

Best Practices in Hedging

Monitoring and Rebalancing Custom Hedge Baskets

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Monitoring your hedge

- I. Realized Performance
- II. Predicted Risk

2.

When to Rebalance your hedge (and portfolio)

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MONITORING OF YOUR HEDGE



Hedge Starting Point

Short Macy's, Build a Long Custom Hedge Basket on 2/28/2020

Total Risk		13.85%
Risk Decomposition	^	
Specific		91.40%
Factors		8.60%
Market		0.00%
Style	~	6.97%
Sector	~	1.63%

Hedge Monitoring Checklist

- Is my Investment Thesis producing Alpha Returns?
- ☐ Is my **Hedge Basket** effectively hedging my **Factor Returns**?
- ☐ Is the **Predicted Factor Risk** in my **Portfolio** at acceptable levels?
- ☐ Are the **Predicted Risks** associated with my **Investment Thesis** acceptable?
- ☐ Are the **Predicted Risks** associated with my **Hedge Basket** acceptable?
- ☐ Is the **Composition** of my **Hedge Basket** acceptable?

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Hedge Monitoring: Performance

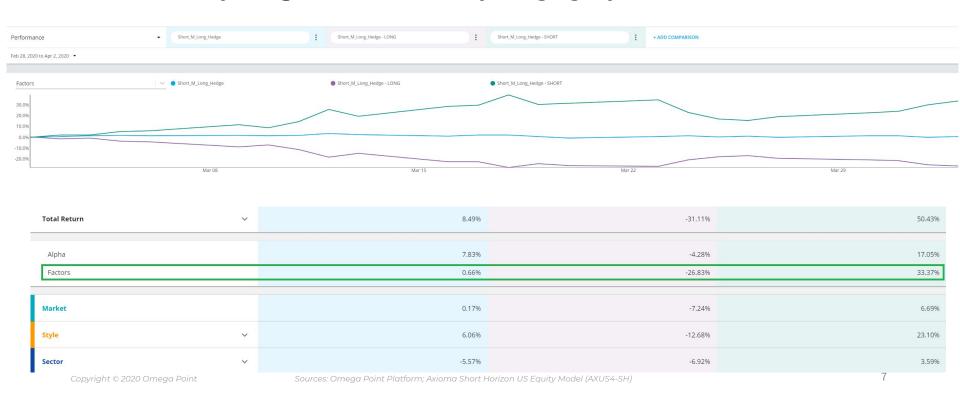
Is my **Investment Thesis** producing **Alpha Returns**?





Hedge Monitoring: Performance

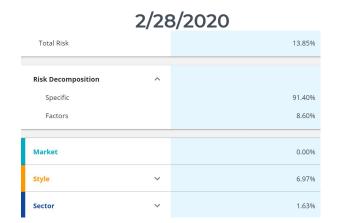
Is my **Hedge Basket** effectively hedging my **Factor Returns**?

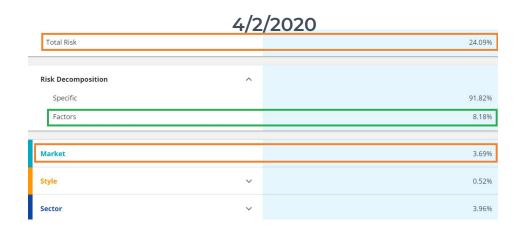




Hedge Monitoring: Predicted Risk

Is the **Factor Risk** in my Portfolio at acceptable levels?





But we do see some Market Exposure -we are now Net Long





Hedge Monitoring: Predicted Risk

Are the **Predicted Risks** associated with my **Investment Thesis** acceptable?

Predicted Risks of Macy's:

	2/28/2020	4/2/2020	
Total Risk	30.84%	73.87%	
Risk Decomposition			
Specific	6.86%	3.34%	
Factors	93.14%	96.66%	
Market	46.75%	43.13%	
Style	38.95%	42.40%	
Sector	7.43%	11.13%	



Hedge Monitoring: Predicted Risk

Are the **Predicted Risks** associated with my **Hedge Basket** acceptable?

Predicted Risk of Hedge Basket on Standalone Basis

	2/28/2020	4/2/2020
Total Risk	43.74%	105.56%
Risk Decomposition		
Specific	33.24%	23.28%
Factors	66.76%	76.72%
Market	26.16%	25.24%
Style	35.52%	46.41%
Sector	5.09%	5.08%



Hedge Monitoring: Composition

Is the **Composition** of my **Hedge Basket** acceptable?

Top 10 positions in Hedge Basket				
ID	Short_M_Long_Hedge - LONG ▼			
GPS	6.42			
KSS	4.66			
JWN	3.78			
DBI	3.14			
ANF	2.80			
AEO	2.31			
FL	2.13			
GES	2.02			
CONN	1.78			
PLCE	1.70			

All Positions	<u> </u>
ID	Short_M_Long_Hedge - LONG ▼
GPS	15.07
GME	8.46
W	7.29
ANF	6.07
CONN	4.74
AEO	4.54
KSS	4.45
BIG	4.19
QRTEA	4.19
FL	3.80

WHEN TO REBALANCE YOUR HEDGE



When to Rebalance: Systematic Framework

Expected Return

Risk

Transaction Costs

Expected Return

How much price appreciation is left?

Source: Analyst and PM

Undesired Factor Risk

How much can you reduce your Undesired Factor Value at Risk?

Source: Factor Risk Model

Cost to Rebalance

How much will it cost you to Execute your trades?

Source: Broker/borrow rates

Systematic Framework for Decision Making: Think in \$'s

E[R] - Value at Risk - Transaction Costs = Net Added Value by Trade

Net Value > 0 -> make the trade!



When to Rebalance: Factor Value at Risk



Increasing Risk

and

Increase in % Factor Risk

leads to:

Increase in \$ Factor VaR



When to Rebalance: Unhedged Example

Expected Return

Risk

Transaction Costs

- \$5M long position
- 50% Expected Return

- Monthly Risk of 18.8%
- 50% of Variance from Factors, 50% Specific

- 5 bps linear cost for buys/sells
- Negligible Market Impact

Expected Return	Risk			Transaction Costs		Total
Expected Return	Total Risk (monthly)	% Factor 95% Monthly Factor Risk VaR		5 bps Linear	50 bps Borrow Cost	Net Value
\$2,500,000	18.8%	50%	\$1,300,270	\$2,500	\$-	\$1,197,229



When to Rebalance: Hedged Example.

Expected Return

Risk

Transaction Costs

- \$5M long position
- 50% Expected Return of
- 0% Expected Return of Hedge

- Annualized Risk of Hedged portfolio = 30%
- 8% of Variance from Factors in Hedged Portfolio

- 5 bps linear cost for buys/sells
- Negligible Market Impact
- 50 bps Borrow Cost

Expected Return	Risk			Transaction Costs		Total
Expected Return	Total Risk (monthly)	% Factor 95% Monthly Factor Risk VaR		5 bps Linear	50 bps Borrow Cost	Net Value
\$2,500,000	8.7%	8%	\$480,100	\$5,000.00	\$25,000	\$1,989,900

When to Rebalance: Hedging adds Value

Expected Return

Risk

Transaction Costs

Expected Return Analytic		Risk			Transac	Total	
Analytic	Expected Return	Total Risk (monthly)	% Factor Risk	95% Monthly Factor VaR	5 bps Linear	50 bps Borrow Cost	Net Value
Asset Alone	\$2,500,000.00	18.8%	50%	\$1,300,271	\$2,500	\$-	\$1,197,229
Asset + Hedge	\$2,500,000.00	8.7%	8%	\$480,100	\$5,000	\$25,000	\$1,989,900

Adding the Hedge Provides \$792,670.82 of Extra Value

Net Value > 0 -> make the trade!



When to Rebalance: Types of Trades

Expected Return

Risk

Transaction Costs

High Conviction Trade

Increase in E[R] >> abs(Factor VaR) Increase in E[R] >> abs(TCosts)

All-Around Trade

Increase in E[R] Decrease in Factor VaR Minimal TCosts

Short Availability Decrease

Increase in Borrow Costs >> Increase in E[R]

Hedge Trade

E[R] ~ 0

Decrease in Factor VaR >> TCosts



When to Rebalance: Define your Aversion

Expected Return

Risk

Transaction Costs

Expected Return

Undesired Factor Risk

Undesired Factor Value at Risk?

Source: Factor Risk Model

Cost to Rebalance

How much will it cost you to Execute your trades?

Source: Broker/borrow rates

E[R]

- < VaR aversion > * Value at Risk
- <Trade aversion> * Transaction Costs = Net Value

Pulling this all together for an Intuitive Workflow....

Upcoming Webinar

Join us next week for the final webinar in our 4-Part Best Practices in Hedging Series:

Single Stock Hedging using SmartTrades™

Apply the lessons of Parts 1 - 3 to build, monitor, and rebalance your own SmartTrades™ in the Omega Point platform.

Registration Link



Email: sales@ompnt.com

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FACTOR SPOTLIGHT

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