(Scale All Share, Technology)



Buy		Value Indicators:	EUR	Share data:		Description:	
Buy		DCF:	25.00	Bloomberg:	V3S GR	Leading point-of-sale system	ms with a
25 00		FCF-Value Potential 2022:	21.50	Reuters:	V3SG	focus on the gastronomy ar	nd bakery
EUR <b>25.00</b>				ISIN:	DE000A0KEXC7	sector	
		Market Snapshot:	EUR m	Shareholders:		Risk Profile (WRe):	2019e
Drice	EUD 47 00	Market cap:	129.2	Freefloat	43.8 %	Beta:	1.3
Price	EUR 17.80	No. of shares (m):	7.3	Thomas Stümmler	24.9 %	Price / Book:	11.1 x
Upside	40.4 %	EV:	129.2	Jens Reckendorf	21.1 %	Equity Ratio:	43 %
		Freefloat MC:	56.6	Primepulse SE	10.3 %		
		Ø Trad. Vol. (30d):	657.76 th	TBF Global Asset Managen	nent 5.6 %		

#### Peer Lightspeed acquires Gastrofix for USD 100m

The Canadian peer Lightspeed last week announced the acquisition of Gastrofix for USD 100m.

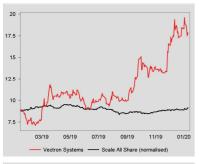
#### Who are Lightspeed / Gastrofix?

- Lightspeed (Montreal, Canada; successful IPO in March 2019) is a supplier of POS software (iPad-based) mainly for retail or restaurant customers. Lightspeed has about 57,000 customers mainly in North America. In Europe the company has a stronger presence in the Netherlands and Belgium. Like Vectron, Lightspeed is increasingly integrating payment processing in its own software. With overall revenue of USD 160m, the average revenue per customer is ca. USD 200 per month. The payment opportunity should double this value. Breakeven is expected to be reached in two years. The valuation is currently ca. 17x revenue.
- Gastrofix also offers POS software (iPad-based) for the European region. In 2019, the company achieved revenues of about EUR 11m with ca. 8,000 customers mainly in Germany, Austria, Switzerland and Norway. Gastrofix should already be generating about 80-90% of its revenue with recurring revenue (monthly fees for use of cash-register software). With about 140 employees (for comparison: Vectron has ca. 180 employees) Gastrofix should still have been clearly loss-making in 2019.

Lightspeed acquires Gastrofix for USD 100m (USD 61m cash + ca. USD 40m in shares) plus earn-out components of up to USD 26m if targets are surpassed. The revenue multiple of ~8x (based on 2019) clearly shows not only the strategic price paid to take over Gastrofix, one of the leading POS software suppliers, but also the growth potential offered by the transformation of the German and the European cash register market towards cash registers as an SaaS platform. Applying this to Vectron's revenues results in a comparable valuation of EUR 26 (2019) – EUR 57 (2020) per share.

In the area of iPad-based POS software (such as e.g. Orderbird) Lightspeed should, with the acquisition, become the leading player in Europe. In the market for proprietary cash register systems (advantage is a higher robustness and stable operation in unfavourable environments like restaurants or bakeries), Vectron with a market share of 25-30% in the core regions of Germany, Austria, Switzerland and BeNeLux (and with ~80,000 customers, a far higher share than Gastrofix) is still in an outstanding position to establish an SaaS model. In particular, the roll-out of the Duratec cash registers without hardware costs for the hospitality customers and refinancing via integrated digital services, like e.g. payment in the context of the upcoming fiscal upgrades, should lead to market share gains in 2020/21 and an increase in recurring sales. The introduction of digital services like Datev/Cloud connection to the existing Vectron customer base should also become increasingly visible in 2020.

With the takeover of Gastrofix, **consolidation continues in the fragmented market for tablet-based POS software**. The dominant European player of the future could crystalise out of Lightspeed. As **differences in the pitches to customers** (proprietary hardware vs. simple iPad cash registers) should ensure that this does not have a negative impact on the roll-out of the Duratec cash registers, the positive valuation signal prevails. Vectron should already have started the roll-out of Duratec cash registers. **Towards the end of Q1, first reliable information regarding customer figures etc. could provide for further impetus here**. The price target and rating remain unchanged.

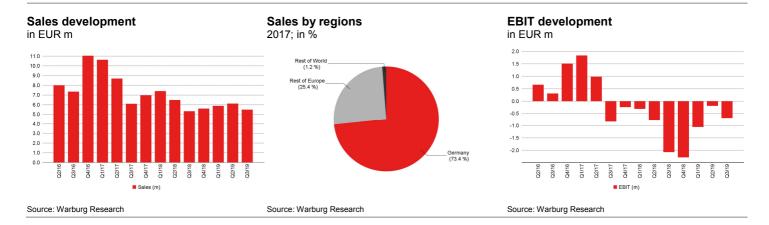


Rel. Performance vs Scale All	
1 month:	-5.2 %
6 months:	69.0 %
Year to date:	-5.6 %
Trailing 12 months:	99.4 %

FY End: 31.12. in EUR m	CAGR (18-21e)	2015	2016	2017	2018	2019e	2020e	2021e
Sales	35.2 %	25.2	33.7	32.4	24.8	23.8	52.2	61.3
Change Sales yoy		12.5 %	33.7 %	-4.0 %	-23.3 %	-4.1 %	119.2 %	17.4 %
Gross profit margin		58.5 %	54.4 %	56.7 %	53.7 %	56.0 %	56.0 %	57.0 %
EBITDA	-	2.6	3.6	2.3	-3.8	-2.3	6.6	10.5
Margin		10.5 %	10.7 %	7.0 %	-15.2 %	-9.5 %	12.7 %	17.2 %
EBIT	-	2.1	3.1	1.8	-5.4	-2.9	6.0	9.9
Margin		8.2 %	9.1 %	5.4 %	-22.0 %	-12.1 %	11.5 %	16.2 %
Net income	-	1.2	2.0	1.1	-3.9	-3.1	4.0	6.5
EPS	-	0.79	1.23	0.16	-0.59	-0.43	0.55	0.89
EPS adj.	-	0.79	1.23	0.16	-0.59	-0.43	0.55	0.89
DPS	44.2 %	0.30	1.00	0.05	0.05	0.05	0.10	0.15
Dividend Yield		6.6 %	9.0 %	0.2 %	0.3 %	0.3 %	0.6 %	0.8 %
FCFPS		0.72	0.23	-0.46	-0.40	-0.54	0.13	0.93
FCF / Market cap		16.0 %	2.1 %	-1.8 %	-2.3 %	-3.0 %	0.7 %	5.2 %
EV / Sales		n.a.	0.3 x	5.0 x	5.2 x	5.5 x	2.5 x	2.0 x
EV / EBITDA		n.a.	2.9 x	71.4 x	n.a.	n.a.	19.5 x	11.7 x
EV / EBIT		n.a.	3.4 x	92.2 x	n.a.	n.a.	21.5 x	12.4 x
P/E		5.7 x	9.1 x	154.5 x	n.a.	n.a.	32.4 x	20.0 x
P / E adj.		5.7 x	9.1 x	154.5 x	n.a.	n.a.	32.4 x	20.0 x
FCF Potential Yield		n.a.	21.8 %	0.9 %	-1.8 %	-2.0 %	3.5 %	5.9 %
Net Debt		-1.7	-7.2	-1.7	1.2	0.5	-0.1	-6.1
ROCE (NOPAT)		23.2 %	29.8 %	11.2 %	n.a.	n.a.	30.8 %	46.5 %
Guidance:	2020: Sales >	EUR 50m; E	BIT margin le	ow double di	git			

Company events:



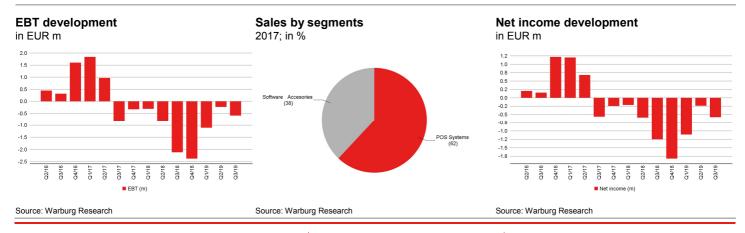


## **Company Background**

- Vectron is a leading provider of POS systems. The products are positioned in the medium to premium segment. With its high degree of functionality, Vectron is one of the technology and innovation leaders.
- Vectron focuses on the market for proprietary POS systems (30% of the overall market). PC-based systems (bulk of the market) usually require higher maintenance and are primarily used by large chain stores.
- Vectron's market share is particularly high in the food service and bakery industries, where the company is market leader for proprietary systems in the German-speaking area with a market share of ca. 25%.
- Vectron has some 180 employees. About one-third are employed in development and product management as the company aims to maintain its position as technology leader.
- Since end of 2013, Vectron addresses non-premium market segments and new markets abroad with a second trademark (Duratec) and simpler systems

### **Competitive Quality**

- Factors such as high reliability, ease of operation and low follow-up costs (maintenance/support) are required in the food service and bakery target sectors which are characterised by an atomistic customer structure.
- This explains the high penetration rate of the proprietary POS systems. Given that the large producers of POS systems mainly offer PC-based systems Vectron mainly has to face smaller competitors.
- Vectron differentiates itself from the mainly smaller competitors by rigorously pursuing the further development of the POS systems and thanks to the high additional use offered by wide functionality.
- By focusing on the premium segment, Vectron avoids the typical problems in the lower segment: solely differentiating on price. This is underpinned by gross margins of ca. 55% and ROCEs of well above 10%.
- Growth opportunities presently arise from the establishment of the cooperation with DeutschlandCard and potentially further partners.





DCF model														
	Detaile	d forecas	t period				7	ransition	al period					Term. Value
Figures in EUR m	2019e	2020e	2021e	2022e	2023e	2024e	2025e	2026e	2027e	2028e	2029e	2030e	2031e	
Sales	23.8	52.2	61.3	71.1	61.2	70.9	77.3	82.7	88.5	93.0	97.6	102.5	104.3	
Sales change	-4.1 %	119.2 %	17.4 %	16.0 %	-14.0 %	16.0 %	9.0 %	7.0 %	7.0 %	5.0 %	5.0 %	5.0 %	1.8 %	1.8 %
EBIT	-2.9	6.0	9.9	15.6	12.8	15.6	17.0	18.2	19.5	20.4	21.5	22.5	22.9	
EBIT-margin	-12.1 %	11.5 %	16.2 %	22.0 %	21.0 %	22.0 %	22.0 %	22.0 %	22.0 %	22.0 %	22.0 %	22.0 %	22.0 %	
Tax rate (EBT)	0.0 %	31.0 %	31.0 %	30.5 %	30.5 %	30.5 %	30.5 %	30.5 %	30.5 %	30.5 %	30.5 %	30.5 %	30.5 %	
NOPAT	-2.9	4.1	6.8	10.9	8.9	10.8	11.8	12.7	13.5	14.2	14.9	15.7	15.9	
Depreciation	0.6	0.6	0.6	1.1	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	
in % of Sales	2.6 %	1.2 %	1.0 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	
Changes in provisions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Change in Liquidity from														
- Working Capital	0.8	4.3	-0.2	1.3	-2.6	8.0	0.0	0.0	0.9	0.7	0.7	0.7	0.3	
- Capex	0.6	0.6	0.6	1.1	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	
Capex in % of Sales	2.4 %	1.1 %	0.9 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	1.6 %	
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Free Cash Flow (WACC Model)	-3.7	-0.1	7.1	9.6	11.5	10.1	11.9	12.6	12.7	13.5	14.2	14.9	15.7	16
PV of FCF	-3.8	-0.1	6.3	7.8	8.8	7.1	7.7	7.6	7.1	7.0	6.8	6.6	6.4	105
share of PVs		1.31 %						40.44	<b>4</b> %					58.24 %

Model parameter				Valuation (m)							
Derivation of WACC:		Derivation of Beta:		Present values 2031e	75						
				Terminal Value	105						
Debt ratio	7.00 %	Financial Strength	1.10	Financial liabilities	13						
Cost of debt (after tax)	2.8 %	Liquidity (share)	1.50	Pension liabilities	0						
Market return	7.00 %	Cyclicality	1.00	Hybrid capital	0						
Risk free rate	1.50 %	Transparency	1.35	Minority interest	0						
		Others	1.30	Market val. of investments	2						
				Liquidity	12	No. of shares (m)	7.3				
WACC	7.98 %	Beta	1.25	Equity Value	181	Value per share (EUR)	24.98				

Sens	itivity Va	lue per Sh	are (EUR	)													
		Terminal (	Growth								Delta EBI	ī-margin					
Beta	WACC	1.00 %	1.25 %	1.50 %	1.75 %	2.00 %	2.25 %	2.50 %	Beta	WACC	-1.5 pp	-1.0 pp	-0.5 pp	+0.0 pp	+0.5 pp	+1.0 pp	+1.5 pp
1.45	9.0 %	20.03	20.36	20.71	21.09	21.49	21.92	22.38	1.45	9.0 %	19.45	20.00	20.54	21.09	21.63	22.17	22.72
1.35	8.5 %	21.61	22.01	22.43	22.88	23.37	23.90	24.47	1.35	8.5 %	21.13	21.71	22.30	22.88	23.47	24.05	24.64
1.30	8.2 %	22.48	22.92	23.39	23.89	24.43	25.02	25.66	1.30	8.2 %	22.06	22.67	23.28	23.89	24.50	25.11	25.72
1.25	8.0 %	23.42	23.90	24.42	24.98	25.58	26.24	26.95	1.25	8.0 %	23.07	23.71	24.34	24.98	25.61	26.24	26.88
1.20	7.7 %	24.43	24.96	25.53	26.16	26.83	27.57	28.37	1.20	7.7 %	24.17	24.83	25.49	26.16	26.82	27.48	28.14
1.15	7.5 %	25.52	26.11	26.75	27.44	28.20	29.03	29.94	1.15	7.5 %	25.37	26.06	26.75	27.44	28.13	28.82	29.51
1.05	7.0 %	27.98	28.71	29.51	30.38	31.35	32.41	33.59	1.05	7.0 %	28.10	28.86	29.62	30.38	31.14	31.90	32.66

- Model reflects fiscal regulation
- Increasing digitalization drives mid term sales and profitability increase
- Model is not yet reflecting the company target of > EUR 100m in sales by 2022



#### **Free Cash Flow Value Potential**

Warburg Research's valuation tool "FCF Value Potential" reflects the ability of the company to generate sustainable free cash flows. It is based on the "FCF potential" - a FCF "ex growth" figure - which assumes unchanged working capital and pure maintenance capex. A value indication is derived via the perpetuity of a given year's "FCF potential" with consideration of the weighted costs of capital. The fluctuating value indications over time add a timing element to the DCF model (our preferred valuation tool).

in EUR m	2015	2016	2017	2018	2019e	2020e	2021e
Net Income before minorities	n.a.	2.0	1.1	-3.9	-3.1	4.0	6.7
+ Depreciation + Amortisation	n.a.	0.5	0.5	1.7	0.6	0.6	0.6
- Net Interest Income	n.a.	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2
- Maintenance Capex	n.a.	0.3	0.3	0.3	0.3	0.3	0.3
+ Other	n.a.	0.0	0.0	0.0	0.0	0.0	0.0
= Free Cash Flow Potential	n.a.	2.3	1.4	-2.3	-2.6	4.5	7.2
FCF Potential Yield (on market EV)	n/a	21.8 %	0.9 %	-1.8 %	-2.0 %	3.5 %	5.9 %
WACC	7.98 %	7.98 %	7.98 %	7.98 %	7.98 %	7.98 %	7.98 %
= Enterprise Value (EV)	n.a.	10.6	161.4	128.5	129.8	129.2	123.2
= Fair Enterprise Value	n.a.	29.0	17.2	n.a.	n.a.	56.7	90.5
- Net Debt (Cash)	n.a.	0.5	0.5	0.5	0.5	-0.1	-6.1
- Pension Liabilities	n.a.	0.0	0.0	0.0	0.0	0.0	0.0
- Other	n.a.	0.0	0.0	0.0	0.0	0.0	0.0
<ul> <li>Market value of minorities</li> </ul>	n.a.	0.0	0.0	0.0	0.0	0.0	0.0
+ Market value of investments	n.a.	0.0	0.0	0.0	0.0	0.0	0.0
= Fair Market Capitalisation	n.a.	28.4	16.7	n.a.	n.a.	56.8	96.6
Number of shares, average	1.5	1.6	6.6	6.6	7.2	7.3	7.3
= Fair value per share (EUR)	n.a.	17.77	2.53	n.a.	n.a.	7.82	13.30
premium (-) / discount (+) in %						-56.0 %	-25.3 %
Sensitivity Fair value per Share (EUR	)						
10.98	3 % n.a.	2.83	1.65	n.a.	n.a.	5.69	9.90
9.98	3 % n.a.	3.12	1.82	n.a.	n.a.	6.26	10.80
8.98		3.47	2.03	n.a.	n.a.	6.95	11.91
WACC 7.98		3.92	2.30	n.a.	n.a.	7.82	13.30
6.98		4.49	2.64	n.a.	n.a.	8.94	15.09
5.98		5.25	3.09	n.a.	n.a.	10.44	17.47
4.98	3 % n.a.	6.32	3.72	n.a.	n.a.	12.53	20.80

<sup>•</sup> Rising value indication with higher business volume...

<sup>...</sup>this is due to a high operating leverage given gross margins of >50%



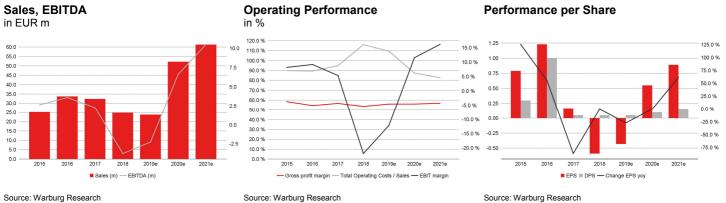
Valuation							
	2015	2016	2017	2018	2019e	2020e	2021e
Price / Book	0.9 x	1.2 x	11.4 x	12.6 x	11.1 x	8.7 x	6.2 x
Book value per share ex intangibles	4.84	8.75	1.94	1.51	1.57	2.02	2.82
EV / Sales	n.a.	0.3 x	5.0 x	5.2 x	5.5 x	2.5 x	2.0 x
EV / EBITDA	n.a.	2.9 x	71.4 x	n.a.	n.a.	19.5 x	11.7 x
EV / EBIT	n.a.	3.4 x	92.2 x	n.a.	n.a.	21.5 x	12.4 x
EV / EBIT adj.*	n.a.	3.4 x	92.2 x	n.a.	n.a.	21.5 x	12.4 x
P / FCF	6.3 x	48.7 x	n.a.	n.a.	n.a.	135.3 x	19.2 x
P/E	5.7 x	9.1 x	154.5 x	n.a.	n.a.	32.4 x	20.0 x
P / E adj.*	5.7 x	9.1 x	154.5 x	n.a.	n.a.	32.4 x	20.0 x
Dividend Yield	6.6 %	9.0 %	0.2 %	0.3 %	0.3 %	0.6 %	0.8 %
FCF Potential Yield (on market EV)	n.a.	21.8 %	0.9 %	-1.8 %	-2.0 %	3.5 %	5.9 %
*Adjustments made for: -							



Change Sales yoy	In EUR m	2015	2016	2017	2018	2019e	2020e	2021e
Increase / decrease in inventory	Sales	25.2	33.7	32.4	24.8	23.8	52.2	61.3
Own work capitalised         0.0	Change Sales yoy	12.5 %	33.7 %	-4.0 %	-23.3 %	-4.1 %	119.2 %	17.4 %
Total Sales         25.3         33.7         33.0         25.0         23.8         52.2         61.5           Material expenses         10.5         15.4         14.6         11.7         10.5         20.0         26.4           Gross profit         14.7         18.4         18.4         13.3         13.3         29.2         34.8           Gross profit margin         58.5         54.4         56.7         53.7         56.0         56.0         57.0         34.8           Personnel expenses         7.0         8.6         9.7         10.2         9.2         10.9         11.6         0.0 </td <td>Increase / decrease in inventory</td> <td>0.1</td> <td>0.0</td> <td>0.6</td> <td>0.2</td> <td>0.0</td> <td>0.0</td> <td>0.0</td>	Increase / decrease in inventory	0.1	0.0	0.6	0.2	0.0	0.0	0.0
Material expenses   10.5   15.4   14.6   11.7   10.5   23.0   26.4     Gross profit   14.7   18.4   18.4   13.3   13.3   29.2   34.5     Gross profit margin   58.5 %   54.4 %   56.7 %   53.7 %   56.0 %   56.0 %   57.0 %     Personnel expenses   7.0   8.6   9.7   10.2   9.2   10.9   11.6     Other operating expenses   6.8   6.6   7.0   7.4   6.9   12.3   13.5     Unfrequent items   0.0   0.0   0.0   0.0   0.0   0.0   0.0     Unfrequent items   0.0   0.0   0.0   0.0   0.0   0.0   0.0     Margin   10.5 %   10.7 %   7.0 %   -15.2 %   -9.5 %   12.7 %   17.2 %     Depreciation of fixed assets   0.3   0.3   0.3   0.4   0.4   0.4   0.4     EBITA   2.3   3.3   1.9   4.2   -2.7   6.2   10.1     Amortisation of intangible assets   0.2   0.2   0.2   1.3   0.2   0.2   0.2     Goodwill amortisation   0.0   0.0   0.0   0.0   0.0   0.0   0.0     EBIT   2.1   3.1   1.8   5.4   -2.9   6.0   9.5     Margin   8.2 %   9.1 %   5.4   -2.0 %   -12.1 %   11.5 %   16.2 %     EBIT adj.   2.1   3.1   1.8   5.4   -2.9   6.0   9.5    Interest income   0.1   0.1   0.1   0.0   0.0   0.0   0.0    Interest expenses   0.0   0.1   0.2   0.2   0.2   0.2   0.2    Other financial income (loss)   0.0   -0.1   0.0   0.0   0.0   0.0   0.0    Total taxes   0.7   1.0   0.6   -1.7   0.0   1.8   3.0    Net income from continuing operations   1.4   2.0   1.1   3.9   -3.1   4.0   6.7    Not income before minorities   1.4   2.0   1.1   3.9   -3.1   4.0   6.7    Not income before minorities   1.4   2.0   1.1   3.9   -3.1   4.0   6.5    Margin   4.7 %   5.8 %   3.3 %   -15.6 %   -13.0 %   7.7 %   10.6 %    Number of shares, average   1.5   1.6   6.6   6.6   6.7   7.3   7.3    EBSS   0.79   1.23   0.16   0.96   0.43   0.55   0.88    EBSS   0.79   0.79   1.23   0.16   0.96   0.43   0.55   0.88    Data taxes   0.79   0.79   0.70   0.70   0.70   0.70   0.70    Deptication of taxes   0.7   0.7   0.7   0.7   0.7   0.7   0.7    Total taxes   0.7   0.7   0.7   0.7   0.7   0.7   0.7    Total taxes   0.7   0.7   0.7   0.7   0.7   0.7   0.7    Total taxes   0.7   0.7	Own work capitalised	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gross profit         14,7         18,4         18,4         13,3         13,3         29,2         34,5           Gross profit margin         58,5%         54,4%         56,7%         53,7%         56,0%         56,0%         57,0%           Personnel expenses         7,0         8,6         9,7         10,2         9,2         10,9         11,6           Other operating income         1,7         0,4         0,6         7,5         0,5         0,6         0,7           Other operating expenses         6,8         6,6         7,0         7,4         6,9         12,3         13,3           Unfrequent items         0,0	Total Sales	25.3	33.7	33.0	25.0	23.8	52.2	61.3
Gross profit margin         58.5 %         54.4 %         56.7 %         53.7 %         56.0 %         56.0 %         57.0 %           Personnel expenses         7.0         8.6         9.7         10.2         9.2         10.9         11.8           Other operating income         1.7         0.4         0.6         0.5         0.5         0.6         0.7           Unfrequent items         0.0	Material expenses	10.5	15.4	14.6	11.7	10.5	23.0	26.4
Personnel expenses   7.0   8.6   9.7   10.2   9.2   10.9   11.6	Gross profit	14.7	18.4	18.4	13.3	13.3	29.2	34.9
Other operating income         1.7         0.4         0.6         0.5         0.5         0.6         0.7           Other operating expenses         6.8         6.6         7.0         7.4         6.9         12.3         13.5           Unfrequent items         0.0 <t< td=""><td>Gross profit margin</td><td>58.5 %</td><td>54.4 %</td><td>56.7 %</td><td>53.7 %</td><td>56.0 %</td><td>56.0 %</td><td>57.0 %</td></t<>	Gross profit margin	58.5 %	54.4 %	56.7 %	53.7 %	56.0 %	56.0 %	57.0 %
Other operating expenses         6.8         6.6         7.0         7.4         6.9         12.3         13.5           Unfrequent items         0.0	Personnel expenses		8.6	9.7		9.2	10.9	11.6
Unfrequent items         0.0	Other operating income	1.7	0.4	0.6	0.5	0.5	0.6	0.7
EBITDA         2.6         3.6         2.3         -3.8         -2.3         6.6         10.5           Margin         10.5%         10.7%         7.0%         -15.2%         -9.5%         12.7%         17.2%           Depreciation of fixed assets         0.3         0.3         0.3         0.3         0.4         0.4         0.4         0.4           EBITA         2.3         3.3         1.9         4.2         2.7         6.2         10.2           Goodwill amortisation of intangible assets         0.2         0.2         0.2         1.3         0.2         0.2         0.2           Goodwill amortisation         0.0	Other operating expenses							13.5
Margin         10.5 %         10.7 %         7.0 %         -15.2 %         -9.5 %         12.7 %         17.2 %           Depreciation of fixed assets         0.3         0.3         0.3         0.4         0.4         0.4         0.4           EBITA         2.3         3.3         1.9         -4.2         -2.7         6.2         10.1           Amortisation of intangible assets         0.2         0.2         0.2         0.2         1.3         0.2         0.2         0.2           Goodwill amortisation         0.0         9.5         6.0         9.5         6.0         9.5         6.0         9.5         6.0         9.5         6.0         9.5         6.0         9.5         6.0         9.5         <	Unfrequent items		0.0		0.0	0.0	0.0	0.0
Depreciation of fixed assets   0.3   0.3   0.3   0.4   0.4   0.4   0.4   0.4   EBITA   2.3   3.3   1.9   -4.2   -2.7   6.2   10.1   Amortisation of intangible assets   0.2   0.2   0.2   0.2   1.3   0.2	EBITDA	2.6				-2.3	6.6	10.5
EBITA         2.3         3.3         1.9         4.2         2.7         6.2         10.1           Amortisation of intangible assets         0.2         0.2         0.2         1.3         0.2         0.2         0.2           Goodwill amortisation         0.0         0.	Margin	10.5 %	10.7 %	7.0 %	-15.2 %	-9.5 %	12.7 %	17.2 %
Amortisation of intangible assets         0.2         0.2         0.2         1.3         0.2         0.2         0.2           Goodwill amortisation         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0           EBIT         2.1         3.1         1.8         -5.4         -2.9         6.0         9.5           EBIT adj.         2.1         3.1         1.8         -5.4         -2.9         6.0         9.5           Interest income         0.1         0.1         0.1         0.0         0.0         0.0         0.0           Interest income         0.1         0.1         0.1         0.0         0.0         0.0         0.0           Interest expenses         0.0         0.1         0.1         0.0         0.0         0.0         0.0           Other financial income (loss)         0.0         0.1         0.2	Depreciation of fixed assets	0.3	0.3	0.3	0.4	0.4	0.4	0.4
Goodwill amortisation         0.0         9.5         EBIT adj.         2.1         3.1         1.8         -5.4         -2.9         6.0         9.5         9.5         EBIT adj.         2.1         3.1         1.8         -5.4         -2.9         6.0         9.5         9.5         9.5         4.8         -2.2.0         -12.1%         11.5 %         16.2 %         EBIT adj.         2.1         3.1         1.8         -5.4         -2.9         6.0         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.7         9.2	EBITA			1.9			6.2	10.1
EBIT         2.1         3.1         1.8         -5.4         -2.9         6.0         9.5           Margin         8.2 %         9.1 %         5.4 %         -22.0 %         -12.1 %         11.5 %         16.2 %           EBIT adj.         2.1         3.1         1.8         -5.4         -2.9         6.0         9.5           Interest income         0.1         0.1         0.1         0.0         0.0         0.0         0.0           Interest expenses         0.0         0.1         0.2         0.3         1.1         0.1         0.1         0.2         0.2         0.2         0.2         0.2         0.1         0.2         <	Amortisation of intangible assets	0.2				0.2	0.2	0.2
Margin         8.2 %         9.1 %         5.4 %         -22.0 %         -12.1 %         11.5 %         16.2 %           EBIT adj.         2.1         3.1         1.8         -5.4         -2.9         6.0         9.5           Interest income         0.1         0.1         0.1         0.0         0.0         0.0         0.0           Interest expenses         0.0         0.1         0.2         0.2         0.2         0.2         0.2           Other financial income (loss)         0.0         0.1         0.0         0.0         0.0         0.0           EBT         2.1         3.0         1.7         -5.6         -3.1         5.8         9.7           Margin         8.2 %         8.8 %         5.1 %         -22.6 %         -13.0 %         11.1 %         15.9 %           Total taxes         0.7         1.0         0.6         -1.7         0.0         1.8         3.0           Net income from continuing operations         1.4         2.0         1.1         -3.9         -3.1         4.0         6.7           Income from discontinued operations (net of tax)         0.0         0.0         0.0         0.0         0.0         0.0         0.0								0.0
EBIT adj.         2.1         3.1         1.8         -5.4         -2.9         6.0         9.5           Interest income         0.1         0.1         0.1         0.1         0.0         0.0         0.0         0.0           Interest expenses         0.0         0.1         0.2         0.2         0.2         0.2         0.2           Other financial income (loss)         0.0         -0.1         0.0         0.0         0.0         0.0         0.0           EBT         2.1         3.0         1.7         -5.6         -3.1         5.8         9.7           Margin         8.2 %         8.8 %         5.1 %         -22.6 %         -13.0 %         11.1 %         15.9 %           Total taxes         0.7         1.0         0.6         -1.7         0.0         1.8         3.0           Net income from continuing operations         1.4         2.0         1.1         -3.9         -3.1         4.0         6.7           Income from discontinued operations (net of tax)         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0           Net income before minorities         1.4         2.0         1.1         -3.9	EBIT							9.9
Interest income   0.1   0.1   0.1   0.0   0.0   0.0   0.0   Interest expenses   0.0   0.1   0.2   0.2   0.2   0.2   0.2   Other financial income (loss)   0.0   -0.1   0.0   0.0   0.0   0.0   0.0   EBT   2.1   3.0   1.7   -5.6   -3.1   5.8   9.7   Margin   8.2 %   8.8 %   5.1 %   -22.6 %   -13.0 %   11.1 %   15.9 %  Total taxes   0.7   1.0   0.6   -1.7   0.0   1.8   3.0   Net income from continuing operations   1.4   2.0   1.1   -3.9   -3.1   4.0   6.7   Net income before minorities   1.4   2.0   1.1   -3.9   -3.1   4.0   6.7   Minority interest   0.2   0.0   0.0   0.0   0.0   0.0   0.0   Net income   1.2   2.0   1.1   -3.9   -3.1   4.0   6.5   Margin   4.7 %   5.8 %   3.3 %   -15.6 %   -13.0 %   7.7 %   10.6 %   Number of shares, average   1.5   1.6   6.6   6.6   6.6   7.2   7.3   7.3   EPS   0.79   1.23   0.16   -0.59   -0.43   0.55   0.88				5.4 %	-22.0 %			16.2 %
Interest expenses       0.0       0.1       0.2       0.2       0.2       0.2       0.2       0.2         Other financial income (loss)       0.0       -0.1       0.0       0.0       0.0       0.0       0.0         EBT       2.1       3.0       1.7       -5.6       -3.1       5.8       9.7         Margin       8.2 %       8.8 %       5.1 %       -22.6 %       -13.0 %       11.1 %       15.9 %         Total taxes       0.7       1.0       0.6       -1.7       0.0       1.8       3.0         Net income from continuing operations       1.4       2.0       1.1       -3.9       -3.1       4.0       6.7         Income from discontinued operations (net of tax)       0.0       <	EBIT adj.	2.1	3.1	1.8	-5.4	-2.9	6.0	9.9
Other financial income (loss)         0.0         -0.1         0.0         0.0         0.0         0.0         0.0           EBT         2.1         3.0         1.7         -5.6         -3.1         5.8         9.7           Margin         8.2 %         8.8 %         5.1 %         -22.6 %         -13.0 %         11.1 %         15.9 %           Total taxes         0.7         1.0         0.6         -1.7         0.0         1.8         3.0           Net income from continuing operations         1.4         2.0         1.1         -3.9         -3.1         4.0         6.7           Income from discontinued operations (net of tax)         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0           Net income before minorities         1.4         2.0         1.1         -3.9         -3.1         4.0         6.7           Minority interest         0.2         0.0         0.0         0.0         0.0         0.0         0.0           Net income         1.2         2.0         1.1         -3.9         -3.1         4.0         6.5           Margin         4.7 %         5.8 %         3.3 %         -15.6 %	Interest income						0.0	0.0
EBT         2.1         3.0         1.7         -5.6         -3.1         5.8         9.7           Margin         8.2 %         8.8 %         5.1 %         -22.6 %         -13.0 %         11.1 %         15.9 %           Total taxes         0.7         1.0         0.6         -1.7         0.0         1.8         3.0           Net income from continuing operations         1.4         2.0         1.1         -3.9         -3.1         4.0         6.7           Income from discontinued operations (net of tax)         0.0 </td <td>Interest expenses</td> <td>0.0</td> <td>0.1</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td>	Interest expenses	0.0	0.1	0.2	0.2	0.2	0.2	0.2
Margin         8.2 %         8.8 %         5.1 %         -22.6 %         -13.0 %         11.1 %         15.9 %           Total taxes         0.7         1.0         0.6         -1.7         0.0         1.8         3.0           Net income from continuing operations         1.4         2.0         1.1         -3.9         -3.1         4.0         6.7           Income from discontinued operations (net of tax)         0.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td>								0.0
Total taxes 0.7 1.0 0.6 -1.7 0.0 1.8 3.0 Net income from continuing operations 1.4 2.0 1.1 -3.9 -3.1 4.0 6.7 Income from discontinued operations (net of tax) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Net income before minorities 1.4 2.0 1.1 -3.9 -3.1 4.0 6.7 Minority interest 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Net income 1.2 2.0 1.1 -3.9 -3.1 4.0 6.5 Net income 1.2 2.0 1.1 -3.9 3.1 4.0 6.5 Net income 1.2 2.0 1.1 -3.9 3.1 4.0 6.5 Net income 1.2 2.0 1.1 -3.9 3.1 4.0 6.5 Net income 1.2 2.0 1.1 -3.9 3.1 4.0 6.5 Net income 1.2 2.0 1.1 -3.9 3.1 4.0 6.5 Net income 1.2 2.0 1.1 -3.9 3.1 4.0 6.5 Net income 1.2 2.0 1.1 -3.9 3.1 4.0 6.5 Net income 1.2 2.0 1.1 -3.0 Net income 1.2 2.0 Net income	EBT							9.7
Net income from continuing operations         1.4         2.0         1.1         -3.9         -3.1         4.0         6.7           Income from discontinued operations (net of tax)         0.0	Margin	8.2 %	8.8 %	5.1 %	-22.6 %	-13.0 %	11.1 %	15.9 %
Income from discontinued operations (net of tax)         0.0         0.0         0.0         0.0         0.0         0.0         0.0           Net income before minorities         1.4         2.0         1.1         -3.9         -3.1         4.0         6.7           Minority interest         0.2         0.0	Total taxes							3.0
Net income before minorities         1.4         2.0         1.1         -3.9         -3.1         4.0         6.7           Minority interest         0.2         0.0         0.0         0.0         0.0         0.0         0.0         0.2         0.0	Net income from continuing operations	1.4	2.0	1.1	-3.9	-3.1	4.0	6.7
Minority interest         0.2         0.0         0.0         0.0         0.0         0.0         0.0         0.2           Net income         1.2         2.0         1.1         -3.9         -3.1         4.0         6.5           Margin         4.7 %         5.8 %         3.3 %         -15.6 %         -13.0 %         7.7 %         10.6 %           Number of shares, average         1.5         1.6         6.6         6.6         7.2         7.3         7.3           EPS         0.79         1.23         0.16         -0.59         -0.43         0.55         0.89	Income from discontinued operations (net of tax)						0.0	0.0
Net income         1.2         2.0         1.1         -3.9         -3.1         4.0         6.8           Margin         4.7%         5.8%         3.3%         -15.6%         -13.0%         7.7%         10.6%           Number of shares, average         1.5         1.6         6.6         6.6         7.2         7.3         7.3           EPS         0.79         1.23         0.16         -0.59         -0.43         0.55         0.89	Net income before minorities							6.7
Margin         4.7 %         5.8 %         3.3 %         -15.6 %         -13.0 %         7.7 %         10.6 %           Number of shares, average         1.5         1.6         6.6         6.6         7.2         7.3         7.3           EPS         0.79         1.23         0.16         -0.59         -0.43         0.55         0.89	•							0.2
Number of shares, average 1.5 1.6 6.6 6.6 7.2 7.3 7.3 EPS 0.79 1.23 0.16 -0.59 -0.43 0.55 0.89	Net income							6.5
EPS 0.79 1.23 0.16 -0.59 -0.43 0.55 0.89	Margin	4.7 %	5.8 %	3.3 %	-15.6 %	-13.0 %	7.7 %	10.6 %
								7.3
EPS adj. 0.79 1.23 0.16 -0.59 -0.43 0.55 0.89	<del></del>			0.16				0.89
	EPS adj.	0.79	1.23	0.16	-0.59	-0.43	0.55	0.89

Guidance: 2020: Sales > EUR 50m; EBIT margin low double digit

Financial Ratios							
	2015	2016	2017	2018	2019e	2020e	2021e
Total Operating Costs / Sales	89.8 %	89.4 %	95.0 %	116.1 %	109.5 %	87.3 %	82.8 %
Operating Leverage	8.2 x	1.5 x	10.9 x	n.a.	11.5 x	n.a.	3.7 x
EBITDA / Interest expenses	62.9 x	37.2 x	14.9 x	n.m.	n.m.	33.2 x	52.7 x
Tax rate (EBT)	31.5 %	33.8 %	35.3 %	31.0 %	0.0 %	31.0 %	31.0 %
Dividend Payout Ratio	31.6 %	81.5 %	30.7 %	n.m.	n.m.	18.1 %	16.2 %
Sales per Employee	201,688	235,783	203,667	190,962	183,146	401,538	471,538

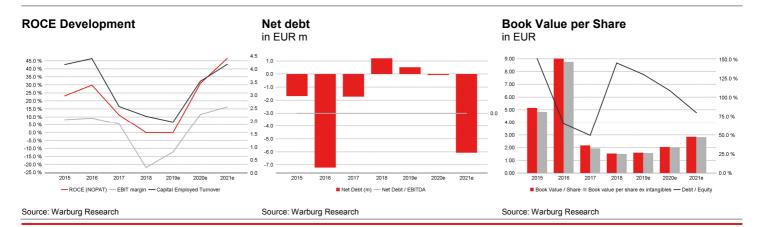


Source: Warburg Nesearch Source: Warburg Nesear



Consolidated balance sheet							
In EUR m	2015	2016	2017	2018	2019e	2020e	20216
Assets							
Goodwill and other intangible assets	0.5	0.4	1.5	0.2	0.2	0.2	0.2
thereof other intangible assets	0.5	0.4	1.5	0.2	0.2	0.2	0.2
thereof Goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Property, plant and equipment	0.8	0.7	0.6	0.6	0.5	0.5	0.4
Financial assets	0.9	0.9	1.8	1.8	1.8	1.8	1.8
Other long-term assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fixed assets	2.2	2.1	4.0	2.6	2.5	2.5	2.4
Inventories	3.8	4.8	7.6	5.8	6.0	7.5	6.5
Accounts receivable	3.4	4.9	3.3	2.3	3.3	7.2	8.4
Liquid assets	9.5	11.7	5.5	11.6	12.2	12.8	18.8
Other short-term assets	0.6	1.2	1.1	2.7	2.7	1.1	1.1
Current assets	17.2	22.5	17.5	22.3	24.2	28.6	34.8
Total Assets	19.4	24.6	21.5	24.9	26.7	31.1	37.3
Liabilities and shareholders' equity							
Subscribed capital	1.5	1.6	6.6	6.6	7.3	7.3	7.3
Capital reserve	4.5	10.3	5.4	5.4	9.7	9.7	9.7
Retained earnings	0.0	0.0	0.0	0.0	-3.4	0.2	6.0
Other equity components	1.7	2.9	2.3	-1.9	-2.0	-2.4	-2.3
Shareholders' equity	7.7	14.9	14.3	10.1	11.6	14.9	20.7
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total equity	7.7	14.9	14.3	10.1	11.6	14.9	20.7
Provisions	2.0	3.2	1.7	1.0	1.0	1.0	1.0
thereof provisions for pensions and similar obligations	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Financial liabilities (total)	7.8	4.4	3.8	12.8	12.8	12.8	12.8
thereof short-term financial liabilities	0.0	0.8	1.1	8.0	0.8	0.8	3.0
Accounts payable	1.5	1.5	1.4	0.6	1.0	2.1	2.5
Other liabilities	0.5	0.6	0.2	0.4	0.4	0.4	0.4
Liabilities	11.7	9.7	7.2	14.7	15.1	16.2	16.6
Total liabilities and shareholders' equity	19.4	24.6	21.5	24.9	26.7	31.1	37.3

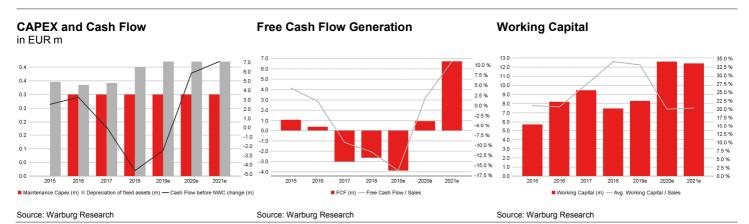
Financial Ratios							
	2015	2016	2017	2018	2019e	2020e	2021e
Efficiency of Capital Employment							
Operating Assets Turnover	3.9 x	3.8 x	3.2 x	3.1 x	2.7 x	4.0 x	4.8 x
Capital Employed Turnover	4.2 x	4.4 x	2.6 x	2.2 x	2.0 x	3.5 x	4.2 x
ROA	55.0 %	95.4 %	27.2 %	-151.1 %	-122.3 %	161.4 %	265.1 %
Return on Capital							
ROCE (NOPAT)	23.2 %	29.8 %	11.2 %	n.a.	n.a.	30.8 %	46.5 %
ROE	16.1 %	17.4 %	7.4 %	-31.7 %	-28.4 %	30.3 %	36.4 %
Adj. ROE	16.1 %	17.4 %	7.4 %	-31.7 %	-28.4 %	30.3 %	36.4 %
Balance sheet quality							
Net Debt	-1.7	-7.2	-1.7	1.2	0.5	-0.1	-6.1
Net Financial Debt	-1.7	-7.2	-1.7	1.2	0.5	-0.1	-6.1
Net Gearing	-21.9 %	-48.5 %	-12.1 %	11.9 %	4.4 %	-0.5 %	-29.3 %
Net Fin. Debt / EBITDA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Book Value / Share	5.2	9.0	2.2	1.5	1.6	2.0	2.9
Book value per share ex intangibles	4.8	8.8	1.9	1.5	1.6	2.0	2.8





Consolidated cash flow statement							
In EUR m	2015	2016	2017	2018	2019e	2020e	2021e
Net income	1.2	2.0	1.1	-3.9	-3.1	4.0	6.5
Depreciation of fixed assets	0.3	0.3	0.3	0.4	0.4	0.4	0.4
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	0.2	0.2	0.2	1.3	0.2	0.2	0.2
Increase/decrease in long-term provisions	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other non-cash income and expenses	0.8	0.8	-1.6	-2.4	0.0	1.2	0.0
Cash Flow before NWC change	2.5	3.3	0.0	-4.6	-2.5	5.8	7.1
Increase / decrease in inventory	-0.9	-1.0	-2.9	1.8	-0.2	-1.5	1.0
Increase / decrease in accounts receivable	-0.5	-1.5	1.6	1.0	-1.0	-3.9	-1.2
Increase / decrease in accounts payable	0.6	0.0	0.0	-0.8	0.4	1.1	0.4
Increase / decrease in other working capital positions	-0.2	0.0	-0.3	0.3	0.0	0.0	0.0
Increase / decrease in working capital (total)	-1.0	-2.5	-1.5	2.3	-0.8	-4.3	0.2
Net cash provided by operating activities [1]	1.5	0.8	-1.5	-2.3	-3.3	1.5	7.3
Investments in intangible assets	-0.1	-0.2	-1.3	-0.2	-0.2	-0.2	-0.2
Investments in property, plant and equipment	-0.4	-0.3	-0.2	-0.4	-0.4	-0.4	-0.4
Payments for acquisitions	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Financial investments	0.0	0.0	-0.9	0.0	0.0	0.0	0.0
Income from asset disposals	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net cash provided by investing activities [2]	-0.4	-0.4	-2.4	-0.3	-0.6	-0.6	-0.6
Change in financial liabilities	3.7	-3.3	-0.6	8.9	0.0	0.0	0.0
Dividends paid	-0.5	-0.7	-1.6	-0.3	-0.4	-0.4	-0.7
Purchase of own shares	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capital measures	0.0	5.9	0.0	0.0	4.9	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net cash provided by financing activities [3]	3.2	1.9	-2.2	8.6	4.6	-0.4	-0.7
Change in liquid funds [1]+[2]+[3]	4.3	2.2	-6.1	6.0	0.7	0.6	6.0
Effects of exchange-rate changes on cash	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cash and cash equivalent at end of period	9.5	11.7	5.5	11.6	12.2	12.8	18.8

Financial Ratios							
	2015	2016	2017	2018	2019e	2020e	2021e
Cash Flow							
FCF	1.1	0.4	-3.0	-2.6	-3.9	1.0	6.7
Free Cash Flow / Sales	4.3 %	1.1 %	-9.3 %	-11.6 %	-16.3 %	1.8 %	11.0 %
Free Cash Flow Potential	n.a.	2.3	1.4	-2.3	-2.6	4.5	7.2
Free Cash Flow / Net Profit	91.7 %	18.6 %	-279.6 %	74.4 %	125.6 %	23.8 %	103.7 %
Interest Received / Avg. Cash	0.7 %	0.7 %	0.7 %	0.5 %	0.0 %	0.0 %	0.0 %
Interest Paid / Avg. Debt	0.7 %	1.6 %	3.7 %	2.5 %	1.6 %	1.6 %	1.6 %
Management of Funds							
Investment ratio	1.7 %	1.2 %	4.7 %	2.3 %	2.4 %	1.1 %	0.9 %
Maint. Capex / Sales	n.a.	0.9 %	0.9 %	1.2 %	1.3 %	0.6 %	0.5 %
Capex / Dep	72.8 %	78.6 %	300.2 %	34.5 %	93.5 %	93.5 %	93.5 %
Avg. Working Capital / Sales	21.1 %	20.7 %	27.3 %	34.1 %	33.1 %	20.0 %	20.4 %
Trade Debtors / Trade Creditors	228.4 %	336.9 %	228.8 %	375.5 %	330.0 %	342.9 %	336.0 %
Inventory Turnover	2.8 x	3.2 x	1.9 x	2.0 x	1.7 x	3.1 x	4.1 x
Receivables collection period (days)	49	53	37	33	51	50	50
Payables payment period (days)	52	34	36	19	35	33	35
Cash conversion cycle (Days)	130	131	191	196	225	136	105





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Company	Disclosure	Link to the historical price targets and rating changes (last 12 months)
Vectron Systems AG	3, 4, 5	http://www.mmwarburg.com/disclaimer/disclaimer_en/DE000A0KEXC7.htm



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-H-	Hold:	The price of the analysed financial instrument is expected to remain mostly flat over the next 12 months.
-S-	Sell:	The price of the analysed financial instrument is expected to fall over the next 12 months.
<u>"_"</u>	Rating suspended:	The available information currently does not permit an evaluation of the company.

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Rating	Number of stocks	% of Universe
Buy	115	57
Hold	75	37
Sell	6	3
Rating suspended	5	2
Total	201	100

#### WARBURG RESEARCH GMBH - ANALYSED RESEARCH UNIVERSE BY RATING ...

... taking into account only those companies which were provided with major investment services in the last twelve months.

Rating	Number of stocks	% of Universe
Buy	32	80
Hold	6	15
Sell	0	0
Rating suspended	2	5
Total	40	100

#### PRICE AND RATING HISTORY VECTRON SYSTEMS AG AS OF 13.01.2020



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