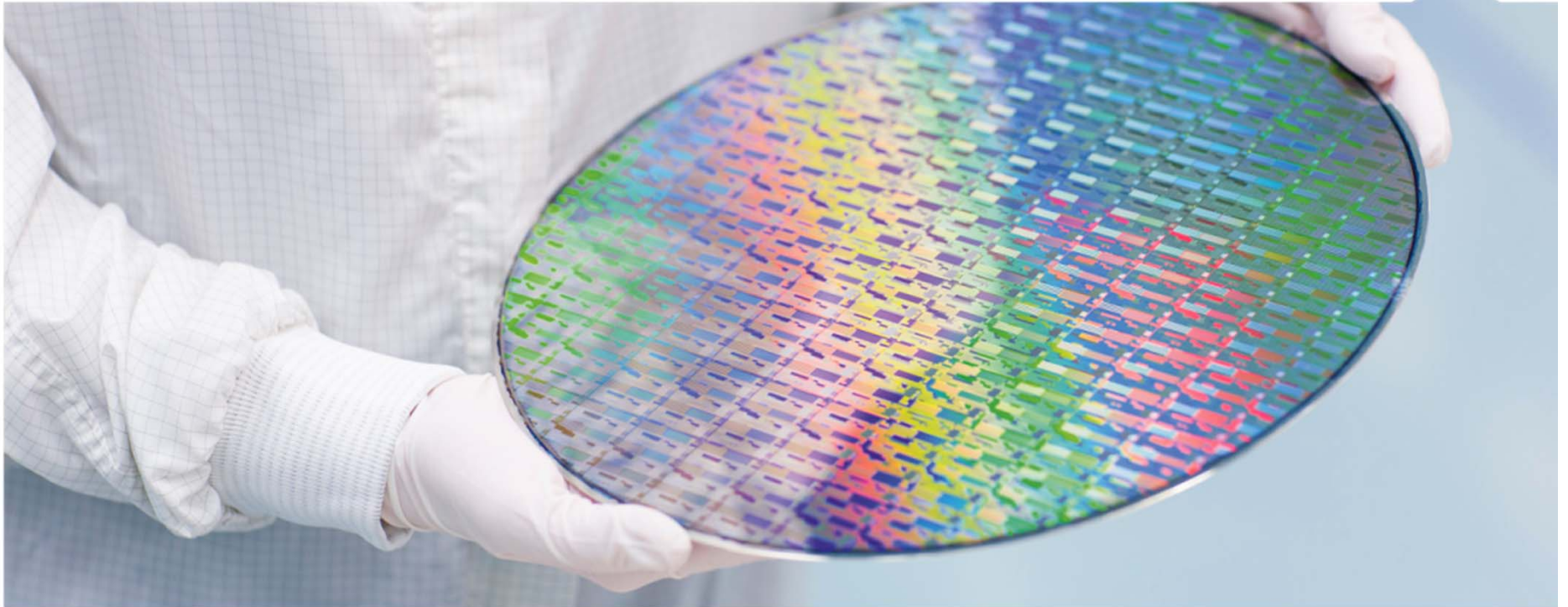


DRIVE INNOVATION • DELIVER EXCELLENCE >



INVESTOR PRESENTATION

Q4 2013 RESULTS

February 27, 2014

SAFE HARBOR STATEMENTS



Safe Harbor Statement under the U.S. Private Securities Litigation Reform Act of 1995: All matters discussed in this business and strategy update, except for any historical data, are forward-looking statements. Forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those in the forward-looking statements. These include, but are not limited to, economic conditions and trends in the semiconductor industry generally and the timing of the industry cycles specifically, currency fluctuations, corporate transactions, financing and liquidity matters, the success of restructurings, the timing of significant orders, market acceptance of new products, competitive factors, litigation involving intellectual property, shareholder and other issues, commercial and economic disruption due to natural disasters, terrorist activity, armed conflict or political instability, epidemics and other risks indicated in the Company's filings from time to time with the U.S. Securities and Exchange Commission, including, but not limited to, the Company's reports on Form 20-F and Form 6-K. The company assumes no obligation to update or revise any forward-looking statements to reflect future developments or circumstances.

INVESTMENT HIGHLIGHTS



› **ALD is a key growth market**

- ALD market expected to outperform the broader equipment market
- ASMI has the leadership positions in ALD and PEALD

› **Strong revenue momentum**

- ASMI grew revenue by 22% in 2013
- Outperforming the overall equipment market

› **Improved profitability**

- Gross margin increased to 39%
- Programs in place for further margin improvement

› **Solid balance sheet**

- Over EUR 300m in cash, no debts
- Strongly improved cash flow

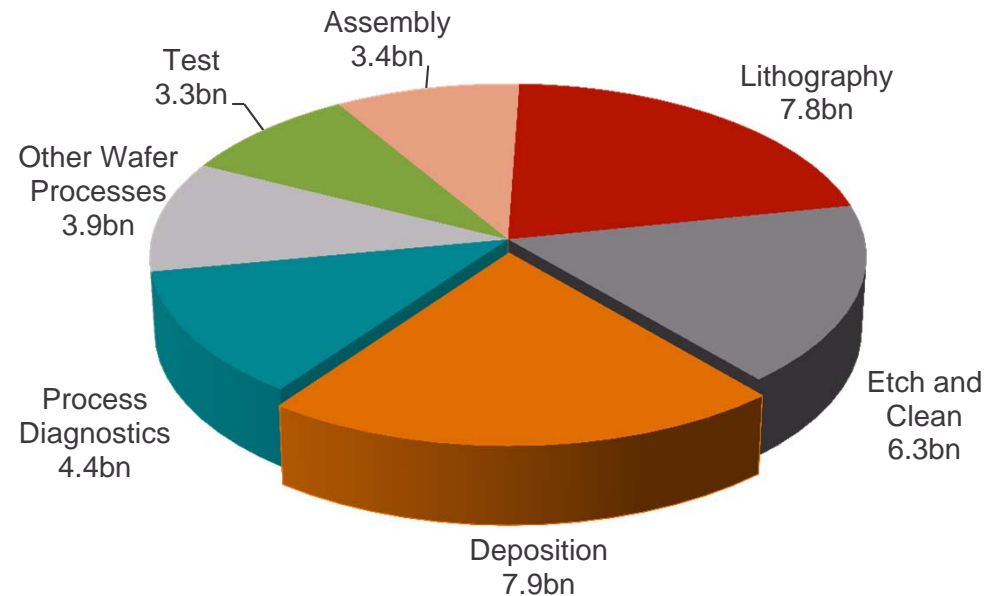
Q4 2013 KEY RESULTS



EUR million	Pro-forma Q4 2012	Q3 2013	Q4 2013	Pro-forma 2012	Pro-forma 2013
New orders	129.5	112.2	133.1	360.1	479.6
Net sales	93.1	116.4	126.9	370.4	452.0
Gross profit margin %	37.1%	39.1%	39.3%	33.6%	39.0%
Operating results	1.2	11.6	15.8	0.5	44.7
Result from investments (excl. amortization and fair value purchase price allocation)	(3.0)	10.8	1.5	35.5	20.9
Remeasurement gain, realized gain on sale of ASMPT shares, amortization and fair value adjustments	-	(17.2)	(369.8)	-	979.8
Net earnings	(21.7)	(0.9)	(360.6)	7.1	1,025.3
Normalized net earnings (excl. remeasurement gain, realized gain on sale of ASMPT shares, amortization and fair value adjustments)	(21.7)	16.3	9.3	7.1	45.5

- › ASM focuses on deposition equipment
- › ASM is the market leader in ALD and PEALD
- › Positions in Epitaxy, PECVD and Vertical Furnaces

Equipment market segments (US\$)

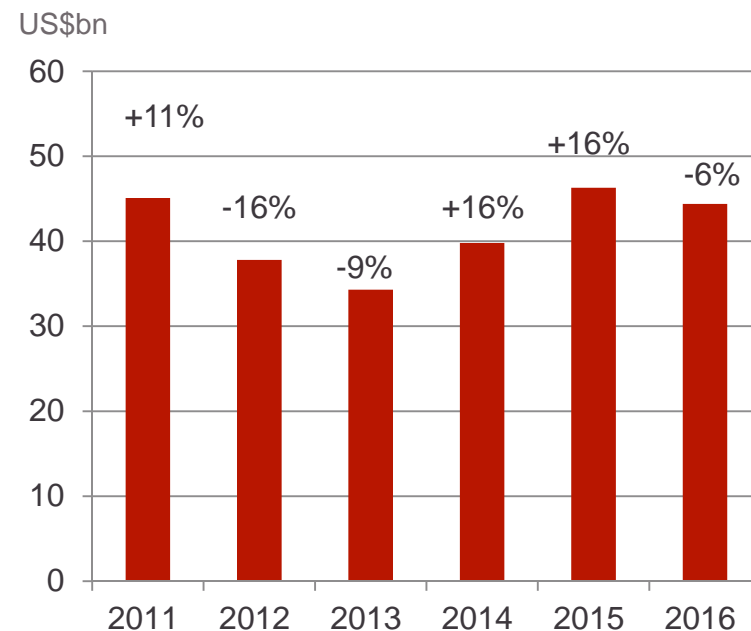


VLSI Research, January 2014

ASM's focus is on deposition equipment

- › Gartner forecasts a double digit market increase for 2014
- › Driven by investment in leading edge equipment
- › Healthy investment levels in Foundry and Logic, capex recovery in Memory segment

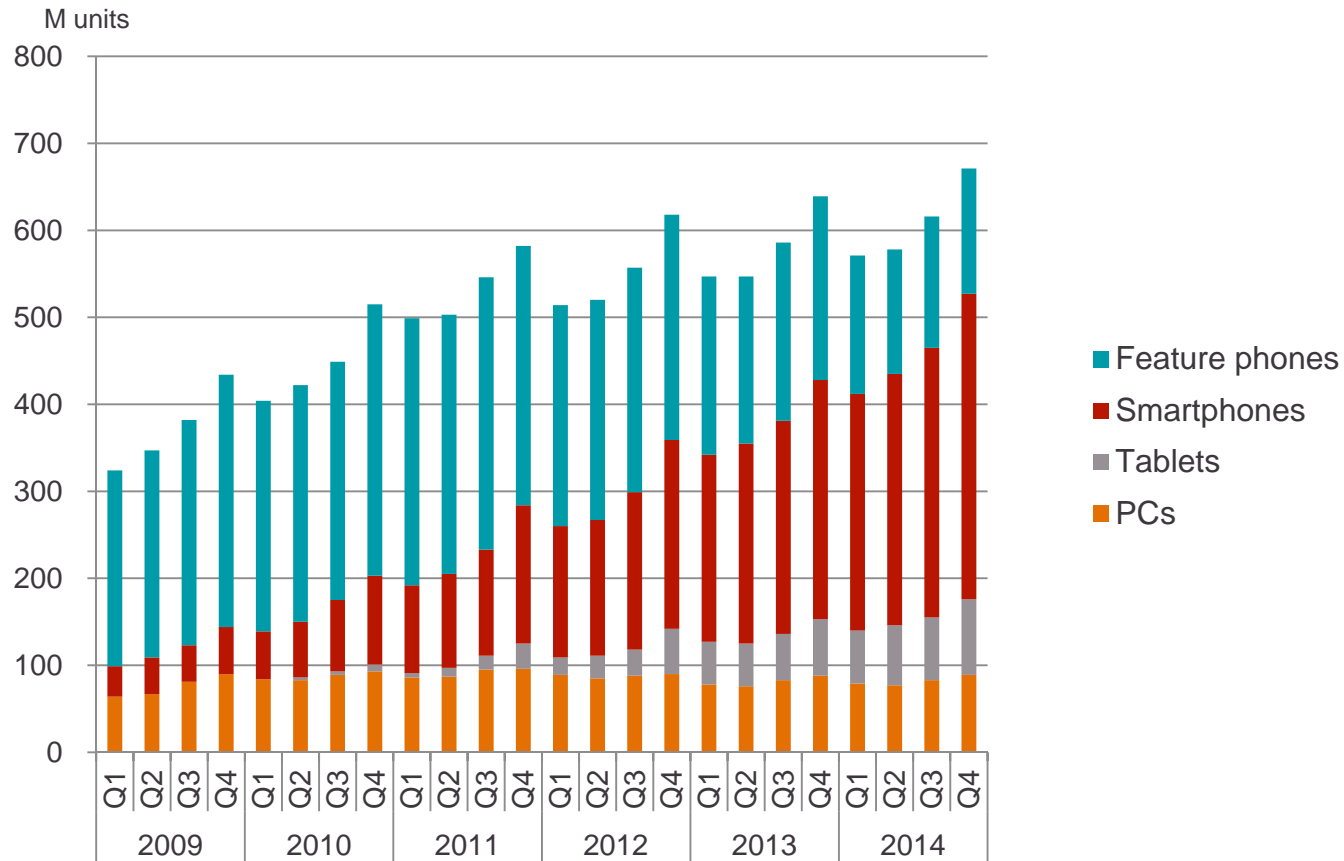
Capital equipment spending



Gartner, December 2013

Double digit growth forecast for semi equipment market in 2014

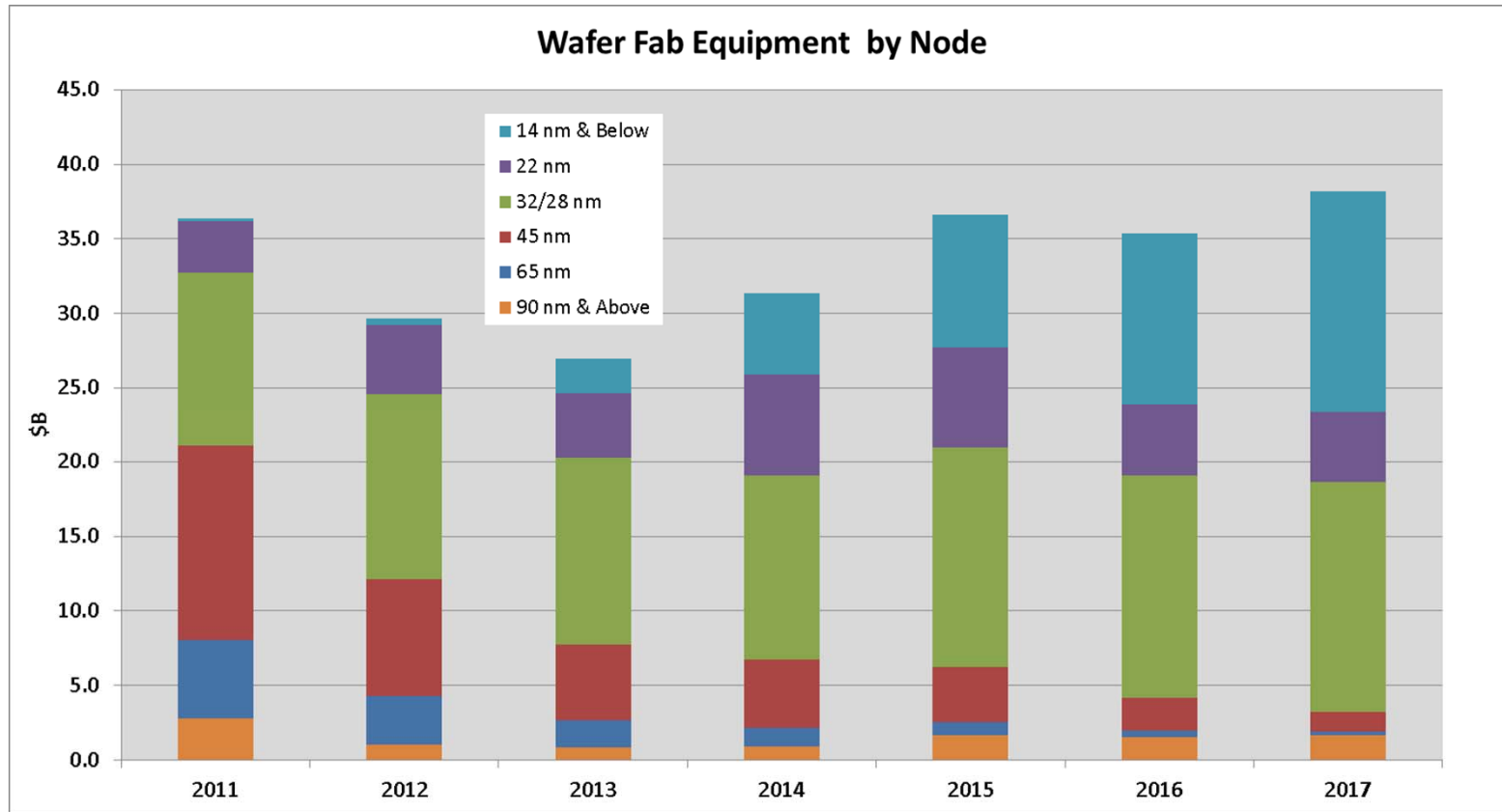
MOBILITY THE KEY END MARKET DRIVER



VLSI Research, January 2014

**Smartphones the strongest growing end market
Driver for faster, more power-efficient semiconductor devices**

WAFER FAB EQUIPMENT SPENDING BY NODE



Gartner, December 2013

Expanding opportunities for ALD and PEALD at 22nm, 14nm and below

ALD IS AN ENABLING TECHNOLOGY



› **ALD technology is a key enabler of Moore's Law**

- Strengths of Atomic Layer Deposition: high-precision deposition of smooth and conformal ultra thin films, even on high aspect ratio structures
- Device scaling, new materials and 3D architectures increase demand for ALD and PEALD

› **ASMI has the leading position in ALD**

- ASMI is the leader in thermal ALD for high-k metal gate applications
- Leading market share in plasma-enhanced ALD (PEALD) for spacer defined multiple patterning in the Memory market

› **Strong market outlook ALD**

- Drivers are further deployment of ALD and PEALD in volume manufacturing, new applications and additional process steps
- ALD market expected to outperform the broader semiconductor equipment market

COMPETITIVE ADVANTAGES



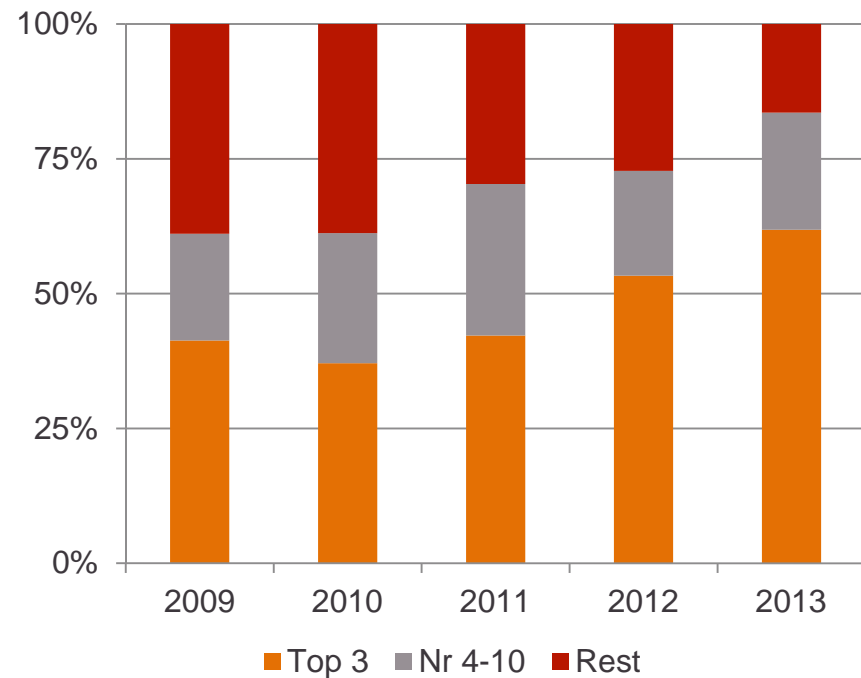
- › **Focused player, differentiated technologies**
- › **Track record of innovation**
- › **Global network, streamlined operations**
- › **Leadership in ALD**
 - Developing ALD technology since 1999
 - Largest player in both single wafer ALD and PEALD
- › **Close cooperation with the leading IC manufacturers**
- › **Strong IP portfolio**

CUSTOMER CONCENTRATION



- › Wider adoption number of top capex customers
- › Diversification of customer base from Logic to Memory and Foundries
- › Weight of Asia growing

ASMI revenue



Growing share of wallet with top clients

HIGHLIGHTS



› Accelerated momentum ALD and PEALD

- ALD and PEALD further established as mainstream enabling technologies
- Expanding customer engagements and new applications

› Strong financial results

- Revenue increased 22% in 2013
- Gross margin increased to 39%, EBIT margin 9.9%

› Further actions to improve performance

- Gross margin improvement programs

› Reduced shareholding in ASMPT from 52% to 40% in March 2013

- Deconsolidation of the Back-end operations
- Return of capital of € 4.25 per share to shareholders in July 2013

ASMPT RESULTS



- › As of 15 March 2013, our 40% share of ASMPT net profits is included in ‘result from investments’
- › PPA regular amortization charge of approximately €5.5m per quarter
- › One-off PPA fair value adjustments of €40m in 2013
- › Realized and remeasurement gain on sale of ASMPT shares totaled €1bn in 2013, including adjustments in Q4

EUR million	Pro-forma Q4 2012	Q3 2013	Q4 2013
Sales ASMPT	227	302	270
Net profit ASMPT	(4.3)	26.8	4.6*
Net profit ASMPT attributable to ASMI	(3.0)	10.8	1.5
Remeasurement gain, realized gain on sale of ASMPT shares, amortization and fair value adjustments	-	(17.2)	(369.8)
Result from investments	(3.0)	(6.4)	(368.3)

* Including a restructuring charge of €9.9m (100% based)

FINANCIAL OVERVIEW

Q4 2013 HIGHLIGHTS



- › Revenues up 9% q-o-q and up 36% y-o-y on a pro-forma basis
- › Bookings up 19% q-o-q and up 3% y-o-y, book-to-bill ratio of 1.0
- › Q4 backlog of €115m, up from €111m in Q3
- › EBIT margin of 12.5% compared to 9.9% in Q3 2013 and 1.3% pro-forma in Q4 2012
- › Cash flow from operations of €12m in Q4
- › Normalized net earnings* of €9.3m, compared to €16.3m in Q3 2013 and €-21.7m pro-forma in Q4 2012

** excl. re-measurement gain, realized gain on sale of ASMPT shares, amortization and fair value adjustments*

FINANCIAL OUTLOOK



Based upon the current backlog and our current visibility:

For Q1 2014 we expect a double digit sales increase compared to Q4 2013, on a currency comparable base.

For Q2 2014 we also expect a double digit sales increase compared to Q4 2013, on a currency comparable basis.

For the second half of 2014, the current visibility is limited.

Q1 2014 order intake is expected to show a double digit increase as compared to Q4 2013, on a currency comparable base.

NET EARNINGS



EUR million	Pro-forma Q4 2012	Q3 2013	Q4 2013	Q4 2013 vs Q3 2013	Q4 2013 vs Q4 2012
New orders	129.5	112.2	133.1	19%	3%
Backlog	91.7	111.4	114.8	3%	25%
Book-to-bill	1.4	1.0	1.0		
Net sales	93.1	116.4	126.9	9%	36%
Gross profit	34.6	45.6	49.9	9%	44%
Gross profit margin %	37.1%	39.1%	39.3%		
Selling, general and administrative expenses	(18.2)	(18.2)	(18.6)	2%	2%
Research and development expenses	(14.3)	(14.8)	15.0)	1%	5%
Restructuring expenses	(0.9)	(1.0)	(0.5)	n/a	n/a
Operating result	1.2	11.6	15.8	4.2	14.6
Operating margin %	1.3%	9.9%	12.5%		
Result from investments	(3.0)	10.8	1.5	(9.3)	4.5
Remeasurement gain, realized gain on sale of ASMPT shares, amortization and fair value adjustments	-	(17.2)	369.8	(352.6)	(369.8)
Net earnings	(21.7)	(0.9)	360.6	(359.7)	(338.9)
Normalized net earnings (excl. remeasurement gain, realized gain on sale of ASMPT shares, amortization and fair value adjustments)	(21.7)	16.3	9.3	(7.0)	31.0
Normalized net earnings per share, diluted	(€0.37)	€0.26	€0.14	(€0.12)	€0.51

CASH FLOW



EUR million	Pro-forma Q4 2012	Q3 2013	Q4 2013
Net earnings	(19.5)	(0.9)	(360.6)
Depreciation and amortization	4.9	5.1	5.7
PPA amortization and adjustments	-	17.2	369.8
Result from investments	0.8	(10.8)	(1.5)
Other adjustments	14.0	1.9	4.7
Change in working capital	<u>2.9</u>	<u>21.8</u>	<u>(6.1)</u>
Net cash from operating activities	3.2	34.3	12.0
Net cash from investing activities	(10.0)	(0.4)	(6.9)
Dividend paid and capital repaid to ASMI shareholders	-	(269.7)	0.1
Other	<u>(32.2)</u>	<u>5.8</u>	<u>4.6</u>
Net cash from financing activities	(32.2)	(263.9)	4.7

BALANCE SHEET

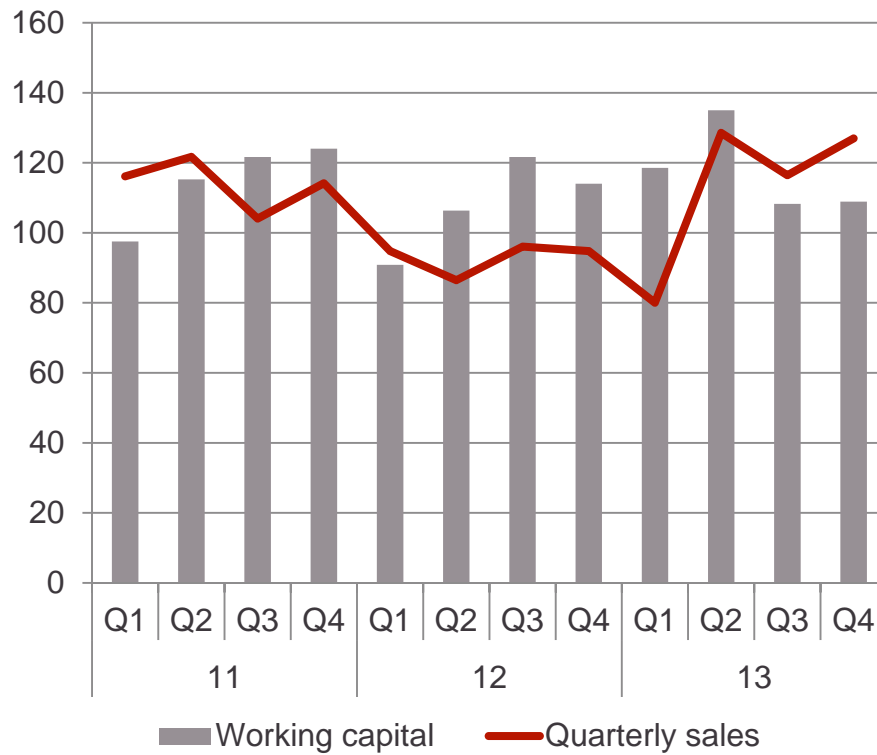


EUR million	Pro-forma Dec 31, 2012	Dec 31, 2013
Cash and cash equivalents	145	312
Accounts receivable	63	81
Inventories	122	105
Other current assets	20	18
Investments and associates	374	950
Property, plant and equipment	64	57
Other non-current assets	46	33
Total Assets	833	1,557
Accounts payable	45	45
Short-term debt	-	-
Other current liabilities	43	57
Long-term debt	-	-
Other non-current liabilities	4	3
Shareholders' equity	742	1,453
Total Liabilities and Equity	833	1,557

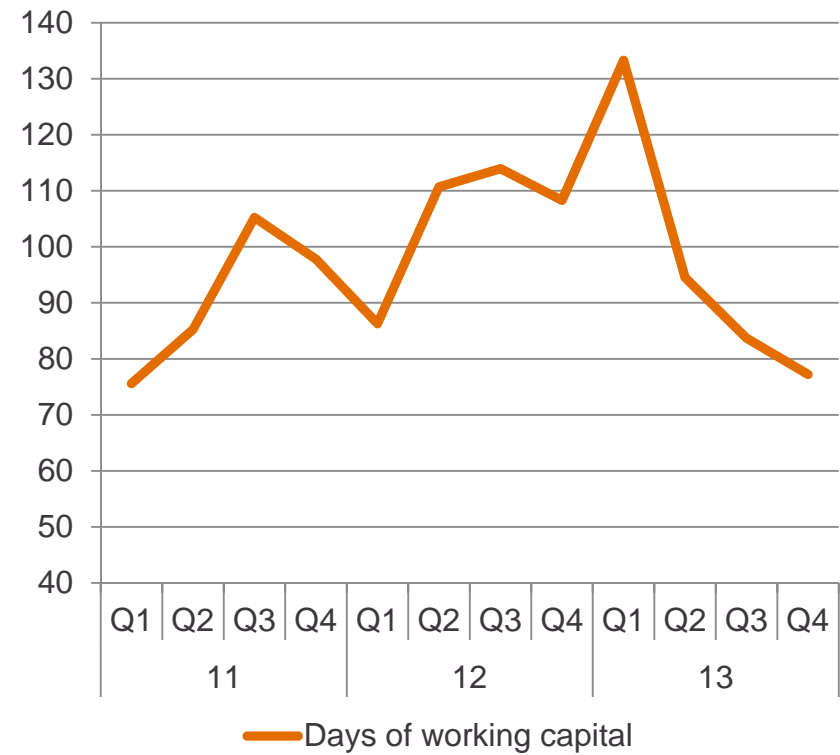
WORKING CAPITAL



EUR million



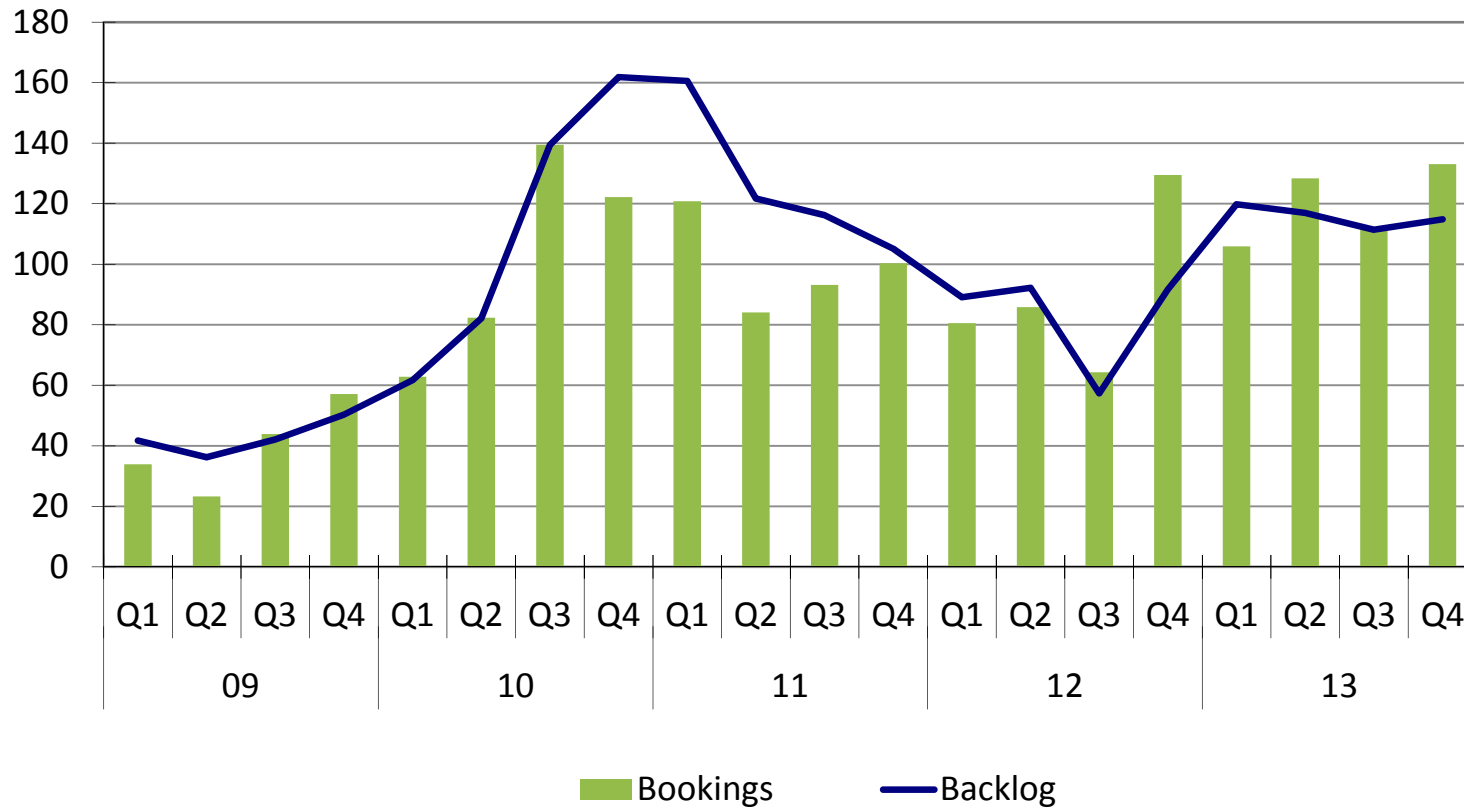
Days



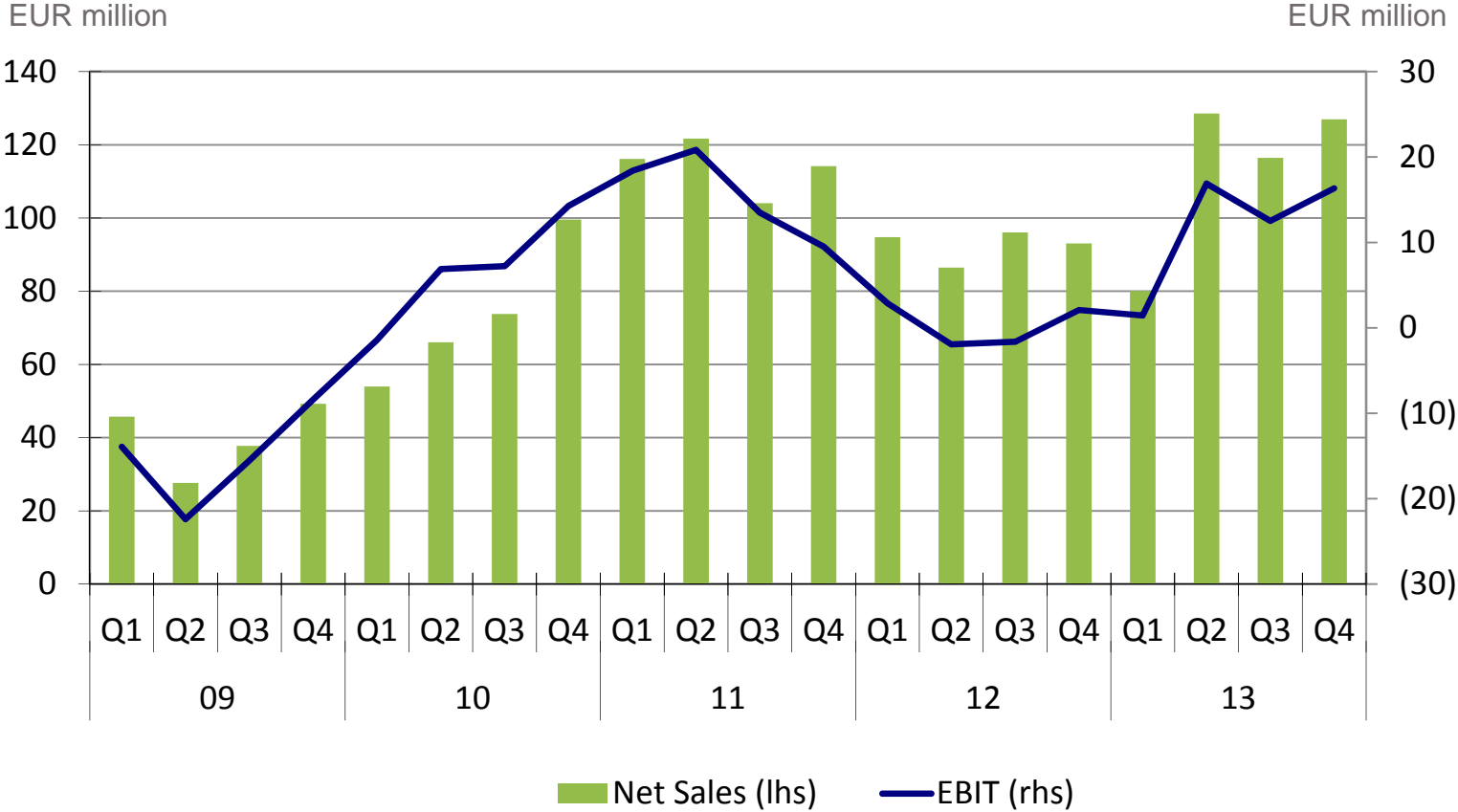
BOOKINGS AND BACKLOG



EUR million



HISTORICAL DEVELOPMENT



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