

## *What are the advantages using Algo*

- Deeper data base
- Wider market access
- Less error (strong views, typing errors, etc)
- Time-saving (much less keypads such as orders release/cancel, calculation etc)
- To enlarge the application of DMA

## How Algo works -- BENCHMARK + PARAMETERS

- **Benchmark – the target (sort of dealing instruction)**

**VWAP (over the day)**

**LOB**

**MOC or MOO**

**High-low day or Low-high day**

**In line with market volumes**

- **Parameter – to control the algo behaviors vs the benchmark**

**Sensitivities to price movements**

**Deviation from the profile**

## Example

-- CD over the day  
more reasonable reference from 20-days average



## Example

-- In line with market volumes

Algo may que at several price at same price with proper participation ratio

(5 HK) HSBC HOLDINGS PLC - Ptf : BNPPP CASH BOOK - BasketId : 400002780 [max]

Action Market Actions Options Layout

5 HK

Buy Sell

Investor Id - Quantity 0 OrderType Limit Price 117.3

Board Lot

B/S	Q	Rm Q	Price	Status	Q. Ask	P. Ask	Last date	Broker

Status	position	Price	position	Status
		118.1000		
		117.6000	120,400 (0)	
		117.5000	502,000 (0)	
		117.4000	68,000 (0)	
		117.3000	67,600 (0)	
		117.2000	36,000 (0)	
	(0) 27,200	117.1000		
	(0) 52,800	117.0000		
	(0) 11,200	116.9000		
	(0) 5,200	116.8000		
	(0) 16,400	116.7000		

Price	Qty
117.20...	6,000
117.20...	3,200
117.20...	6,800
117.20...	8,800
117.30...	400
117.30...	36,800
117.40...	400

Execution Date	Action	Quantity	Value	Deal

Center

## **Conclusion**

**Algorithm trading will be a powerful tools but NOT a total solution**

- **Few common disadvantages --**

**Quantitative analysis may figure the “Fair value”, but, most of time, market is trading above or below “Fair value”**

**Lacking of proper price-judgments or flexibilities**

**The pattern could be figures out (esp for illiquid names)**

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