



**GLASSWORKS  
HOUNSELL**



## > OSCILLATING BATCH CHARGER (OBC)

### FEATURES:

- > Suitable for all types of glass
- > Suitable for all types of furnace
- > Robust manufacture for longer life
- > High grade mild or stainless steel fabrication
- > Surface introduction for reduced dusting
- > Fully programmable with MCS integration
- > Full distribution control
- > Helps seal the doghouse for energy efficiency

Glassworks Hounsell offer five types of OBC; Entry, Intermediary, Mark III, Mark IV and Mark V.

We were the first to apply an OBC to an end fired furnace with more than 1,100 units supplied worldwide and continuous production since 1968.

Quality is paramount with all parts manufactured in the United Kingdom to ISO2001/2015 (traced to 1977).

The OBC is suitable for all sizes and types of furnace doghouse. As precision engineers we are able to completely customise the equipment to suit your exact requirements.

SPECIFICATION SHEET



PRECISION BRITISH ENGINEERING

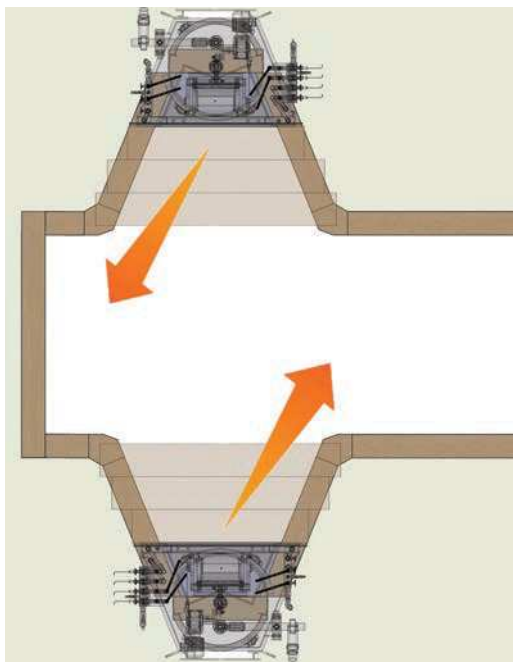


## > SPECIFICATIONS

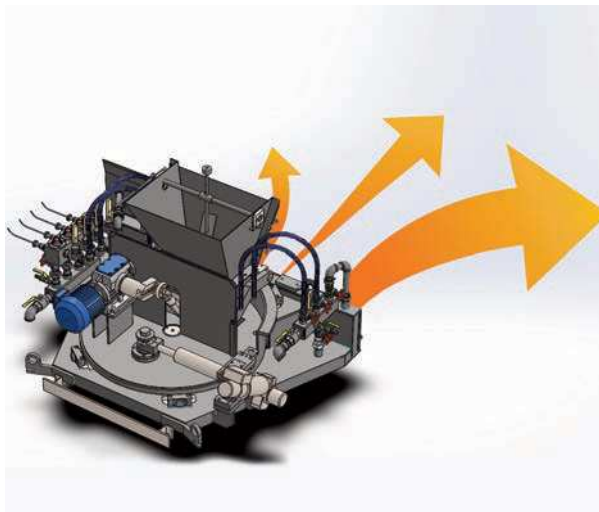
RANGE/MODEL	5 types – Entry, Intermediary, Mark III, Mark IV and Mark V
SIZE (width of pusher arm)	7 sizes of each model – 300, 400, 500, 600, 650, 750 and 900mm
APPLICATIONS	ALL TYPES of fuel fired – Including MIXED & UNIT melters, from 40 – 850 tpd (float) GLASS TYPES; Container, flat, roller plate, fibre, sodium silicate and borosilicate
PUSHER DEPTH	Normally 75 or 100mm but can be customised to suit
DOGHOUSE TYPE	Short or long (up to 2m)
OSCILLATING ANGLE	Up to 44° but can be customised to suit.
STOPPING POSITIONS	Normally 3 or 5 positions but can be customised to suit.
DWELL (at each position)	Independently variable (time delay or stroke counter)
FEED SYSTEMS	Flood, vibrator, batch wetter or conveyor
PUSHER DRIVE	Standard is AC Geared motor but varying drive customisations are available
OSCILLATION DRIVE	Standard oscillation drives are Linear Actuators or Rotary Motors but varying drive customisations are available
GLASS LEVEL CONTROL (With 4–20mA or 0–10mv signal)	Either <b>pusher speed</b> (via inverter) or <b>feed system</b> , batch level in hopper via a pendulum switch
CONTROL & MEASUREMENT	Programmable control (independent or linked) with a Tough screen PLC interface with FCS/MCS Both showing: > Pusher speed/inlet and outlet temperature > Timers or stroke counters for each position > Oscillation alarm

OPTIONAL FEATURES	> <b>Splitable</b> machine to avoid thermal shock	> Fully electronic adjustment (to allow remote set- up)
	> Dust tight & tropicalisation measures	> Digitisation
	> Hardox coating of key areas	> Safety Fence or Cage (isolated)
	> Complete stainless steel manufacture	> Mounting gurney
	> Customer choice of electrical components	> Isolated water system

### > CROSS FIRE



### > OBC VELOCITY AND DIRECTION



> Note: The machines are interchangeable with other manufacturer's equipment and the electrical control suitably modified.



## > SPECIFICATIONS

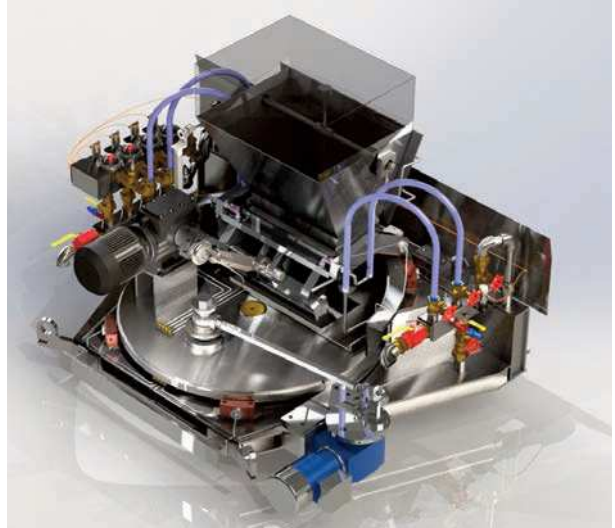
The OBC output (tpd) is a factor of the charger settings, the doghouse and feed system design as well as the physical and chemical properties of the raw material composition. Glassworks offer

consultancy for doghouse and installation design for your relevant material and offer the appropriate solution for your requirements to optimise quality, efficiency and return on investment.

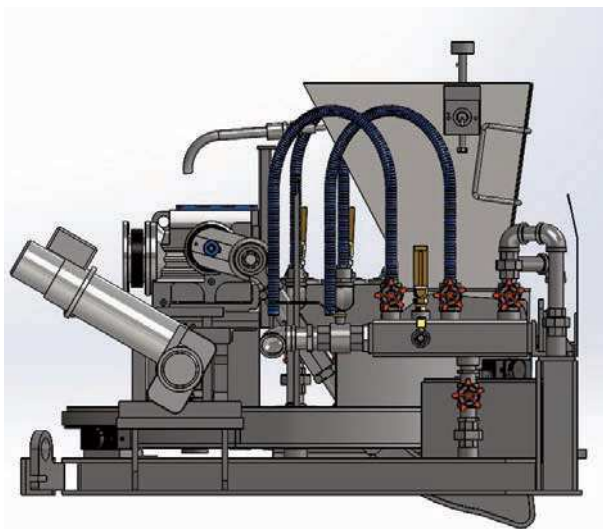
### > MARK III



### > ROTARY



### > INLET VIEW



PRECISION **BRITISH** ENGINEERING

### > OBC TROLLEY

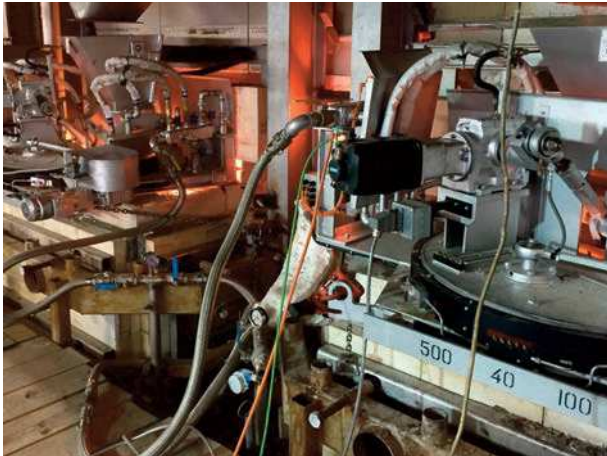


### > EASIER MAINTENANCE



## > OPTIONAL EXTRA

### > TWIN SERVO



### > DRIVE OPTIONS

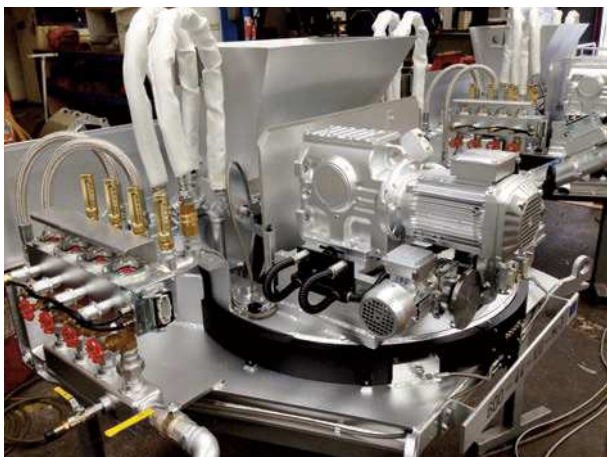
The set-up of standard variable speed pusher drive can be evolved using a motorised sliding base plate or substituted to use an encoder or servo motor. These options permit varying levels of electronic adjustment which can be carried out on a touch screen – some preprogrammed and when the charger is in operation.

- > Pusher stroke/ aperture.
- > Pusher speed.
- > Pusher dwell time in forward position.
- > Pusher opening relative to hopper discharge opening.

The glass level is controlled as per a conventional machine i.e. by the swept volume (displacement) of material. This can be continuous or intermittent from the 4-20mA signal.

More sophisticated oscillation options are available on request to allow greater control for improved manipulation of batch distribution.

### > SLIDING BASE PLATE



### > TRAINING & COMMISSIONING



With these capabilities, the size of the batch piles and their distribution can be easily adjusted and thus contribute to improved furnace efficiency/ longevity.

Existing (direct drive) Glasswork's chargers can easily be retrofitted with the Servo Drive System (new Control Panel is required) and a demonstration machine is permanently on show at Glassworks Hounsell. Training courses in respect to the software operation are available.

\*Note: A Servo Drive Charger is not suitable for all furnaces, please contact us.



Glassworks Hounsell Ltd  
Park Lane,  
Halesowen,  
West Midlands B63 2QS

Tel: +44 (0) 01384 560666  
sales@glassworkshounsell.co.uk

glassworkshounsell.co.uk  
glassworksenineering.co.uk  
glassworksequipment.co.uk