MOSCOW EXCHANGE

Moscow 2020
Derivatives Market

«ICEBERG» orders

Description, the objectives of launch

Iceberg order is a simple limited order, in which the total number of contracts and their "visible" number are stipulated.
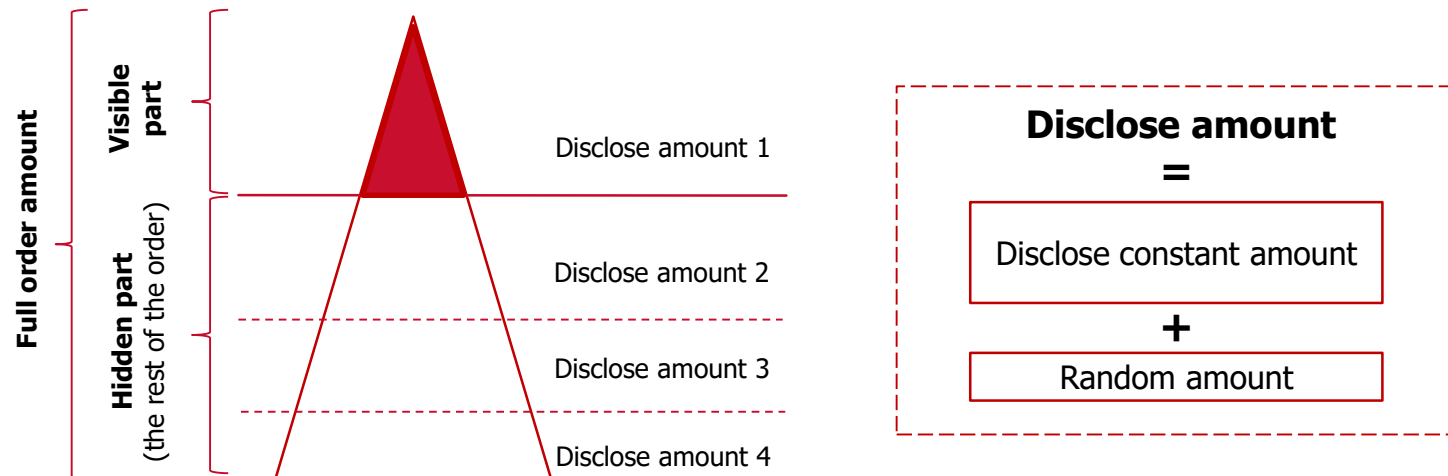
Iceberg order enables to conceal a certain part of its amount from the market (in the orderbook) in order **to minimize the impact of relatively large orders on the market price.**

When submitting an Iceberg order the client sets the full amount of order and the **disclose constant amount** (visible part). When the disclose amount is settled on the market, the next part emerges. It gets in the end of the line at the same price level.

The Initial Margin is blocked for the full amount of the order.
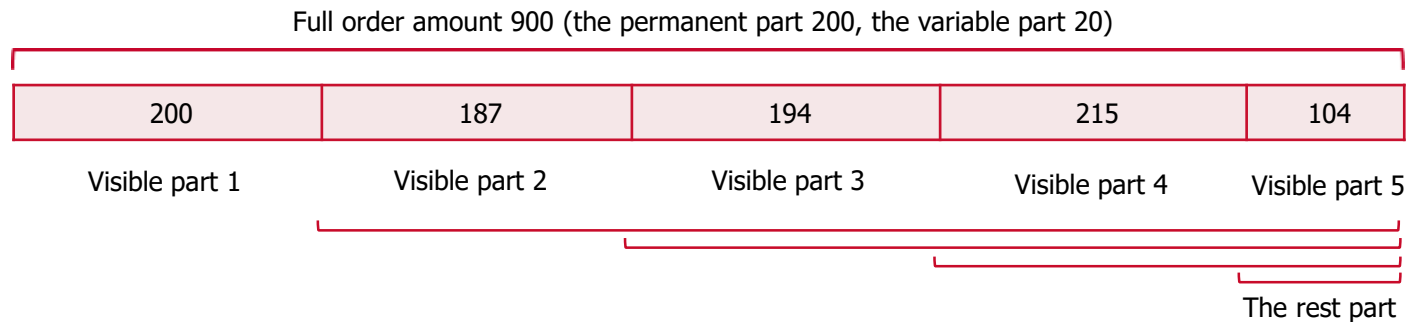

Disclose amount 1

Disclose amount 2

Disclose amount 3

Disclose amount 4

Full order amount

Visible part

Hidden part (the rest of the order)

Disclose amount
=

Disclose constant amount

+

Random amount

Iceberg order parameters

In addition the client indicates in the order parameters the following:

Order subtype	Iceberg
Full order amount FullAmount	Total number of contracts
The amount of the constant disclose (visible) amount or the percentage of the full order amount DiscloseConstAmount or DiscloseConstAmount%	The visible part volume. No less than the minimum available (for that underlying asset) order amount (MinAmount) and no more than the full order amount. DiscloseConstAmount = Round(FullAmount* DiscloseConstAmount%/100, 0) MinAmount <= DiscloseConstAmount <= FullAmount
The deviation amplitude for random disclose amount in percentage VarianceAmount or VarianceAmount%	The random amount for a disclose part – the random variable with equal distribution from the range: VarianceAmount = Round(DiscloseConstAmount* VarianceAmount%/100, 0) DiscloseRandomAmount = [-VarianceAmount; VarianceAmount] 0 <= VarianceAmount% <= VarianceLimit%, where VarianceLimit% is a given parameter. By default VarianceAmount% = 0%, i.e. no random amount.

Iceberg order settlement algorithm

An iceberg order is settled in several stages, as long as the rest part of the order (the "hidden" part) is larger than the disclose part:

Full order amount 900 (the permanent part 200, the variable part 20)

200	187	194	215	104

Visible part 1   Visible part 2   Visible part 3   Visible part 4   Visible part 5

The rest part

The disclose amount at step *i* — the smaller of:

- The sum of the disclose constant amount (set at the placement of an Iceberg order) and random amount (defined independently at each step, by default = 0);

- The rest of an Iceberg order after (i − 1) stages of an Iceberg order execution.

> **DiscloseAmount$_i$ = Min (DiscloseConstAmount + DiscloseRandomAmount$_i$; «the rest part»)**,
>
> where «the rest part» = FullAmount - $\sum_{m}^{i-1}$DiscloseAmount$_m$,
>
> Wherein for i = 1: $\sum_{m}^{i-1}$DiscloseAmount$_m$ = 0, «the rest part» = FullAmount

The display of amount

In the gateway

Field	Description
public_amount	The amount of a disclose part in transaction
public_amount_rest	The amount of a disclose part that was not settled
private_amount	Iceberg amount in transaction
private_amount_rest	Full amount of Iceberg that was not settled

New fields
(are visible only in private transactions)

In the terminal

private_amount_rest public_amount_rest   public_amount_rest private_amount_rest

Private bids: hidden	Private bids	Buy: amount	Price	Sell: amount	Private asks	Private asks: hidden
			118 490			
				182		
			118 480			
				58		
			118 470			
				77		
			118 460			
				50		
			118 450			
				43		
			118 440			
				66		
			118 430		**100**	**900**
				164		
			118 420			
				47		
		4	118 410			
		123	118 400			
		105	118 390			
		59	118 380			
		149	118 370			
		60	118 360			
		67	118 350			
		78	118 340			

Order identifiers

New fields

	public_order_id	public_amount	public_amount_rest	Public_action	price	dir	private_order_id	private_amount	private_amount_rest	private_action	client_code	comment
1. Iceberg order placement	**100**	50	50	1	312	1	100	400	400	1	OD01123	iceberg
	101	10	10	1	312	1	10	10	10	1	PJ99888	
	102	80	80	1	310	2	250	80	80	1	FS01020	
2. Matching of the 1st visible part	**100**	50	0	2	312	1	100	50	350	2	OD01123	iceberg
	102	50	30	2	310	2	103	50	30	2	FS01020	
	101	1	0	2	312	1	101	1	0	2	PJ99888	
	102	1	29	2	310	2	103	1	29	2	FS01020	
3. Emerging of the 2nd visible part	**103**	50	50	1	312	1	100	50	350	3	OD01123	iceberg
4. Matching of the 2nd visible part	**103**	29	21	2	312	1	100	29	321	2	OD01123	iceberg
	102	29	0	2	310	2	103	29	0	2	FS01020	
5. Iceberg order cancellation	**103**	21	0	0	312	1	100	321	0	0	OD01123	iceberg

Cancel and *move* transactions for Iceberg order

The prices for each leg of the Calendar Spread are in the transaction table:

Cancel removal	by **public_order_id**	**the whole Iceberg** is cancelled (both visible and hidden parts)	Error – when the disclose part is already settled (even if the whole Iceberg is not settled)
	by **private_order_id**	**the whole Iceberg** is cancelled (both visible and hidden parts)	Error – when the whole Iceberg is settled
Move change (only by price)	by **public_order_id**	**the whole Iceberg** changes (both visible and hidden parts)	Error – when the disclose part is already settled (even if the whole Iceberg is not settled)
	by **private_order_id**	**the whole Iceberg** changes (both visible and hidden parts)	Error – when the whole Iceberg is settled

The minimum disclose part volume

- Iceberg order is available for all instruments and for all Clients
- The exchange fee for Iceberg orders is calculated for each transaction considering the scalping discount (as for a simple order)
- MOEX sets the minimum amount of an Iceberg disclose part

Basic asset	Type of instrument	The minimum amount of a disclose part (in contracts)
Si	F	500
RTS	F	150
BR	F	300
SBRF	F	250
ED	F	400
Eu	F	200
GAZR	F	250
GOLD	F	200
*	*	100

*If the basic asset and/or type of instrument are not stipulated in the table, then the value of * is applied*

Trading terminal interface (demo-version)

Current interface

When you click on the button opposite *Disclose*, the record *"Qty"* changes into *"%"*. The *Disclose* field is accordingly taken as a percentage of the *"Quantity"* (or *FullAmount*).

Reports

- The fields *<private_amount>, <private_amount_rest>* and *<private_id_ord>* are added to the reports *fordlog, oordlog* , as well as the corresponding bit – to the field *<xstatus>*. New fields are filled up only for Iceberg orders.

- The field *<private_amount>* is added to the report *errlog* , as well as the corresponding bit – to the field *<xstatus>*. New fields are filled up only for Iceberg orders.

Thank you for your attention!

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