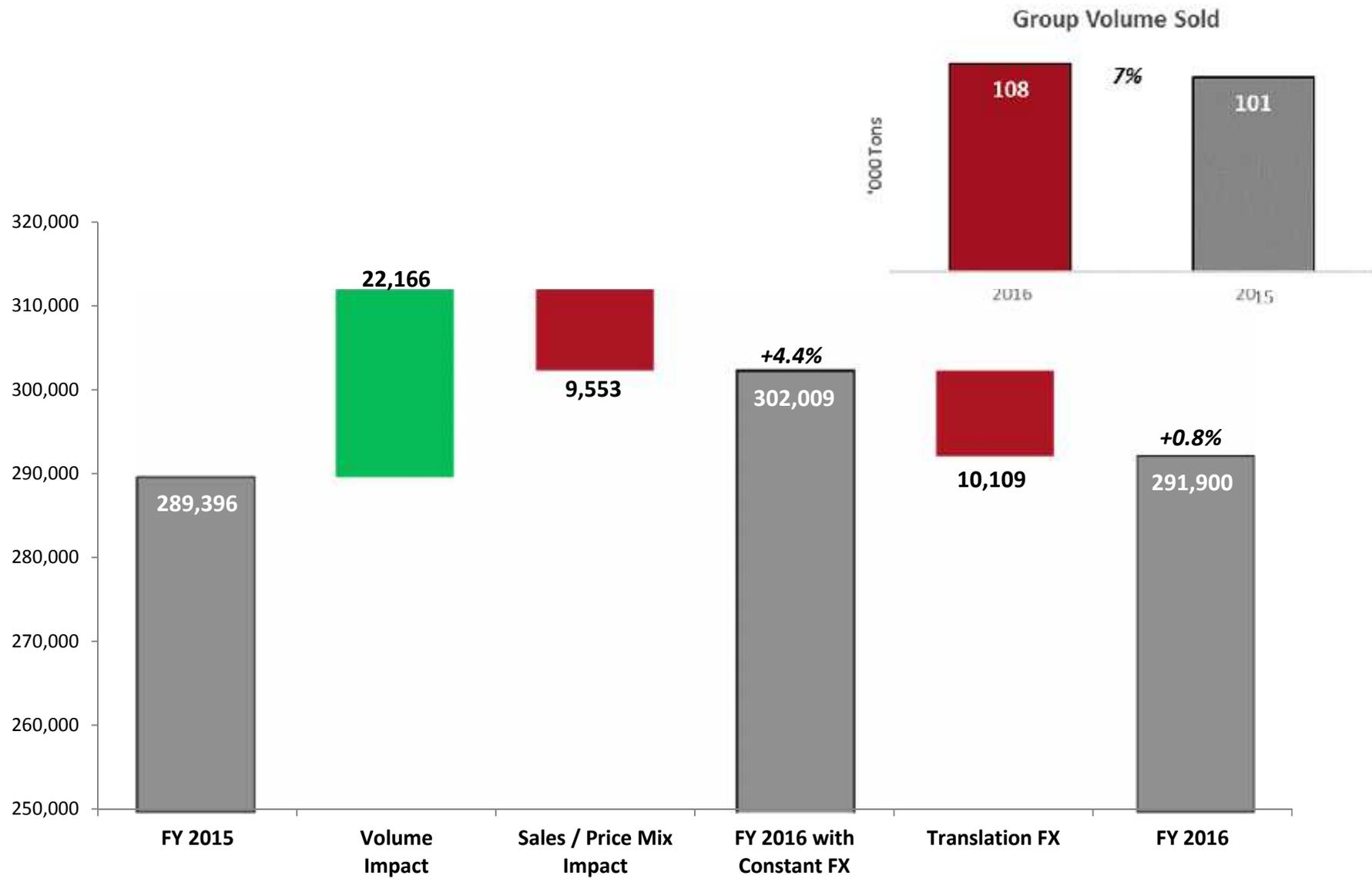
<b>P&amp;L</b> (amounts in 000s €)	<b>2016</b>	<b>2015</b>
<b>Turnover</b>	291,900	289,396
<b>Gross Profit</b>	66,403	59,374
<b>EBIT</b>	22,905	19,080
<b>EBITDA</b>	35,160	28,980
<b>EBT</b>	18,327	13,284
<b>EAT&amp;MI</b>	13,384	9,788
Earnings per Share (in €)	0.304	0.2204
<b>Margins (%)</b>	<b>2016</b>	<b>2015</b>
<b>Gross Profit Margin</b>	22.7%	20.5%
<b>EBIT Margin</b>	7.8%	6.6%
<b>EBITDA Margin</b>	12.0%	10.0%
<b>EBT Margin</b>	6.3%	4.6%
<b>EAT&amp;MI Margin</b>	4.6%	3.4%
<b>Cash Flows</b>	<b>2016</b>	<b>2015</b>
<b>Cash Flows from Operations</b>	19.171	19.184
<b>Cash Flows from Investments</b>	-17.466	-24.521
<b>Cash Flows from Financial Activities</b>	4.026	-1.787
<b>Cash &amp; Cash Equivalents</b>	31.080	26.411
<b>FCF</b>	6.123	1.753

### Improved Group Financial Performance driven by:

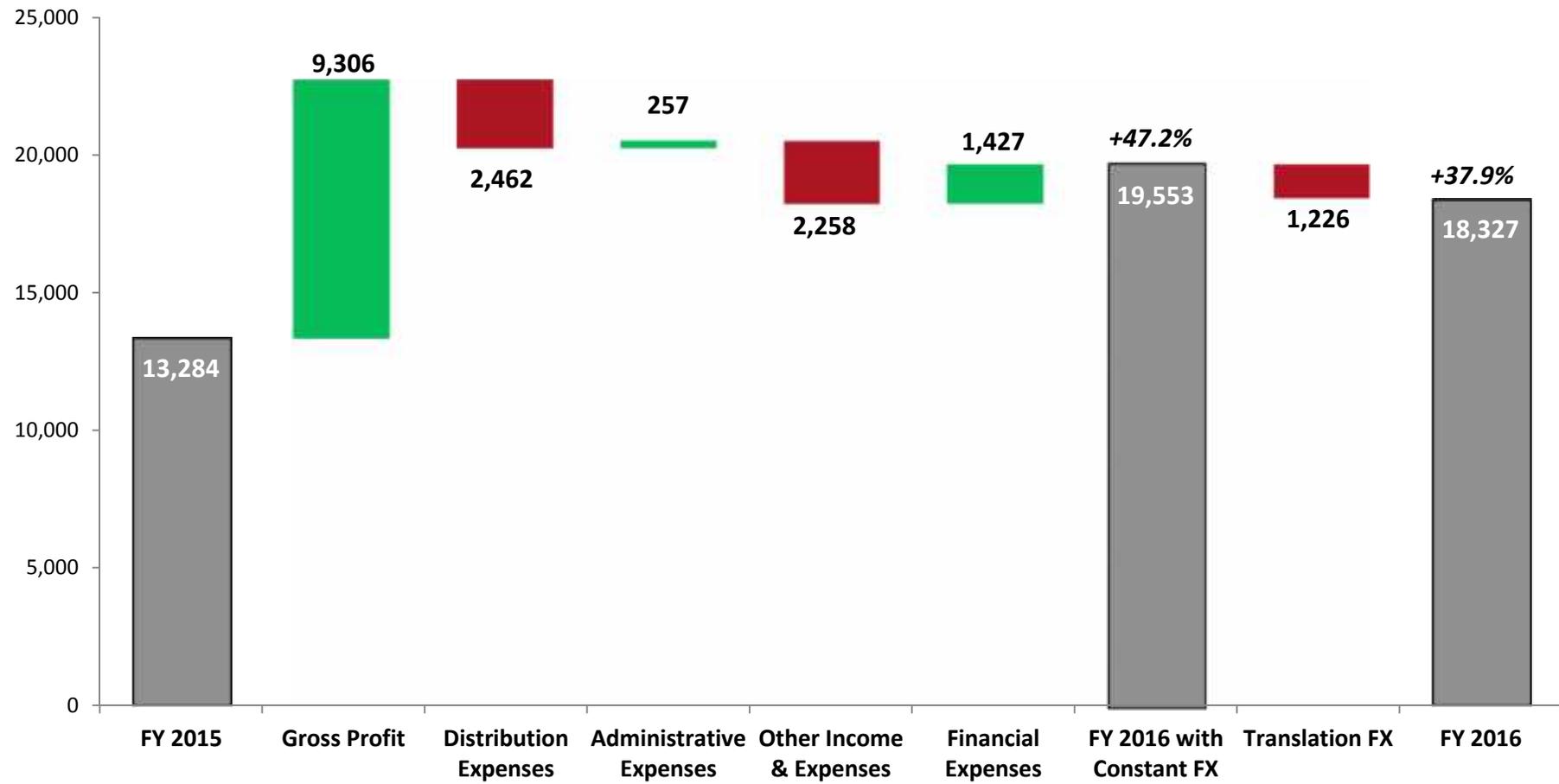
- Increase of sales volume in both sectors of business activity (Technical Fabrics & Packaging)
- Reduction of raw material prices
- Further containment of the fixed production expenses
- Improvement of the product mix in both sectors of the Group's business



FY 2016 IFRS FINANCIAL RESULTS | GROUP REVENUE BRIDGE (€ '000)

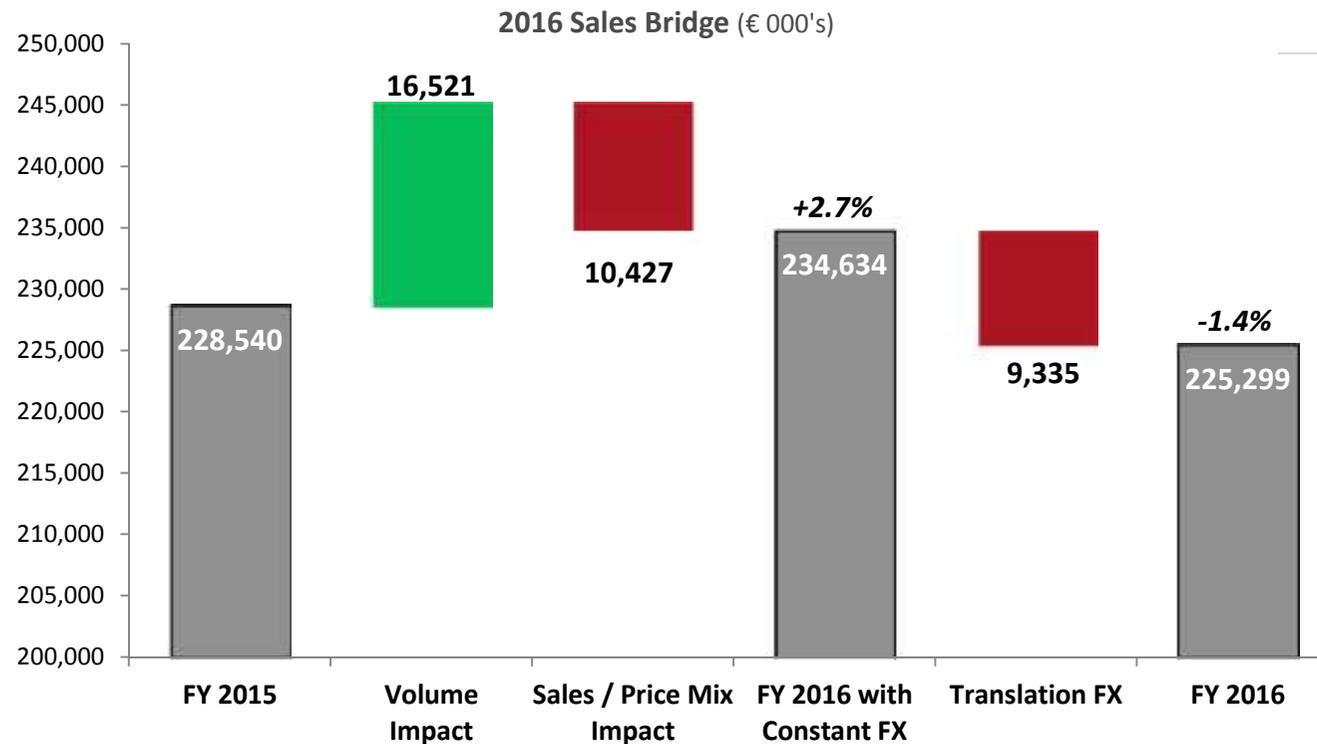
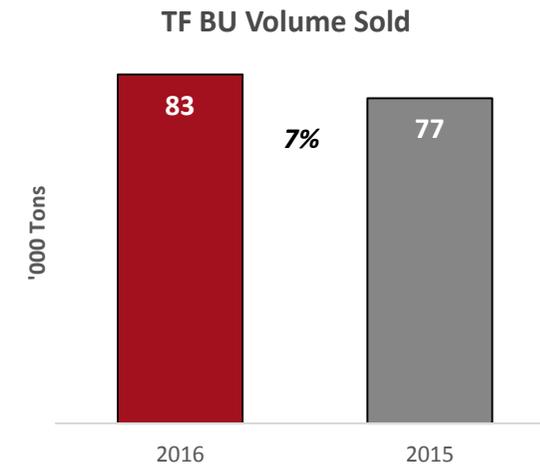


FY 2016 IFRS FINANCIAL RESULTS | GROUP EBT BRIDGE (€ '000)



## TECHNICAL FABRICS BUSINESS UNIT | OVERVIEW

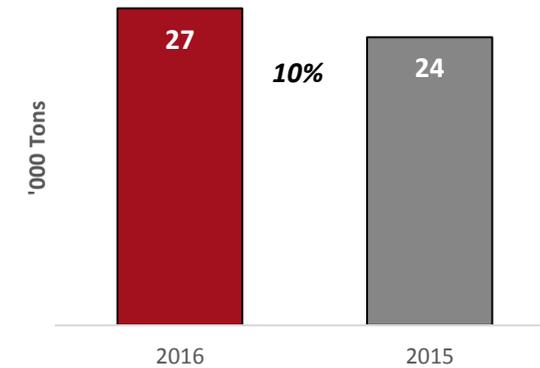
Key P & L Items (amounts in €'000)	FY 2016	FY 2015
Sales	225,299	228,540
y-o-y Change %	-1.4%	
EBITDA	22,560	19,746
EBITDA Margin	10.0%	8.6%



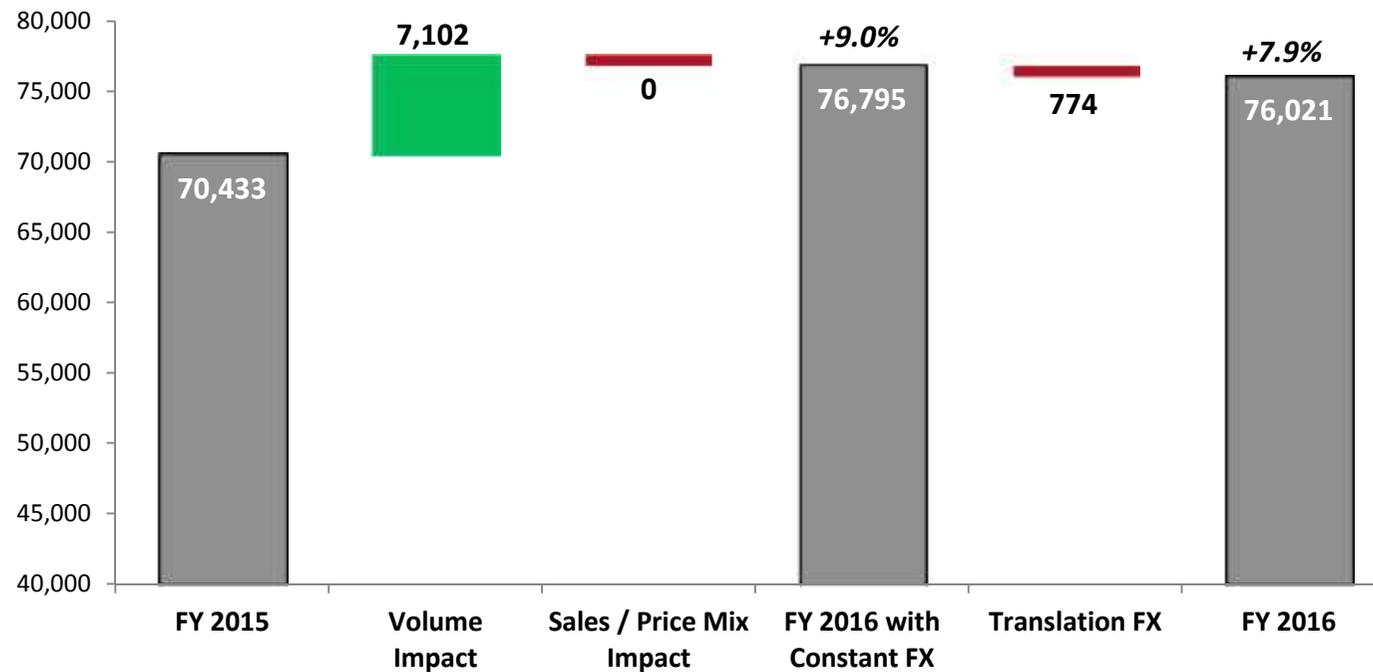
## PACKAGING BUSINESS UNIT | OVERVIEW

Key P & L Items (amounts in €'000)	FY 2016	FY 2015
Sales	76,021	70,433
y-o-y Change %	+7.9%	
EBITDA	12,357	9,018
EBITDA Margin	16.3%	12.8%

Packaging BU Volume Sold



2016 Sales Bridge (€ 000's)

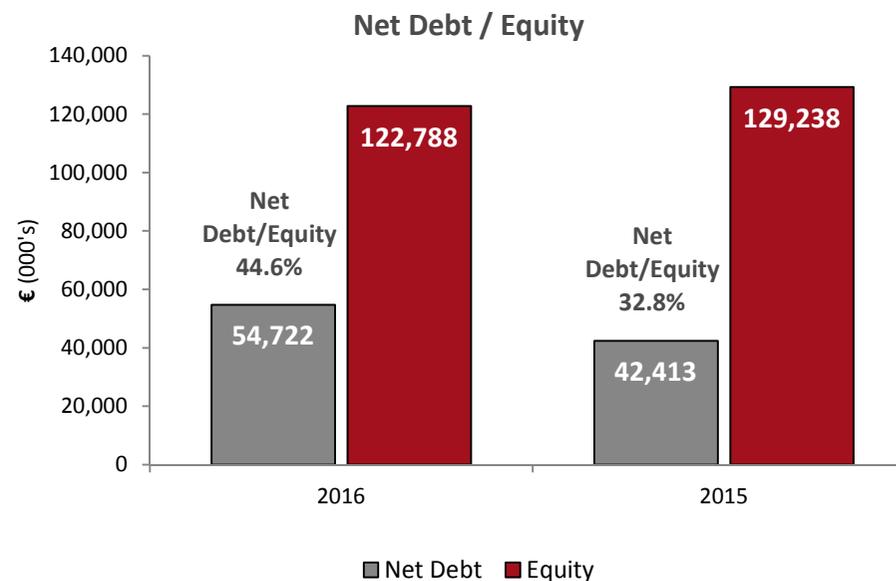


## FY 2016 IFRS FINANCIAL RESULTS | BS SUMMARY

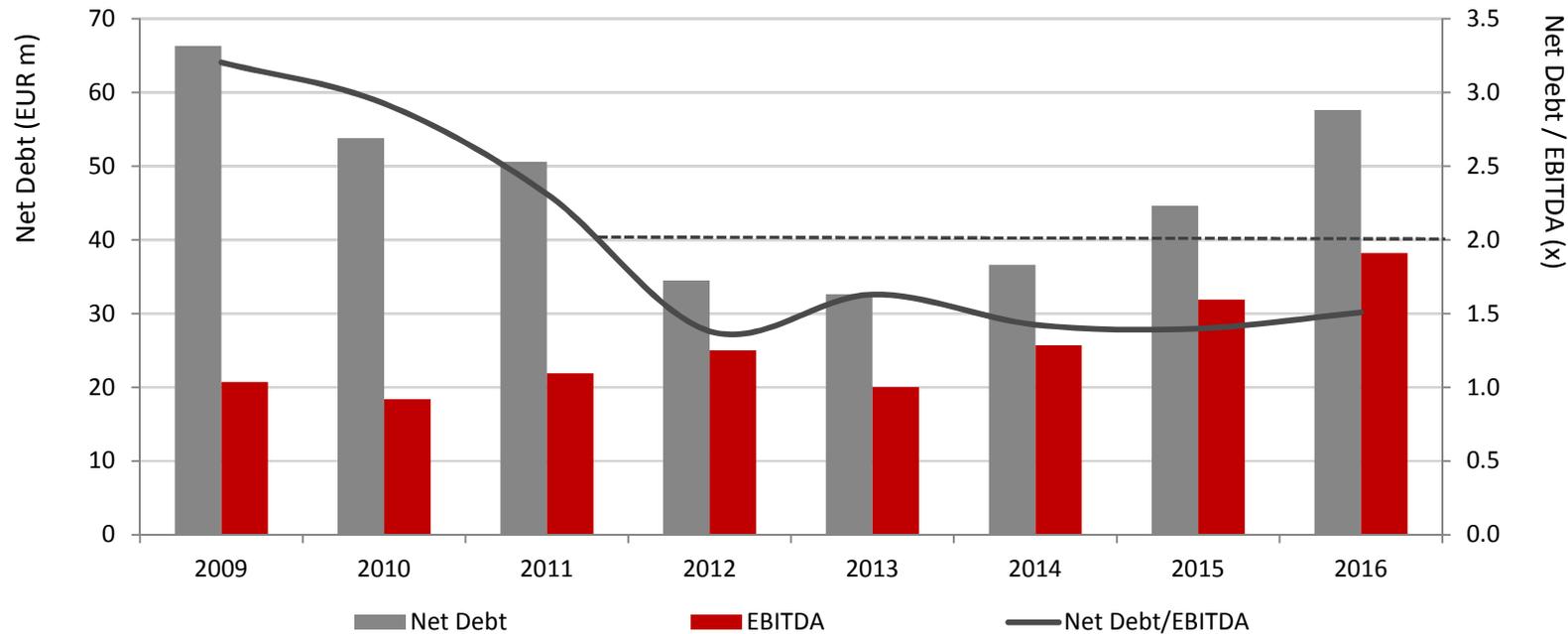
Balance Sheet Items	2016	2015
Non Current Assets	140,522	122,669
Current Assets	148,969	141,862
<b>Total Assets</b>	<b>289,491</b>	<b>264,531</b>
Loans	85,802	68,824
Cash & Cash Equivalents	31,080	26,411
<b>Net Debt</b>	<b>54,722</b>	<b>42,413</b>
Equity	122,788	129,238

Key Ratios	2016	2015
Net Debt/Sales	18.7%	14.7%
Net Debt/Equity	44.6%	32.8%
EV/EBITDA	4.8	5.3
ROCE	10.6%	10.2%
ROE	11.1%	7.8%
ROIC	10.3%	9.2%
Avg Inventories Days	90	81
Avg Trade Receivables Days	65	67
Avg Suppliers Days	52	48

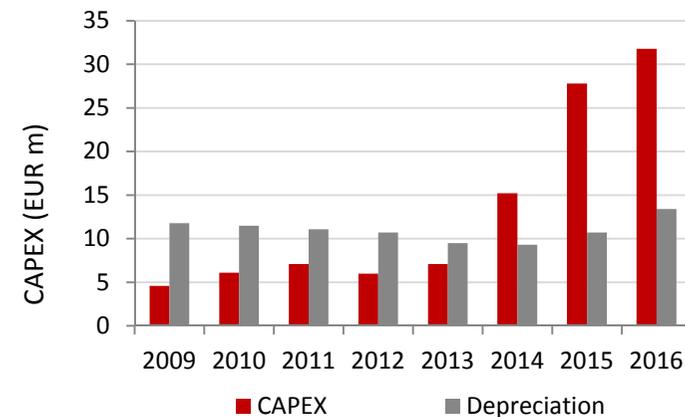
CAPEX (in mi €)	2016	2015
Technical Fabrics	22.5	18.2
Packaging	7.4	7.0
Agricultural & Other	0	1.6
<b>Total CAPEX</b>	<b>29.9</b>	<b>26.8</b>
CAPEX of Greek Subsidiaries	23.8	18.9
CAPEX of subsidiaries abroad	6.1	7.9



## FY 2016 IFRS FINANCIAL RESULTS | NET DEBT (including the JVs)



- High investment plan of 2015 – 2016 resulted in increased Net Debt in 2016.
- Net Debt/EBITDA remains below 2x even though the new investments generated a small portion of their EBITDA in 2016.



FY 2016 IFRS FINANCIAL RESULTS | EARNINGS PER SHARE

	2016	2015
Earnings Before Taxes	18,327	13,284
Income Tax	4,668	3,263
Minority Interest	275	233
Profit Attributable to Shareholders	13,384	9,788
Adjusted # of Shares	44,022	44,406
EPS (in euro)	0.304	0.2204

# GROUP FINANCIAL PERFORMANCE | STOCK DATA

### Stock Price & Volume



### Relative Performance (vs ASE index)



Q1 2017 IFRS FINANCIAL RESULTS | KEY FINANCIAL FIGURES (€ '000)

	Q1 2017	Q1 2016	Δ %	
<b>VOLUMES (tons)</b>	29.412	24.942	17.9%	↑
<b>TURNOVER</b>	76.545	70.305	8.9%	↑
<b>GROSS PROFIT</b>	16.765	16.177	3.6%	↑
<b>EBITDA</b>	7.794	7.736	0.7%	↑
<b>EAT &amp; MI</b>	2.147	3.280	34.5%	↓

## BOARD OF DIRECTORS

- Constantinos Chalioris:** Chairman & CEO  
**Theodosios Kolyvas:** Executive Vice-Chairman  
**George Braimis:** Executive Member  
**Dimitris Malamos:** Executive Member  
**Vassilis Zairopoulos:** Non-Executive Member  
**Christos Chiatis:** Independent Non-Executive Member  
**Petros Fronistas:** Independent Non-Executive Member  
**Constantinos Gianniris:** Independent Non-Executive Member  
**Ioannis Apostolakos:** Independent Non-Executive Member  
**Nikitas Glykas:** Independent Non-Executive Member  
**Theodoros Kitsos:** Independent Non-Executive Member

## AUDIT COMMITTEE

- Christos Chiatis:** Independent Non-Executive Member,  
Chairman of the Committee  
**Constantinos Gianniris:** Independent Non-Executive Board Member  
**Ioannis Apostolakos:** Independent Non-Executive Board Member

The Company, in compliance with the provisions and regulations of Law, compiled and applies its own Corporate Governance Code, the text and the content of which are generally available to the website of the Company [www.thracegroup.com](http://www.thracegroup.com).

## ALTERNATIVE PERFORMANCE MEASURES (APM) | ESMA

### ***Alternative Performance Measures (APM)***

During the description of the developments and the performance of the Group, ratios such as the EBIT and the EBITDA are utilized.

- **EBIT (The indicator of earnings before the financial and investment activities as well as the taxes)**
  - The EBIT serves the better analysis of the Group's operating results and is calculated as follows: Turnover plus other operating income minus the total operating expenses, before the financial and investment activities. The EBIT margin (%) is calculated by dividing the EBIT by the turnover.
- **EBITDA (The indicator of operating earnings before the financial and investment activities as well as the depreciation, amortization, impairment and taxes)**
  - The EBITDA serves the better analysis of the Group's operating results and is calculated as follows: Turnover plus other operating income minus the total operating expenses before the depreciation of fixed assets, the amortization of grants and the impairments, as well as before the financial and investment activities. The EBITDA margin (%) is calculated by dividing the EBITDA by the turnover.

Ratios	Explanation
<b>Net Bank Debt / Sales</b>	Relation between Bank Debt and Sales
<b>Net Bank Debt / Equity</b>	Relation between Bank Debt and Equity
<b>EV/EBITDA: Value of the Company / Operating Earnings before Financial and Investment Activities, Depreciation, Amortization, Impairments and Taxes</b>	Current Market Capitalization, plus the Company's Debt, minus its Cash, divided by the Operating Earnings before Financial and Investment Activities, Depreciation, Amortization, Impairments and Taxes
<b>ROCE: Return on Capital Employed</b>	Operating Earnings before Financial and Investment Activities and Taxes minus the Taxes / Total Assets minus Current Liabilities
<b>ROE: Return on Equity</b>	Earnings after Taxes and Minority Rights / Equity attributable to shareholders of the Company
<b>ROIC: Return on Invested Capital</b>	Operating Earnings before Financial and Investment Activities and Taxes minus the Taxes divided by the Invested Capital (Bank Debt + Equity – Cash)
<b>Receivables and Turnover Ratios (in days)</b>	
<b>Average Customer Turnover (days)</b>	$[(\text{Customers 2016} + \text{Customers 2015})/2]/\text{Sales 2016} * 365 \text{ days}$
<b>Average Inventory Turnover (days)</b>	$[(\text{Inventory 2016} + \text{Inventory 2015})/2]/\text{Cost of Goods Sold 2016} * 365 \text{ days}$
<b>Average Suppliers Turnover (days)</b>	$[(\text{Suppliers 2016} + \text{Suppliers 2015})/2]/ \text{Cost of Goods Sold 2016} * 365 \text{ days}$

# **SUPPLEMENTARY MATERIAL**

Group's **Production Plants**  
and **Product Range** per Business Unit

## THRACE GROUP | TECHNICAL FABRICS PRODUCTION PLANTS



**Thrace Nonwovens & Geosynthetics S.A.**  
Xanthi, Greece



Non-wovens plant  
[Needle punch]

Non-wovens plant  
[Spun bond]

Wovens plants



**Products:** Polypropylene woven flat and circular fabrics, needlepunched and spunbond nonwoven fabrics, staple fibres, multifilament yarns and tapes, HDPE tape and monofilament nets, polypropylene ropes, webbings, monofilament yarns, vapour control layers, roofing membranes and specialty textile materials

**Areas of Applications:** Geosynthetics, agri & horticulture, building construction, industrial fabrics, packaging, furniture & bedding, filtration, disposables, medical, workwear.

**Markets:** Thrace NG exports all over the world, in more than 80 countries



**Don & Low Ltd**  
Forfar, Scotland



Non-wovens plant  
[Spun bond]

Wovens plant



**Products:** Woven polypropylene, nonwoven polypropylene, nonwoven polyethylene, polypropylene yarns, armordon

**Areas of Applications:** Floorcoverings, horticulture, medical, furniture & bedding, geosynthetics, industrial textiles, industrial yarns, construction, composites

**Markets:** the products are sold internationally with key markets being Europe and North America.

## THRACE GROUP | TECHNICAL FABRICS PRODUCTION PLANTS



**Thrace Linq Inc.**  
Summerville, SC USA

**Non-wovens plant**  
[Needle punch]



**Products:** Geosynthetics including Silt Fence, Woven Slit Film, Medium Strength, Monofilaments, Civil Nonwovens, Paving Fabrics, Environmental Nonwovens. Agricultural including Agrotexiles Groundcover and Landscape. Industrial Fabrics including Absorbency

**Areas of Applications:** Agriculture, Automotive, Construction, Filtration, Furniture & Bedding, Laminates, Packaging

**Markets:** North America, Mexico, Central and South America



**Lumite Inc.**  
Alto, GA USA

**Wovens plant**



**Products:** Mining/solids separation, waste water treatment, municipal water filtration, pool and spa filtration, swimming pool covers, trampolines, backpacks, protective vests, military gear, footwear, ground cover, shade fabric, greenhouse film, turf reinforcing mats, geo tubes and antiviral screening.

**Areas of Applications:** Horticultural, Industrial, Recreational, Geotextiles and Military

**Markets:** Key markets are North, Central and South America. Lately increasing presence in China and Australia



**Thrace Eurobent S.A.**  
Xanthi, Greece

**GCL plant**



**Products:** GCL (Geosynthetic Clay Liner)

**Areas of Applications:** The base and surfaces seals for landfill sites, Canals and storage reservoirs, Tank storage sites, Composting plants, Biotopes, Tunnel and building seals, Filtering and storage reservoirs, Run-off basins, Roads leading through environmentally sensitive areas

**Markets:** **Mainly** European market and Turkey. Targeting Arabian peninsula, Latin America

## THRACE GROUP | PACKAGING PRODUCTION PLANTS



**Thrace Plastics Pack S.A.**  
Ioannina & Xanthi, Greece

Injection plant  
Ioannina

Thermoforming plant  
Ioannina

Injection plant  
Xanthi



**Products:** Injection Moulded Containers, Thermoformed Cups & Lids, Thermoformed Drinking Cups, Bags in Box, 5 Gal. Polycarbonate Bottles.

**Areas of Applications:** Industrial packaging for the Paint/Chemical Industry and Consumer Packaging for the Food industry

**Markets:** The main market of Thrace Pack has traditionally been South East Europe, but over the past decade it has become a considerable player in Northern and Western Europe. Lately Thrace Pack has expanded its activities towards new markets, such as Africa and the Gulf based areas.



**Thrace Plastics S.A.**  
Xanthi, Greece

Films plant  
Garbage bags plant



**Products:** PE Bags, FFS film, FIBC liners, Shrink film, Top Cover, Stretch Hood and Shrink Pallet Cover Film.

**Areas of Applications:** Wide range of packaging solutions for chemicals, animal feed, minerals and foodstuff.

**Markets:** Mainly in Greece. Through its close collaboration with its subsidiaries, Thrace Plastics Co S.A. has created a solid sales network in Great Britain, while targeting the markets of the rest of Europe.

## THRACE GROUP | PACKAGING PRODUCTION PLANTS



Thrace Ipoma A.D.  
Sofia, Bulgaria



Injection plant

Thermoforming plant

FIBC plant



**Products:** Rigid packaging (pails, containers), Crates (general purpose, soft drinks and beer), Chairs, Stadium seats, FIBCs, Big Bags.

**Areas of Applications:** Industrial use; food, chemical and paints production industries; meat, bread and agricultural processing; fertilizers and bulk materials handling etc.

**Markets:** The main markets of Thrace Ipoma have traditionally been Bulgaria, Eastern Europe and the Balkans, but over the last decade we successfully expanded and sell all over Europe.



Thrace Greiner SRL  
Sibiu, Romania



Injection plant



**Products:** Round and oval buckets and lids, with IML finishing. Oval or rectangular containers with IML finishing. Full range of rounds buckets between with offset printing.

**Areas of Applications:** Food Industry (dairy products, ketchup & mustard, ice cream, nutritive bases/substances), Paints industry

**Markets:** The main market of Thrace Greiner Packaging SRL is Romania but the Company is exporting to the wider area of SE Europe.

# THRACE GROUP | TECHNICAL FABRICS PRODUCT RANGE AND APPLICATIONS

Product Family	Products				Applications
 <p><b>GEOSYNTHETICS</b></p>	 <p>Nonwoven Geos</p>	 <p>Erosion Control Mats</p>	 <p>Slit Fences</p>	 <p>Geobags / Gtextile tubes</p>	<p><b>WHERE:</b> Roads, railways, paving, landfills, mines, river banks, channels, pipe inlet/outlets, construction sites, slopes and shorelines, foundation walls, offshore breakwater construction.</p> <p><b>WHY:</b> Filtration, separation, erosion control, drainage, leachate collection, methane gas collection functions.</p>
 <p>Woven Geos</p>	 <p>Geogrids</p>	 <p>Drainage nets</p>	 <p>GCL</p>		
 <p><b>CONSTRUCTION</b></p>	 <p>Stadium Seats</p>	 <p>Roofing Membranes</p>	 <p>Housewraps</p>	 <p>Scaffoldings</p>	<p><b>WHERE:</b> Stadiums, sports halls, entertainment venues, roofs, walls, timber and steel framed constructions, floor slabs, driveways, precast units, buildings, pools, construction sites, athletic courts, demolition sites, work zones, highways, ski trails, lift lines.</p> <p><b>WHY:</b> Vapor control, breathability, reflectability, crack control of concrete, rubbish or debris containment, protection from driving rain and wind, crown safety and control functions.</p>
 <p>Concrete Fibres</p>	 <p>Road Safety Nets</p>	 <p>Vapor Control</p>			
 <p><b>FILTRATION</b></p>	 <p>Liquid Filtration</p>	 <p>Air Filtration</p>	<p><b>WHERE:</b> Chemical processing, mining, sugar refining, water filtration, waste water treatment, beverage and pool/spa, vacuum cleaners, respirators, cartridges</p> <p><b>WHY:</b> Dewater ores, clarify waste water and purify swimming pool and drinking water, air filtration, respirators filters.</p>		

# THRACE GROUP | TECHNICAL FABRICS PRODUCT RANGE AND APPLICATIONS

Product Family	Products				Applications
 <p><b>AGRI / HORTICULTURE AQUACULTURE</b></p>	 <p><b>Groundcover</b></p>	 <p><b>Root Barrier</b></p>	 <p><b>Weather Protection</b></p>	 <p><b>Mulching</b></p>	<p><b>WHERE:</b> Greenhouses, gardens, nurseries and landscaped areas, Outdoor storage of straw bales &amp; sugar beets, indoor storage of goods, harvesting, multiple agricultural applications, in anchor &amp; mooring lines for small craft swings, lead ropes and rope ladders, ship docking, trucks, fish farming, fishing.</p> <p><b>WHY:</b> Maintain even soil temperatures, Root control, rain, snow, wind, frost and hail protection, minimizing the risk of mould creation, breathability, prevent the growth of weeds, bird and insect protection, shading, Seed experimentation and breeding controlled pollination</p>
 <p><b>LANDSCAPE / GARDEING</b></p>	 <p><b>Cropcover</b></p>	 <p><b>Nets</b></p>	 <p><b>Cages / Shade</b></p>	 <p><b>Olive Collection</b></p>	
 <p><b>SPORT &amp; LEISURE</b></p>	 <p><b>Trampoline Fabrics</b></p>	 <p><b>Pool Covers</b></p>	<p><b>WHERE:</b> Commercial venues and private gardens, floriculture, small greenhouses, landscaping, tree planting, paving.</p> <p><b>WHY:</b> Weed growth prevention, erosion control, shading, protection, reparation, reinforcement, anti-freeze.</p>		
<p><b>WHERE:</b> Trampoline mats, trampoline safety enclosures, aquatic trampolines and catamaran beds, Outdoor and indoor pools.</p> <p><b>WHY:</b> Pool cover is used in conjunction with heavy springs, serving as a cover to keep out the elements during the off season. It also serves as a safety mechanism for protection against accidental falls into the water</p>					

# THRACE GROUP | TECHNICAL FABRICS PRODUCT RANGE AND APPLICATIONS

Product Family	Products					Applications
 <p><b>FLOOR COVERING</b></p>	 <p><b>Carpet Backing</b></p>	 <p><b>Pile Yarns</b></p>	 <p><b>Carpet Tile Backing</b></p>	 <p><b>Carpet Warp - Weft Yarns</b></p>	<p><b>WHERE:</b> Tufted Carpets, automotive, residential, contract, Carpet tile backing, Woven carpet production</p> <p><b>WHY:</b> primary carpet backing to provide a base cloth to hold the yarn in place. Secondary carpet backing provides further pile-yarn stability and increases stability to the carpet structure, pile yarns for woven and tufted carpets, fibre distribution and shrinkage</p>	
	 <p><b>Underlay Substrates</b></p>					
 <p><b>FURNITURE &amp; BEDDING</b></p>	 <p><b>Covering Separation</b></p>	 <p><b>Pocket Springs</b></p>	 <p><b>Tablecloth Fabrics</b></p>	 <p><b>Allershield Aquashield</b></p>	<p><b>WHERE:</b> Furniture and Bedding Industry (pillow cases, neatening fabrics, separating layers, dust covers, cushion fabrics, pocket springs, bottom and back covers, quilting layers. It is also used as a home textile for table cloths, mattress covers, suit covers and curtain blinds), Bedding, medical, incontinence bedding laminate, allergy relief laminate</p> <p><b>WHY:</b> allergy relief bedding, water resistance. anti-microbial or fire-retardant</p>	
	 <p><b>Bedding Reinforcement</b></p>					
 <p><b>ADVANCED FABRICS</b></p>	 <p><b>Armorweave<sup>®</sup></b></p>	 <p><b>Armordon<sup>®</sup></b></p>				<p><b>WHERE:</b> Footwear, protective vests, aircraft and marine seats, backpack straps and backing, helmets and military gear, Ballistics, armour and security panelling, blast protection, personal applications, automotive exterior and interior panelling, luggage, loudspeaker cones, concrete shuttering</p>

# THRACE GROUP | TECHNICAL FABRICS PRODUCT RANGE AND APPLICATIONS

Product Family	Products				Applications
 <p><b>MEDICAL &amp; HYGIENE</b></p>	 <p><b>Gowns &amp; Drapes</b></p>	 <p><b>Instrument Tray Wraps</b></p>	 <p><b>Medical Wipes</b></p>	 <p><b>Ostomy Bags</b></p>	<p><b>WHERE:</b> surgical masks, head covers, surgical coats, aprons, shoe covers, protective overalls and face masks, chemical suits, transport of medical instruments, preventing fluid or blood transfer. base carriers for the wipes industry, Ostomy, Bedding, medical, incontinence bedding laminate, allergy relief laminate</p> <p><b>WHY:</b> Safety, protection, softness, high tensile strength &amp; elongation, comfort, protects the skin from moisture build up, allergy relief</p>
 <p><b>AUTOMOTIVE</b></p>	 <p><b>Car Mats and Liners</b></p>	 <p><b>Seating</b></p>	 <p><b>Car Cover Fabrics</b></p>	 <p><b>Acoustic Absorbents</b></p>	<p><b>WHERE:</b> Pull straps, seam reinforcement, seat backs, seat cover construction, car covers, upholstery backing, car mats, boot liners, under body shield</p> <p><b>WHY:</b> covering and protecting car seats and in general producing upholstered seats, barrier and/or breathable properties, lightness, durability, sound absorption, safety, comfort, fuel efficiency, Oil, Diesel, Water Repellent, flame resistance</p>
 <p><b>ARNO WEBBINGS / STRAPS / ROPES</b></p>	 <p><b>Straps</b></p>	 <p><b>Ropes</b></p>	 <p><b>Webbings</b></p>	 <p><b>Text Webbings</b></p>	<p><b>WHERE:</b> Car, bicycle &amp; sail tie straps and webbings, luggage, ratchet &amp; general purpose straps and webbings, high performance stainless steel buckles for automotive and marine applications. Multiple agricultural applications, anchor &amp; mooring lines for small crafts, swings, lead ropes and rope ladders, ship docking, transportation</p> <p><b>WHY:</b> ARNO patented non-slip steel buckles, strength, resistance to acids and alkalis, easy to splice</p>

# THRACE GROUP | TECHNICAL FABRICS PRODUCT RANGE AND APPLICATIONS

Product Family	Products				Applications
 <p><b>INDUSTRIAL FABRICS</b></p>	 <p>Tarpaulin</p>	 <p>Lamination – R. Substrates</p>	 <p>Passenger Transport</p>	 <p>Industrial Workwear</p>	<p><b>WHERE:</b> protect stacks of big-bags and palletized products, Thrace Group tarpaulins can also be used for other protection purposes, Lamination substrate, construction, packaging, composites, automotive, composites hoses, environmental liners, Airline, passenger transport, surgical masks, head covers, surgical coats, aprons, shoe covers, protective overalls and face masks, chemical suits, FIBC manufacturing</p> <p><b>WHY:</b> protect packed bulk products from the sun, rain, snow, ice, wind and dirt, stability, strength and reinforcement to products, Absorbency</p>
 <p>Defense</p>	 <p>Absorbents</p>	 <p>FIBC Fabrics/ Components</p>	<p><b>WHERE:</b> Filtration fabrics, slings, industrial, braided ropes, webbings, sewing, nets, belts, Cable filling, cable identification, Filtration fabrics, slings, braided ropes, webbings, sewing, nets, belts, Woven and tufted carpets for various end-use applications (automotive, residential, contract), Woven carpet production, Sewing, slings, industrial, braid ropes, webbings, nets, belts, filtration, PP Staple Fibres make them suitable for a variety of applications: geotextiles, filtration products, furniture &amp; bedding materials, automotive fabrics and textiles for other industrial uses.</p> <p><b>WHY:</b> resistance to acids and alkalis, easy identification of a variety of cabling products, high tenacity, chemical resistance and flexibility, smooth performance during sewing</p>		
 <p><b>INDUSTRIAL YARNS - FIBRES</b></p>	 <p>Monofilament Yarns</p>	 <p>Cable Fillers</p>		 <p>Cable Identification</p>	 <p>PP Yarn for filtration</p>
 <p>PP Carpet face Yarns</p>	 <p>Sewing Yarns</p>	 <p>PP Carpet Weft Yarns</p>	 <p>PP Stable Fibers</p>		
 <p>PP Yarns for Webbings</p>	 <p>Curtain Header Tape</p>	 <p>PP Tapes</p>			

# THRACE GROUP | TECHNICAL FABRICS PRODUCT RANGE AND APPLICATIONS

## Product Family



**FIBC / FILLING SOLUTIONS**

## Products



**Reel Bags for auto filling**



**1 & 2 Loop Bags**



**4 & 5 Loop Bags**



**Filling Solutions**



**Optiflow Bags**

## Applications

Reel bags, loop bags and automatic filling systems which are developed for automatic (or not) filling lines suitable for a big range of bulk products: fertilisers, fish-feed, seeds, resins, chemicals, powders etc.

# THRACE GROUP | PACKAGING PRODUCT RANGE AND APPLICATIONS

Product Family	Products			Applications
 <p data-bbox="248 574 577 683"><b>INJECTION/BUCKETS/ PAILS/CONTAINERS</b></p>	 <p data-bbox="591 462 770 533"><b>Round and Oval</b></p>	 <p data-bbox="779 462 958 533"><b>Square and Rectangular</b></p>	 <p data-bbox="967 462 1146 533"><b>Special Containers</b></p>	<p data-bbox="1344 346 2056 446"><b>Food:</b> baking ingredients, biscuits, confectionery, desserts, dairy products, yellow fats, ice cream, pet food, seafood, salads, sauces, soups, salt, jams, honey</p> <p data-bbox="1344 446 2056 542"><b>Non-food:</b> paints, adhesives, coatings, construction materials, fertilisers</p>
 <p data-bbox="248 932 577 1040"><b>THERMOFORMING CUPS</b></p>	 <p data-bbox="591 820 770 890"><b>Cups and Lids</b></p>	 <p data-bbox="779 820 1146 890"><b>Drinking Cups</b></p>		<p data-bbox="1344 703 2056 782">Dairy products, yellow fats, confectionery, ice cream, jams</p> <p data-bbox="1344 782 2056 861">Water and beverages, cold coffee, beer</p>
 <p data-bbox="248 1289 577 1372"><b>CRATES</b></p>	 <p data-bbox="591 1177 770 1248"><b>General Purpose</b></p>	 <p data-bbox="779 1177 1146 1248"><b>Bottle Crates</b></p>		<p data-bbox="1344 1061 2056 1117">Agricultural products, bread, meat</p> <p data-bbox="1344 1117 2056 1181">Beer, soft drinks, alcoholic drinks, other bottled drinks/water</p>

# THRACE GROUP | PACKAGING PRODUCT RANGE AND APPLICATIONS

Product Family	Products				Applications
 <p><b>BAGS – FFS FILMS</b></p>	 <p><b>PP Woven Bags</b></p>	 <p><b>PE Knitted Bags</b></p>	 <p><b>Heavy Duty Bags</b></p>	 <p><b>FFS Films</b></p>	<p>Multiple packaging applications: sand bags, coal bags, animal feed bags, log bags, turf bags, grain sacks, timber bags, wood kindling bags, vegetable bags, rubble sacks, bin liners, refuse sacks, pallet liners, box liners. Knitted bags for packaging fruits and vegetables such as potatoes, onions, cabbages, eggplants, carrots, lemons. Packaging materials as Plastic resins in pellets or powder-PE, PP, PS, chemical products, sulfur anhydride, phtalic, food, sugar, salt, fertilizers etc.</p>
 <p><b>PALLET COVERING / PACKAGING FILM</b></p>	 <p><b>Shrink Hood</b></p>	 <p><b>Stretch Hood</b></p>	 <p><b>Shrink Film</b></p>	 <p><b>Pallet Cover/ Hood</b></p>	<p>Shrink hood is commonly used as an overwrap on many types of packaging, including boxes and pallets. Stretch Hood and Pallet Hood is mainly used in palletisation as it is designed to provide excellent load protection, load stability and load visibility along with good line speed, capital cost and cost per pallet. Shrink film is commonly used as an overwrap on many types of packaging, including boxes, cartons and pallets.</p>
 <p><b>CONTAINER LINERS/ CARGO PROTECTION</b></p>	 <p><b>Dry Bulk Containers L.</b></p>	 <p><b>Liquid Bulk Containers L.</b></p>	 <p><b>Cargo Protection</b></p>	<p>The DBCL and LBCL are used for protecting dry or liquid bulk products when transporting and storing them in sea containers. The desiccant products are designed to absorb and neutralize moisture that may accumulate in cargo spaces. The dunnage bags protect many types of cargos such as pallets, big-bags, boxes and rolls, during transportation in sea containers, trucks, railway wagons, etc.</p>	

# THRACE GROUP | PACKAGING PRODUCT RANGE AND APPLICATIONS

Product Family	Products				Applications
 <p><b>ROPES &amp; TWINES</b></p>	 <p><b>3/4 Strand Ropes</b></p>	 <p><b>Twines</b></p>			<p>Ideal for multiple agricultural applications. Additionally, they can be used in anchor &amp; mooring lines for small craft swings, lead ropes and rope ladders, ship docking, trucks Strapping of breeder.</p>
 <p><b>GARBAGE BAGS</b></p>	 <p><b>Draw Tape</b></p>	 <p><b>Open Top</b></p>			<p>Draw tape is suitable for carrying goods or garbages. Open Top are ideal for small kitchens, bathrooms and office bins</p>
 <p><b>EPS CONTAINERS &amp; TRAYS</b></p>	 <p><b>Trays</b></p>	 <p><b>Absorbent Trays</b></p>	 <p><b>Venti Food Containers</b></p>	 <p><b>Leek-free Food Containers</b></p>	<p>Fruit, vegetables and meat Fish, Meat and Poultry products Cooked food (hot &amp; cold)</p>

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