



ATHEXGROUP
Athens Exchange Group

Annual
Greek
Roadshow
in London
September 20-22, 2016



CORPORATE PRESENTATION

September 2016

 **THRACE GROUP**

A WORLD OF MATERIALS & SOLUTIONS



**Converting polypropylene into a
World of Material & Solutions for over 35 years**



2 BUSINESS UNITS

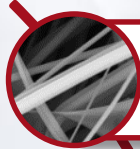
TECHNICAL FABRICS



PACKAGING SOLUTIONS



**THRACE GROUP
AT A GLANCE**



Converting **100k MT of PP** per year



Operations in **11 countries**



28 different production technologies



53% production / **17% sales** in Greece



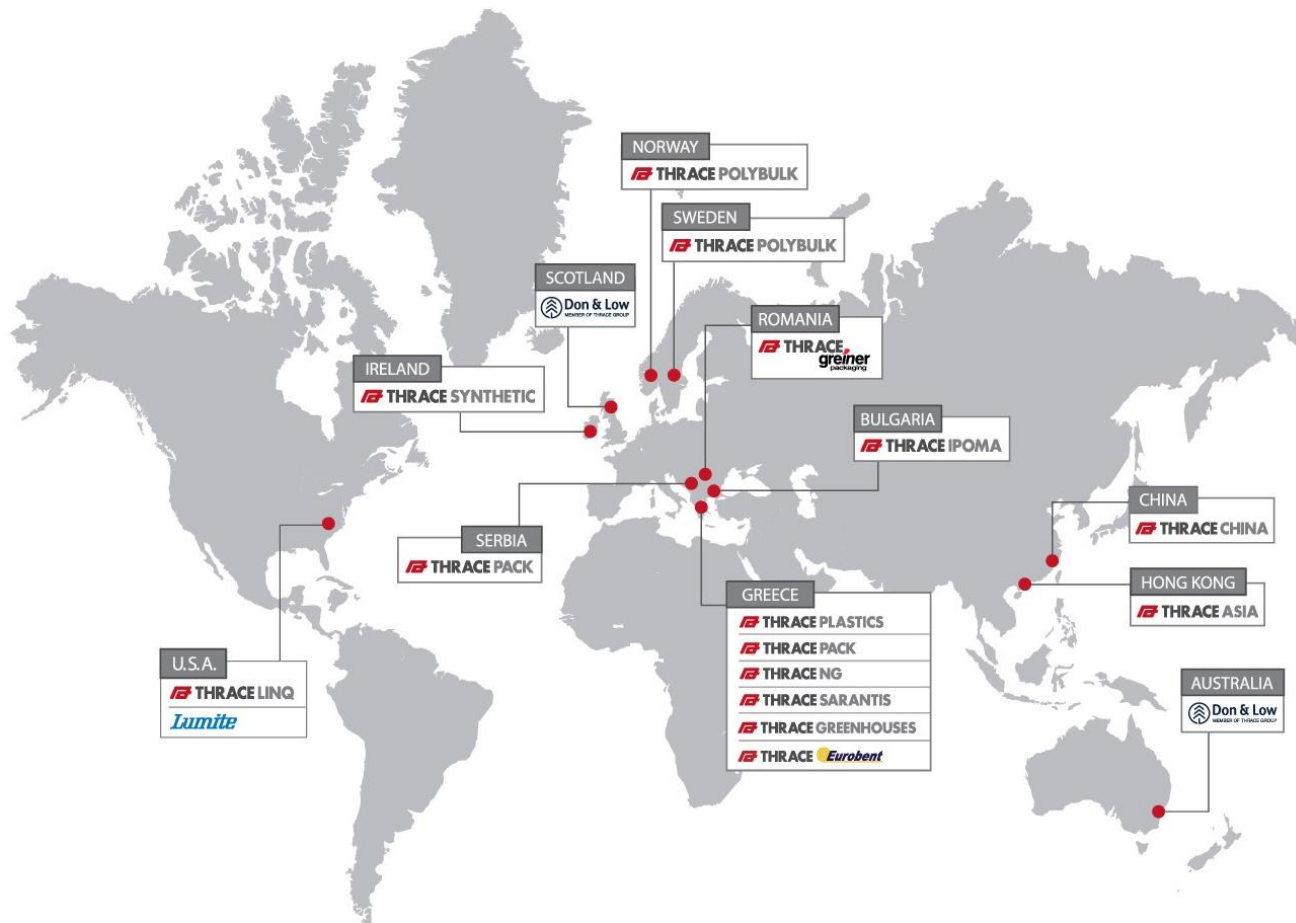
Sales network in **80 countries** / Sales in **24 market segments**



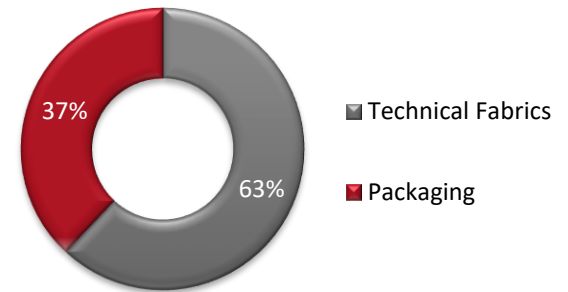
FY 2015 Group Sales **290 mil €** / CAPEX **32 mil €**



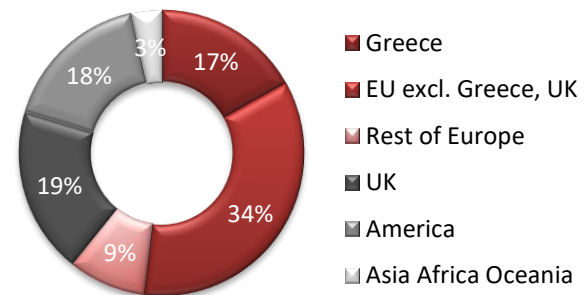
1,668 employees



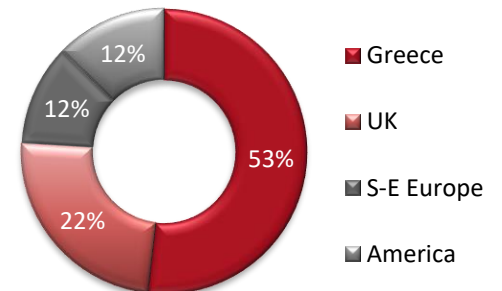
Sales – BU Contribution*



Sales Geographical Breakdown*



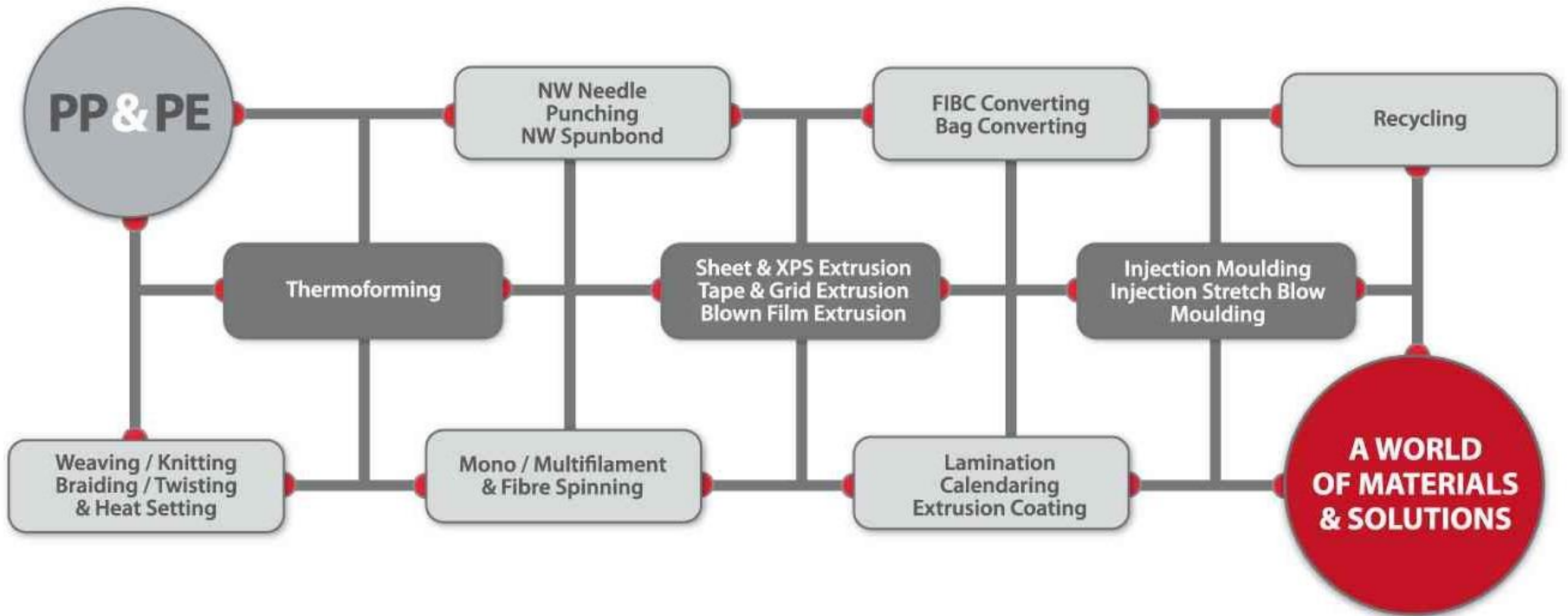
Production Geographical Breakdown*



*FY 2015 figures

28 different production technologies from processing to finishing

Innovation | Vertical integration | Flexibility | Cost effectiveness



TECHNICAL FABRICS DIVISION TECHNOLOGIES

PACKAGING DIVISION TECHNOLOGIES



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



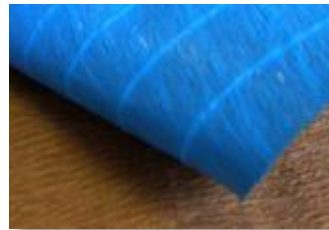
PACKAGING FABRICS



**ADVANCED FABRICS/
COMPOSITES**



FLOOR COVERING



INDUSTRIAL FABRICS



**ARNO WEBBINGS/
STRAPS/ ROPES**

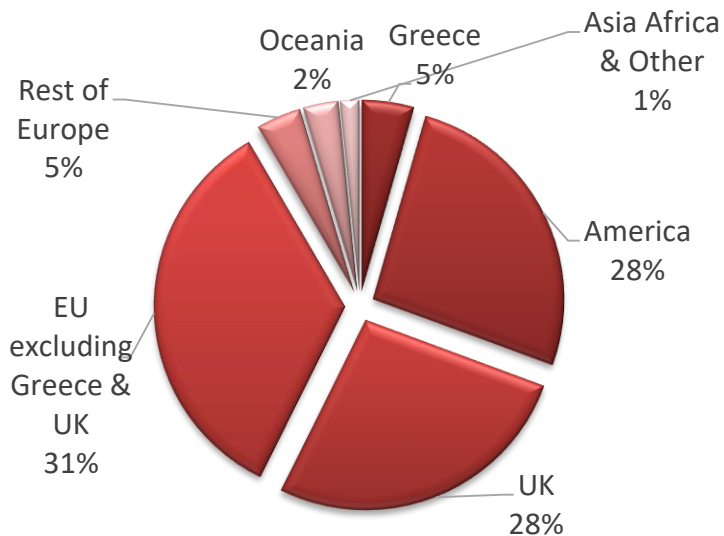


**INDUSTRIAL YARNS &
FIBERS**

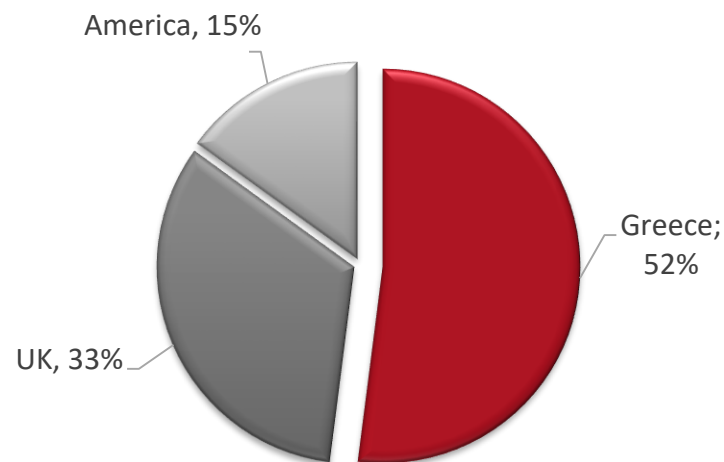
- **Changi Singapore Airport**
- **Liverpool (John Lennon) Airport, UK**
- **Khasab Port Extension Project, Oman**
- **Terminal 5, London Heathrow Airport, UK**
- **Palm Jumeirah, Dubai, United Arab Emirates**
- **Ionian Motorway, Greece**
- **Athens Underground Metro, Greece**
- **Landfill in NW Thessaloniki, Greece**
- **Kolkata Airport, India**
- **Chicago O'Hare Airport, USA**
- **Palma de Mallorca Airport, Spain**
- **E65 Motorway, Greece**
- **High Speed Railway UTE-AVE, Cornella, Spain**
- **Main Road Embankment, Shenzhen, China**
- **New International Airport, Dubai, United Arab Emirates.**



Sales Breakdown



Production Breakdown



Key P & L Items * (amounts in €'000)	FY				H1	
	2012	2013	2014	2015	2015	2016
Sales	168,647	163,513	179,334	187,202	94,812	97,763
y-o-y Change %	4.2%	-3.0%	9.7%	4.4%		3.1%
EBITDA	18,498	9,497	13,046	16,569	9,488	10,149
EBITDA Margin	11.0%	5.8%	7.3%	8.9%	10.0%	10.4%

* Statutory



PACKAGING SOLUTIONS

BUSINESS UNIT

PACKAGING BUSINESS UNIT | PRODUCTS



FIBC/FILLING SOLUTIONS



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



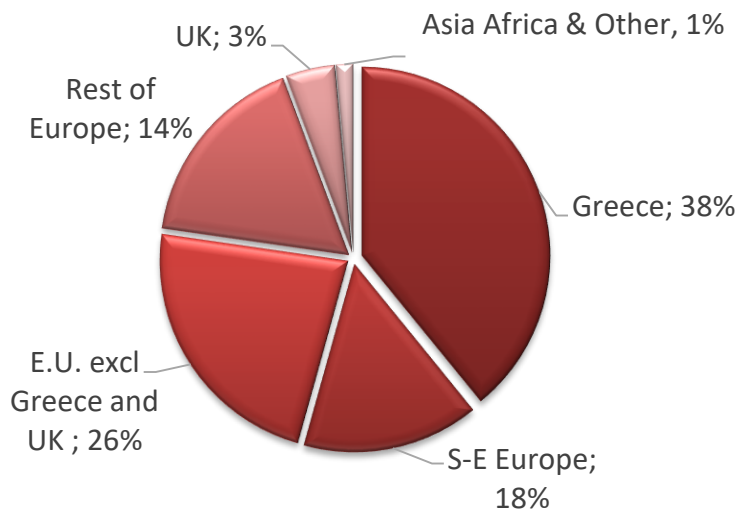
GARBAGE BAGS



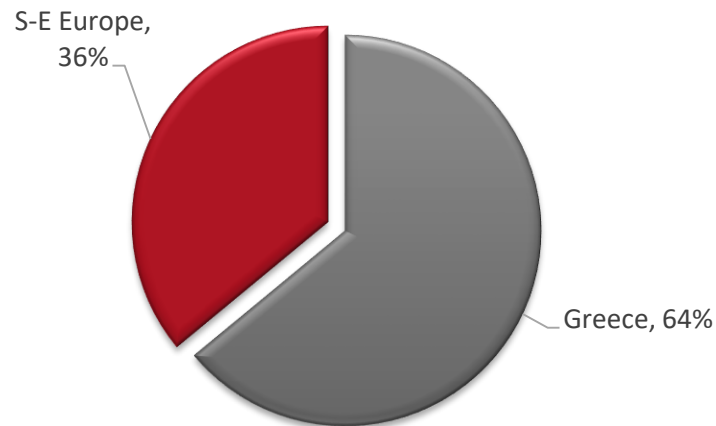
ROPES & TWINES



Sales Breakdown



Production Breakdown



Key P & L Items * (amounts in €'000)	FY				H1	
	2012	2013	2014	2015	2015	2016
Sales	109,108	112,062	109,661	110,158	54,596	56,461
y-o-y Change %	2.2%	2.7%	-0.6%	0.5%		3.4%
EBITDA	6,032	10,683	10,542	12,205	6,260	8,185
EBITDA Margin	5.5%	9.5%	9.6%	11.1%	11.5%	14.5%

* Statutory



Huhtamaki



POLARCUP



WOLF PLASTICS



The background features a 3D rendering of financial data. On the left, there is a bar chart with several vertical bars of varying heights. To the right, a pie chart is shown with one slice separated from the rest. The entire scene is set against a grid pattern, giving it a technical and analytical feel.

FINANCIALS

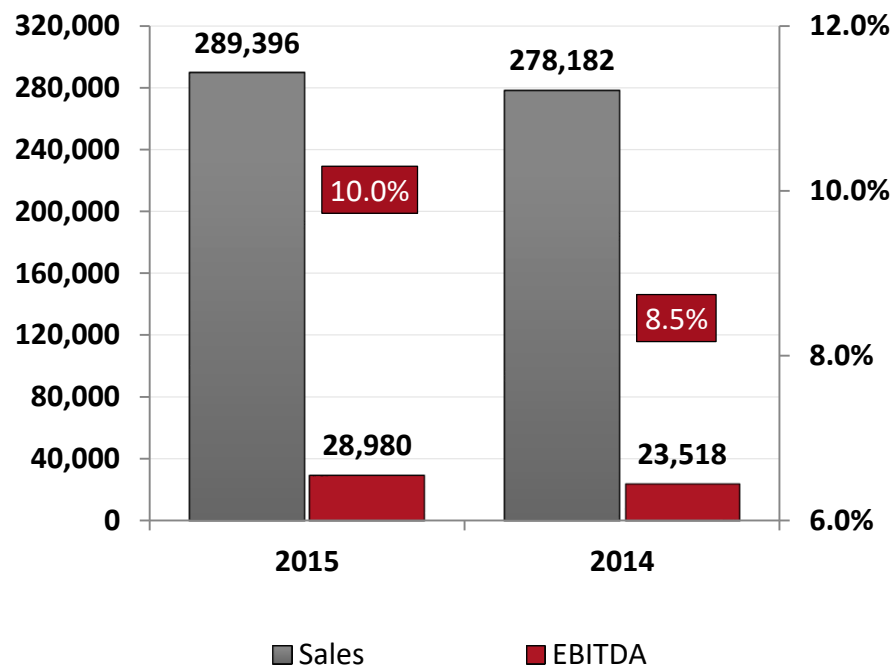
Statutory Financial Statements: The change of standards with regard to the consolidation of joint ventures (IFRS 10, 11 and 12) resulted into the change of the consolidation method. IFRS 11 abolishes the concept of the proportional consolidation of the jointly controlled entities. Instead, the jointly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

FINANCIALS | FY 2015 KEY P&L FIGURES (STATUTORY)

P&L	2015	2014
amounts in thousand euros		
Turnover	289,396	278,182
Gross Profit	59,374	51,313
EBIT	19,080	14,658
EBITDA	28,980	23,518
EBT	13,284	10,088
EAT&MI	9,788	6,502
Earnings per Share (in euro)	0.2204	0.1444
Margins (%)	2015	2014
Gross Profit Margin	20.5%	18.4%
EBIT Margin	6.6%	5.3%
EBITDA Margin	10.0%	8.5%
EBT Margin	4.6%	3.6%
EAT&MI Margin	3.4%	2.3%
Cash Flows	2015	2014
Cash Flows from Operations	19,184	12,223
Cash Flows from Investments	(24,521)	(9,642)
Cash Flows from Financial Activities	(1,787)	(11,767)
Cash & Cash Equivalents	26,411	32,879
FCF	(665)	6,906

Improved Group Financial Performance driven by:

- Change in the product mix in favor of products with higher profit margins
- Further containment of the fixed expenses of production
- Positive effect due to the strengthening of the dollar versus the euro, and
- Decrease of raw material prices



FINANCIALS | FY 2015 KEY BALANCE SHEET ITEMS (STATUTORY)

	2015	2014
Non Current Assets	122,669	100,556
Current Assets	141,862	146,366
Total	264,531	246,922
Debt	68,824	65,658
Cash & Cash Equivalents	26,411	32,879
Net Debt	42,413	32,779
Equity	129,238	112,453

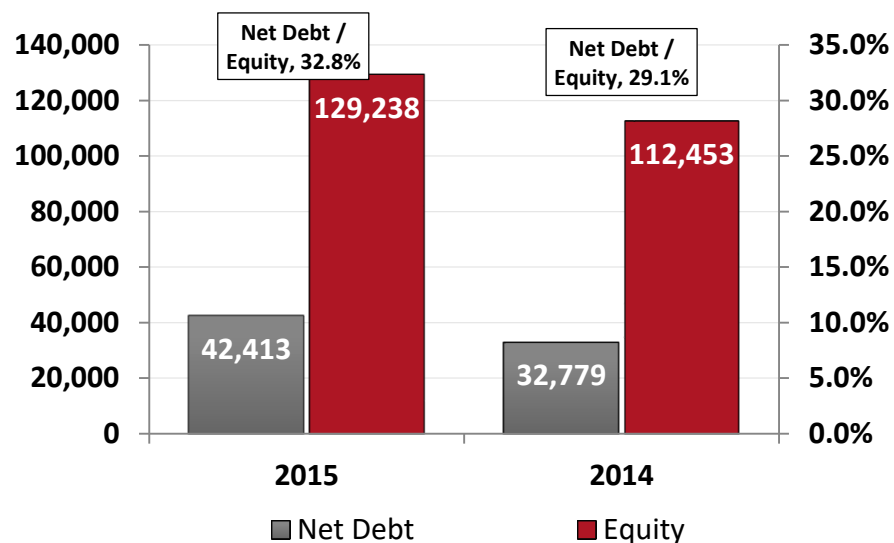
Key Ratios

Net Debt/Sales	14.7%	11.8%
Net Debt/Equity	32.8%	29.1%
EV/EBITDA	3.6	4.0
ROCE	10.2%	7.8%
ROE	7.8%	6.0%
ROIC	9.2%	7.7%

Avg Inventories Days	81	82
Avg Trade Receivables Days	67	66
Avg Suppliers Days	48	50

CAPEX

	2015
Technical Fabrics	23,428
Packaging	7,018
Agricultural & Other	1,879
Total CAPEX 2015*	32,325
CAPEX of Greek Subsidiaries	22,963
CAPEX of subsidiaries abroad	9,362



	H1 2016	H1 2015	Δ %	
TURNOVER	150,638	145,101	3.8%	↑
GROSS PROFIT	35,350	30,759	14.9%	↑
EBITDA	18,399	15,756	16.8%	↑
EAT & MI	8,101	5,743	41.1%	↑
NET DEBT	58,798 <small>(Net Debt 30.06.2016)</small>	42,413 <small>(Net Debt 31.12.2015)</small>	38.3%	↑
NET DEBT / EBITDA	1.60 <small>(Net Debt 31.03.2015/ Annualized EBITDA)</small>	1.46 <small>(Net Debt 31.12.2015/ EBITDA)</small>		

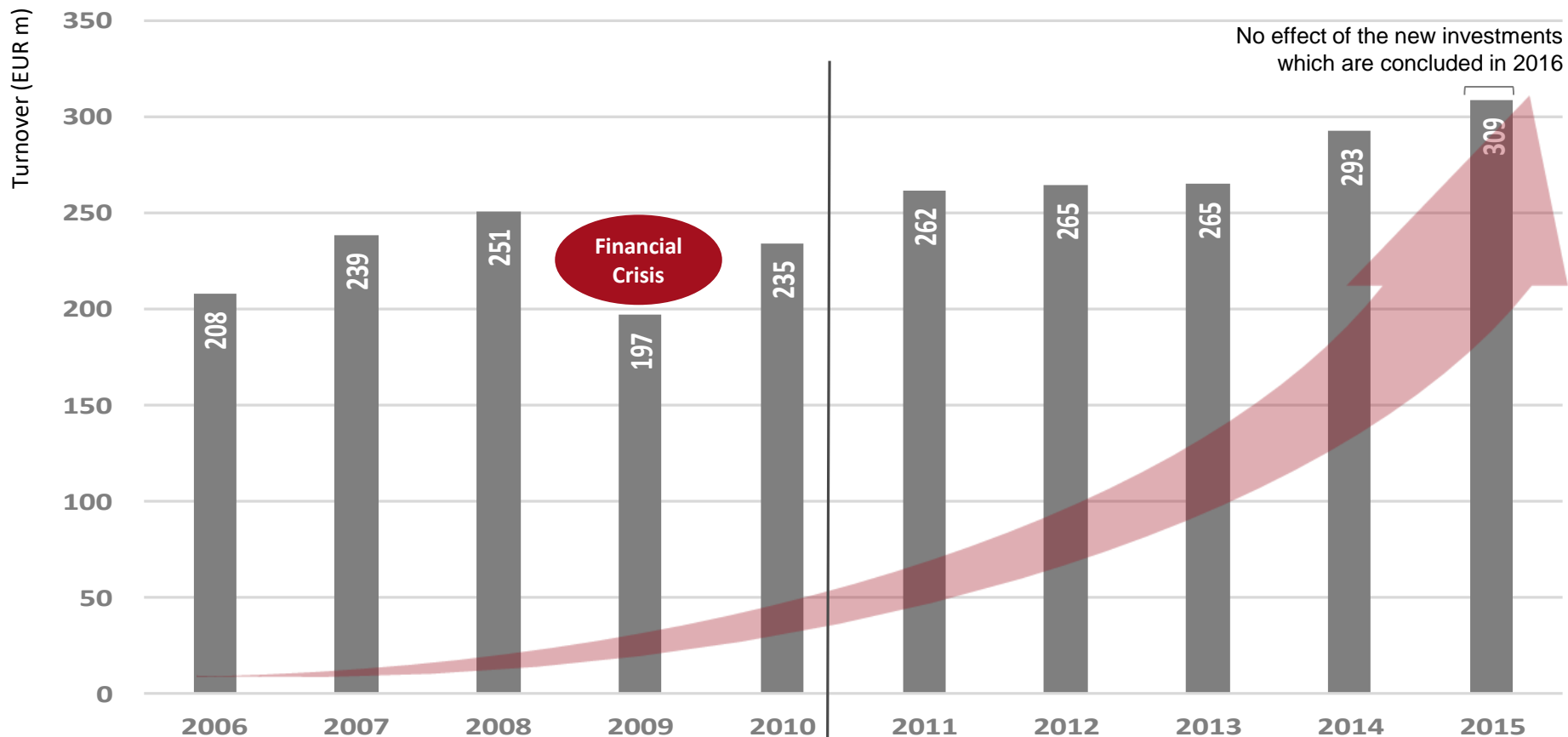


STRATEGY

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

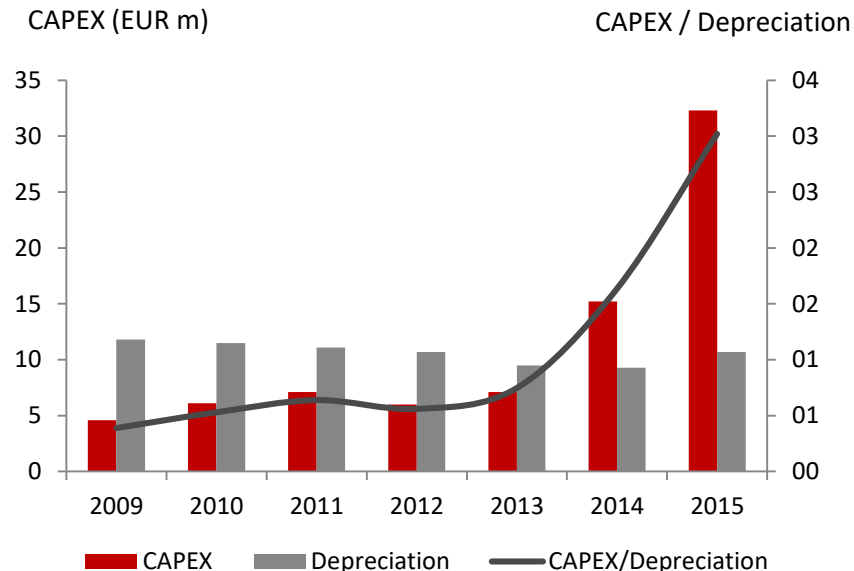
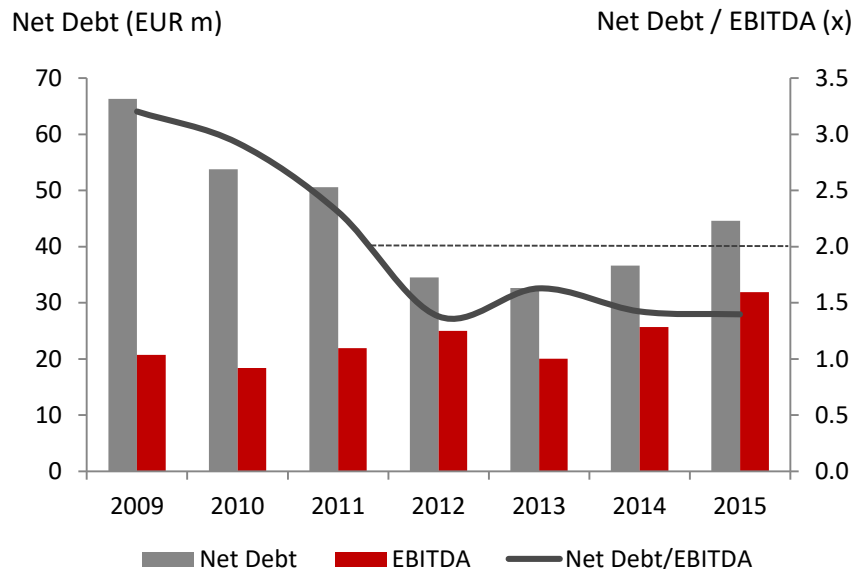
Management Financial figures: all figures in Strategy section consolidate proportionally the JVs.

THRACE GROUP | SALES DEVELOPMENT 2006 – 2015



- Profitable and cash generating growth
- The Group was already a multinational company but with the foundations of a family-owned business

- Building the foundations (people & systems) to support operations and future growth
- Divesting from loss-making business and business that did not fit into the strategic objectives
- 2015 – 2020: New Investment Plan



Net Debt Reduction of more than €33m since 2009

- Limited investments due to the global economic uncertainty
- Strong performance and Cash flows enabled reduction in Net Debt
- Net Debt / EBITDA below 2x since 2012 – special attention is given to this KPI

CAPEX of more than €32m in 2015 (already implemented)

- CAPEX for 2016 – 2018 is expected to exceed depreciation
- Net Debt and Cash position allows to implement Group's investment plan
- Net Debt / EBITDA to continue not to exceed 2x for the period 2016 – 2020

Profitable Growth

Market-driven Organic growth

- Increase Capacity
 - Geographical expansion
-
- 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

Investment Plan 2015 – 2020

Product Development Plan

Process Improvement Plan

Increased R&D

Enhance Innovation

OUR VISION

To be the most **valuable partner for our customers and suppliers** and to consistently increase **shareholders' value** while ensuring **a prosperous future for all individuals working in the THRACE GROUP**



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.

SUPPLEMENTARY MATERIAL

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



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 speciality 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 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 PACK
MEMBER OF THRACE GROUP

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



Injection plant
Ioannina

Thermoforming plant
Ioannina

Injection plant
Xanthi



THRACE PLASTICS
MEMBER OF THRACE GROUP

Thrace Plastics S.A.
Xanthi, Greece



Films plant
Garbage bags plant



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.

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 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



















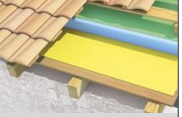



Injection plant




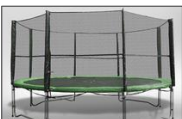


Products: Round and oval buckets and lids, with IML finishing. Oval or rectangular containers with IML finishing. Full range of rounds buckets between with offset printing.

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.











Product Family	Products				Applications
 <p data-bbox="142 511 363 536">GEOSYNTHETICS</p>	 <p data-bbox="465 396 581 439">Nonwoven Geos</p>	 <p data-bbox="643 396 782 439">Erosion Control Mats</p>	 <p data-bbox="842 396 962 415">Slit Fences</p>	 <p data-bbox="1012 396 1155 439">Geobags / Gtextile tubes</p>	<p data-bbox="1209 282 1897 401">WHERE: Roads, railways, paving, landfills, mines, river banks, channels, pipe inlet/outlets, construction sites, slopes and shorelines, foundation walls, offshore breakwater construction.</p> <p data-bbox="1209 425 1897 482">WHY: Filtration, separation, erosion control, drainage, leachate collection, methane gas collection functions.</p>
 <p data-bbox="455 588 591 606">Woven Geos</p>	 <p data-bbox="658 588 767 606">Geogrids</p>	 <p data-bbox="826 588 977 606">Drainage nets</p>	 <p data-bbox="1058 588 1112 606">GCL</p>		
 <p data-bbox="142 906 363 932">CONSTRUCTION</p>	 <p data-bbox="479 792 568 835">Stadium Seats</p>	 <p data-bbox="649 792 776 835">Roofing Membranes</p>	 <p data-bbox="834 792 962 811">Housewraps</p>	 <p data-bbox="1020 792 1147 811">Scaffoldings</p>	
 <p data-bbox="475 985 575 1028">Concrete Fibres</p>	 <p data-bbox="649 985 776 1028">Road Safety Nets</p>	 <p data-bbox="857 985 946 1028">Vapor Control</p>	<p data-bbox="1209 678 1897 829">WHERE: 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 data-bbox="1209 853 1897 968">WHY: 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 data-bbox="173 1243 328 1269">FILTRATION</p>	 <p data-bbox="475 1188 575 1230">Liquid Filtration</p>	 <p data-bbox="664 1188 765 1230">Air Filtration</p>		<p data-bbox="1209 1073 1897 1159">WHERE: Chemical processing, mining, sugar refining, water filtration, waste water treatment, beverage and pool/spa, vacuum cleaners, respirators, cartridges</p> <p data-bbox="1209 1183 1897 1269">WHY: Dewater ores, clarify waste water and purify swimming pool and drinking water, air filtration, respirators filters.</p>	

Product Family	Products				Applications
 <p>AGRI / HORTICULTURE AQUACULTURE</p>	 <p>Groundcover</p>	 <p>Root Barrier</p>	 <p>Weather Protection</p>	 <p>Mulching</p>	<p>WHERE: Greenhouses, gardens, nurseries and landscaped areas, Outdoor storage of straw bales & sugar beets, indoor storage of goods, harvesting, multiple agricultural applications, in anchor & mooring lines for small craft swings, lead ropes and rope ladders, ship docking, trucks, fish farming, fishing.</p> <p>WHY: 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>LANDSCAPE / GARDEING</p>	 <p>Cropcover</p>	 <p>Nets</p>	 <p>Cages / Shade</p>	 <p>Olive Collection</p>	
 <p>SPORT & LEISURE</p>	 <p>Landscape</p>	 <p>Gardenig /DIY Mini Rolls</p>	 <p>TerraHome</p>	<p>WHERE: Commercial venues and private gardens, floriculture, small greenhouses, landscaping, tree planting, paving.</p> <p>WHY: Weed growth prevention, erosion control, shading, protection, reparation, reinforcement, anti-freeze.</p>	
 <p>Trampoline Fabrics</p>	 <p>Pool Covers</p>	<p>WHERE: Trampoline mats, trampoline safety enclosures, aquatic trampolines and catamaran beds, Outdoor and indoor pools.</p> <p>WHY: 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>			

Product Family	Products					Applications
 <p>FLOOR COVERING</p>	 <p>Carpet Backing</p>	 <p>Pile Yarns</p>	 <p>Carpet Tile Backing</p>	 <p>Carpet Warp – Weft Yarns</p>	 <p>Underlay Substrates</p>	<p>WHERE: Tufted Carpets, automotive, residential, contract, Carpet tile backing, Woven carpet production</p> <p>WHY: 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>FERNITURE & BEDDING</p>	 <p>Covering Separation</p>	 <p>Pocket Springs</p>	 <p>Tablecloth Fabrics</p>	 <p>Allershield Aquashield</p>	 <p>Bedding Reinforcement</p>	<p>WHERE: 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>WHY: allergy relief bedding, water resistance. anti-microbial or fire-retardant</p>
 <p>ADVANCED FABRICS</p>	 <p>Armorweave[®]</p>	 <p>Armordon[®]</p>				<p>WHERE: 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>

Product Family	Products				Applications
 <p>MEDICAL & HYGIENE</p>	 <p>Gowns & Drapes</p>	 <p>Instrument Tray Wraps</p>	 <p>Medical Wipes</p>	 <p>Ostomy Bags</p>	<p>WHERE: 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>WHY: Safety, protection, softness, high tensile strength & elongation, comfort, protects the skin from moisture build up, allergy relief</p>
 <p>Mattress Protection</p>					
 <p>AUTOMOTIVE</p>	 <p>Car Mats and Liners</p>	 <p>Seating</p>	 <p>Car Cover Fabrics</p>	 <p>Acoustic Absorbents</p>	<p>WHERE: Pull straps, seam reinforcement, seat backs, seat cover construction, car covers, upholstery backing, car mats, boot liners, under body shield</p> <p>WHY: 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>ARNO WEBBINGS / STRAPS / ROPES</p>	 <p>Straps</p>	 <p>Ropes</p>	 <p>Webbings</p>	 <p>Text Webbings</p>	

Product Family	Products				Applications	
 <p>INDUSTRIAL FABRICS</p>	 <p>Tarpaulin</p>	 <p>Lamination – R. Substrates</p>	 <p>Passenger Transport</p>	 <p>Industrial Workwear</p>	<p>WHERE: 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>WHY: 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>INDUSTRIAL YARNS - FIBRES</p>	 <p>Monofilament Yarns</p>	 <p>Cable Fillers</p>	 <p>Cable Identification</p>	 <p>PP Yarn for filtration</p>	<p>WHERE: 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 & bedding materials, automotive fabrics and textiles for other industrial uses.</p> <p>WHY: 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>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>				

Product Family	Products			Applications
 <p data-bbox="92 492 417 601">INJECTION/BUCKETS/ PAILS/CONTAINERS</p>	 <p data-bbox="432 385 614 454">Round and Oval</p>	 <p data-bbox="618 385 799 454">Square and Rectangular</p>	 <p data-bbox="803 385 985 454">Special Containers</p>	<p data-bbox="1209 282 1895 375">Food: baking ingredients, biscuits, confectionery, desserts, dairy products, yellow fats, ice cream, pet food, seafood, salads, sauces, soups, salt, jams, honey</p> <p data-bbox="1209 389 1831 454">Non-food: paints, adhesives, coatings, construction materials, fertilisers</p>
 <p data-bbox="92 846 417 955">THERMOFORMING CUPS</p>	 <p data-bbox="432 739 614 808">Cups and Lids</p>	 <p data-bbox="618 739 799 808">Drinking Cups</p>	<p data-bbox="1209 636 1837 694">Dairy products, yellow fats, confectionery, ice cream, jams</p> <p data-bbox="1209 715 1682 743">Water and beverages, cold coffee, beer</p>	
 <p data-bbox="92 1200 417 1278">CRATES</p>	 <p data-bbox="432 1093 614 1162">General Purpose</p>	 <p data-bbox="618 1093 799 1162">Bottle Crates</p>	<p data-bbox="1209 991 1615 1019">Agricultural products, bread, meat</p> <p data-bbox="1209 1041 1895 1098">Beer, soft drinks, alcoholic drinks, other bottled drinks/water</p>	

Product Family

Products

Applications



FIBC / FILLING SOLUTIONS



Reel Bags for auto filling



1 & 2 Loop Bags



4 & 5 Loop Bags



Filling Solutions



Optiflow Bags

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.



BAGS – FFS FILMS



PP Woven Bags



PE Knitted Bags



Heavy Duty Bags



FFS Films

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, phthalic, food, sugar, salt, fertilizers etc.



PALLET COVERING / PACKAGING FILM



Shrink Hood



Stretch Hood
















Shrink Film



Pallet Cover/Hood

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.

Product Family	Products				Applications
 <p>CONTAINER LINERS/ CARGO PROTECTION</p>	 <p>Dry Bulk Containers L.</p>	 <p>Liquid Bulk Containers L.</p>	 <p>Cargo Protection</p>	<p>The DBCL and LBCL are used for protecting dry or liquid bulk products when transporting and storing them in sea containers</p> <p>The desiccant products are designed to absorb and neutralize moisture that may accumulate in cargo spaces.</p> <p>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>	
 <p>GARBAGE BAGS</p>	 <p>Draw Tape</p>	 <p>Open Top</p>	<p>Draw tape is suitable for carrying goods or garbages.</p> <p>Open Top are ideal for small kitchens, bathrooms and office bins</p>		
 <p>EPS CONTAINERS & TRAYS</p>	 <p>Trays</p>	 <p>Absorbent Trays</p>	 <p>Venti Food Containers</p>	 <p>Leek-free Food Containers</p>	<p>Fruit, vegetables and meat</p> <p>Fish, Meat and Poultry products</p> <p>Cooked food (hot & cold)</p>

Product Family	Products				Applications
 <p>BAG IN BOX</p>	 <p>Metalized & Taps</p>	 <p>PE & Glands</p>			<p>Wine and Spirits, Siders, Pulps Dairy products, edible oils, food service mixes (i.e. egg mix)</p>
 <p>ROPES & TWINES</p>	 <p>3/4 Strand Ropes</p>	 <p>Twines</p>			<p>Ideal for multiple agricultural applications. Additionally, they can be used in anchor & mooring lines for small craft swings, lead ropes and rope ladders, ship docking, trucks Strapping of breeder.</p>
 <p>5 GAL BOTTLES & CAPS</p>	 <p>5 Gal Bottle</p>	 <p>5 Gal Bottle w Handle</p>	 <p>Non split Cap</p>	 <p>Bottle Rack</p>	<p>Water, water dispensers</p>

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