

Group presentation

July 2018

The five divisions of Bucher Industries













Kuhn Group Agricultural machinery

Tillage

Seeding

Spraying

Landscape

harvesting

maintenance

Hay and forage

Fertilisation

Compact and truck-

Bucher Municipal

Municipal vehicles

- mounted sweepers
- Refuse collection vehicles
- Sewer cleaning vehicles
- Salt spreaders
- Snow plough

Bucher Hydraulics Hydraulic systems

- Mobile and industrial hydraulics
- Pumps
- Motors
- Valves
- Cylinders
- Elevator drives

Bucher Emhart Glass Bucher Specials

Glass-forming

- machinery
- Inspection machinery
- Transport and handling systems
- Integrated systems

Glass container industry Individual businesses

- Equipment for processing wine, fruit juice, beer and instant products
- Swiss distributorship for agricultural machinery
- Control and automation technology

2017 Sales CHF 1 080 million Employees 5 200

2017 Sales CHF 430 million Employees 2 000

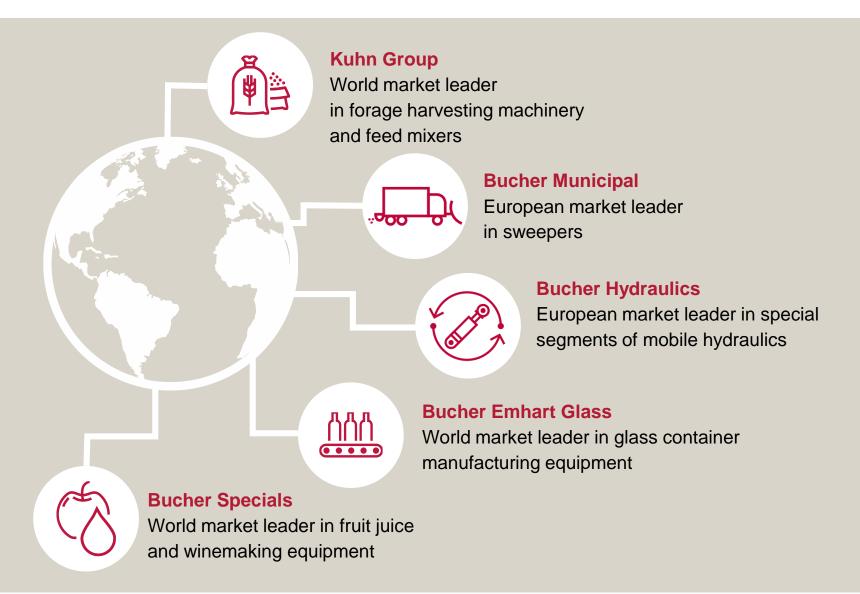
2017 Sales CHF 550 million Employees 2 300

2017 Sales CHF 380 million Employees 1 600

2017 Sales CHF 270 million **Employees 850**

Number 1 in selected markets





38 production sites on 5 continents





International Group



Net sales in 2017 in CHF million

Annual average number of employees in full-time equivalents in 2017

North America

CHF 521 million

1 555 employees

Central and South America

CHF 145 million

924 employees

Europe

CHF 1 582 million

7669 employees

Asia

CHF 239 million

1256 employees

Other

CHF 160 million

303 employees

Aspirations



Diversified group

in mechanical and vehicle engineering

Decentralised responsibility

for products, markets and results in the divisions; centrally co-ordinated

Technological leadership

for a strong market position

Strengthening

of divisions

Solid balance sheet

for long-term, industrial independence

Increase in enterprise value

(RONOA > WACC)

Principles



High level of independence for divisions

- No competition for resources and responsibilities
- Exchange of experiences on specialist topics

Leadership by

- Strategic planning
- Key financial figures
- Standardised values and prescribed governance requirements
- Division management appointments
- Selected, operational projects

Lean corporate centre structure

With approx. 30 employees

Group in retrospect, 2017



Pleasing business performance in divisions

- **Kuhn Group**: The agricultural equipment market started to recover thanks to rising prices for dairy and livestock farming in Europe. Strong sales growth.
- **Bucher Municipal**: Encouraging demand for municipal vehicles in Europe and Australia. Sales higher than previous year.
- **Bucher Hydraulics**: Increased demand in the industrial hydraulics, construction machinery, agriculture engineering and materials handling segments. Strong sales growth.
- **Bucher Emhart Glass**: Increasing investments by producers of glass bottles in almost all markets, even in China. Stable sales.
- **Bucher Specials**: Volatile market for beverage technology. Positive development in automation solutions. Stable sales.

Group sales up 11% on previous year's figure.

Key figures



CHF million			Change in				
	2017	2016	%	% ¹⁾	% ²⁾		
Order intake	2 871	2 386	20.3	18.9	18.3		
Net sales	2 647	2 380	11.2	9.9	9.4		
Order book	960	728	32.0	30.4	30.4		
Operating profit (EBITDA) as % of net sales	318 12.0%	263 11.0%	21.1				
Operating profit (EBIT) as % of net sales	226 8.6%	169 7.1%	33.7				
Employees at 31 December	12 108	11 175	8.3		8.3		
Average employees during year	11 707	11 251	4.1		3.7		

¹⁾ Adjusted for currency effects

²⁾ Adjusted for currency and acquisition effects

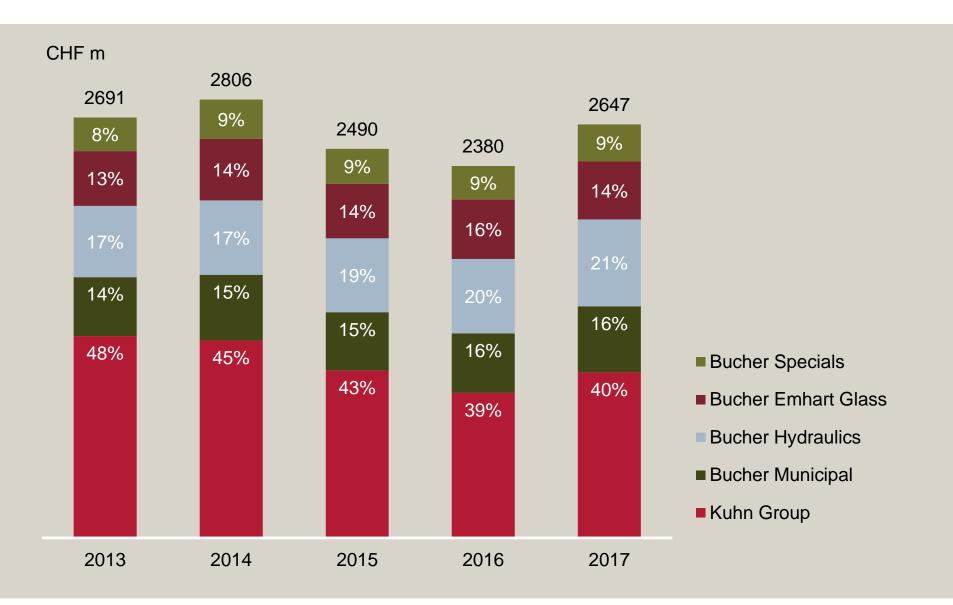
Key figures



CHF million		Change in	
	2017	2016	%
Profit/(loss) for the year as % of net sales	168 6.3%	118 5.0%	41.6
Earnings per share in CHF	16.81	11.73	43.3
Capital expenditure	76	78	-2.6
Operating free cash flow	148	190	-21.8
Net cash/debt	214	61	248.9
Equity as % of total assets (equity ratio)	1 432 52.7%	1 224 50.6%	17.0
Net operating assets (NOA) average as % of return after tax (RONOA)	1 274 13.2%	1 293 9.7%	-1.5

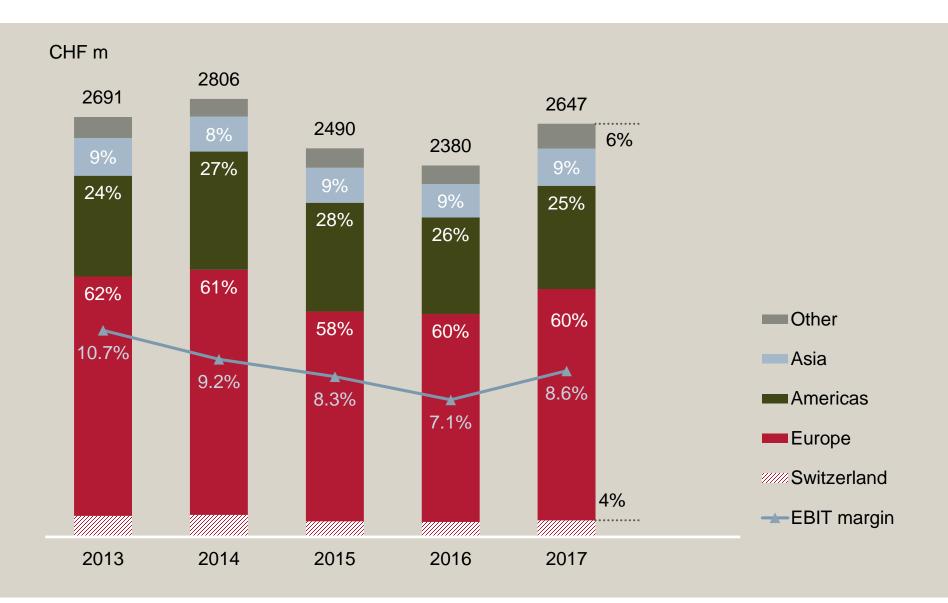
Net sales by division





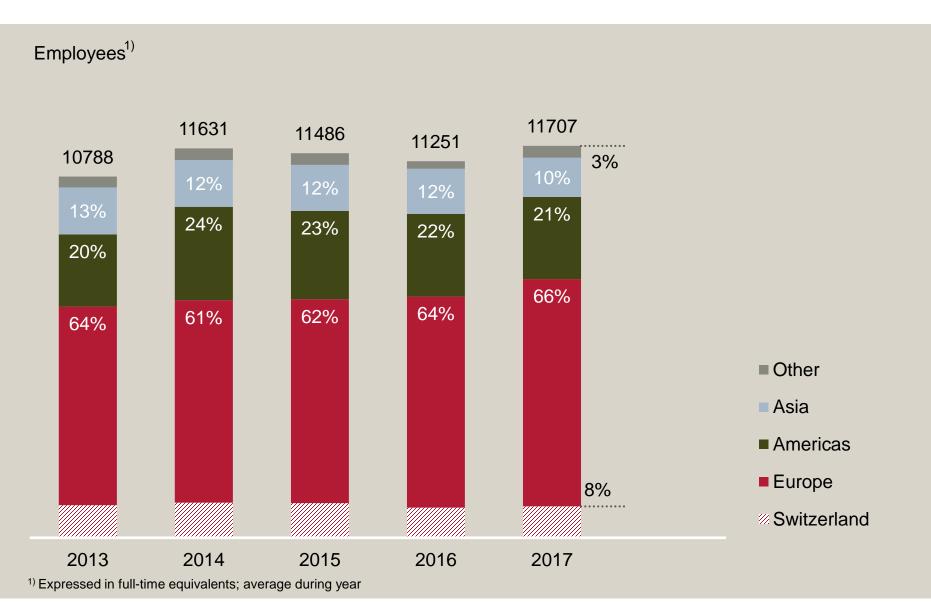
Net sales by region





Number of employees by region

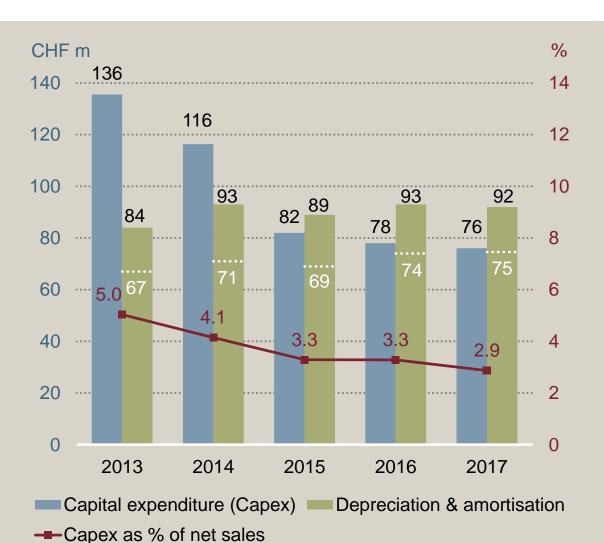




July 2018 - Group presentation

Investments in the future Fixed and intangible assets





Key investment projects

- Kuhn Group Construction of new logistics centre Saverne, France
- Kuhn Group Purchase of land Voronezh, Russia
- Bucher Municipal Expansion of production facility
 Ventspils, Latvia

Comment: Investments in property, plant and equipment and intangible assets

Investments in the future Research and development costs





Acquisitions 2013 – 2017



2013

Bucher Hydraulics

Eco Systemas, Brazil

Bucher **Hydraulics**

Ölhydraulik Altenerding, Germany

Bucher **Specials**

Filtrox Engineering, Switzerland

Bucher Specials

Jetter AG, Germany



Net sales¹⁾ CHF 50 Mio.

Employees 230

2014

Kuhn Group

Montana Indústria de Máquinas, Brazil



Net sales1) CHF 60 Mio.

Employees

2016

Bucher Municipal

J. Hvidtved Larsen (JHL), Denmark

Bucher Municipal

PakMor Australia



Net sales¹⁾ CHF 60 Mio.

Employees 200

Net sales1) CHF 10 Mio.

Employees 50

Net sales1) CHF 10 Mio.

Employees 60

Net sales1)

CHF 40 Mio.

Employees 250

Net sales1) CHF 30 Mio.

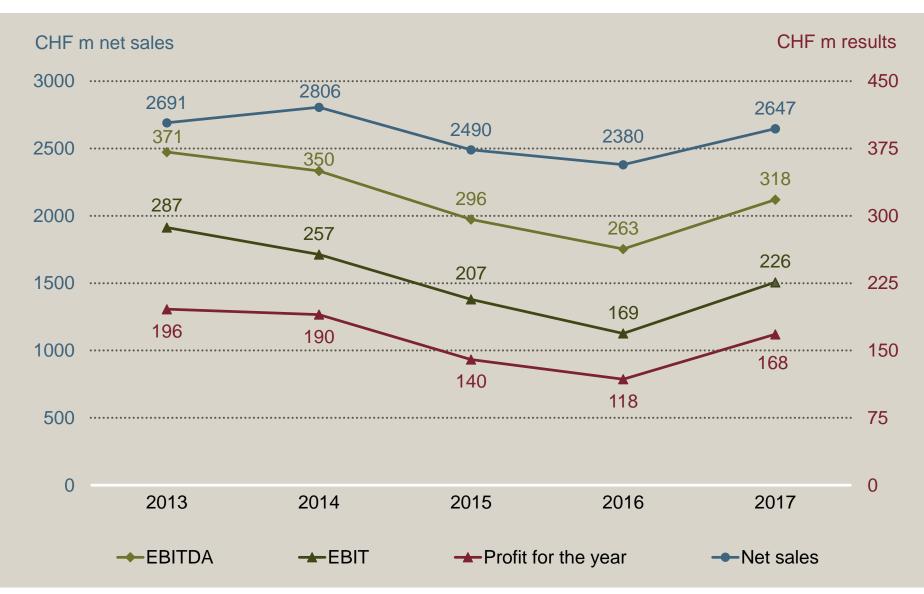
Employees 35

600

¹⁾ Prior acquisition

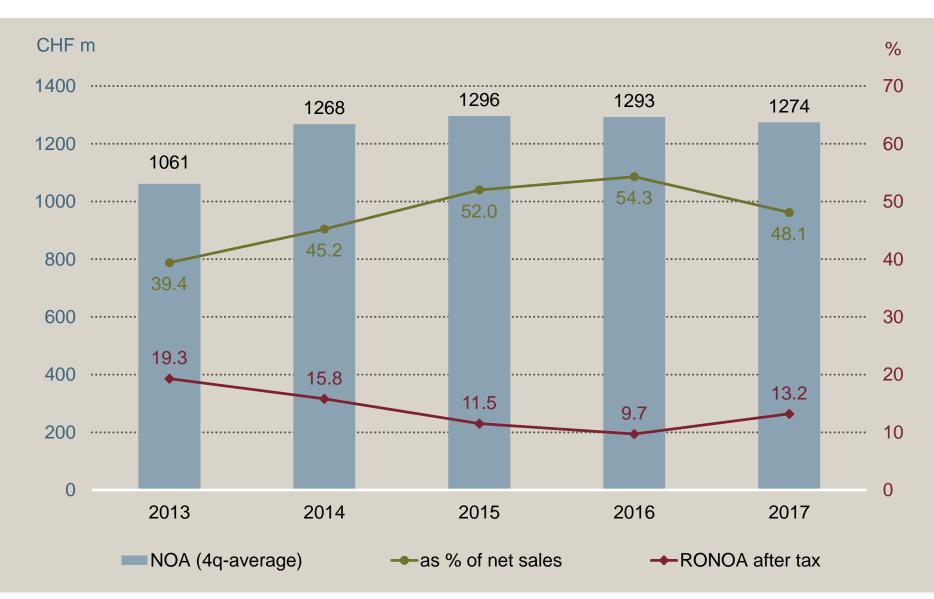
Net sales and results





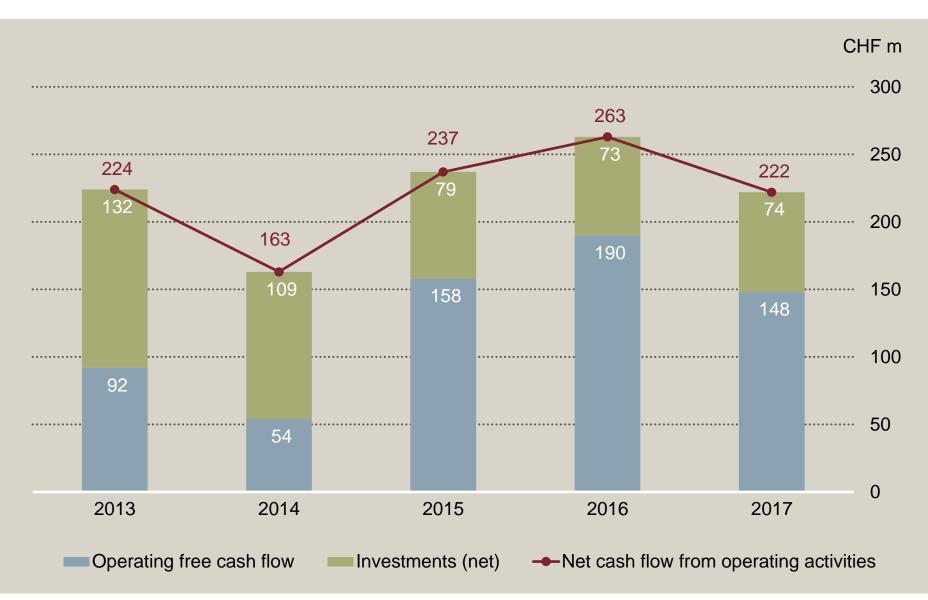
Net operating assets (NOA) and RONOA after tax





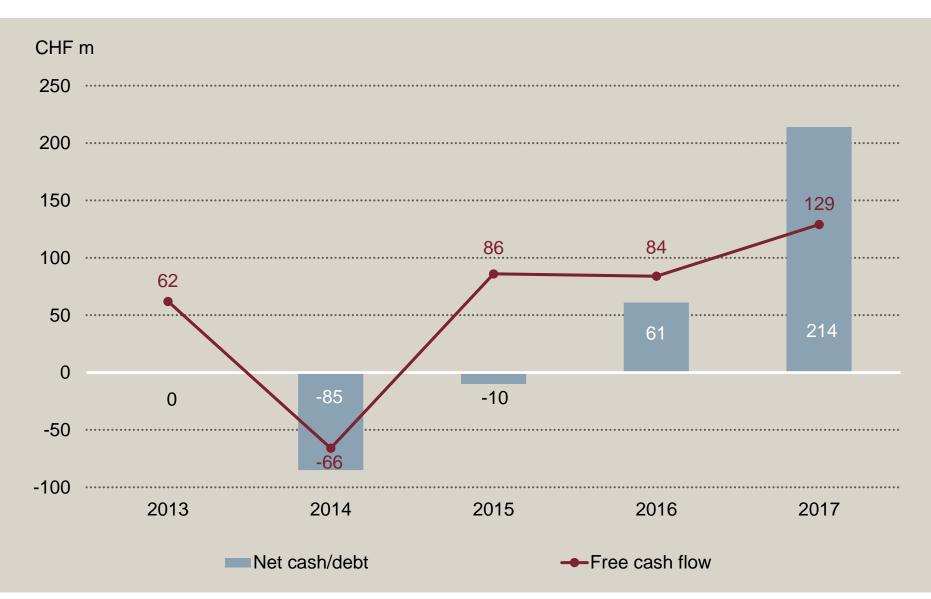
Cash flow and investments





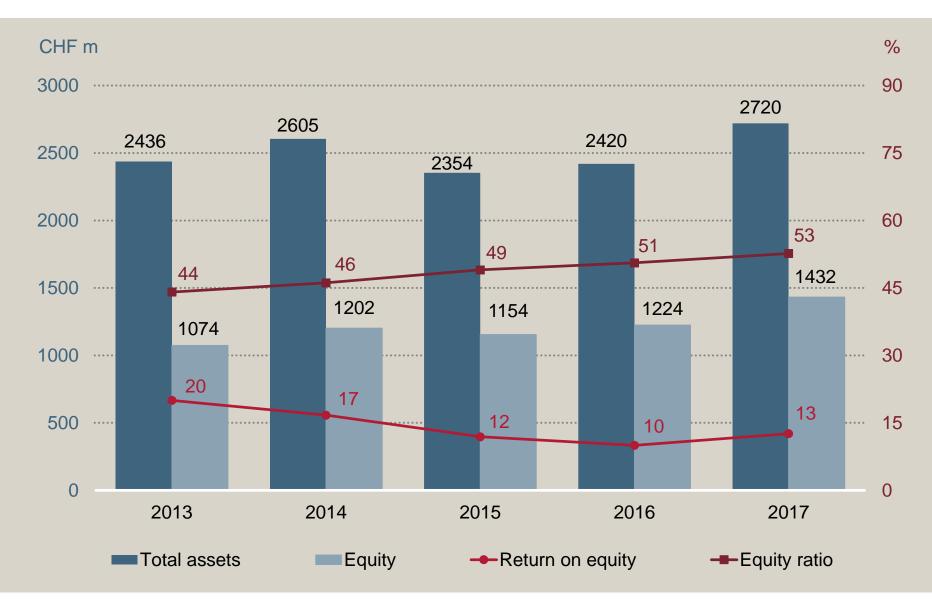
Net cash/debt and free cash flow





Total assets and equity





Results by division



CHF million	EBIT	EBIT margin	EBIT	EBIT margin
	2017	2017	2016	2016
Kuhn Group	93	8.6%	74	8.0%
Bucher Municipal	26	6.1%	15	3.7%
Bucher Hydraulics	75	13.7%	57	11.9%
Bucher Emhart Glass	25	6.6%	26	7.1%
Bucher Specials	22	8.1%	21	8.0%
Other/consolidation	-15		-24	
Bucher Industries	226	8.6%	169	7.1%





Kuhn Group Specialised agricultural machinery

BUCHER

Arable farming



Ploughing Tillage Seeding Fertilisation Spraying

Dairy and livestock farming

Hay and forage harvesting



Feed storage



Bedding and feeding

Manure spreaders

Hedge cutters

Landscape maintenance

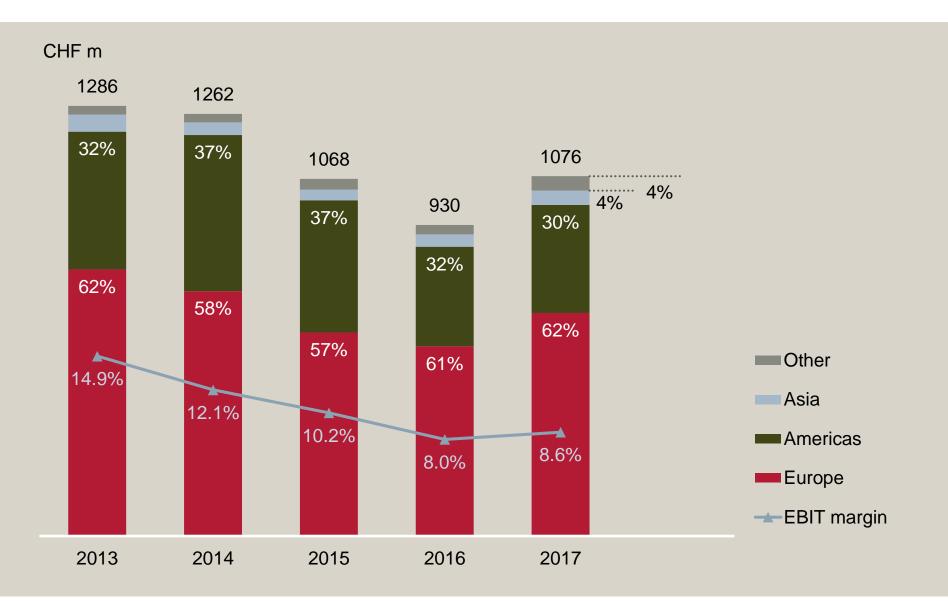
Kuhn Group 2017 in brief



- The agricultural equipment market started to recover after three difficult years.
- Dairy product and meat prices in Europe went up.
- Western European agricultural technology markets recorded positive growth, but not in France, which was still suffering from the poor harvest in 2016 and the low incomes of local farmers.
- Overproduction and stagnating demand led to high inventories of cereals,
 volatile prices and lower incomes for farmers in North America.
- Satisfying increase in order intake of 22% and sales of 16%.
- In light of rising material costs, the EBIT margin was modestly higher: from 8.0% to 8.6%.

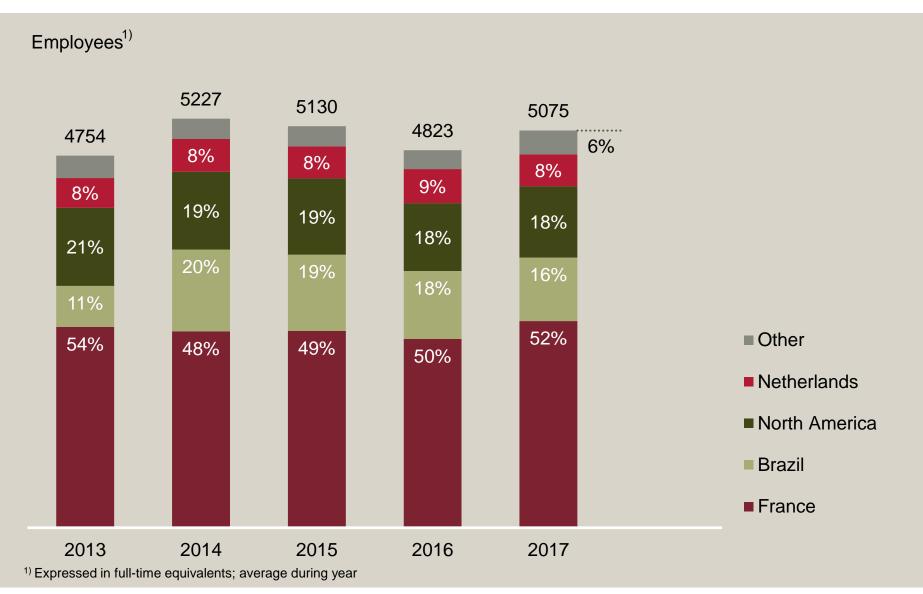
Kuhn Group Net sales by region





Kuhn Group Number of employees by region





Kuhn Group World farm equipment market



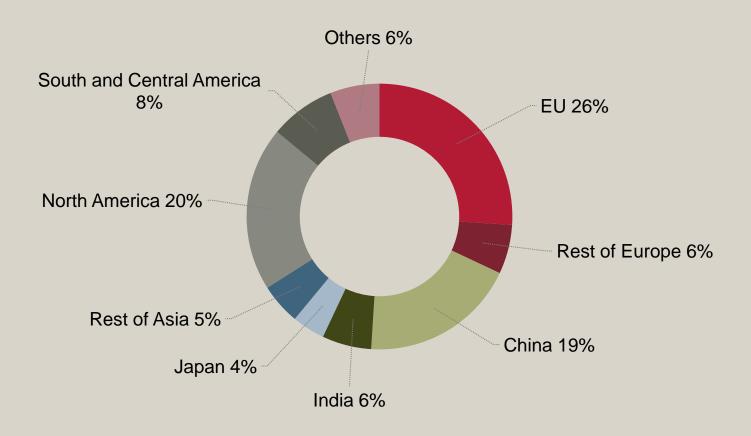
Equipment market (in value)	%
Farm tractors	29
Harvesting machinery	16
Hay & silage making machinery	7
Tillage	7
Seeding, planting, fertilizing and spraying machinery	10
Other ag. machinery + attachments & parts	31

Source: Freedonia

Kuhn Group World farm equipment market



By region 2017 (VDMA estimate in value)



Source: VDMA

Kuhn Group Complete product range under one brand



Competitors	Mowers	Hay and Tedders		Balers	Hedge cutters	Feed mixers	Tillage e	quipment non- driven	eders precision	Sprea- ders	Spray- ers	Trac- tors	Harvesters self- propelled
Kuhn Group													
John Deere													
CNH													
AGCO			••••••										
Claas													
Krone													
Amazone													
Pöttinger													
Kubota/KVE													
Exel / Hardi													
Lemken													
Horsch													
Väderstad													
Sulky													

Kuhn Group Market position



Kuhn Group

World's leading manufacturer of specialised and tractor-related agricultural equipment.



- Market share of 30% or more depending on product family and region.
- Comprehensive range of agricultural machinery.
- World market leader in hay and forage harvesting machinery and feed mixers.
- Leader in tillage equipment, fertilisation and feeding technology.
- Strong position in Europe and in North and South America.
- Extensive and independent network of dealers.
- Sold throughout the world under the Kuhn brand.

Kuhn Group Outlook for 2018



- Stable development in dairy and livestock farming, especially in Europe.
 - Robust demand for hay and forage harvesting machinery as well as feeding equipment.
- Arable farming in North America still volatile:
 - Cereals prices low and high inventories.
 - Chinese punitive tariffs on US agricultural products such as soya beans.
 - Low farm incomes in North America.
- Rising prices for material, especially for steel.
- For 2018: Higher sales with an operating profit margin at the same level as last year expected.

Bucher Municipal Municipal vehicles and winter maintenance equipment

BUCHER

Sweeper equipment



Compact sweepers



Truck-mounted sweepers

Winter equipment



Spreaders

Ploughs

Special vehicles



Sewer cleaning

Refuse collection

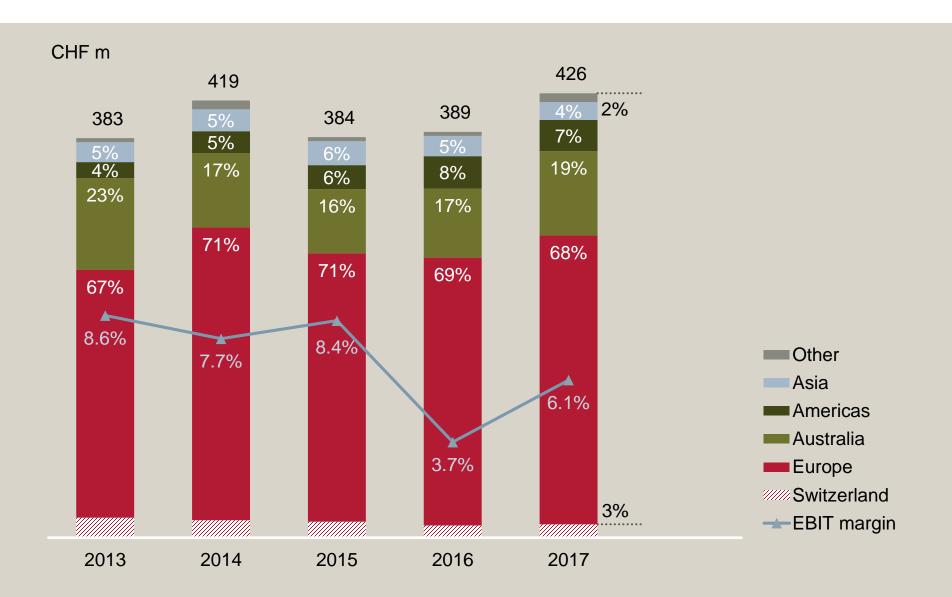
Bucher Municipal 2017 in brief



- Increased demand for municipal vehicles in Europe.
- Improved economic situation in Australia increased demand for refuse collection vehicles and refuse compactors.
- Sewer cleaning vehicles business in Europe stable.
- Winter maintenance equipment business positively impacted by early onset of winter.
- Concentration of sweeper vehicle production in Great Britain and Latvia completed.
- Significant increase in order intake of 28%.
- Sales up 9%.
- EBIT margin of 6.1%.

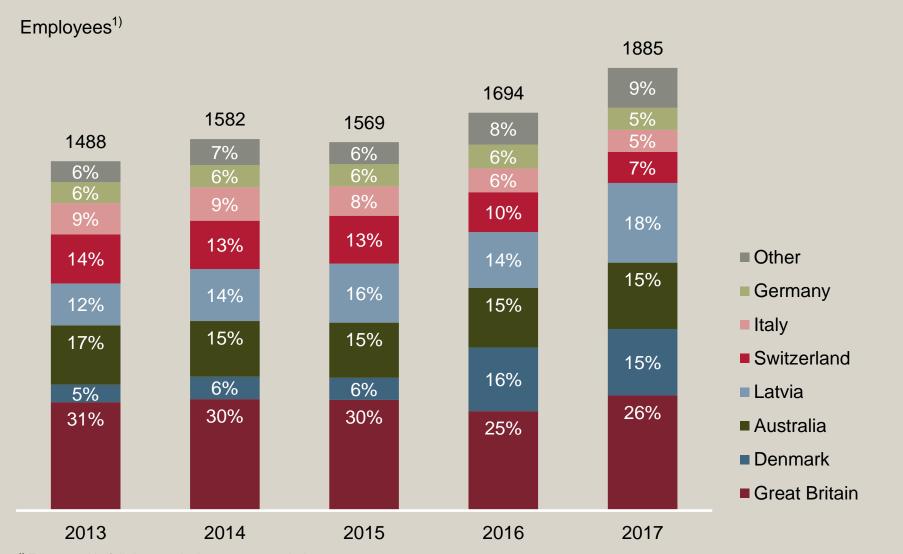
Bucher Municipal Net sales by region





Bucher Municipal Number of employees by region





¹⁾ Expressed in full-time equivalents; average during year

Bucher Municipal Complete product range



Competitors		Sweepers					cles	Winte	er mainten	Vacuum tankers		
	Vacuum		Mechanical							_		
	Compact	TM	Compact	TM	Front	Rear	Side	Spreaders	Ploughs	Snow Blowers	Municipal	Industry
Bucher Municipal												
Federal Signal												
Alamo												
Douglas Dynamics												
Terberg-RosRoca												
Aebi-Schmidt												
Faun												
Fayat												
Hako												
Boschung												
Cappellotto												
Kaiser												
Zoomlion												

Bucher Municipal Market position



Bucher Municipal

Leading supplier of municipal vehicles for use in cleaning and clearance work in public and private traffic areas.



- Comprehensive offering for the municipal vehicles market.
- Market leader in Europe.
 Some market shares higher than 30%.
- European market leader in sweepers.
 Strong presence in Great Britain.
- Market leader in refuse collection vehicles in Australia.
 Market shares well over 30%.

Bucher Municipal Outlook for 2018



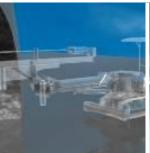
- Positive trend in the European sweeper market, especially in the UK, Germany,
 France and Russia.
- High demand for sewer cleaning vehicles.
- High demand for refuse collection vehicles in Australia.
- Positive development in the winter maintenance equipment business due to the long and snowy winter 2017/2018.
- For 2018: Sharp increase in sales and in the operating profit margin expected.
 - Concentration of sweeper production has positive impact on EBIT.

Bucher Hydraulics Customised drive systems

BUCHER



Agricultural machinery



Mining / tunnelling



Energy technology



Industry



Municipal vehicles



Lift gates



Construction equipment



Materials handling



Marine/offshore



Elevator technology



High-voltage switch gear



Dyna-Lift

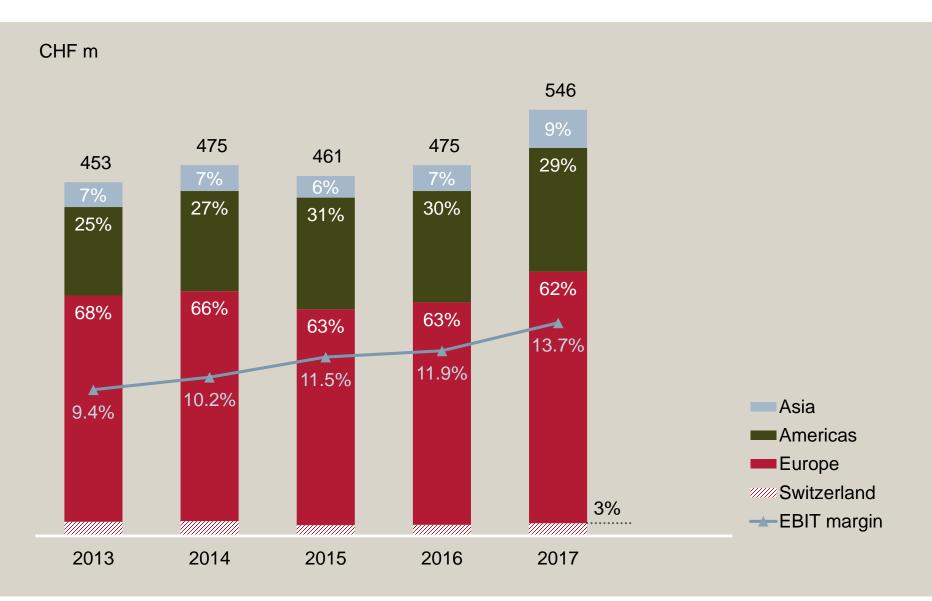
Bucher Hydraulics 2017 in brief



- Increasing demand in construction machinery, industrial hydraulics, agricultural engineering and materials handling segments.
- Germany has recovered after five years of stagnation.
- Positive development in North America, India and China.
- Outstanding operational performance with sales growth of 15%.
- Order intake up by 21%.
- EBIT margin increased by 1.8 percentage points to 13.7%.

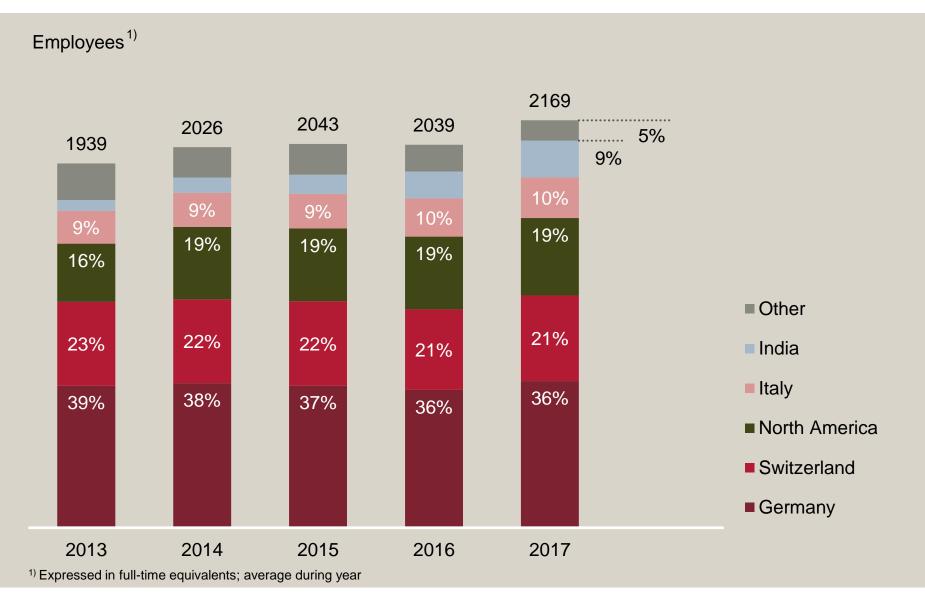
Bucher Hydraulics Net sales by region





Bucher Hydraulics Number of employees by region

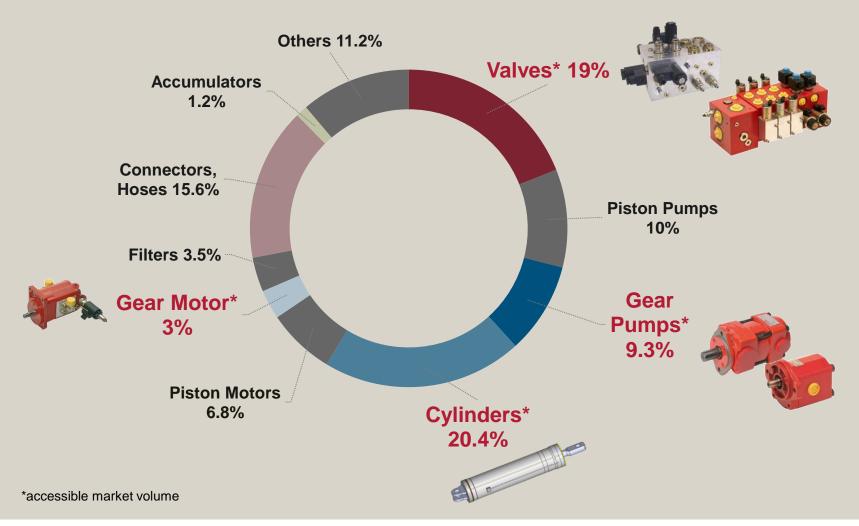




Bucher Hydraulics World hydraulics component market



Total EUR 29 billion



Bucher Hydraulics Complete product range



Competitors	Pumps			Valves					Motors & cylinders			Accessories			Power packs			
	Pis- ton	Vane	Gear	Indu- strial (Cetop)	vo	Direc- tional- spool			Spe- cial	Gear	Pis- ton	Cylin- ders	tro-	Accu- mulat- ors		Other		Con- trac- ting
Bucher Hydraulics																		
Parker (USA)																		
Eaton (USA)																		
Rexroth (DE)																		
Danfoss (DK)																		
Hydac (DE)																		
HAWE (DE)																		
Dana (IT)																		
Interpump (IT)																		
Argo-Hytos (DE)																		
Moog (USA)																		
Concentric (SE)																		
Husco (USA)																		
Sun Hydraulics (USA)																		
Hydraforce (USA)																		

Bucher Hydraulics Market position



Bucher Hydraulics

Leading international manufacturer of modern hydraulic systems.



- European market leader in mobile and elevator hydraulics. 10% to 20% market share across Europe in specialised areas of hydraulic engineering.
- Strong presence in the USA.
- Growth in Brazil, India and China.
- Concentration on customer-specific drive solutions.

Bucher Hydraulics Outlook for 2018



- Sustained high demand, above all in Germany and North America.
- Investments in research and development and expanding capacities at several locations.
- For 2018: Significant increase in sales expected. The operating profit margin is likely to be high, but due to seasonal characteristics and the expected consolidation of the joint venture Wuxi Deli Fluid Technology Co., Ltd. it is estimated to come in slightly lower than in the first half of 2018.

Bucher Emhart Glass Glass container manufacturing equipment



Hot End



Cold End

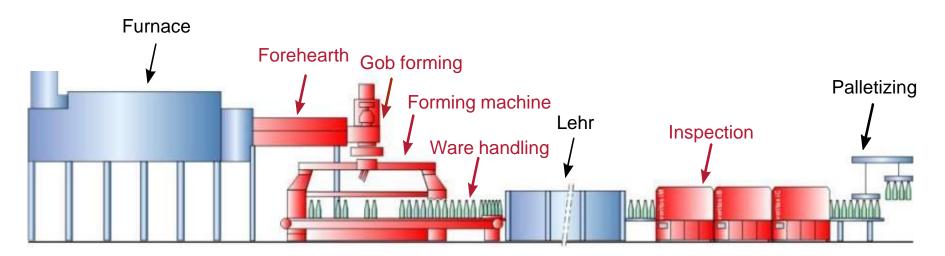


Gob forming

Glass-forming machine

Ware handling

Inspection



Glass container manufacturing process

Bucher Emhart Glass 2017 in brief

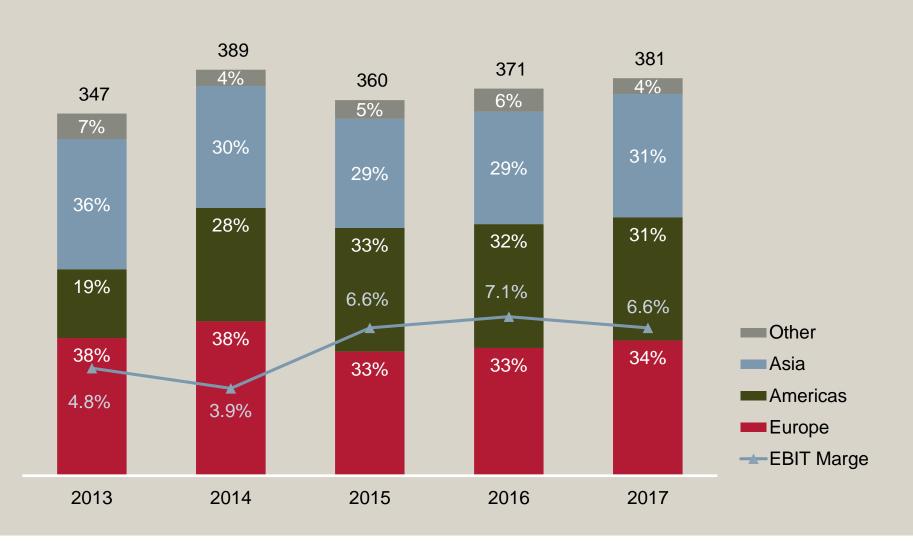


- Overall, demand for glass-forming and inspection machinery rose in nearly all markets.
- Good business performance, partly attributable to cooperation with O-I.
- Significant increase in order intake of 28%.
- Modest increase in sales of 3% due to long lead times in project business.
- EBIT margin kept down to 6.6% by inventory adjustments at the joint venture Sanjin.

Bucher Emhart Glass Net sales by region

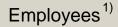


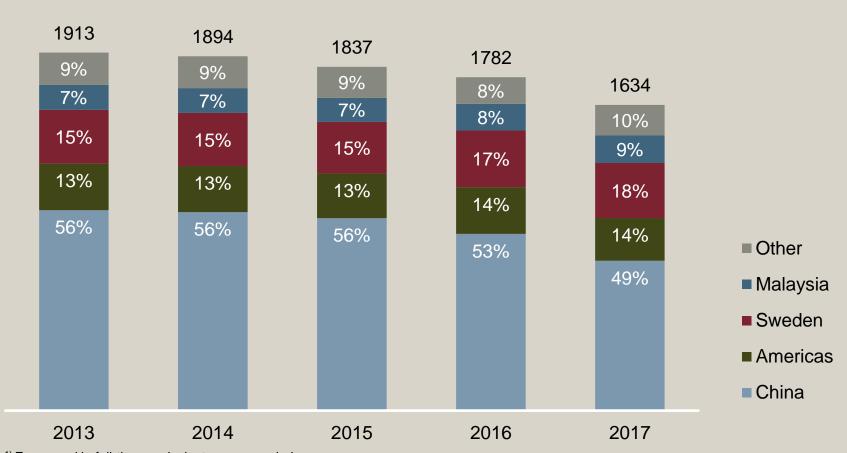




Bucher Emhart Glass Number of employees by region



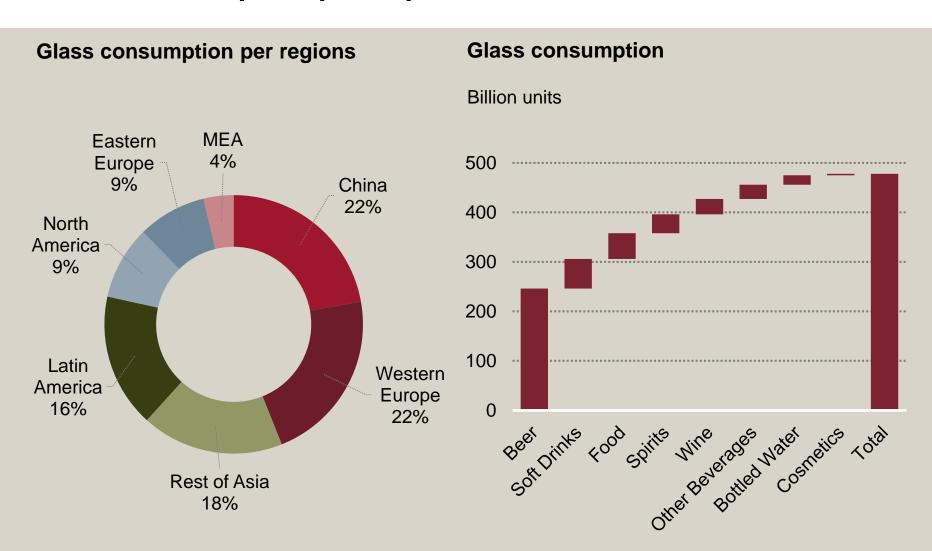




¹⁾ Expressed in full-time equivalents; average during year

Bucher Emhart Glass Glass consumption per capita





Source: Euromonitor International (2015)

Bucher Emhart Glass World's leading machinery manufacturer



Competitors			•••••	Cold End								
				IS	S formin	ig mac	hine					
	Refrac- tory	Fore- hearth	Feeder & shear	NIS	BIS	AIS	IS	Ware handling	Lehr	Inspec- tion	Palle- tising	Wrap- ping
Bucher Emhart Glass	3											
Bottero (IT)												
Heye (DE)												
Sklostroj (CZ)												
GPS (DE)												
BDF (IT)												
Mitbewerber (CN)												
Tiama (FR)												
PSR (UK)												

Bucher Emhart Glass Market position



Bucher Emhart Glass

World's leading supplier of machinery, equipment and services for glass container manufacturers.



- 50% market share worldwide for glass-forming machinery and servicing.
- Solid market position in inspection machines.
- Global partnership with O-I (USA), the world's biggest manufacturer of glass containers.

Bucher Emhart Glass Outlook for 2018



- High order book at the start of the year.
- Stable demand for glass container production machinery.
- Further development of subsidiary Sanjin, China.
- End-to-end vision to be promoted.
- For 2018: Significant increase in sales and attainment of the long-term goal of an operating profit margin of 9% expected.

Bucher Specials



Bucher Vaslin





Winemaking equipment

Bucher Landtechnik





Agricultural distributorship in Switzerland

Bucher Unipektin





Fruit juice processing systems, beer filtration, drying equipment

Jetter



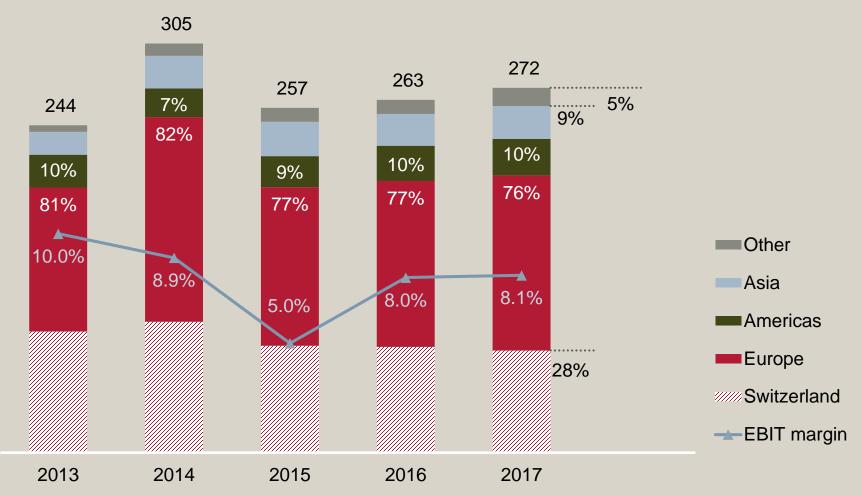


Automation solutions

Bucher Specials Net sales by region

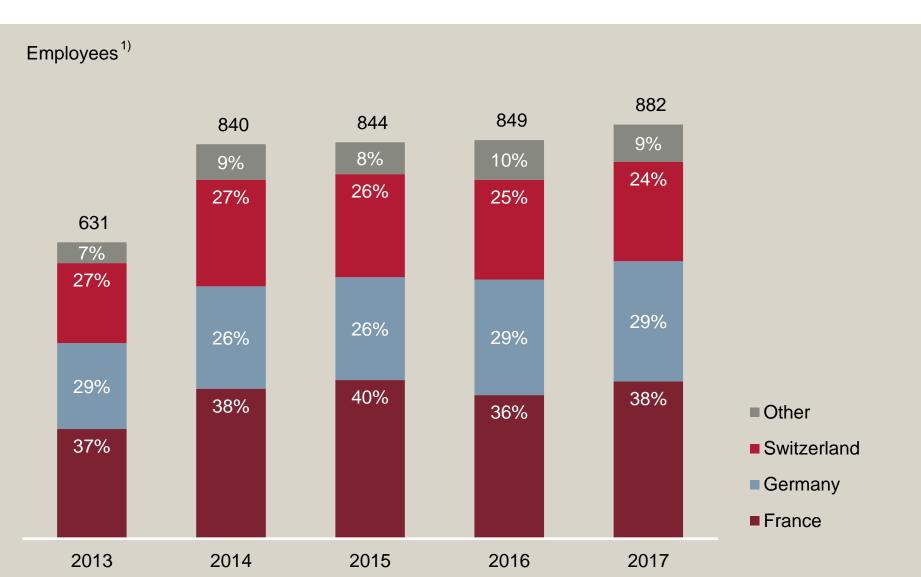






Bucher Specials Number of employees by region





¹⁾ Expressed in full-time equivalents; average during year

Bucher Specials 2017 in brief



- Varied market trends
 - Winemaking equipment: stable order intake; main markets suffering from adverse weather conditions.
 - Project business in beverage technologies: solid demand, but some financing-related customer delays.
 - Agricultural machinery business in Switzerland: subdued trend at a high level.
 - Automation solutions: good performance and pleasing sales progress.
- Sales up 3%.
- 8.1% EBIT margin slightly up on previous year, but kept down by high material costs.





Competitors	Reception	Crushing	Pressing	Fermentation	Filtration	Filling
Bucher Vaslin						
Diemme (IT)						
Della/Toffola (IT)						
Pellenc/Pera (FR)						
Willmes (DE)						
Gai (IT)						

Bucher Unipektin World market leader in juice production



Competitors	Reception	Milling	Mash heating	Dejuicing	Pasteuri- sation	Filtration	Adsorp- tion	Evapo- ration
Bucher Unipektin								
Flottweg (DE)								
Bauer & Partners (PL)								
GEA Group (DE)								
Alfa Laval (SE)								
Schmidt-Bretten (DE)								
Bellmer (DE)								
Kaimi (CN)								

Bucher Landtechnik Market leader in Switzerland



Competitors	Mowers	Hay an Tedders	d forage Rakes	Balers	Hedge cutters	Feed mixers	Tillage e driven	quipment non- driven		ders precision	Sprea- ders	Spray- ers	Trac- tors	Harvesters self - propelled	Wheel- loaders
Bucher Landtechnik	Kuhn	Kuhn	Kuhn	Kuhn	Kuhn	Kuhn	Kuhn	Kuhn	Kuhn	Kuhn		Kuhn	CNH		Weide- Mann, Merlo
Matra (John Deere)															
GVS (AGCO)	Krone	Krone	Krone	Krone			Rabe	Rabe	Rabe	Rabe			Fendt / MF/ Valtra	Fendt / MF / Krone	Bichon
Serco (Claas)															InTrac
Ott Landmaschinen	Kv	Kv	Kv	Kv		Kv	Amazone Kv	Amazone Kv	Amazone Kv		Amazone Rauch / Kv				
Pöttinger CH															

Jetter Market position in Europe



Competitors		Field level	Control level	Diagnostic level	Enterprise level
Industrial automation	Sensors	Actuators (amplifiers, motors, field devices)	Control systems	HMI's and Visualization	Enterprise- and manufacturing control (MES)
Jetter					
Siemens (DE)					
Schneider (FR)					
Beckhoff (DE)					
B&R (AT)					
Mobile automation					
Jetter		Cooperation with Bucher Hydraulics			
ifm (DE)					
Müller Elektronik (DE)					
Moba (DE)					

Bucher Specials Market position



Bucher Specials

World market leader in fruit juice and wine production equipment.



- Bucher Vaslin World market leader in wine production equipment.

 Market share ranges from 35% to 45% worldwide.
- Bucher Unipektin World market leader in fruit and vegetable juice processing equipment.
 Market share ranges from 35% to 45% worldwide.
- Bucher Landtechnik Swiss distributorship for tractors, agricultural attachments and farm loaders.

 Domestic market shares range from 20% to 30%.
- Jetter Industrial and mobile automation technology.
 Market shares around 3% in specific segments.

Bucher Specials Outlook for 2018



- Stable demand for wine production equipment despite poor harvests in 2017 in Italy, France and Spain.
- Positive development of the market for beverage technology.
- Swiss agricultural machinery business suffering from political uncertainties.
 - Bucher is still endeavouring to assist the Swiss Competition Commission (COMCO) with its investigations into Bucher Landtechnik AG and to help fully resolve the issues.
- Positive trend in industrial and mobile automation.
- For 2018: Higher sales and an improvement of the operating profit margin expected.





Group outlook for 2018



- **Kuhn Group**: Positive development in dairy and livestock farming to persist. Delayed recovery of agriculture in North America. Higher sales with an operating profit margin at the same level as last year expected.
- **Bucher Municipal**: Good market conditions to continue and high order book. Sharp increase in sales and in the operating profit margin expected.
- Bucher Hydraulics: Demand to remain encouraging.
 Significant increase in sales and a high, but compared to the first six months slightly lower, operating profit margin expected.
- **Bucher Emhart Glass**: Optimism on the markets and robust order book. Significant increase in sales and attainment of the long-term goal of an operating profit margin of 9% expected.
- **Bucher Specials**: Varied market trends. Higher sales and an improvement of the operating profit margin expected.

Overall, the Group expects increases in both sales and net profit for the year.

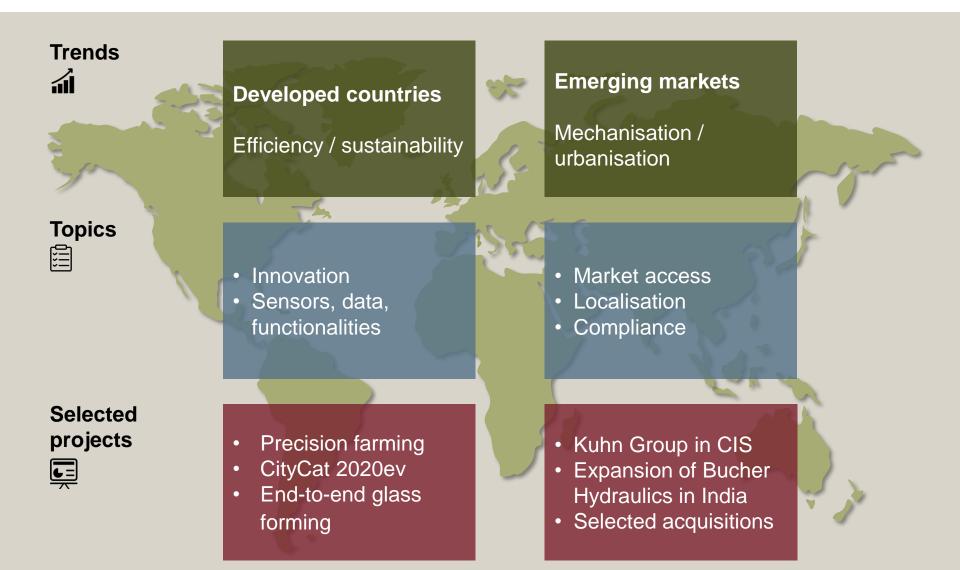
Medium-term earnings targets



EBIT margin in %	2013	2014	2015	2016	2017	targets
Kuhn Group	14.9	12.1	10.2	8.0	8.6	12
Bucher Municipal	8.6	7.7	8.4	3.7	6.1	8
Bucher Hydraulics	9.4	10.2	11.5	11.9	13.7	11
Bucher Emhart Glass	4.8	3.9	6.6	7.1	6.6	9
Bucher Specials	10.0	8.9	5.0	8.0	8.1	10
Bucher Industries	10.7	9.2	8.3	7.1	8.6	10
Group and divisions						
RONOA after tax	19.3	15.8	11.5	9.7	13.2	>16

Regionally varying trends demand a geographically adapted strategy







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