Quantitative Value Investing in Europe: What works for achieving alpha

By Phillip Vanstraceele & Tim du Toit - Kindle edition 2014

APPENDIX

APPENDIX 1: PIOTROSKI F-SCORE CALCULATION

Profitability:

ROA	Positive return on assets (ROA) in the current year (1 point)
CFO	Positive operating cash flow in the current year (1 point)
ΔROA	Higher ROA in the current period compared to the ROA in the previous year (1 point)
CFO>ROA	Cash flow from operations are greater than ROA (1 point)

Leverage, Liquidity and Source of funds:

- ΔLeverage Lower ratio of long term debt to in the current period compared value in the previous year (1 point)
- ΔLiquidity Higher current ratio (current assets / current liabilities) this year compared to the previous year (1 point)
- ΔEQ Offer If no new shares were issued in the last year (1 point)

Operating Efficiency:

- ΔMargin A higher gross margin compared to the previous year (1 point)
- ΔTurn A higher asset turnover ratio (sales/assets) compared to the previous year (1 point)

APPENDIX 2: SINGLE FACTOR TEST RESULTS

Earnings Yield 12 months

		Total Retu	rn 13/06/199	9-13/06/201	1	Average % of yearly losers in the portfolio					Average Portfolio size				
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP(> 15 m and < 100m)	122.2%	94.2%	-22.3%	-26.8%	-42.3%	45.0%	50.4%	58.6%	59.7%	62.5%	99	98	98	98	98
MID CAP (> 100 m and < 1000 m)	235.7%	163.1%	72.3%	-33.4%	-38.9%	39.2%	42.2%	45.7%	52.0%	57.7%	132	131	130	131	131
LARGE CAP (> 1000 m)	236.3%	87.6%	82.5%	68.8%	-6.4%	36.9%	42.5%	40.6%	46.2%	49.4%	71	70	70	70	70

SMALL CAP	
CAGR Market	2.25%
CAGR Q1	6.88%
CAGR Q5	-4.48%
Years outperforming the market (%)	66.67%
Number of years with negative return Top Quintile	4
Outperformance of Top Quintile vs Bottom Quintile Total	164.46%
Outperformance of Top Quintile vs Bottom Quintile (pa)	11.36%
Number of years with negative return Bottom Quintile	6
Outperformance of Top Quintile Total vs Market	91.61%
Outperformance of Top Quintile vs Market (pa)	4.63%
Underperformance of Bottom Quintile Total vs Market	-72.85%
Underperformance of Bottom Quintile vs Market (pa)	-6.73%

MID CAP	
CAGR Market	2.25%
CAGR Q1	10.62%
CAGR Q5	-4.02%
Years outperforming the market (%)	75.00%
Number of years with negative return Top Quintile	4
Outperformance of Top Quintile vs Bottom Quintile Total	274.56%
Outperformance of Top Quintile vs Bottom Quintile (pa)	14.64%
Number of years with negative return Bottom Quintile	6
Outperformance of Top Quintile Total vs Market	205.11%
Outperformance of Top Quintile vs Market (pa)	8.37%
Underperformance of Bottom Quintile Total vs Market	-69.45%
Underperformance of Bottom Quintile vs Market (pa)	-6.27%

LARGE CAP	
CAGR Market	2.25%
CAGR Q1	10.64%
CAGR Q5	-0.55%
Years outperforming the market (%)	83.33%
Number of years with negative return Top Quintile	3
Outperformance of Top Quintile vs Bottom Quintile Total	242.66%
Outperformance of Top Quintile vs Bottom Quintile (pa)	11.18%
Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	205.75%
Outperformance of Top Quintile vs Market (pa)	8.39%
Underperformance of Bottom Quintile Total vs Market	-36.91%
Underperformance of Bottom Quintile vs Market (pa)	-2.79%

Earnings Yield 5 year average

		Total Retu	n 13/06/199	9-13/06/201	1	Average % of yearly losers in the portfolio					Average Portfolio size				
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (> 15 m and < 100m)	121.1%	42.7%	-26.8%	-41.4%	-30.4%	46.1%	52.8%	58.7%	60.7%	58.8%	118	116	116	117	117
MID CAP (> 100 m and < 1000 m)	291.1%	135.9%	-17.3%	-21.8%	-17.8%	37.7%	43.0%	50.6%	52.3%	52.4%	153	152	152	152	152
LARGE CAP (>1000 m)	186.2%	138.6%	98.0%	-0.2%	3.1%	39.5%	40.3%	43.5%	44.7%	47.8%	77	76	76	76	76

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	6.83%	CAGR Q1	12.04%	CAGR Q1	9.16%
CAGR Q5	-2.98%	CAGR Q5	-1.62%	CAGR Q5	0.26%
Years outperforming the market (%)	66.67%	Years outperforming the market (%)	75.00%	Years outperforming the market (%)	66.67%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	3	Number of years with negative return Top Quintile	3
Outperformance of Top Quintile vs Bottom Quintile Total	151.49%	Outperformance of Top Quintile vs Bottom Quintile Total	308.84%	Outperformance of Top Quintile vs Bottom Quintile Total	183.11%
Outperformance of Top Quintile vs Bottom Quintile (pa)	9.81%	Outperformance of Top Quintile vs Bottom Quintile (pa)	13.65%	Outperformance of Top Quintile vs Bottom Quintile (pa)	8.90%
Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	90.51%	Outperformance of Top Quintile Total vs Market	260.55%	Outperformance of Top Quintile Total vs Market	155.68%
Outperformance of Top Quintile vs Market (pa)	4.59%	Outperformance of Top Quintile vs Market (pa)	9.79%	Outperformance of Top Quintile vs Market (pa)	6.91%
Underperformance of Bottom Quintile Total vs Market	-60.98%	Underperformance of Bottom Quintile Total vs Market	-48.29%	Underperformance of Bottom Quintile Total vs Market	-27.43%
Underperformance of Bottom Quintile vs Market (pa)	-5.23%	Underperformance of Bottom Quintile vs Market (pa)	-3.86%	Underperformance of Bottom Quintile vs Market (pa)	-1.99%

Price-to-Book ratio

		Total Retur	n 13/06/199	9-13/06/201	1	Average % of yearly losers in the portfolio					Average Portfolio size				
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (>15 m and < 100m)	172.5%	75.4%	72.2%	-12.8%	-76.2%	47.8%	52.2%	53.1%	56.8%	64.2%	106	106	106	105	105
MID CAP (> 100 m and < 1000 m)	400.3%	134.4%	44.4%	-21.2%	-53.9%	37.2%	44.5%	46.4%	50.8%	54.6%	147	146	146	146	146
LARGE CAP (> 1000 m)	203.6%	149.5%	83.8%	8.2%	-0.5%	38.6%	39.7%	42.3%	46.2%	48.7%	76	75	74	75	75

SMALL CAP		MID CAP		LARGE CAP
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market 2.25%
CAGR Q1	8.71%	CAGR Q1	14.36%	CAGR Q1 9.70%
CAGR Q5	-11.27%	CAGR Q5	-6.25%	CAGR Q5 -0.04%
Years outperforming the market (%)	66.67%	Years outperforming the market (%)	75.00%	Years outperforming the market (%) 75.00%
Number of years with negative return Top Quintile	4	Number of years with negative return Top Quintile	3	Number of years with negative return Top Quintile 3
Outperformance of Top Quintile vs Bottom Quintile Total	248.65%	Outperformance of Top Quintile vs Bottom Quintile Total	454.17%	Outperformance of Top Quintile vs Bottom Quintile Total 204.03%
Outperformance of Top Quintile vs Bottom Quintile (pa)	19.98%	Outperformance of Top Quintile vs Bottom Quintile (pa)	20.61%	Outperformance of Top Quintile vs Bottom Quintile (pa) 9.73%
Number of years with negative return Bottom Quintile	6	Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile 5
Outperformance of Top Quintile Total vs Market	141.93%	Outperformance of Top Quintile Total vs Market	369.71%	Outperformance of Top Quintile Total vs Market 173.03%
Outperformance of Top Quintile vs Market (pa)	6.47%	Outperformance of Top Quintile vs Market (pa)	12.11%	Outperformance of Top Quintile vs Market (pa) 7.45%
Underperformance of Bottom Quintile Total vs Market	-106.72%	Underperformance of Bottom Quintile Total vs Market	-84.46%	Underperformance of Bottom Quintile Total vs Market -31.00%
Underperformance of Bottom Quintile vs Market (pa)	-13.51%	Underperformance of Bottom Quintile vs Market (pa)	-8.50%	Underperformance of Bottom Quintile vs Market (pa) -2.28%

Price-to-Sales ratio

		Total Retur	n 13/06/199	9-13/06/201	11	Average % of yearly losers in the portfolio					Average Portfolio size				
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (> 15 m and < 100m)	49.9%	16.5%	27.7%	-1.3%	-40.8%	52.6%	53.4%	53.5%	57.8%	58.7%	108	107	107	107	107
MID CAP (> 100 m and < 1000 m)	191.2%	152.9%	60.4%	2.7%	-54.0%	42.1%	43.7%	46.2%	49.2%	53.7%	147	146	146	146	146
LARGE CAP (> 1000 m)	165.0%	134.0%	81.9%	62.8%	-25.5%	41.6%	39.7%	43.0%	43.7%	47.6%	76	75	75	75	75

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	3.43%	CAGR Q1	9.32%	CAGR Q1	8.46%
CAGR Q5	-4.27%	CAGR Q5	-6.26%	CAGR Q5	-2.42%
Years outperforming the market (%)	58.33%	Years outperforming the market (%)	75.00%	Years outperforming the market (%)	66.67%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	4	Number of years with negative return Top Quintile	4
Outperformance of Top Quintile vs Bottom Quintile Total	90.68%	Outperformance of Top Quintile vs Bottom Quintile Total	245.19%	Outperformance of Top Quintile vs Bottom Quintile Total	190.43%
Outperformance of Top Quintile vs Bottom Quintile (pa)	7.70%	Outperformance of Top Quintile vs Bottom Quintile (pa)	15.58%	Outperformance of Top Quintile vs Bottom Quintile (pa)	10.88%
Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	19.39%	Outperformance of Top Quintile Total vs Market	160.68%	Outperformance of Top Quintile Total vs Market	134.42%
Outperformance of Top Quintile vs Market (pa)	1.19%	Outperformance of Top Quintile vs Market (pa)	7.07%	Outperformance of Top Quintile vs Market (pa)	6.21%
Underperformance of Bottom Quintile Total vs Market	-71.29%	Underperformance of Bottom Quintile Total vs Market	-84.51%	Underperformance of Bottom Quintile Total vs Market	-56.01%
Underperformance of Bottom Quintile vs Market (pa)	-6.51%	Underperformance of Bottom Quintile vs Market (pa)	-8.51%	Underperformance of Bottom Quintile vs Market (pa)	-4.67%

Free Cash Flow Yield 12 months

		Total Retu	n 13/06/199	9-13/06/201	1	Average % of yearly losers in the portfolio					Average Portfolio size				
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (> 15 m and < 100m)	186.0%	69.5%	1.8%	-18.3%	-51.8%	46.7%	47.0%	55.0%	59.7%	63.9%	85	83	84	84	84
MID CAP (> 100 m and < 1000 m)	317.4%	107.9%	16.1%	-14.1%	-6.3%	37.9%	43.0%	49.4%	50.8%	54.8%	117	116	115	116	116
LARGE CAP (> 1000 m)	242.8%	147.7%	59.8%	-1.8%	30.7%	37.2%	41.4%	42.6%	49.0%	47.5%	66	65	65	65	65

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	9.15%	CAGR Q1	12.65%	CAGR Q1	10.81%
CAGR Q5	-5.89%	CAGR Q5	-0.54%	CAGR Q5	2.26%
Years outperforming the market (%)	83.33%	Years outperforming the market (%)	75.00%	Years outperforming the market (%)	83.33%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	4	Number of years with negative return Top Quintile	4
Outperformance of Top Quintile vs Bottom Quintile Total	237.78%	Outperformance of Top Quintile vs Bottom Quintile Total	323.68%	Outperformance of Top Quintile vs Bottom Quintile Total	212.02%
Outperformance of Top Quintile vs Bottom Quintile (pa)	15.05%	Outperformance of Top Quintile vs Bottom Quintile (pa)	13.18%	Outperformance of Top Quintile vs Bottom Quintile (pa)	8.55%
Number of years with negative return Bottom Quintile	6	Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	155.48%	Outperformance of Top Quintile Total vs Market	286.86%	Outperformance of Top Quintile Total vs Market	212.21%
Outperformance of Top Quintile vs Market (pa)	6.91%	Outperformance of Top Quintile vs Market (pa)	10.40%	Outperformance of Top Quintile vs Market (pa)	8.56%
Underperformance of Bottom Quintile Total vs Market	-82.30%	Underperformance of Bottom Quintile Total vs Market	-36.82%	Underperformance of Bottom Quintile Total vs Market	0.19%
Underperformance of Bottom Quintile vs Market (pa)	-8.14%	Underperformance of Bottom Quintile vs Market (pa)	-2.78%	Underperformance of Bottom Quintile vs Market (pa)	0.01%

		Total Retu	rn 13/06/199	9-13/06/201	11	A	verage % of y	early losers i	n the portfo	lio	Average Portfolio size						
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5		
SMALL CAP (> 15 m and < 100m)	113.0%	109.4%	-27.7%	12.5%	-49.2%	45.0%	47.3%	56.4%	59.4%	64.6%	84	84	83	84	84		
MID CAP (> 100 m and < 1000 m)	325.8%	138.4%	4.2%	-24.1%	-6.8%	37.7%	42.6%	49.3%	52.1%	54.3%	117	116	115	116	116		
LARGE CAP (> 1000 m)	171.2%	148.5%	108.2%	3.5%	12.7%	38.0%	42.0%	42.5%	47.2%	48.3%	66	65	65	65	65		

Free Cash Flow Yield 5 year average

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	6.51%	CAGR Q1	12.83%	CAGR Q1	8.67%
CAGR Q5	-5.48%	CAGR Q5	-0.59%	CAGR Q5	1.00%
Years outperforming the market (%)	66.67%	Years outperforming the market (%)	83.33%	Years outperforming the market (%)	66.67%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	3	Number of years with negative return Top Quintile	4
Outperformance of Top Quintile vs Bottom Quintile Total	162.20%	Outperformance of Top Quintile vs Bottom Quintile Total	332.63%	Outperformance of Top Quintile vs Bottom Quintile Total	158.51%
Outperformance of Top Quintile vs Bottom Quintile (pa)	11.99%	Outperformance of Top Quintile vs Bottom Quintile (pa)	13.42%	Outperformance of Top Quintile vs Bottom Quintile (pa)	7.67%
Number of years with negative return Bottom Quintile	6	Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	82.49%	Outperformance of Top Quintile Total vs Market	295.29%	Outperformance of Top Quintile Total vs Market	140.66%
Outperformance of Top Quintile vs Market (pa)	4.26%	Outperformance of Top Quintile vs Market (pa)	10.59%	Outperformance of Top Quintile vs Market (pa)	6.42%
Underperformance of Bottom Quintile Total vs Market	-79.71%	Underperformance of Bottom Quintile Total vs Market	-37.34%	Underperformance of Bottom Quintile Total vs Market	-17.85%
Underperformance of Bottom Quintile vs Market (pa)	-7.73%	Underperformance of Bottom Quintile vs Market (pa)	-2.83%	Underperformance of Bottom Quintile vs Market (pa)	-1.25%

ROIC 12 months

		Total Retu	rn 13/06/199	9-13/06/201	1	A	verage % of y	early losers in	n the portfol	lio	Average Portfolio size						
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5		
SMALL CAP (> 15 m and < 100m)	120.3%	64.2%	-8.2%	-15.8%	-56.7%	49.2%	49.5%	56.3%	58.4%	63.4%	100	100	100	100	100		
MID CAP (> 100 m and < 1000 m)	82.6%	83.5%	139.5%	98.9%	-51.8%	44.9%	44.8%	44.2%	46.0%	57.3%	133	132	131	131	131		
LARGE CAP (> 1000 m)	69.5%	116.7%	116.9%	108.0%	24.9%	45.6%	41.2%	38.5%	42.0%	48.0%	72	71	70	71	71		

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	6.80%	CAGR Q1	5.15%	CAGR Q1	4.50%
CAGR Q5	-6.74%	CAGR Q5	-5.89%	CAGR Q5	1.87%
Years outperforming the market (%)	58.33%	Years outperforming the market (%)	66.67%	Years outperforming the market (%)	58.33%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	5
Outperformance of Top Quintile vs Bottom Quintile Total	177.02%	Outperformance of Top Quintile vs Bottom Quintile Total	134.34%	Outperformance of Top Quintile vs Bottom Quintile Total	44.62%
Outperformance of Top Quintile vs Bottom Quintile (pa)	13.55%	Outperformance of Top Quintile vs Bottom Quintile (pa)	11.04%	Outperformance of Top Quintile vs Bottom Quintile (pa)	2.63%
Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	6	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	89.75%	Outperformance of Top Quintile Total vs Market	52.05%	Outperformance of Top Quintile Total vs Market	38.96%
Outperformance of Top Quintile vs Market (pa)	4.56%	Outperformance of Top Quintile vs Market (pa)	2.90%	Outperformance of Top Quintile vs Market (pa)	2.25%
Underperformance of Bottom Quintile Total vs Market	-87.27%	Underperformance of Bottom Quintile Total vs Market	-82.29%	Underperformance of Bottom Quintile Total vs Market	-5.66%
Underperformance of Bottom Quintile vs Market (pa)	-8.99%	Underperformance of Bottom Quintile vs Market (pa)	-8.14%	Underperformance of Bottom Quintile vs Market (pa)	-0.38%

ROIC 5 year average

		Total Return 13/06/1999-13/06/2011					verage % of y	early losers in	n the portfo	lio		Average F	ortfolio si	ze	
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (> 15 m and < 100m)	200.2%	47.6%	131.4%	7.6%	-20.9%	44.5%	49.4%	47.2%	55.9%	60.6%	64	64	63	63	63
MID CAP (>100 m and < 1000 m)	134.2%	159.4%	204.9%	168.0%	58.1%	43.5%	41.3%	40.6%	44.7%	50.6%	97	96	96	96	96
LARGE CAP (> 1000 m)	69.9%	177.2%	92.2%	151.6%	73.9%	43.9%	38.8%	43.0%	41.0%	44.3%	61	61	60	61	61

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	9.59%	CAGR Q1	7.35%	CAGR Q1	4.52%
CAGR Q5	-1.94%	CAGR Q5	3.89%	CAGR Q5	4.72%
Years outperforming the market (%)	66.67%	Years outperforming the market (%)	66.67%	Years outperforming the market (%)	58.33%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	5
Outperformance of Top Quintile vs Bottom Quintile Total	221.14%	Outperformance of Top Quintile vs Bottom Quintile Total	76.15%	Outperformance of Top Quintile vs Bottom Quintile Total	-3.96%
Outperformance of Top Quintile vs Bottom Quintile (pa)	11.53%	Outperformance of Top Quintile vs Bottom Quintile (pa)	3.46%	Outperformance of Top Quintile vs Bottom Quintile (pa)	-0.20%
Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	169.66%	Outperformance of Top Quintile Total vs Market	103.68%	Outperformance of Top Quintile Total vs Market	39.35%
Outperformance of Top Quintile vs Market (pa)	7.35%	Outperformance of Top Quintile vs Market (pa)	5.10%	Outperformance of Top Quintile vs Market (pa)	2.27%
Underperformance of Bottom Quintile Total vs Market	-51.48%	Underperformance of Bottom Quintile Total vs Market	27.53%	Underperformance of Bottom Quintile Total vs Market	43.31%
Underperformance of Bottom Quintile vs Market (pa)	-4.18%	Underperformance of Bottom Quintile vs Market (pa)	1.64%	Underperformance of Bottom Quintile vs Market (pa)	2.47%

ROA (Return on Assets)

		Total Retur	n 13/06/199	9-13/06/201	1	Av	verage % of y	early losers i	n the portfol	lio		Average P	ortfolio si	ze	
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (> 15 m and < 100m)	37.2%	136.7%	26.5%	-12.9%	-57.3%	51.2%	48.3%	52.7%	59.7%	64.0%	105	105	105	105	105
MID CAP (> 100 m and < 1000 m)	43.4%	108.7%	101.0%	132.1%	-37.0%	47.1%	43.1%	44.2%	44.7%	54.5%	145	144	143	144	144
LARGE CAP (> 1000 m)	53.8%	152.5%	123.4%	72.5%	21.2%	44.3%	39.2%	39.6%	44.9%	47.1%	76	75	75	75	75

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	2.67%	CAGR Q1	3.05%	CAGR Q1	3.65%
CAGR Q5	-6.84%	CAGR Q5	-3.78%	CAGR Q5	1.61%
Years outperforming the market (%)	58.33%	Years outperforming the market (%)	58.33%	Years outperforming the market (%)	58.33%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	5
Outperformance of Top Quintile vs Bottom Quintile Total	94.48%	Outperformance of Top Quintile vs Bottom Quintile Total	80.43%	Outperformance of Top Quintile vs Bottom Quintile Total	32.56%
Outperformance of Top Quintile vs Bottom Quintile (pa)	9.51%	Outperformance of Top Quintile vs Bottom Quintile (pa)	6.83%	Outperformance of Top Quintile vs Bottom Quintile (pa)	2.04%
Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	6.65%	Outperformance of Top Quintile Total vs Market	12.89%	Outperformance of Top Quintile Total vs Market	23.21%
Outperformance of Top Quintile vs Market (pa)	0.42%	Outperformance of Top Quintile vs Market (pa)	0.81%	Outperformance of Top Quintile vs Market (pa)	1.40%
Underperformance of Bottom Quintile Total vs Market	-87.83%	Underperformance of Bottom Quintile Total vs Market	-67.54%	Underperformance of Bottom Quintile Total vs Market	-9.35%
Underperformance of Bottom Quintile vs Market (pa)	-9.09%	Underperformance of Bottom Quintile vs Market (pa)	-6.02%	Underperformance of Bottom Quintile vs Market (pa)	-0.63%

Piotroski F-Score

		Total Retur	rn 13/06/199	9-13/06/201	1	A۱	verage % of y	early losers i	n the portfol	lio		Average P	ortfolio si	ze	
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (> 15 m and < 100m)	205.1%	36.7%	-6.6%	-41.9%	-55.0%	43.3%	53.1%	57.1%	61.9%	61.7%	118	117	116	117	117
MID CAP (> 100 m and < 1000 m)	301.7%	82.7%	58.0%	3.0%	-54.6%	39.3%	44.4%	47.2%	48.8%	56.4%	153	152	152	152	152
LARGE CAP (> 1000 m)	144.3%	77.1%	95.7%	61.3%	20.6%	40.2%	42.6%	43.5%	44.0%	45.5%	77	76	76	76	76

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	9.74%	CAGR Q1	12.29%	CAGR Q1	7.73%
CAGR Q5	-6.44%	CAGR Q5	-6.37%	CAGR Q5	1.57%
Years outperforming the market (%)	75.00%	Years outperforming the market (%)	75.00%	Years outperforming the market (%)	83.33%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	4	Number of years with negative return Top Quintile	5
Outperformance of Top Quintile vs Bottom Quintile Total	260.10%	Outperformance of Top Quintile vs Bottom Quintile Total	356.32%	Outperformance of Top Quintile vs Bottom Quintile Total	123.79%
Outperformance of Top Quintile vs Bottom Quintile (pa)	16.18%	Outperformance of Top Quintile vs Bottom Quintile (pa)	18.65%	Outperformance of Top Quintile vs Bottom Quintile (pa)	6.16%
Number of years with negative return Bottom Quintile	7	Number of years with negative return Bottom Quintile	5	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	174.57%	Outperformance of Top Quintile Total vs Market	271.19%	Outperformance of Top Quintile Total vs Market	113.80%
Outperformance of Top Quintile vs Market (pa)	7.50%	Outperformance of Top Quintile vs Market (pa)	10.04%	Outperformance of Top Quintile vs Market (pa)	5.48%
Underperformance of Bottom Quintile Total vs Market	-85.53%	Underperformance of Bottom Quintile Total vs Market	-85.13%	Underperformance of Bottom Quintile Total vs Market	-9.99%
Underperformance of Bottom Quintile vs Market (pa)	-8.68%	Underperformance of Bottom Quintile vs Market (pa)	-8.61%	Underperformance of Bottom Quintile vs Market (pa)	-0.68%

Net Debt to Market Value Ratio

		Total Retu	rn 13/06/199	9-13/06/201	1	A۱	verage % of y	early losers i	n the portfol	io		Average F	ortfolio si	ze	
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (>15 m and < 100m)	28.8%	-32.8%	41.9%	7.7%	-10.3%	52.8%	58.3%	54.2%	55.6%	56.4%	101	100	100	100	100
MID CAP (> 100 m and < 1000 m)	-13.6%	18.0%	34.7%	120.6%	127.7%	49.9%	48.4%	47.5%	45.6%	45.8%	133	132	132	132	132
LARGE CAP (> 1000 m)	39.2%	89.7%	104.2%	79.4%	97.7%	45.4%	42.2%	43.5%	43.2%	40.9%	72	71	71	71	71

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	2.13%	CAGR Q1	-1.21%	CAGR Q1	2.80%
CAGR Q5	-0.90%	CAGR Q5	7.10%	CAGR Q5	5.84%
Years outperforming the market (%)	50.00%	Years outperforming the market (%)	41.67%	Years outperforming the market (%)	50.00%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	5
Outperformance of Top Quintile vs Bottom Quintile Total	39.03%	Outperformance of Top Quintile vs Bottom Quintile Total	-141.30%	Outperformance of Top Quintile vs Bottom Quintile Total	-58.46%
Outperformance of Top Quintile vs Bottom Quintile (pa)	3.03%	Outperformance of Top Quintile vs Bottom Quintile (pa)	-8.31%	Outperformance of Top Quintile vs Bottom Quintile (pa)	-3.05%
Number of years with negative return Bottom Quintile	6	Number of years with negative return Bottom Quintile	4	Number of years with negative return Bottom Quintile	4
Outperformance of Top Quintile Total vs Market	-1.79%	Outperformance of Top Quintile Total vs Market	-44.12%	Outperformance of Top Quintile Total vs Market	8.68%
Outperformance of Top Quintile vs Market (pa)	-0.12%	Outperformance of Top Quintile vs Market (pa)	-3.45%	Outperformance of Top Quintile vs Market (pa)	0.55%
Underperformance of Bottom Quintile Total vs Market	-40.82%	Underperformance of Bottom Quintile Total vs Market	97.18%	Underperformance of Bottom Quintile Total vs Market	67.14%
Underperformance of Bottom Quintile vs Market (pa)	-3.15%	Underperformance of Bottom Quintile vs Market (pa)	4.85%	Underperformance of Bottom Quintile vs Market (pa)	3.60%

6 months Price Index

		Total Retur	n 13/06/199	9-13/06/201	1	A۱	verage % of y	early losers in	n the portfo	lio		Average F	Portfolio si	ze	
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (>15 m and < 100m)	285.8%	196.2%	1.0%	-42.9%	-90.3%	49.2%	46.3%	53.8%	58.3%	68.7%	112	111	111	111	111
MID CAP (> 100 m and < 1000 m)	248.0%	167.2%	85.1%	35.3%	-80.2%	42.3%	41.7%	43.5%	46.5%	60.6%	147	146	146	146	146
LARGE CAP (> 1000 m)	150.6%	137.6%	97.2%	60.6%	-18.1%	42.3%	41.3%	41.7%	42.4%	47.6%	76	75	75	75	75

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	11.91%	CAGR Q1	10.95%	CAGR Q1	7.96%
CAGR Q5	-17.69%	CAGR Q5	-12.61%	CAGR Q5	-1.65%
Years outperforming the market (%)	83.33%	Years outperforming the market (%)	83.33%	Years outperforming the market (%)	83.33%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	4	Number of years with negative return Top Quintile	5
Outperformance of Top Quintile vs Bottom Quintile Total	376.09%	Outperformance of Top Quintile vs Bottom Quintile Total	328.21%	Outperformance of Top Quintile vs Bottom Quintile Total	168.72%
Outperformance of Top Quintile vs Bottom Quintile (pa)	29.60%	Outperformance of Top Quintile vs Bottom Quintile (pa)	23.57%	Outperformance of Top Quintile vs Bottom Quintile (pa)	9.61%
Number of years with negative return Bottom Quintile	7	Number of years with negative return Bottom Quintile	6	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	255.22%	Outperformance of Top Quintile Total vs Market	217.50%	Outperformance of Top Quintile Total vs Market	120.07%
Outperformance of Top Quintile vs Market (pa)	9.66%	Outperformance of Top Quintile vs Market (pa)	8.71%	Outperformance of Top Quintile vs Market (pa)	5.71%
Underperformance of Bottom Quintile Total vs Market	-120.87%	Underperformance of Bottom Quintile Total vs Market	-110.71%	Underperformance of Bottom Quintile Total vs Market	-48.65%
Underperformance of Bottom Quintile vs Market (pa)	-19.94%	Underperformance of Bottom Quintile vs Market (pa)	-14.86%	Underperformance of Bottom Quintile vs Market (pa)	-3.90%

12 months Price Index

		Total Retur	n 13/06/199	9-13/06/201	1	A	verage % of y	early losers i	n the portfo	lio		Average F	Portfolio si	ze	
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (> 15 m and < 100m)	224.9%	168.2%	8.2%	-49.4%	-83.4%	49.1%	48.0%	51.7%	58.9%	66.6%	106	106	106	106	106
MID CAP (> 100 m and < 1000 m)	159.6%	173.6%	98.7%	28.7%	-50.6%	43.1%	42.2%	43.1%	47.2%	56.0%	141	140	140	140	140
LARGE CAP (> 1000 m)	152.7%	116.3%	75.9%	100.0%	-11.4%	41.5%	42.2%	41.4%	42.2%	46.9%	74	72	73	73	73

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	10.32%	CAGR Q1	8.27%	CAGR Q1	8.03%
CAGR Q5	-13.90%	CAGR Q5	-5.71%	CAGR Q5	-1.00%
Years outperforming the market (%)	75.00%	Years outperforming the market (%)	58.33%	Years outperforming the market (%)	83.33%
Number of years with negative return Top Quintile	4	Number of years with negative return Top Quintile	4	Number of years with negative return Top Quintile	5
Outperformance of Top Quintile vs Bottom Quintile Total	308.29%	Outperformance of Top Quintile vs Bottom Quintile Total	210.21%	Outperformance of Top Quintile vs Bottom Quintile Total	164.14%
Outperformance of Top Quintile vs Bottom Quintile (pa)	24.22%	Outperformance of Top Quintile vs Bottom Quintile (pa)	13.99%	Outperformance of Top Quintile vs Bottom Quintile (pa)	9.04%
Number of years with negative return Bottom Quintile	7	Number of years with negative return Bottom Quintile	6	Number of years with negative return Bottom Quintile	4
Outperformance of Top Quintile Total vs Market	194.34%	Outperformance of Top Quintile Total vs Market	129.04%	Outperformance of Top Quintile Total vs Market	122.19%
Outperformance of Top Quintile vs Market (pa)	8.07%	Outperformance of Top Quintile vs Market (pa)	6.03%	Outperformance of Top Quintile vs Market (pa)	5.79%
Underperformance of Bottom Quintile Total vs Market	-113.95%	Underperformance of Bottom Quintile Total vs Market	-81.17%	Underperformance of Bottom Quintile Total vs Market	-41.95%
Underperformance of Bottom Quintile vs Market (pa)	-16.15%	Underperformance of Bottom Quintile vs Market (pa)	-7.96%	Underperformance of Bottom Quintile vs Market (pa)	-3.25%

MF Rank

		Total Retu	m 13/06/199	9-13/06/201	1	A	verage % of y	early losers i	n the portfol	io		Average P	ortfolio si	ze	
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (> 15 m and < 100m)	133.8%	76.2%	0.9%	-17.3%	-53.3%	44.8%	51.8%	57.5%	58.1%	63.3%	98	97	97	97	97
MID CAP (> 100 m and < 1000 m)	182.8%	139.7%	67.5%	44.4%	-52.1%	41.1%	43.2%	46.2%	48.3%	57.9%	131	130	130	130	130
LARGE CAP (> 1000 m)	162.9%	104.2%	82.5%	91.0%	13.5%	42.5%	40.0%	42.5%	42.2%	48.3%	71	70	70	70	70

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	7.33%	CAGR Q1	9.05%	CAGR Q1	8.39%
CAGR Q5	-6.15%	CAGR Q5	-5.94%	CAGR Q5	1.06%
Years outperforming the market (%)	50.00%	Years outperforming the market (%)	58.33%	Years outperforming the market (%)	58.33%
Number of years with negative return Top Quintile	5	Number of years with negative return Top Quintile	4	Number of years with negative return Top Quintile	5
Outperformance of Top Quintile vs Bottom Quintile Total	187.08%	Outperformance of Top Quintile vs Bottom Quintile Total	234.90%	Outperformance of Top Quintile vs Bottom Quintile Total	149.36%
Outperformance of Top Quintile vs Bottom Quintile (pa)	13.48%	Outperformance of Top Quintile vs Bottom Quintile (pa)	14.99%	Outperformance of Top Quintile vs Bottom Quintile (pa)	7.32%
Number of years with negative return Bottom Quintile	7	Number of years with negative return Bottom Quintile	6	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	103.22%	Outperformance of Top Quintile Total vs Market	152.30%	Outperformance of Top Quintile Total vs Market	132.36%
Outperformance of Top Quintile vs Market (pa)	5.09%	Outperformance of Top Quintile vs Market (pa)	6.80%	Outperformance of Top Quintile vs Market (pa)	6.14%
Underperformance of Bottom Quintile Total vs Market	-83.86%	Underperformance of Bottom Quintile Total vs Market	-82.60%	Underperformance of Bottom Quintile Total vs Market	-17.00%
Underperformance of Bottom Quintile vs Market (pa)	-8.40%	Underperformance of Bottom Quintile vs Market (pa)	-8.19%	Underperformance of Bottom Quintile vs Market (pa)	-1.18%

ERP5 Rank

		Total Retur	n 13/06/199	9-13/06/201	1	A	verage % of y	early losers i	n the portfol	lio	·	Average P	ortfolio si	ze	
Market Cap	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5
SMALL CAP (> 15 m and < 100m)	331.0%	83.1%	7.8%	28.0%	-53.1%	38.7%	48.9%	54.8%	52.9%	64.7%	66	65	65	65	65
MID CAP (> 100 m and < 1000 m)	279.8%	121.0%	68.7%	65.2%	-37.7%	39.2%	41.8%	43.9%	47.0%	56.6%	105	104	104	104	104
LARGE CAP (> 1000 m)	169.1%	116.4%	105.5%	65.0%	-7.0%	40.6%	41.4%	41.4%	43.9%	47.6%	63	62	62	62	62

SMALL CAP		MID CAP		LARGE CAP	
CAGR Market	2.25%	CAGR Market	2.25%	CAGR Market	2.25%
CAGR Q1	12.95%	CAGR Q1	11.76%	CAGR Q1	8.60%
CAGR Q5	-6.11%	CAGR Q5	-3.87%	CAGR Q5	-0.61%
Years outperforming the market (%)	83.33%	Years outperforming the market (%)	83.33%	Years outperforming the market (%)	66.67%
Number of years with negative return Top Quintile	4	Number of years with negative return Top Quintile	3	Number of years with negative return Top Quintile	3
Outperformance of Top Quintile vs Bottom Quintile Total	384.09%	Outperformance of Top Quintile vs Bottom Quintile Total	317.45%	Outperformance of Top Quintile vs Bottom Quintile Total	176.12%
Outperformance of Top Quintile vs Bottom Quintile (pa)	19.06%	Outperformance of Top Quintile vs Bottom Quintile (pa)	15.63%	Outperformance of Top Quintile vs Bottom Quintile (pa)	9.20%
Number of years with negative return Bottom Quintile	6	Number of years with negative return Bottom Quintile	6	Number of years with negative return Bottom Quintile	5
Outperformance of Top Quintile Total vs Market	300.48%	Outperformance of Top Quintile Total vs Market	249.21%	Outperformance of Top Quintile Total vs Market	138.55%
Outperformance of Top Quintile vs Market (pa)	10.70%	Outperformance of Top Quintile vs Market (pa)	9.52%	Outperformance of Top Quintile vs Market (pa)	6.35%
Underperformance of Bottom Quintile Total vs Market	-83.61%	Underperformance of Bottom Quintile Total vs Market	-68.24%	Underperformance of Bottom Quintile Total vs Market	-37.57%
Underperformance of Bottom Quintile vs Market (pa)	-8.36%	Underperformance of Bottom Quintile vs Market (pa)	-6.11%	Underperformance of Bottom Quintile vs Market (pa)	-2.85%

APPENDIX 3: MULTIPLE FACTOR TEST RESULTS

12 months Earnings Yield as primary factor

	Total Retu	rn 13/06/19	99-13/06/2	011		Average %	of yearly lose	ers in the po	rtfolio		Average	Portfolio	size			Years outper- forming the market (%)	Number of years with negative return Top Q	CAGR Q1	CAGR Q5
Factor 2	Q1	Q2	Q3	Q 4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5				
Earnings Yield 12 months	372.9%	392.1%	154.2%	162.7%	170.7%	36.1%	36.4%	40.7%	42.6%	38.7%	50	49	50	49	49	92%	4	13.8%	8.7%
Earnings Yield 5 years	332.4%	355.2%	292.1%	154.2%	106.7%	34.0%	36.3%	38.4%	41.1%	44.8%	50	49	50	49	49	75%	3	13.0%	6.2%
Price To Book	560.4%	348.8%	271.4%	202.0%	31.4%	35.1%	35.3%	39.0%	39.7%	44.4%	50	49	49	49	49	75%	3	17.0%	2.3%
FCF Yield	420.8%	409.7%	266.1%	113.3%	66.9%	34.3%	33.9%	37.8%	41.9%	46.5%	46	45	45	45	45	83%	4	14.7%	4.4%
FCF Yield 5 years	319.5%	333.5%	324.7%	159.6%	73.0%	33.0%	37.4%	37.5%	40.6%	45.9%	46	45	45	45	45	75%	3	12.7%	4.7%
Price To Sales	362.8%	189.5%	326.5%	209.4%	134.5%	37.7%	40.7%	36.0%	39.5%	40.7%	50	49	49	49	49	75%	3	13.6%	7.4%
F SCORE	447.1%	289.4%	286.2%	219.2%	55.1%	34.0%	35.9%	37.7%	41.0%	46.0%	50	49	49	49	49	75%	3	15.2%	3.7%
Net Debt On Market Value	285.3%	190.9%	300.9%	239.4%	173.5%	38.1%	38.9%	38.6%	38.9%	40.0%	50	49	49	49	49	75%	4	11.9%	8.7%
ROIC	143.3%	271.3%	252.8%	259.7%	260.8%	41.2%	36.9%	39.3%	37.8%	39.6%	50	49	49	49	49	58%	4	7.7%	11.3%
ROIC 5 years	225.8%	332.4%	242.4%	342.7%	250.3%	38.5%	35.5%	37.7%	38.4%	38.1%	41	40	41	40	40	67%	3	10.3%	11.0%
Price Index 12 months	695.8%	394.2%	307.8%	178.2%	-14.7%	32.2%	34.3%	36.2%	38.1%	53.4%	49	48	48	48	48	83%	2	18.9%	-1.3%
Price Index 6 months	814.4%	332.5%	319.5%	197.5%	-26.1%	32.8%	34.7%	36.2%	37.3%	52.9%	50	49	49	49	49	83%	2	20.3%	-2.5%
MF Rank	233.3%	224.4%	250.3%	234.0%	243.5%	39.8%	37.9%	37.3%	39.5%	40.0%	50	49	50	49	49	67%	4	10.6%	10.8%
ERP5	455.1%	396.1%	193.5%	182.0%	74.0%	34.6%	35.1%	39.0%	41.1%	44.8%	50	49	50	49	49	83%	3	15.4%	4.7%

	Total Retu	ırn 13/06/1	.999-13/06	/2011		Average % o	f yearly lose	rs in the port	folio		Average I	Portfolio	size			Years	Number of years	CAGR Q1	CAGR Q5
																outperforming	-		
																the market (%)	return Top Q		
Factor 2	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5				
Earning Yield 12 months	692.0%	252.1%	427.4%	168.4%	273.2%	31.8%	38.0%	42.1%	43.6%	48.0%	44	44	43	43	43	83%	3	18.8%	11.6%
Earning Yield 5 years	354.3%	280.5%	370.3%	314.9%	238.0%	37.9%	38.0%	41.3%	38.6%	42.4%	55	54	54	54	54	67%	3	13.4%	10.7%
Price To Book	618.7%	232.0%	264.7%	261.0%	251.3%	38.5%	39.8%	38.0%	41.0%	40.8%	55	54	54	54	54	83%	2	17.9%	11.0%
FCF Yield	685.2%	370.6%	186.7%	193.3%	216.6%	34.1%	35.5%	38.6%	39.8%	48.8%	47	46	46	46	46	83%	3	18.7%	10.1%
FCF Yield 5 years	384.3%	521.8%	213.7%	192.0%	245.8%	34.9%	35.3%	38.0%	39.6%	48.7%	48	46	46	46	46	83%	4	14.0%	10.9%
Price To Sales	623.1%	265.4%	311.8%	234.3%	234.1%	37.5%	41.6%	40.5%	40.5%	37.2%	53	52	52	52	52	83%	2	17.9%	10.6%
F SCORE	685.2%	370.6%	186.7%	193.3%	216.6%	34.1%	35.5%	38.6%	39.8%	48.8%	47	46	46	46	46	83%	3	18.7%	10.1%
Net Debt On Market Value	376.4%	482.0%	311.1%	206.3%	349.1%	37.7%	39.9%	38.2%	44.2%	43.0%	45	44	44	44	44	92%	4	13.9%	13.3%
ROIC	551.0%	403.4%	362.7%	168.2%	271.6%	33.6%	38.4%	39.6%	43.8%	48.1%	44	43	44	44	44	83%	3	16.9%	11.6%
ROIC 5 years	476.4%	224.3%	286.9%	365.7%	339.6%	36.2%	38.0%	42.0%	38.8%	46.7%	37	36	36	36	36	83%	3	15.7%	13.1%
Price Index 12 months	987.3%	352.2%	358.7%	191.1%	41.3%	35.0%	35.7%	36.0%	42.2%	49.2%	53	52	52	53	52	92%	2	22.0%	2.9%
Price Index 6 months	1029.4%	302.5%	354.1%	168.9%	70.6%	34.8%	36.9%	34.8%	42.9%	48.4%	54	53	53	53	53	83%	2	22.4%	4.6%
MF Rank	603.5%	399.5%	223.8%	194.8%	226.4%	34.0%	37.1%	42.0%	49.2%	36.0%	55	54	54	54	54	75%	3	17.7%	10.4%
ERP5	616.3%	284.1%	208.2%	333.9%	208.0%	33.7%	39.0%	44.6%	41.0%	39.9%	55	54	54	54	54	75%	3	17.8%	9.8%

Price-to-Book ratio as primary factor

	Total Retu	rn 13/06/19	99-13/06/2	011		Average %	of yearly lose	ers in the por	tfolio		Average	Portfolio	size			Years outper- forming the market (%)	Number of years with negative return Top Q	CAGR Q1	CAGR Q5
Factor 2	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5				
Earnings Yield 12 months	607.9%	323.5%	281.9%	260.9%	122.8%	32.1%	34.7%	39.0%	40.2%	45.1%	45	44	44	44	44	92%	3	17.7%	6.9%
Earnings Yield 5 years	428.7%	438.0%	382.4%	122.2%	209.2%	33.3%	36.0%	34.5%	45.0%	42.3%	45	44	44	44	44	83%	2	14.9%	9.9%
Price To Book	713.7%	372.5%	324.6%	179.8%	114.4%	33.2%	37.1%	34.6%	41.0%	43.9%	45	43	44	43	44	83%	2	19.1%	6.6%
FCF Yield	313.0%	421.6%	297.6%	300.1%	192.9%	37.6%	37.6%	38.5%	36.9%	40.4%	45	44	44	44	44	83%	4	12.5%	9.4%
FCF Yield 5 years	322.7%	414.8%	356.5%	292.8%	160.9%	34.6%	33.3%	37.6%	38.6%	46.7%	45	44	43	44	44	83%	4	12.8%	8.3%
Price To Sales	549.0%	326.3%	275.9%	298.1%	119.0%	35.2%	40.5%	36.8%	37.7%	40.8%	45	44	44	44	44	75%	2	16.9%	6.7%
F SCORE	568.7%	389.3%	250.9%	260.5%	127.9%	32.9%	34.9%	39.0%	40.5%	43.7%	45	44	43	44	44	92%	2	17.2%	7.1%
Net Debt On Market Value	231.7%	270.1%	374.2%	292.1%	339.5%	37.0%	40.5%	34.7%	39.5%	39.3%	45	44	44	44	44	75%	4	10.5%	13.1%
ROIC	199.1%	437.5%	446.4%	320.6%	145.1%	39.3%	35.1%	35.7%	37.2%	44.1%	45	44	44	44	44	75%	4	9.6%	7.8%
ROIC 5 years	334.4%	358.8%	359.0%	375.1%	221.1%	36.1%	34.3%	35.8%	37.6%	42.4%	37	35	36	36	36	75%	4	13.0%	10.2%
Price Index 12 months	755.0%	411.9%	367.3%	242.3%	5.3%	34.6%	35.1%	36.5%	36.4%	48.2%	44	42	43	42	43	92%	2	19.6%	0.4%
Price Index 6 months	582.8%	525.7%	352.8%	199.7%	35.0%	34.9%	34.9%	36.5%	37.7%	46.6%	44	43	43	43	43	100%	2	17.4%	2.5%
MF Rank	389.3%	341.3%	348.9%	311.2%	142.0%	33.7%	37.5%	37.4%	38.1%	44.4%	45	44	44	44	44	83%	3	14.1%	7.6%
ERP5	578.4%	339.3%	351.4%	141.9%	186.2%	33.2%	37.8%	35.1%	41.6%	43.4%	45	44	44	44	44	83%	3	17.3%	9.2%

12 months price to Free Cash Flow as primary factor

	Total Return 13/06/1999-13/06/2011								rtfolio		Average	Portfolio	size			Years outper- forming the market (%)	Number of years with negative return Top Q	CAGR Q1	CAGR Q5
Factor 2	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5				
Earnings Yield 12 months	330.3%	143.3%	372.2%	112.7%	4.5%	38.8%	42.5%	39.3%	46.1%	54.4%	53	52	52	52	52	67%	3	12.9%	0.4%
Earnings Yield 5 years	252.6%	187.2%	214.7%	98.3%	86.8%	40.5%	42.5%	41.6%	47.5%	48.6%	55	54	54	54	54	75%	3	11.1%	5.3%
Price To Book	423.3%	326.3%	221.1%	151.0%	-15.8%	41.1%	38.7%	42.5%	43.4%	51.7%	54	53	52	53	52	67%	3	14.8%	-1.4%
FCF Yield	446.0%	245.7%	97.7%	74.0%	37.4%	37.8%	40.2%	46.7%	44.6%	54.4%	52	51	51	51	51	75%	2	15.2%	2.7%
FCF Yield 5 years	257.4%	312.6%	133.8%	80.6%	46.3%	38.5%	40.5%	43.6%	48.1%	53.4%	51	51	50	51	50	75%	4	11.2%	3.2%
Price To Sales	336.4%	123.4%	197.5%	146.4%	68.6%	43.2%	43.4%	43.5%	45.3%	45.2%	55	54	54	54	54	75%	3	13.1%	4.4%
F SCORE	341.3%	312.9%	144.8%	72.4%	47.8%	39.0%	40.6%	43.7%	46.8%	50.6%	55	54	54	54	54	75%	4	13.2%	3.3%
Net Debt On Market Value	251.5%	225.1%	164.9%	85.4%	109.0%	41.4%	42.3%	42.6%	46.2%	48.9%	53	52	53	52	53	83%	4	11.0%	6.3%
ROIC	275.7%	241.3%	199.0%	164.5%	4.4%	40.0%	39.2%	43.0%	44.6%	54.6%	53	52	52	53	52	67%	4	11.7%	0.4%
ROIC 5 years	184.8%	190.2%	206.6%	184.3%	54.6%	40.1%	41.3%	43.8%	44.3%	51.3%	47	46	46	46	45	67%	4	9.1%	3.7%
Price Index 12 months	549.0%	314.6%	187.3%	116.0%	-46.0%	36.5%	39.5%	43.1%	45.3%	56.7%	54	53	53	53	53	75%	2	16.9%	-5.0%
Price Index 6 months	563.0%	298.6%	195.2%	59.4%	-18.8%	36.5%	41.2%	40.9%	48.1%	53.9%	54	54	53	54	53	75%	2	17.1%	-1.7%
MF Rank	229.5%	267.2%	257.3%	138.4%	7.5%	39.9%	40.3%	41.4%	45.7%	53.3%	55	54	54	54	54	67%	3	10.4%	0.6%
ERP5	393.5%	187.7%	190.5%	76.3%	56.0%	37.1%	40.1%	43.8%	51.3%	48.4%	55	54	54	54	54	67%	3	14.2%	3.8%

Price-to-Sales ratio as primary factor

	Total Retu	ırn 13/06/1	999-13/06,	/2011		Average %	of yearly lose	Average	Portfolio	size			Years outper- forming the market (%)	Number of years with negative return Top Q	CAGR Q1	CAGR Q5			
Factor 2	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	VbQ3	NbQ4	NbQ5				
Earnings Yield 12 months	448.7%	298.9%	259.5%	119.4%	66.4%	34.7%	37.2%	40.1%	42.5%	48.0%	56	55	55	55	55	83%	3	15.2%	4.3%
Earnings Yield 5 years	457.4%	353.0%	181.3%	61.7%	124.0%	33.5%	36.0%	40.7%	46.9%	46.0%	57	56	56	56	56	92%	2	15.4%	7.0%
Price To Book	591.2%	275.0%	238.9%	127.5%	40.1%	35.4%	37.4%	38.9%	43.6%	47.2%	57	56	56	56	56	83%	3	17.5%	2.8%
FCF Yield	680.4%	268.2%	201.5%	75.1%	62.8%	33.7%	37.4%	39.0%	44.7%	48.2%	56	56	55	56	55	83%	2	18.7%	4.1%
FCF Yield 5 years	391.4%	343.0%	181.8%	59.6%	148.4%	33.2%	37.3%	39.2%	48.0%	45.6%	56	56	55	56	55	83%	3	14.2%	7.9%
Price To Sales	455.5%	267.2%	255.2%	166.2%	29.0%	38.5%	39.0%	38.4%	39.7%	47.4%	57	56	56	56	56	75%	4	15.4%	2.1%
F SCORE	334.4%	292.9%	143.4%	239.2%	105.6%	38.7%	38.5%	40.4%	41.5%	44.0%	57	56	56	56	56	83%	3	13.0%	6.2%
Net Debt On Market Value	224.9%	184.7%	262.8%	207.1%	198.5%	39.7%	40.3%	41.5%	40.3%	40.5%	56	55	56	56	55	75%	5	10.3%	9.5%
ROIC	232.7%	179.3%	308.5%	184.0%	182.7%	41.4%	41.2%	36.5%	39.9%	43.6%	56	55	56	55	55	75%	5	10.5%	9.0%
ROIC 5 years	329.6%	256.7%	227.6%	276.3%	241.0%	38.2%	38.9%	39.3%	37.5%	42.1%	47	46	46	46	46	75%	5	12.9%	10.8%
Price Index 12 months	477.7%	339.3%	155.7%	292.7%	33.6%	40.0%	36.2%	41.6%	36.6%	47.2%	55	53	54	53	54	75%	4	15.7%	2.4%
Price Index 6 months	393.3%	351.7%	203.1%	219.8%	29.5%	40.8%	36.8%	38.9%	39.9%	46.1%	57	56	56	56	56	75%	3	14.2%	2.2%
MF Rank	340.9%	313.6%	164.1%	201.5%	103.5%	37.3%	39.1%	40.6%	41.0%	45.1%	57	56	56	56	56	83%	3	13.2%	6.1%
ERP5	549.3%	237.5%	231.9%	114.2%	75.8%	34.3%	38.6%	39.4%	44.7%	46.1%	57	56	56	56	56	83%	3	16.9%	4.8%

Piotroski F-Score as primary factor

	Total Retu	ırn 13/06/1	.999-13/06,	/2011		Average %	of yearly lose	ers in the por	tfolio		Average	Portfolio	size			Years outper- forming the market (%)	Number of years with negative return Top Q	CAGR Q1	CAGR Q5
Factor 2	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5				
Earnings Yield 12 months	802.4%	295.3%	135.0%	56.1%	22.2%	33.9%	40.8%	42.6%	48.6%	50.8%	47	46	46	46	46	92%	3	20.1%	1.7%
Earnings Yield 5 years	477.1%	174.0%	91.1%	32.4%	134.1%	35.0%	39.7%	46.7%	50.5%	47.3%	53	52	52	52	52	83%	3	15.7%	7.3%
Price To Book	674.8%	334.7%	172.2%	55.5%	-8.9%	38.7%	38.5%	42.1%	48.0%	50.0%	51	50	50	49	50	83%	3	18.6%	-0.8%
FCF Yield	629.7%	321.4%	138.5%	64.0%	40.5%	37.4%	37.1%	44.6%	48.9%	52.1%	45	43	43	43	43	100%	3	18.0%	2.9%
FCF Yield 5 years	530.4%	310.6%	119.8%	68.3%	59.2%	35.5%	39.0%	46.0%	47.3%	52.1%	44	43	43	43	43	92%	3	16.6%	4.0%
Price To Sales	290.2%	351.2%	301.3%	79.6%	-11.3%	41.6%	39.9%	41.1%	45.3%	50.9%	51	49	50	49	49	67%	4	12.0%	-1.0%
F SCORE	447.9%	247.9%	233.3%	61.7%	-10.8%	38.6%	41.4%	42.6%	45.7%	51.0%	53	52	52	52	52	75%	3	15.2%	-0.9%
Net Debt On Market Value	138.5%	139.9%	211.3%	233.0%	194.0%	43.1%	43.7%	44.8%	43.0%	42.7%	48	47	47	47	47	92%	5	7.5%	9.4%
ROIC	271.4%	326.6%	166.8%	162.1%	39.1%	41.5%	38.7%	43.5%	42.9%	50.8%	47	46	46	46	46	83%	5	11.6%	2.8%
ROIC 5 years	482.2%	214.0%	216.6%	240.9%	165.9%	39.6%	38.3%	39.0%	42.5%	47.8%	35	34	34	34	34	92%	5	15.8%	8.5%
Price Index 12 months	114.9%	113.1%	119.1%	268.9%	156.9%	47.9%	45.5%	42.6%	40.2%	42.8%	53	52	52	52	52	83%	4	6.6%	8.2%
Price Index 6 months	186.0%	278.0%	258.8%	223.7%	-25.9%	45.2%	45.4%	39.4%	40.6%	48.2%	53	52	52	52	52	67%	3	9.2%	-2.5%
MF Rank	229.5%	267.2%	257.3%	138.4%	7.5%	39.9%	40.3%	41.4%	45.7%	53.3%	55	54	54	54	54	67%	3	10.4%	0.6%
ERP5	393.5%	187.7%	190.5%	76.3%	56.0%	37.1%	40.1%	43.8%	51.3%	48.4%	55	54	54	54	54	67%	3	14.2%	3.8%

12 months price index as primary factor

	Total Retu	rn 13/06/1	999-13/06,	/2011		Average %	of yearly los	Average	Portfolio	size			Years outper- forming the market (%)	Number of years with negative return Top Q	CAGR Q1	CAGR Q5			
Factor 2	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5				
Earnings Yield 12 months	1002.2%	416.0%	134.2%	59.8%	48.3%	35.1%	36.9%	43.5%	48.1%	51.7%	49	48	49	48	48	92%	2	22.1%	3.3%
Earnings Yield 5 years	662.0%	244.6%	64.7%	163.9%	151.6%	34.9%	39.8%	47.5%	47.1%	47.8%	55	54	54	54	55	83%	3	18.4%	8.0%
Price To Book	1157.5%	449.2%	173.5%	71.9%	3.8%	36.8%	39.3%	42.5%	46.3%	49.4%	53	52	52	52	52	83%	3	23.5%	0.3%
FCF Yield	556.3%	285.5%	166.2%	95.3%	130.6%	36.5%	38.5%	44.5%	46.4%	52.0%	47	46	46	46	46	92%	3	17.0%	7.2%
FCF Yield 5 years	668.8%	214.2%	171.4%	96.8%	82.3%	34.8%	38.6%	45.6%	46.3%	53.0%	47	46	46	46	46	100%	4	18.5%	5.1%
Price To Sales	621.5%	554.2%	217.4%	110.2%	-16.3%	39.9%	36.7%	43.0%	42.9%	54.1%	53	52	52	52	52	75%	3	17.9%	-1.5%
F SCORE	598.6%	314.1%	243.6%	84.2%	61.3%	37.9%	40.7%	42.0%	45.5%	50.9%	56	54	54	54	54	83%	3	17.6%	4.1%
Net Debt On Market Value	180.4%	135.6%	197.4%	368.7%	294.9%	44.2%	44.6%	43.5%	40.7%	42.4%	50	49	49	49	49	92%	5	9.0%	12.1%
ROIC	332.7%	347.6%	303.7%	220.9%	43.7%	40.2%	39.8%	41.3%	42.2%	52.0%	49	48	49	48	48	83%	5	13.0%	3.1%
ROIC 5 years	485.3%	402.4%	559.5%	300.0%	230.3%	37.1%	38.5%	35.0%	42.8%	48.6%	35	34	34	35	34	92%	5	15.9%	10.5%
Price Index 12 months	153.4%	166.0%	412.7%	316.9%	154.4%	47.5%	44.9%	39.1%	39.8%	42.3%	52	51	51	51	51	83%	4	8.1%	8.1%
Price Index 6 months	122.1%	273.5%	164.4%	185.1%	411.8%	46.8%	44.3%	44.9%	41.3%	39.6%	56	54	54	54	55	75%	4	6.9%	14.6%
MF Rank	746.6%	212.8%	257.9%	52.7%	89.7%	36.3%	40.6%	43.6%	47.5%	49.1%	55	54	54	54	55	100%	4	19.5%	5.5%
ERP5	637.3%	208.1%	180.3%	107.6%	125.2%	35.2%	42.3%	42.5%	50.6%	46.5%	55	54	54	54	55	100%	4	18.1%	7.0%

6 months price index as primary factor

	Total Return	n 13/06/1999	-13/06/2011			Average %	of yearly los	Average	Portfolio	o size			Years outper- forming the market (%)	Number of years with negative return Top Q	CAGR Q1	CAGR Q5			
Factor 2	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5				
Earnings Yield 12 months	412.2%	253.2%	146.3%	150.7%	79.5%	34.9%	37.9%	42.2%	42.8%	47.4%	50	49	49	49	49	92%	4	14.6%	5.0%
Earnings Yield 5 years	477.6%	222.1%	262.2%	36.7%	116.9%	31.7%	39.5%	41.6%	46.7%	45.9%	50	49	49	49	49	92%	3	15.7%	6.7%
Price To Book	642.8%	258.3%	226.0%	100.4%	26.8%	32.6%	39.2%	40.1%	43.8%	48.3%	50	49	49	49	49	83%	3	18.2%	2.0%
FCF Yield	337.4%	286.0%	174.3%	117.2%	57.4%	35.5%	38.3%	40.3%	44.5%	45.6%	46	45	46	45	46	75%	4	13.1%	3.8%
FCF Yield 5 years	369.7%	245.5%	237.4%	87.4%	36.6%	32.7%	39.6%	40.1%	44.4%	47.9%	46	45	46	45	46	75%	3	13.8%	2.6%
Price To Sales	326.8%	218.4%	169.3%	211.4%	75.9%	38.4%	38.0%	40.8%	42.4%	45.6%	50	49	49	49	49	75%	3	12.9%	4.8%
F SCORE	349.0%	284.7%	266.8%	171.6%	32.1%	36.5%	39.6%	38.1%	43.7%	47.4%	50	49	49	49	49	83%	3	13.3%	2.3%
Net Debt On Market Value	166.7%	169.2%	269.6%	199.4%	170.9%	41.5%	42.6%	40.5%	40.6%	39.9%	50	49	49	49	49	67%	4	8.5%	8.7%
ROIC	121.6%	101.8%	207.2%	242.5%	323.7%	46.2%	41.9%	40.5%	38.9%	37.5%	50	49	49	49	49	67%	5	6.9%	12.8%
ROIC 5 years	180.9%	289.0%	286.6%	208.2%	267.5%	42.3%	37.2%	36.8%	39.3%	40.3%	39	38	37	38	37	67%	4	9.0%	11.5%
Price Index 12 months	655.1%	280.1%	259.7%	111.9%	-18.0%	36.5%	38.7%	35.9%	40.2%	52.4%	48	47	47	47	47	92%	2	18.3%	-1.6%
Price Index 6 months	783.3%	270.4%	259.6%	111.5%	-25.9%	37.1%	37.1%	37.1%	41.4%	51.9%	49	48	48	48	48	92%	3	19.9%	-2.5%
MF Rank	234.9%	204.1%	215.8%	91.6%	273.3%	39.8%	40.1%	39.0%	45.7%	40.7%	50	49	49	49	49	67%	4	10.6%	11.6%
ERP5	567.2%	340.7%	141.7%	55.0%	79.9%	34.9%	35.8%	41.6%	46.0%	46.9%	50	49	49	49	49	83%	3	17.1%	5.0%

MF Rank as primary factor

	Total Return 13/06/1999-13/06/2011 A						Average % of yearly losers in the portfolio						o size			Years outper- forming the market (%)	Number of years with negative return Top Q	CAGR Q1	CAGR Q5
Factor 2	Q1	Q2	Q3	Q4	Q5	LosersQ1	LosersQ2	LosersQ3	LoserQ4	LoserQ5	NbQ1	NbQ2	NbQ3	NbQ4	NbQ5				
Earnings Yield 12 months	590.3%	355.9%	248.9%	175.8%	120.6%	32.0%	36.2%	39.0%	40.3%	45.3%	40	40	39	40	39	92%	3	17.5%	6.8%
Earnings Yield 5 years	404.2%	408.4%	351.7%	216.2%	84.1%	32.3%	35.9%	37.9%	38.7%	47.9%	40	40	39	40	39	75%	3	14.4%	5.2%
Price To Book	680.2%	456.8%	265.2%	200.3%	46.6%	33.5%	35.0%	38.8%	39.8%	45.2%	40	39	39	40	39	83%	3	18.7%	3.2%
FCF Yield	555.6%	245.2%	204.0%	223.9%	177.0%	32.9%	37.1%	40.3%	40.3%	42.3%	37	36	36	36	36	83%	2	17.0%	8.9%
FCF Yield 5 years	336.4%	311.0%	285.8%	206.1%	179.6%	33.5%	37.8%	40.4%	37.9%	43.5%	37	36	36	36	36	67%	3	13.1%	8.9%
Price To Sales	402.4%	272.7%	332.7%	220.5%	166.5%	37.5%	38.1%	36.2%	39.1%	41.7%	40	40	39	40	39	75%	3	14.4%	8.5%
F SCORE	583.1%	332.5%	190.8%	336.8%	94.7%	33.7%	36.7%	37.9%	40.6%	43.6%	40	39	39	40	39	75%	3	17.4%	5.7%
Net Debt On Market Value	321.2%	291.7%	314.7%	238.2%	216.0%	37.1%	39.6%	37.5%	39.2%	39.2%	40	40	39	40	39	75%	3	12.7%	10.1%
ROIC	145.6%	178.8%	383.5%	296.8%	449.2%	44.3%	39.9%	35.7%	36.6%	35.8%	40	40	39	39	39	67%	5	7.8%	15.2%
ROIC 5 years	114.4%	246.1%	362.7%	236.5%	481.2%	44.6%	38.0%	36.5%	37.5%	35.8%	40	40	39	40	39	67%	5	6.6%	15.8%
Price Index 12 months	696.5%	378.4%	300.8%	195.3%	41.4%	34.2%	35.3%	35.7%	37.9%	49.6%	40	39	39	39	39	92%	4	18.9%	2.9%
Price Index 6 months	732.1%	357.2%	268.2%	192.7%	51.8%	35.6%	33.6%	36.8%	38.6%	48.0%	40	39	39	39	39	100%	3	19.3%	3.5%
MF Rank	256.3%	319.5%	260.1%	247.8%	309.0%	36.9%	38.8%	38.2%	39.0%	39.6%	40	40	39	40	39	67%	4	11.2%	12.5%
ERP5	600.9%	249.2%	434.2%	151.1%	113.0%	35.0%	36.5%	37.4%	41.4%	42.2%	40	40	39	40	39	92%	3	17.6%	6.5%

ERP5 Rank as primary factor

ABOUT THE AUTHORS

Phillip Vanstraceele



Philip Vanstraceele (born 1975) has a Master of Science degree in Applied Economics (University of Ghent). He is also Chief Investment Officer of the **Bissan Value Fund**.

You can contact Philip at: philip@quant-investing.com

Tim du Toit



Tim du Toit is (born 1967) has a MBA (Finance) degree from Indiana University in the USA. Tim is the editor and founder of the European value investing website **Eurosharelab** and publishes the investment newsletter **Quant Value**.

To find out more visit <u>www.eurosharelab.com</u> and <u>www.quant-value.com</u>.

You can contact Tim at: tdutoit@eurosharelab.com

© 2012 All rights reserved