

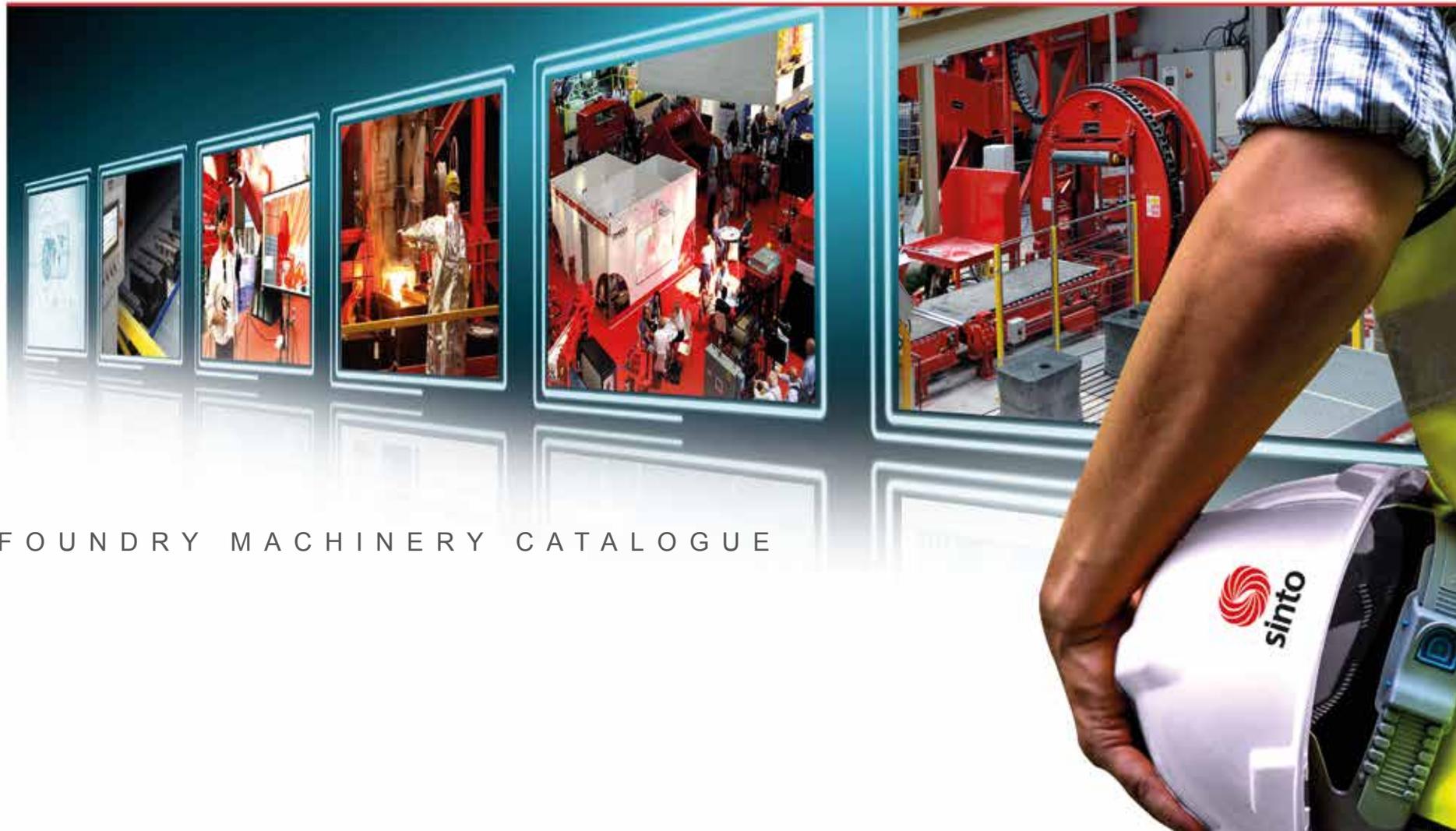


New Harmony >> New Solutions™

www.ofml.net



Omega Sinto Foundry Machinery Ltd



FOUNDRY MACHINERY CATALOGUE

WORLDWIDE PRESENCE

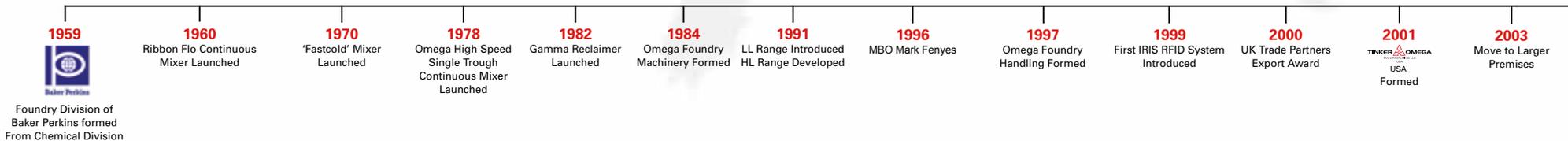


Originally founded in 1984, Omega Sinto is the worldwide leading manufacturer of foundry equipment for the chemically-bonded sand processes.

We are committed to our vision of innovation, continual improvement and performance, to become the preferred supplier of chemically bonded sand equipment worldwide.



● Manufacturing Bases

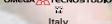




Representation Offices

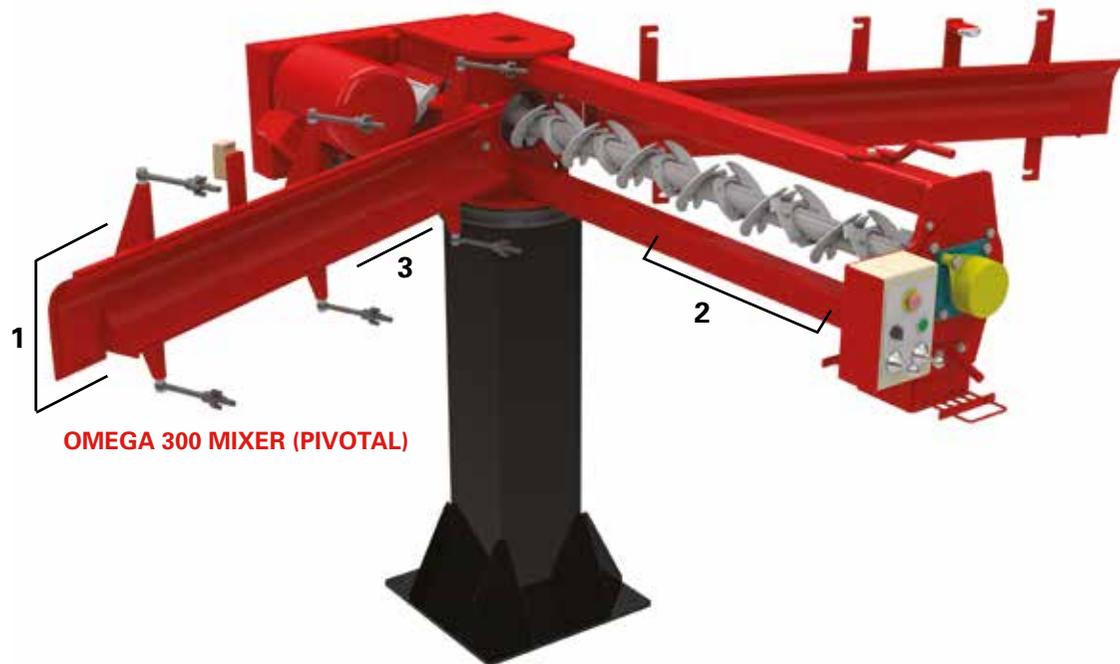
- 2007**
- Spartan III Developed

Queen's Award For Export
- 2008**
- 
Purchase of Richards & Fordath
- 2009**
- 
India Formed
- 2012**
- Business Person of the Year Awarded to Mark Fenyes
- 2013**
- 
Australia Formed
ISO9001 Achieved
- 2014**
- 
Malaysia Formed

Omega Connect Launched
Spartan IV Launched
- 2015**
- 
South Africa Formed

Italy Formed
- 2016**
- 
China Office Opened
First Double Station Automatic Mould Closer
- 2017**
- Exporter of the Year Awarded to Omega Foundry Machinery Ltd
- 2018**
- 
Sinto Formed
Strategic Partnership with Omega
- 2019**
- Omega Sane Move to New Premises
Endeco Omega Move to New Premises
- 2023**
- First Mould Stacking System

SAND MIXING

Omega 300 Series



OMEGA 300 MIXER (PIVOTAL)



3 AIR ASSIST

- Individually adjustable pressures
- Keeps inlet nozzles clean
- Helps to atomise the chemicals
- Fitted with 3-way calibration valve

OPTIONS



OMEGA 300 SERIES (SCREW ARTICULATED)



OMEGA 300 SERIES (BELT ARTICULATED)



1 EASY OPENING DOOR

- Heavy duty design
- Good access for maintenance and cleaning
- Safety key protected



2 HALF MOON BLADE

- Full set of tungsten carbide tipped blades
- Easy bolt-on design
- Variable 'Hold-Back' blades

Omega 300 Series Pivotal Mixer

Model	Throughput (TPH)	Reach (mm)
303P	3	680
305P	5	1515
310P	10	1690
320P	20	1965
335P	35	2040
345P	45	2320
360P	60	2605

Omega 300 Series Articulated Mixer

Model	Throughput (TPH)	Reach (mm)*
310A	10	4690
320A	20	4965
335A	35	5040
345A	45	5340
360A	60	8605

* 3 Metre Screw Arm (6 Metre for 360A)

Omega 300 Series Belt Articulated Mixer

Model	Throughput (TPH)	Reach (mm)*
310AB	10	4690
320AB	20	4965
335AB	35	5040
345AB	45	5340
360AB	60	8605

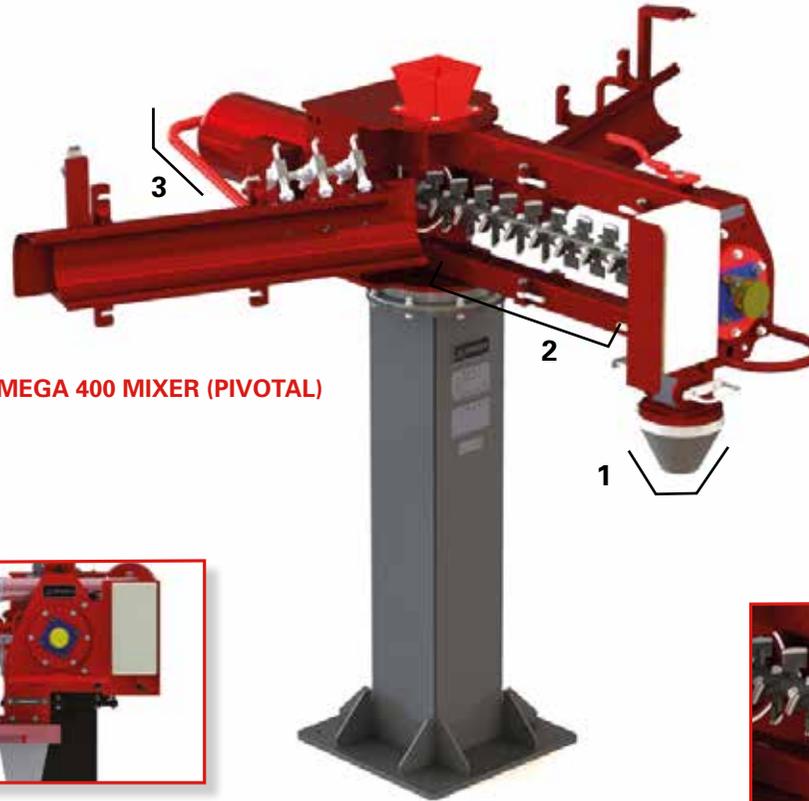
* 3 Metre Belt Arm (6 Metre for 360AB)



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SAND MIXING

Omega 400 Series



OMEGA 400 MIXER (PIVOTAL)

OPTIONS

OMEGA 400 (SCREW ARTICULATED)

OMEGA 400 (BELT ARTICULATED)



- 3 DIRECT DRIVE**
- Variable speed direct drive
 - Low maintenance
 - Ultra-high speed mixing



- 2 REVERSIBLE 'TURBO' BLADE**
- Tungsten tipped on both sides for extended life
 - Easy change

- 1 OFFSET DISCHARGE**
- Allows smooth discharge of sand improves flowability of sand onto pattern
 - Integrated 'fumematic' as option

Omega 400 Series Pivotal Mixer		
Model	Throughput (TPH)	Reach (mm)
403P	3	680
405P	5	1060
410P	10	1200
420P	20	1450
435P	35	2060
445P	45	2150
460P	60	2650
4100P	100	2730

Omega 400 Series Screw Articulated Mixer		
Model	Throughput (TPH)	Reach (mm)*
410A	10	4200
420A	20	4450
435A	35	5060
445A	45	5150
460A	60	8650
4100A	100	8730

Omega 400 Series Belt Articulated Mixer		
Model	Throughput (TPH)	Reach (mm)*
410AB	10	4200
420AB	20	4450
435AB	35	5060
445AB	45	5150
460AB	60	8650
4100AB	100	8730

* 3 Metre Screw Arm (6 Metre for 460A & 4100A)

* 3 Metre Belt Arm (6 Metre for 460AB & 4100AB)

SPECIALITY MIXERS

Extended Mobility, Reach and Coverage



PORTABLE MIXER

For mixing speciality sands in different locations



3 ARM MOBILE MIXER

For large pit moulding with extended reach and coverage



DOUBLE TROUGH MIXER

For 'Facing' and 'Backing' applications with chromite and silica sand



3 ARM MIXER & VARIABLE HEIGHT

For extended reach, coverage and varying mould box height

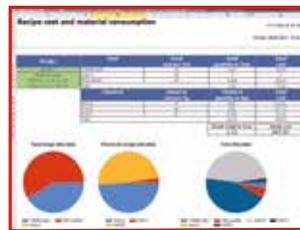


VARIABLE HEIGHT MIXERS

To reduce the need for moulding pits

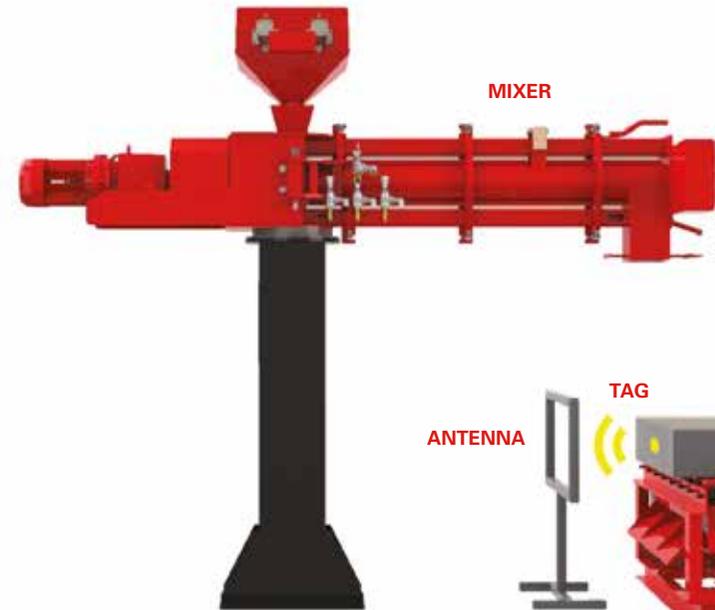
IRIS PATTERN RECOGNITION

Automatic Control of Sand, Chemical and Vibration Recipes using RFID Technology



MATERIAL USAGE SCREEN

CONTROL PANEL WITH INDUSTRIAL PC



MIXER

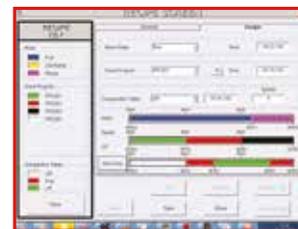
ANTENNA

TAG



PATTERN BOX

COMPACTION TABLE



RECIPE SCREEN



PRODUCTION SCREEN SHOWING JOB CARD

FEATURES

- Auto Teach for easy programming
- Clear and easy operation
- Job card integration into each recipe
- Detailed reports including:
 - Material consumption
 - Material costs
 - Production quantities
 - Production costs
- Remote PC access to reports
- Production Control
- Password security
- Alarm diagnostics
- Remote link to Omega Sinto HQ for full support
- IRIS tag is embedded into the pattern
- Each pattern has its own recipe
- Once programmed the mixer and compaction table deliver recipe automatically

PERFORMANCE

- Increased production
- Reduced material consumption up to 20%
- Improved consistency/quality
- De-skilled operation

MOULD HANDLING

Omega Carousel





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MOULD HANDLING

Omega Carousel

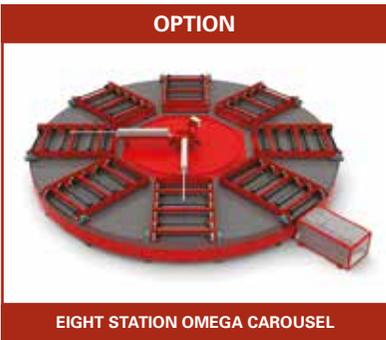
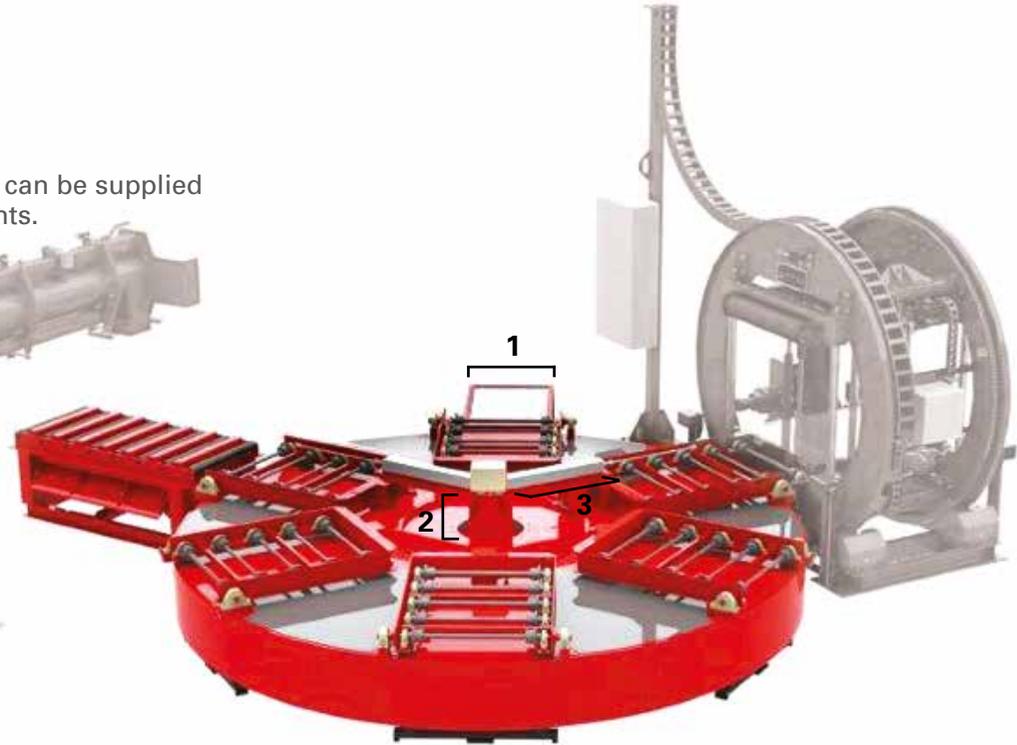
For efficient use of space and an alternative to a fast loop. Omega Carousels can be supplied for stand alone applications or integrated into semi-automatic moulding plants.



1

DRIVE

- Peripheral friction drive
- Auto adjusts to rim of carousel
- Low maintenance



OPTION

EIGHT STATION OMEGA CAROUSEL



2

ENCODER

- Accurate positioning of each station
- Low maintenance
- Easy set-up



3

PUSH/LIFT CYLINDER

- Effortless pattern ejection between carousel, rollover and compaction table
- Smooth transition

Omega Carousel Size	MAX MOULD SIZE		1/2 MOULD SIZE	DIAMETER	
	Length (mm)	Width (mm)	Depth (mm)	6 Station (mm)	8 Station (mm)
2	1000	800	275	3875	4500
3	1200	1000	355	4650	5500
4	1600	1200	440	5590	6040
5.5	2000	1600	550	7500	N/A

MOULD HANDLING

Omega Fast - Loop System



MOULD HANDLING

Omega Fast - Loop System

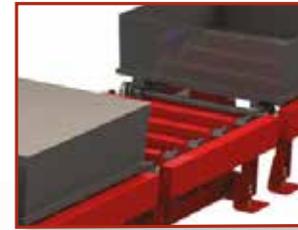
For production of moulds with varying fill times.



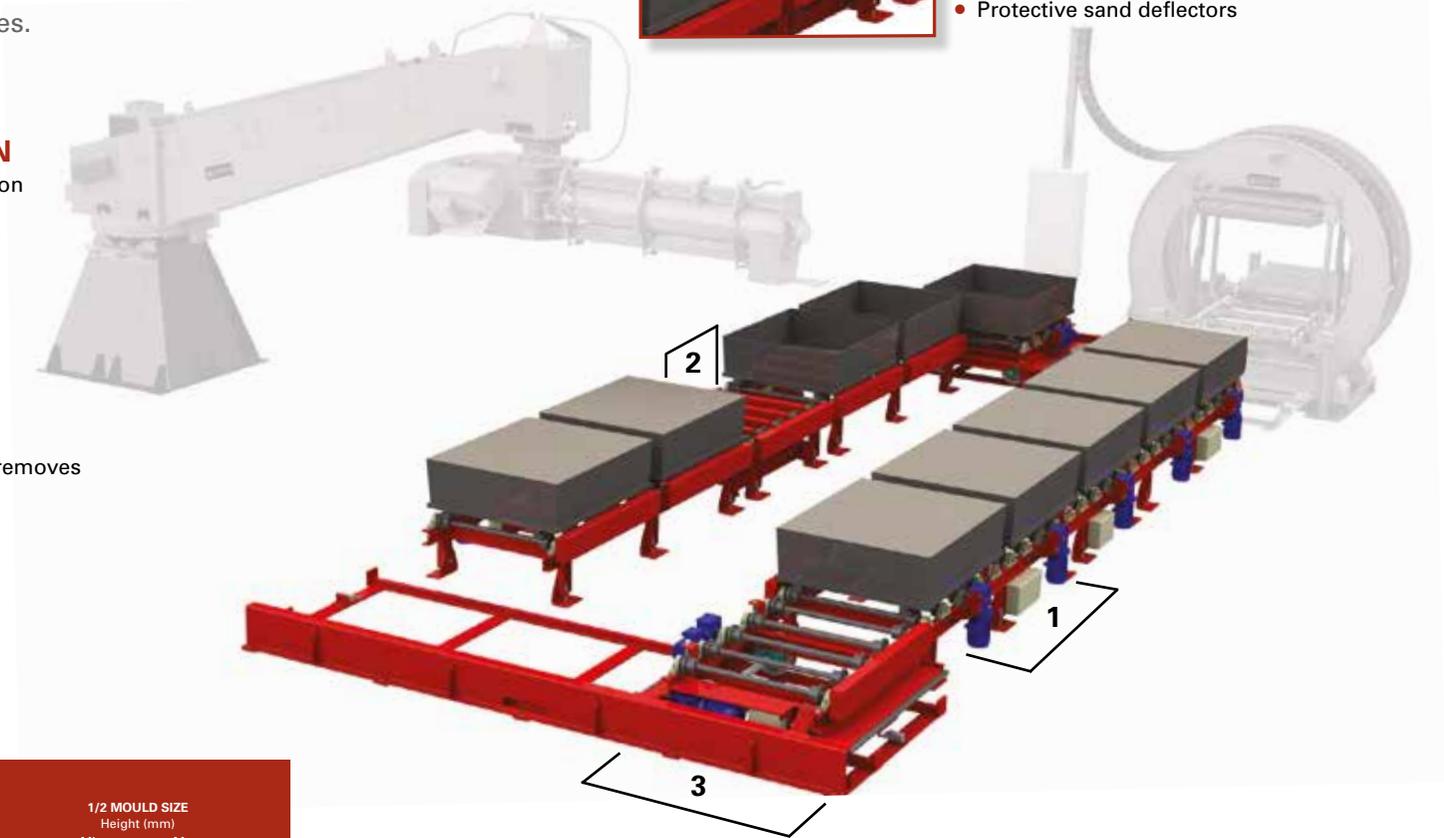
- 1 MODULAR DESIGN**
- Allows easy configuration for customers' needs



- OPTION**
- Automatically removes excess sand



- 2 INTEGRATED COMPACTION TABLE**
- Variable frequency
 - Powered movement
 - Protective sand deflectors



- 3 POWERED TRANSFER CAR**
- Electrical driven movement with variable speed control
 - Safety bump strips for protection

Omega Fast-Loop System

Size	MOULD SIZE Length (mm)		MOULD SIZE Width (mm)		1/2 MOULD SIZE Height (mm)	
	Min	Max	Min	Max	Min	Max
2	780	1000	380	800	80	275
3	865	1200	550	1000	80	350
4	880	1600	790	1200	120	440
5	950	2000	800	1400	120	500
5.5	990	2200	850	1600	120	550
6	1150	2500	900	1800	190	690
7	1780	3200	1250	2000	250	740
8	1980	3400	1450	2200	250	850
9	2080	3500	1650	2500	250	880

MOULD HANDLING

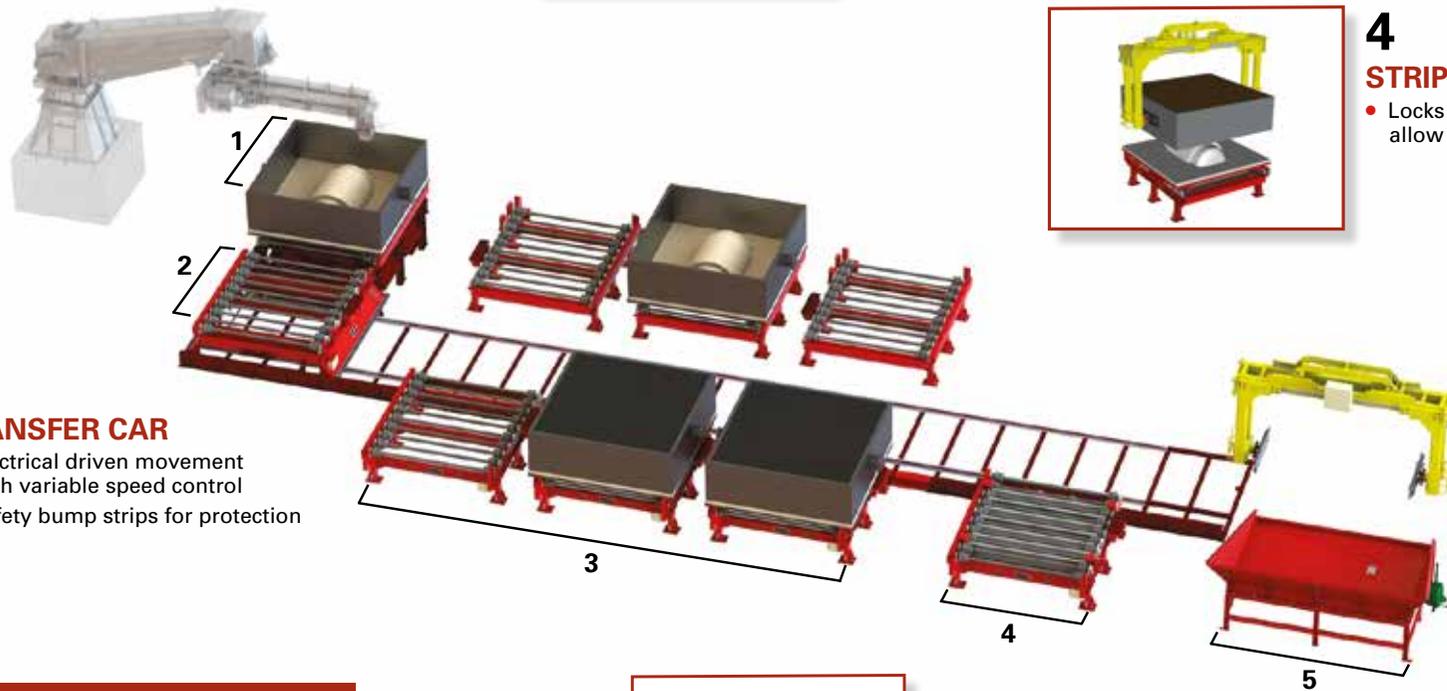
Omega Shuttle System



MOULD HANDLING

Omega Shuttle System

For automated production of large boxed moulds with varying fill times. Common manipulator for stripping and coating.



1 COMPACTION TABLE

- Variable frequency
- Fully powered movement
- Protective sand deflector



4 STRIPPING STATION

- Locks mould into place to allow vertical stripping



2 TRANSFER CAR

- Electrical driven movement with variable speed control
- Safety bump strips for protection



3 MODULAR DESIGN

- Allows easy configuration for customers' needs



5 COATING STATION

- Alcohol or water based

Shuttle Size	MOULD SIZE Length (mm)		MOULD SIZE Width (mm)	
	Min	Max	Min	Max
4	880	1600	790	1200
5	950	2000	800	1400
5.5	990	2200	850	1600
6	1150	2500	900	1800
7	1780	3200	1250	2000
8	1980	3400	1450	2200
9	2080	3500	1650	2500
9.5	2000	3000	2000	3000
10	2500	3500	2500	3500

MOULD HANDLING

Omega Compaction Tables



1

VIBRATORY MOTORS

- Low amplitude, variable frequency vibration
- 2 x contra-rotating vibrator motors for vertical vibration
- Variable weight settings



2

DEFLECTOR

- Deflects sand spillage
- Protects motors and air spring
- Easy clean



3

POWERED OR NON POWERED ROLLERS

- Suitable for auto or manual applications

Size	MAX MOULD SIZE		Max. Load (kg)
	Length (mm)	Width (mm)	
2	1000	800	955
3	1200	1000	1280
4	1600	1200	2700
5	2000	1400	4755
5.5	2200	1600	5000
6	2500	1800	7500
7	3200	2000	7500
8	3400	2200	10000
9	3500	2500	20000
9.5	3000	3000	20000
10	3500	3500	25000



STATIC STYLE TABLE

MOULD HANDLING

Omega Rollover

OPTIONS



SPECIALITY ROLLOVER
Up to 7M mould length



C-TYPE
For 90 degrees ejection of the mould



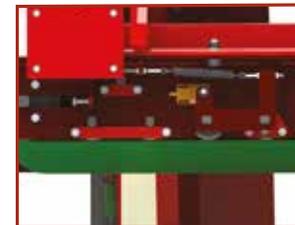
1 VIBRATOR ASSIST

- Variable vibration to assist with mould stripping



2 HYDRAULIC DRIVEN ROTATION

- Smooth and precise rotation
- Low maintenance
- Encoder positioning



3 PROOF OF DRAW SENSORS

- Multiple 'Proof-of-Draw' sensors to detect mould strip
- Detects multiple moulds in common frame
- Variable sensitivity

Rollover Size	MOULD SIZE Length (mm)		MOULD SIZE Width (mm)		1/2 MOULD SIZE Height (mm)	
	Min	Max	Min	Max	Min	Max
2	780	1000	380	800	80	275
3	865	1200	550	1000	80	350
4	880	1600	790	1200	120	440
5	950	2000	800	1400	120	500
5.5	990	2200	850	1600	120	550
6	1150	2500	900	1800	190	690
7	1780	3200	1250	2000	250	740
8	1980	3400	1450	2200	250	850
9	2080	3500	1650	2500	250	880

MOULD HANDLING

Flood Coating

Omega offers semi-auto or manual flood coating units.



Flood Coating Size	MOULD SIZE Length (mm)		MOULD SIZE Width (mm)		1/2 MOULD SIZE Height (mm)	
	Min	Max	Min	Max	Min	Max
2	780	1000	380	800	80	275
3	865	1200	550	1000	80	350
4	880	1600	790	1200	120	440
5	950	2000	800	1400	120	500
5.5	990	2200	850	1600	120	550
6	1150	2500	900	1800	190	690
7	1780	3200	1250	2000	250	740
8	1980	3400	1450	2200	250	850
9	2080	3500	1650	2500	250	880

In-line tilt flood coaters are available for sizes up to 5.5 and In-line rollover flood coaters are available for sizes 6 and over.



MOULD HANDLING

Mould Drying



FLAME OFF STATION
For alcohol based coating



INFRA-RED PRE-DRIER
For surface curing of the mould before coating



CONVECTION TUNNEL DRIER
For water based coatings

MOULD HANDLING

Mould Manipulators



PNEUMATIC /ELECTRIC 'A' FRAME
For smaller boxless moulds



HYDRAULIC 'A' FRAME
For medium boxed or boxless moulds



HYDRAULIC BEAM MANIPULATOR
For larger boxed or boxless moulds



CHAIN MANIPULATOR
For large boxed moulds, sizes on application

Pneumatic 'A' Frame Manipulators

Model	Max. Load (kg)	Max. Clamp (mm)	Min. Clamp (mm)	Max. Swing Radius (mm)
P350	350	685	360	325
P1000	1000	1390	440	625

Electric 'A' Frame Manipulators

Model	Max. Load (kg)	Max. Clamp (mm)	Min. Clamp (mm)	Max. Swing Radius (mm)
E1000R	1000	1300	400	800
E1250R	1250	1865	540	850

Hydraulic 'A' Frame Manipulators

Model	Max. Load (kg)	Max. Clamp (mm)	Min. Clamp (mm)	Max. Swing Radius (mm)
H2000	2000	1500	550	1100
H3000	3000	1945	675	1200
H4000	4000	2475	955	1500

Hydraulic Beam Manipulators

Model	Max. Load (kg)	Max. Clamp (mm)	Min. Clamp (mm)	Max. Swing Radius (mm)
B1500	1500	1500	750	800
B3000	3000	2040	840	800
B5000	5000	2220	1020	1175
B7500	7500	3425	1150	1465
B10000	10000	3425	1250	1465
B15000	15000	3525	1365	1465
B20000	20000	4450	2450	2000

Chain Manipulators

Model	Max. Load (kg)	Distance Between Pulleys		Chain Length (mm)
		Max. (mm)	Min. (mm)	
C1500	1500	1500	750	5000
C3000	3000	2040	840	5500
C5000	5000	2220	1020	6000
C7500	7500	3425	1150	7500
C10000	10000	3425	1250	8000
C15000	15000	3525	1365	9500
C20000	20000	4450	2450	12000

MOULD HANDLING

Omega Autocloser

Automatic mould closing from size 5 upwards. The unit is capable of closing boxless moulds of varying sizes fully automatically.



Step 1 - Drag half is centred on the 'x' axis



Step 2 - Drag half is centred on the 'y' axis, lifted and placed onto the casting pallet



Step 3 - Cope half is centred on the 'x' axis



Step 4 - Cope half is centred on the 'y' axis, lifted and rotated through 180 degrees



Step 5 - Cope half is closed onto the Drag half. Precise alignment ensured by use of a floating table

**DOUBLE STATION
AUTOMATIC MOULD
CLOSER**



MOULD HANDLING

Pouring and Cooling





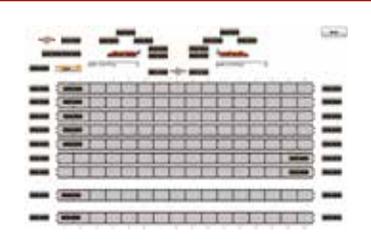
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MOULD HANDLING

Automatic Mould Pouring and Cooling Lines



Hydraulic transfer car 'Push Pull' type



Control panel with mould tracking option



Casting pallet with integral wheels for maximum protection and low maintenance



OPTIONAL VERTICAL STACKING OF MOULDS TO REDUCE SPACE

Plant Sizes	MOULD SIZE Length (mm)		MOULD SIZE Width (mm)		1/2 MOULD SIZE Height (mm)	
	Min	Max	Min	Max	Min	Max
2	780	1000	380	800	80	275
3	865	1200	550	1000	80	350
4	880	1600	790	1200	120	440
5	950	2000	800	1400	120	500
5.5	990	2200	850	1600	120	550
6	1150	2500	900	1800	190	690
7	1780	3200	1250	2000	250	740
8	1980	3400	1450	2200	250	850
9	2080	3500	1650	2500	250	880



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SAND RECLAMATION

Omega GV 1-3 TPH



1

INTEGRATED LADDER

- Elevates sand without any moving parts
- Fully enclosed
- Maintenance free



2

HEAVY DUTY DECK

- Long life wear resistant deck
- Low maintenance
- Easy to remove
- Made from S.G. Iron



3

LOW LEVEL LOADING

- Ease of loading moulds
- Easy casting removal
- Can be fed direct from cooling line



Omega GV Reclaimers					
Model	Throughput (TPH)	Deck Area (mm)	Deck Load (kg)	Loading Height (mm)	Power (Kw)
GV1	1	900 x 600	150	505	4.93
GV3	3	1000 x 1000	500	555	5.38



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SAND RECLAMATION

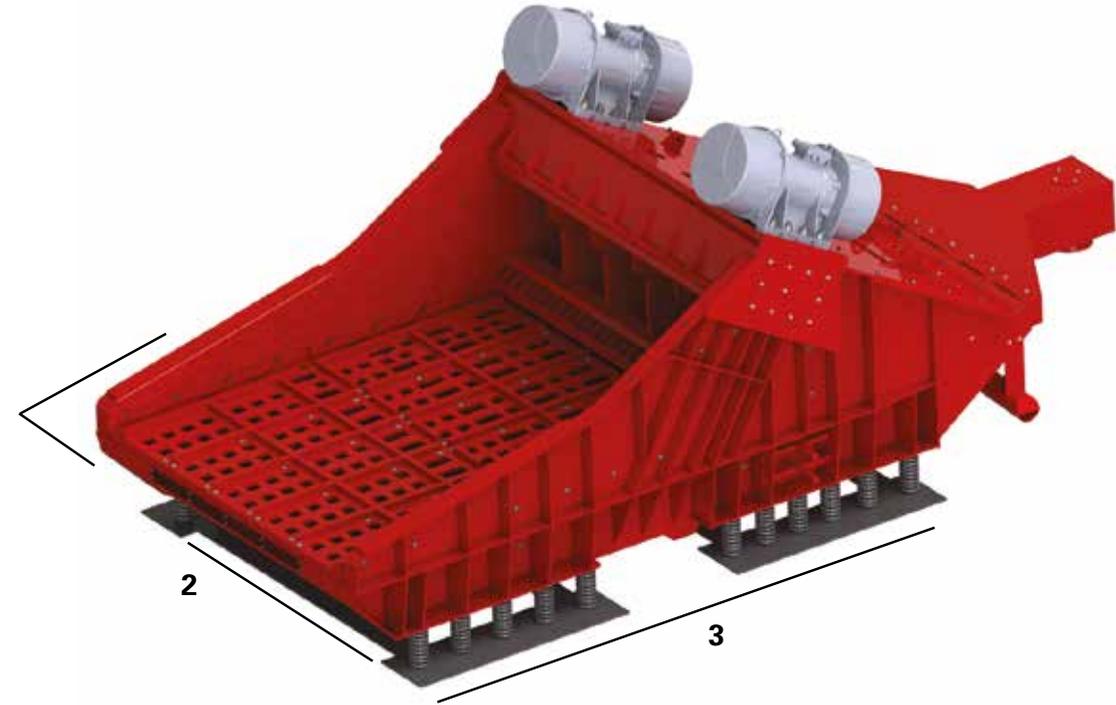
Omega LL Range 6-15 TPH



1

HEAVY DUTY DECK

- Long life, wear resistant deck
- Hardox® wear resistant bars



COMPLETE SYSTEM



2

FLOOR LEVEL

- Low level design makes loading easy
- Good access for casting removal
- Can be fed directly from cooling line



3

4-STAGE SCRUBBING

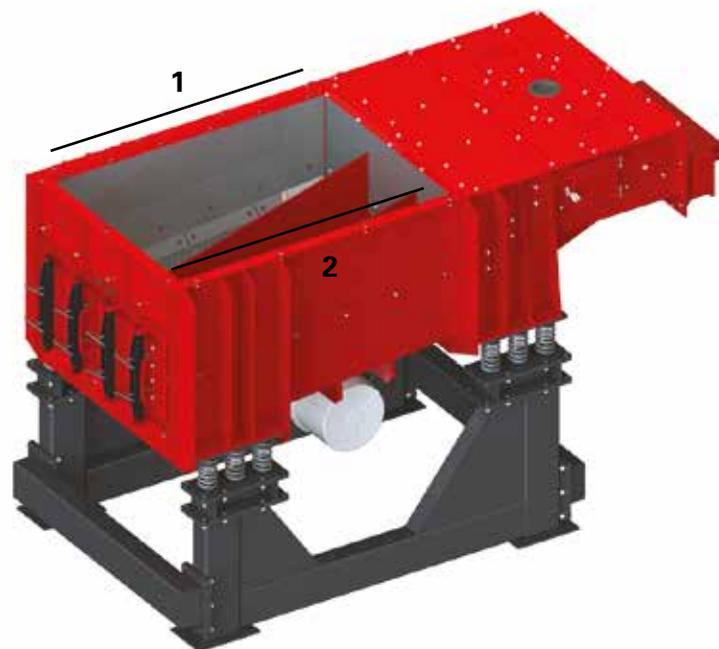
- 4 levels of screening for good binder removal
- Easy screen removal
- 2 clean-out doors for flash removal and maintenance

Omega LL Reclaimers

Model	Throughput (TPH)	Deck Area (mm)	Deck Load (kg)	Loading Height (mm)	Power (Kw)
LL6	6	1260 x 1270	1000	625	8.7
LL9	9	1500 x 1500	1500	585	8.7
LL12	12	2000 x 2000	3000	675	13.26
LL15	15	3000 x 2500	5000	855	25

SAND RECLAMATION

Omega HL Range 6-30 TPH



1

ALL LINERS MADE FROM HARDOX®

- Long life, wear resistant linersand top screen



2

EASY SCREEN REMOVAL

- Manageable cartridge type screens
- External clamping for easy screen removal



3

POWERED CLEAN OUT DOORS

Omega HL Reclaimers

Model	Throughput (TPH)	Deck Area (mm)	Max. Load (kg)	Power (Kw)
HL6	6	1200 x 910	750	4.53
HL9	9	1200 x 910	750	4.53
HL12	12	1500 x 1150	1300	6.63
HL15	15	2000 x 1500	1800	10.82
HL20	20	2000 x 1500	1800	10.82
HL30	30	2000 x 1500	1800	15.44

SAND RECLAMATION

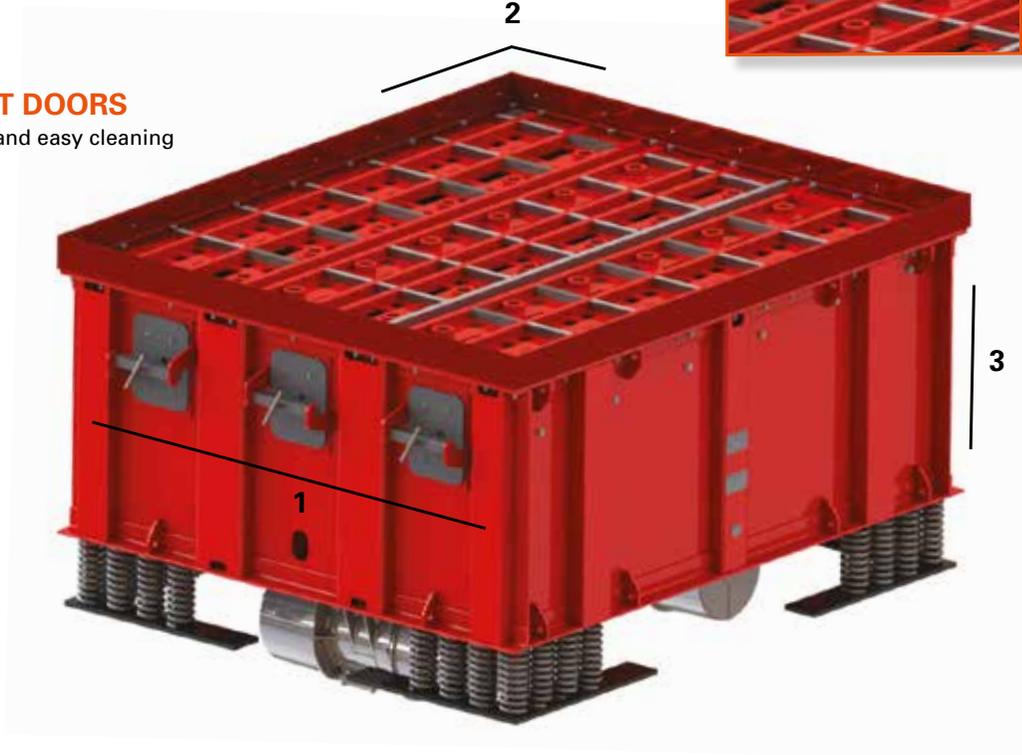
Omega GM Combination Shakeout and Reclamation 15-20 TPH



1 CLEAN-OUT DOORS
 • Enables fast and easy cleaning



2 HEAVY DUTY DECK
 • Long life, wear resistant deck
 • Hardox® wear resistant bars

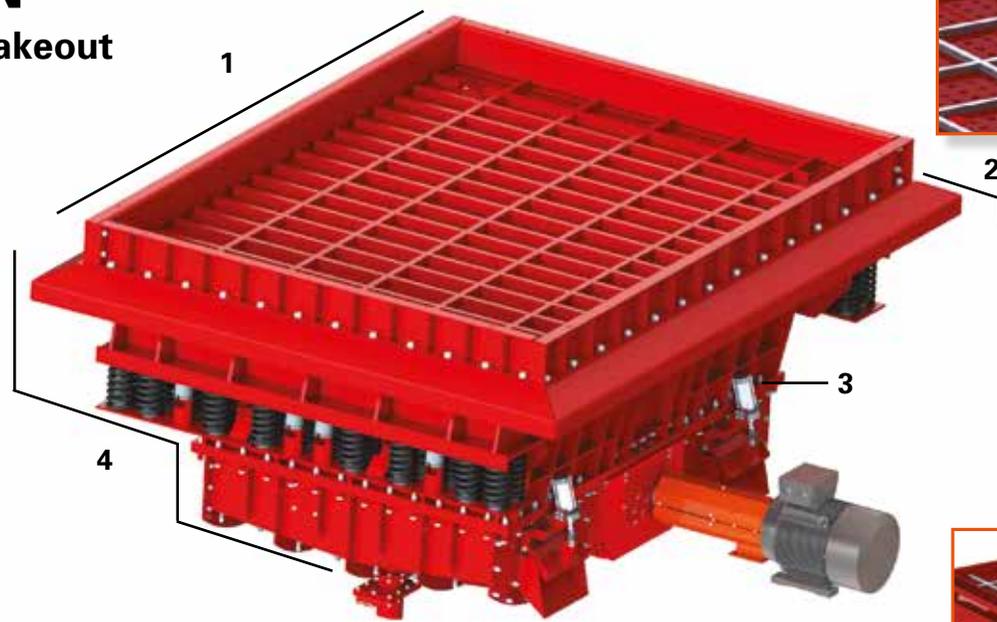


3 3-STAGE SCRUBBING
 • 3 levels of screening for good binder removal
 • Easy screen removal

Omega GM Reclaimers				
Model	Throughput (TPH)	Deck Area (mm)	Deck Load (kg)	Power (Kw)
GM7	15	2500 x 2000	7000	13.2
GM8	15	2500 x 2500	8000	13.2
GM10	20	3000 x 2500	10000	21.6
GM12	20	3070 x 2550	12000	21.6

SAND RECLAMATION

Omega GM+ Combination Shakeout and Reclamation 25-45 TPH



- 1**
HEAVY DUTY DECK
- Long life, wear resistant deck
 - Hardox® wear resistant bars



- 2**
ANTI-SPILL SKIRT
- Reduces sand spillage



- 4**
2-STAGE SCRUBBING
- 2 screen design
 - Reduces lumps to grain size



- 3**
POWERED CLEAN-OUT DOOR
- Enables fast and easy cleaning



OPTION



EXCITER DRIVEN OPTION

COMPLETE SYSTEM

Omega GM+ Reclaimers

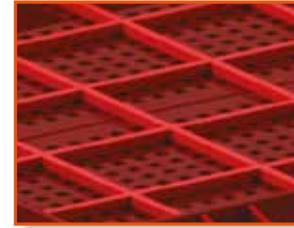
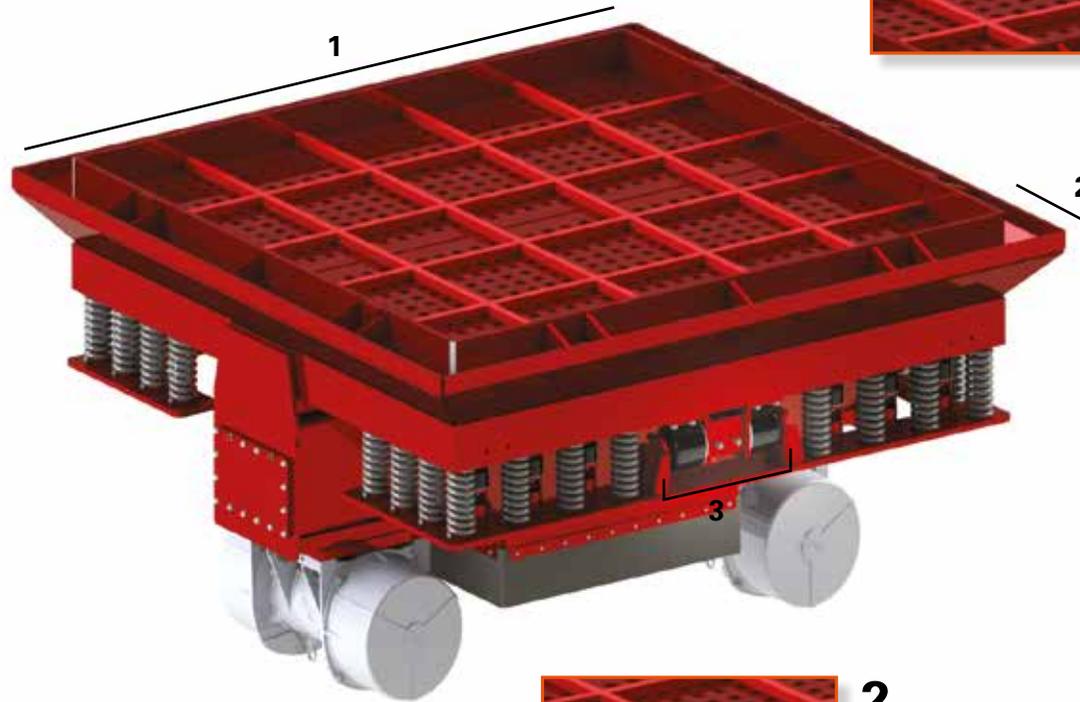
Model	Throughput (TPH)	Deck Area (mm)	Deck Load (kg)	Power (Kw)
GM+20	25	3000 x 3000	20000	22
GM+20	40	4000 x 4000	20000	25
GM+25	30	3300 x 3300	25000	37
GM+30	35	4000 x 3000	30000	37
GM+40	40	4000 x 3000	40000	37
GM+50	45	4000 x 4000	50000	37



sinto

SAND RECLAMATION

Shakeout Decks



1
HEAVY DUTY DECK

- Hardox® wear resistant bars



2
SPILL SKIRT

- Reduces sand spillage



3
LATERAL MOVEMENT ARRESTER

- Prevents damage to springs and body

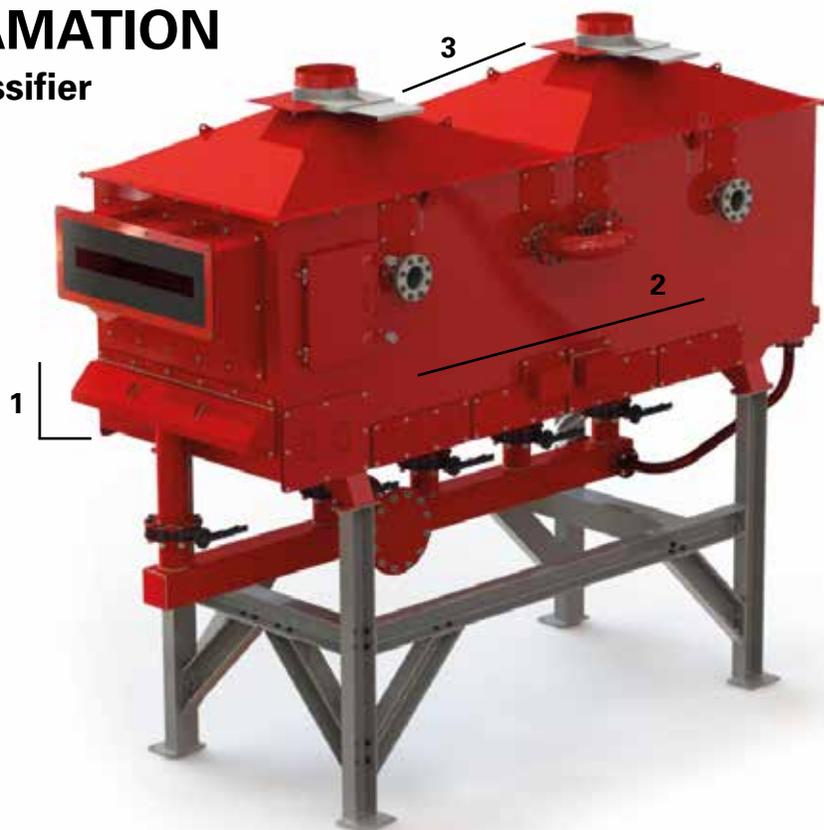
Shakeout Decks		
Deck Area (mm)	Deck Load (kg)	Power (Kw)
2500 x 1500	5000	8
2500 x 2000	10500	12.4
2500 x 2500	16600	20
3000 x 2000	12000	20
3000 x 2000	19500	25
3000 x 2500	13000	20
4000 x 3000	20000	25
4000 x 4000	20000	25
3000 x 3000	25000	30
4000 x 3000	30000	37
4000 x 3500	30000	37
4000 x 4000	30000	45
4000 x 4000	50000	45

All decks with load over 20 tonnes have cardan shaft design

SAND RECLAMATION

Omega Cooler Classifier

1-30 TPH



1 INLET MESH DROP-OUT AREA

- Prevents oversize particles and metallics from entering the fluid bed
- Hinged door for screen inspection and cleaning



2 HIGH EFFICIENCY HEAT EXCHANGER

- Excellent heat transfer properties
- Zero corrosion
- Sand cooled to within 6 degrees of water inlet temperature



3 MAGNEHELIC GAUGE

- Accurately shows negative pressure inside cooler
- At-a-glance performance indicator
- Enables precise fines removal

Omega Cooler Classifier					
Model	Water (ltr/min)	Water (gpm)	Fan (m ³ /hr)	Extraction (m ³ /hr)	Power (Kw)
G1	126	27	1000	1600	4
G3	252	54	1400	2200	7.5
G6	492	108	2500	3200	15
G9	744	163	4500	5500	22
G12	768	168	5000	6400	30
G15	960	211	6400	8000	30
G20	1260	282	9300	11000	45
G24	1602	352	10000	13000	60
G30	1920	422	12800	16200	60

SAND CONVEYING

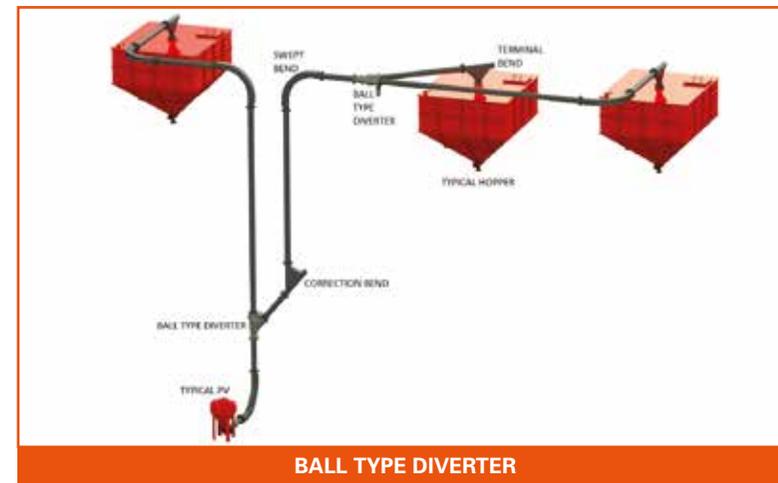
Sand Conveying Pressure Vessels



DENSE PHASE PRESSURE VESSEL



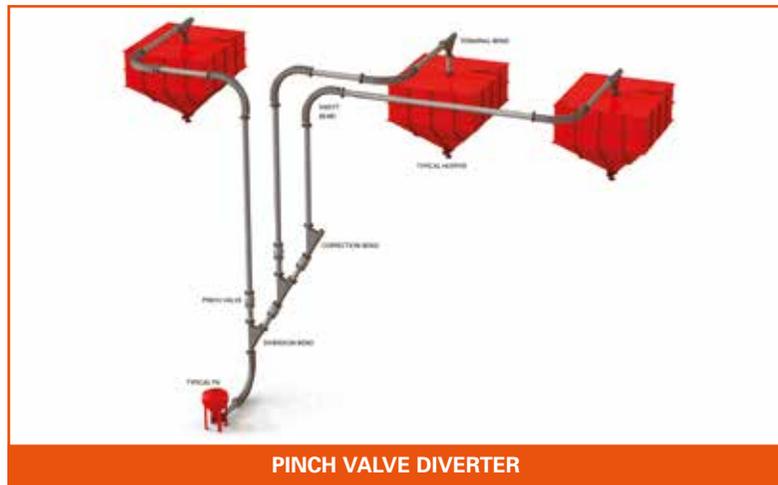
FULL PIPE PRESSURE VESSEL



BALL TYPE DIVERTER



HOT SAND



PINCH VALVE DIVERTER

Dense Phase

Model	Throughput* (TPH)
DP35	2
DP60	5
DP100	7
DP130	9
DP200	13
DP250	15
DP330	18
DP570	30

Full Pipe

Model	Throughput* (TPH)
FP100	4
FP300	8
FP500	12
FP1000	18

*For conveying distance up to 50m

*For conveying distance up to 50m



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SAND RECLAMATION

Omega Chromite Separation

For separating and reclaiming chromite sand with purity levels greater than 98%
Maximum chromite content is 10%.



1

FERRITE DRUM MAGNET

- For removal of metal contaminants and 'Dead' chromite



2

HIGH INTENSITY RARE EARTH MAGNET

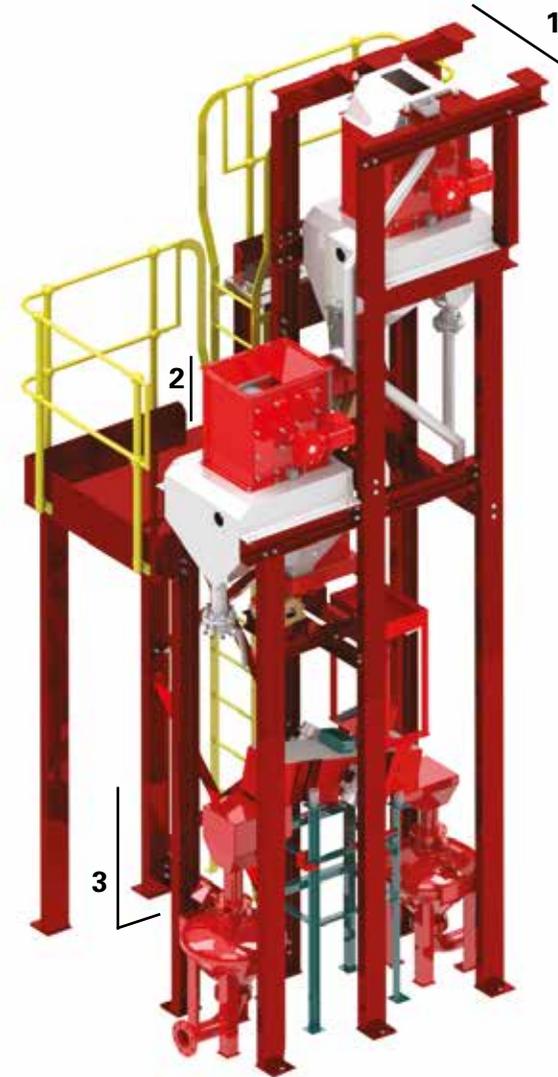
- For separation of chromite from the silica



3

FLUID BED DENSITY SEPARATOR

- Final stage separation to ensure maximum purity
- Fully adjustable
- Low maintenance



Omega Chromite Separation Plant

Throughput (TPH)	Power (Kw)	Dust Extraction Rate (m3/h)
1	8.15	1500
5	8.25	3000
10	15.50	4800



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SAND RECLAMATION

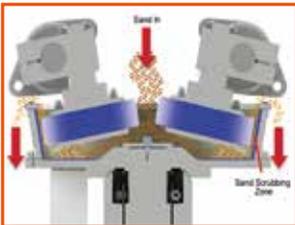
Omega USR Secondary Attrition

For the reduction of LOI by mechanical processing of the sand, without damaging the sand.



1 HIGH INTENSITY FLUIDISED BED

- Shallow fluidised sand bed for good fines separation
- Agitator bars for detaching fines from grain size sand



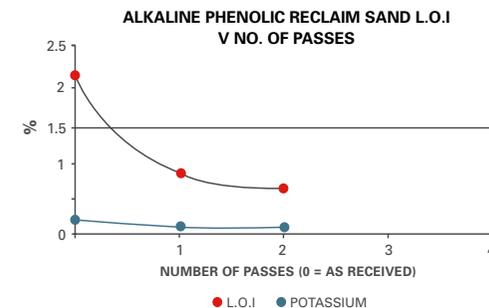
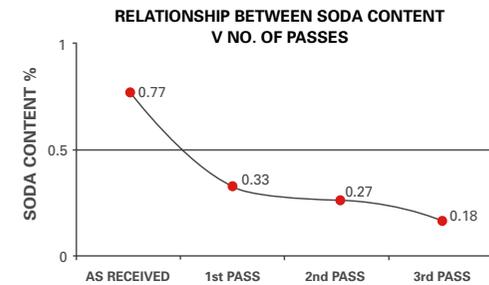
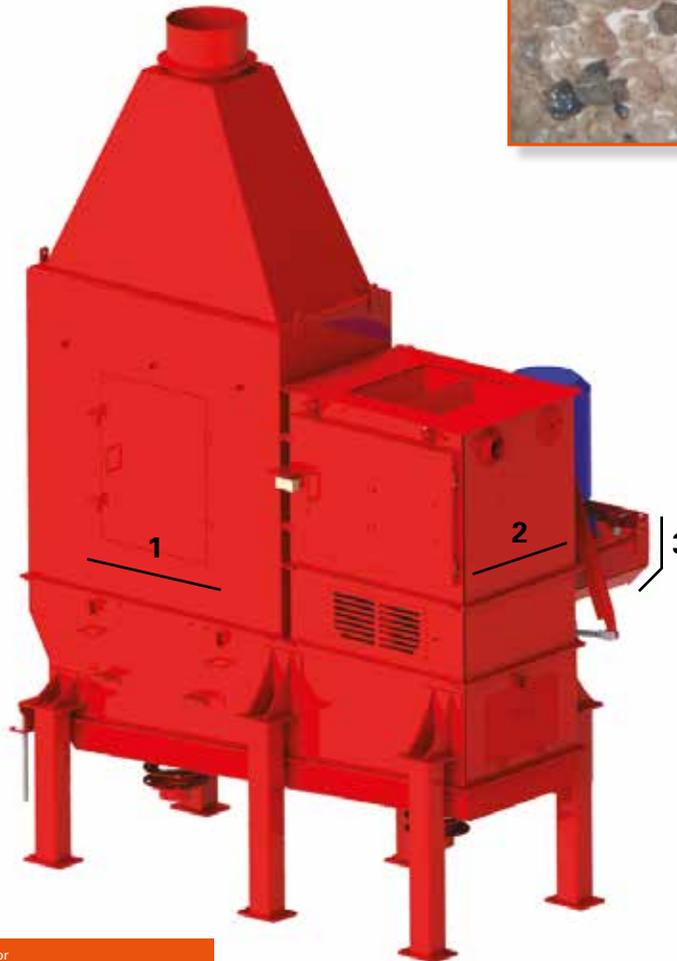
2 LONG-LIFE CERAMIC ROLLERS

- Long life ceramic rollers and ceramic lined drum
- Low maintenance
- Auto-lubrication



3 FULLY CONTROLLABLE SAND SCRUB

- Variable drum rim for control of sand retention
- Variable pressure cylinders linked to ceramic rollers
- Enables light or heavy scrubbing



Omega USR Secondary Attrition Units				Extraction Rate for Chemically Bonded Sand (m³/h)	Extraction Rate for Greensand (m³/h)
Model	Throughput (TPH)	Number of Cells	Power (Kw)		
5.1	5	1	37	4200	4500
5.2	5	2	74	4200	4800
10.1	10	1	75	6300	6600
10.2	10	2	150	6300	6900

SAND RECLAMATION

Omega Thermal Reclamation





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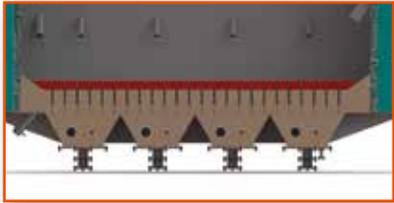
SAND RECLAMATION

Omega Thermal Reclamation



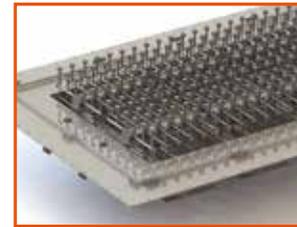
2 THERMAL INSULATION

- Ceramic blanket, ceramic board and 'Dead Bed' sand insulation
- Reduces energy consumption



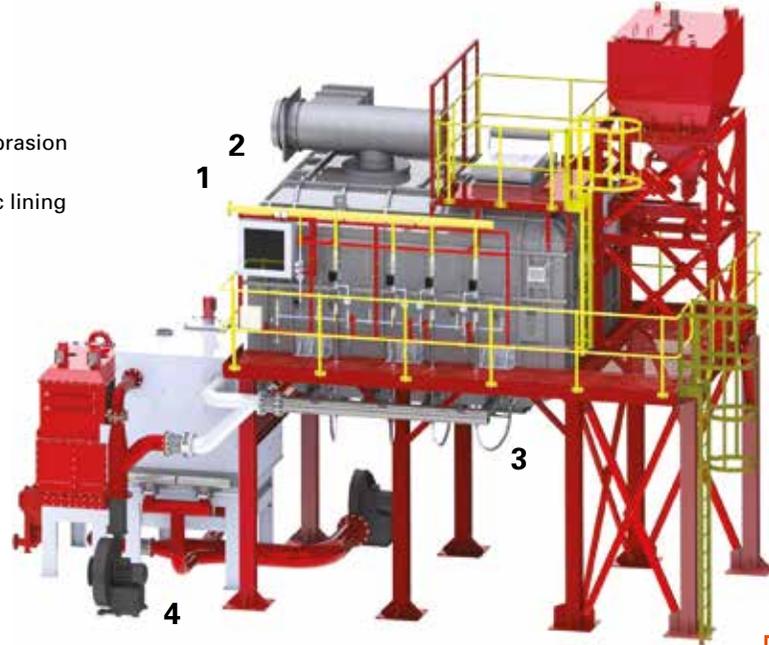
1 DEAD BED

- Protects the ceramic insulation from abrasion
- Provides additional thermal insulation
- Enables the 3 year guarantee on furnace lining and bubble cap burners



3 STAINLESS STEEL BUBBLE CAPS

- Introduces gas/air mix into the furnace
- Provides fluidisation of sand
- Stainless steel construction for long life



4

HEAT EXCHANGER AS STANDARD

- Takes heat energy from the hot sand and warms the fluidisation air
- Reduces gas consumption
- Zero maintenance

SAND RECLAMATION

Inorganic Reclamation

For the reclamation of inorganic binders used in the automotive industry.



USR SAND SCRUBBER

- Removes inorganic binder to allow re-use of up to 90%

THERMAL UNIT

- Thermally treats the sand, typically between 700 - 850 °C

PRIMARY ATTRITION UNIT

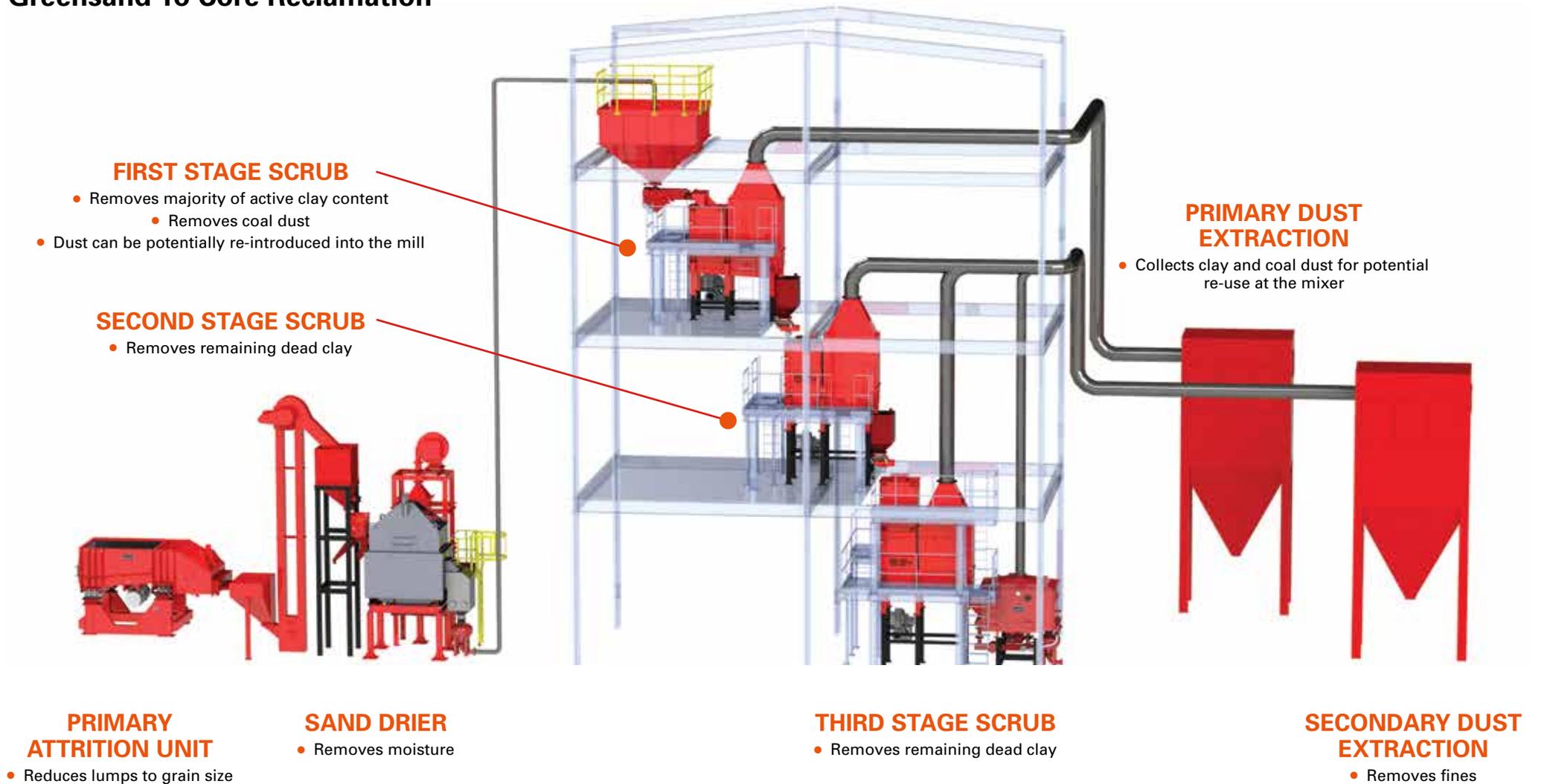
- Reduces lumps to grain sand



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SAND RECLAMATION

Greensand To Core Reclamation





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CORE MAKING

Omega CM Basic Core Shooter Range

With integral gas generator and remote operator panel



EJECTION SLIDE (Optional)

- Allows easy core removal

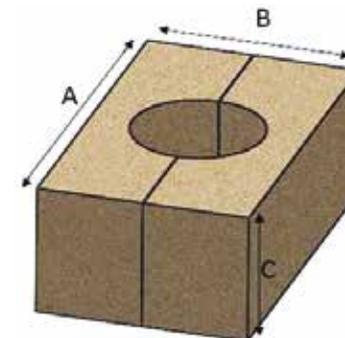


VACUUM CLAMP (Optional)

- Allows quick core box change over

Omega CM Basic Core Shooters

Compact Models	Litre Capacity	Max Core Box Dimensions A X B X C (mm)	Core Weight (Kg)		Dry Cycle Time (Secs)
			Single Shoot	Double Shoot	
2.5	2.5	340 x 400 x 280	3.5	6	20
5	5	630 x 410 x 400	7	12	24
5S	5	630 x 410 x 400	7	12	24
12	12	500 x 800 x 530	16	31	30
12S	12	500 x 800 x 530	16	31	32





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CORE MAKING

Omega CM Premium Series Cold Box Core Machines



EJECTORS

Ejectors on the side clamps of a vertically split core boxes to facilitate core removal by the operator



VERTICALLY SPLIT

Machine shown with vertically split box fixed to side clamps for long production runs. Possibility to use a 'mandrel' fixed to the slide for easy core removal

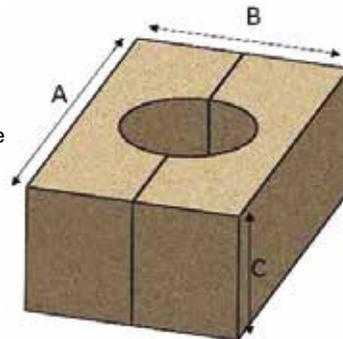


HORIZONTALLY JOINTED

Horizontally jointed boxes can be produced with automatic ejection on the lower box half for easy core removal

AUTOMATIC CORE SHOOTER

12 – 60 litre capacity core shooter for the automatic production of vertically or horizontally jointed core boxes. Machines' incorporate an integral gas generator and plc control panel with operator panel at the front of the machine. Facilities to save up to 400 recipes



Omega CM Premium Series

Model	Litre Capacity	Max Core Box Dimensions A X B X C (mm)	Core Weight (Kg)		Dry Cycle Time (Secs)
			Single Shoot	Double Shoot	
B12 GSI	12	700 x 800 x 530	16	31	30
B30 GSI	30	700 x 800 x 700	40	70	30
B60 GSI	60	700 x 800 x 700	85	160	32
B60 GSI XL	60	850 x 900 x 700	85	160	40
B12 GSE-1	12	700 x 800 x 450	16	31	30
B30 GSE-1	30	700 x 800 x 620	40	70	30
B60 GSE-1	60	700 x 800 x 620	85	160	32
B60 GSE-1 XL	60	850 x 900 x 620	85	180	40
B12 GS-J-1	12	600 x 600 x 650	16	31	18
B30 GS-J-1	30	600 x 600 x 650	40	70	20
B60 GS-J-1	60	600 x 600 x 650	85	160	20
B12 GS-JE-1	12	700 x 800 x 450	16	31	18
B30 GS-JE-1	30	600 x 800 x 600	40	70	20
B60 GS-JE-1	60	600 x 800 x 600	85	160	20



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CORE MAKING

Omega CM Speciality Core Shooters



OMEGA 'CORE BELTER' C/AN SERIES

For automatic production of vertically jointed boxes with discharge of cores onto the height adjustable belt. Integral gas generator and operator control panel



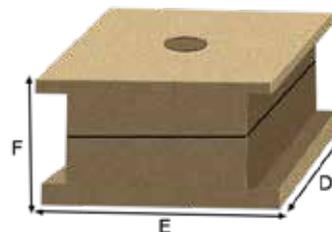
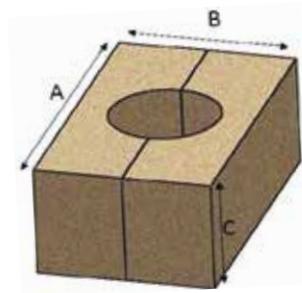
OMEGA TMXL CORE SHOOTER

Automatic core shooter for the production of large vertically jointed core boxes for cores up to 2 metre in length. Can be supplied up to 60 litre capacity. Gas generator and plc panel are integral with remote operator panel at front of the machine



OMEGA TMDO/ DV CORE SHOOTER

For the automatic production of horizontally or vertically jointed core boxes. Integral gas generator and operator control panel included



Omega Core Shooter - TM Series

Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Kg	Kg	Sec
TM 30	800	500	500	-	-	-	40	75	35
TM 60	800	500	500	-	-	-	80	150	35
TM 60 XL	1900	400	600	-	-	-	80	150	45
TM100 DO	-	-	-	1500	1150	740	130	250	45
TM120 DO	-	-	-	1500	2150	740	150	300	50
TM150 DO	-	-	-	2100	2150	890	200	350	50
TM120 DO-DV	1000	800	750	1500	2150	740	150	300	50
TM150 DO-DV	1600	1000	900	2100	2150	890	200	350	55

Omega Core Shooter - C/AN Series

Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Kg	Kg	Sec
C13AN	740	360	385	-	-	-	13	-	22
C22AN	740	500	400	-	-	-	22	-	22
C35AN	740	600	400	-	-	-	35	-	23



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CORE MAKING

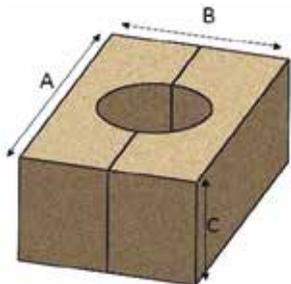
Omega CM No Bake Core Shooters

For the production of cores without the need for a gas hardened system.



1 INTEGRATED CONTROL PANEL

- With mixer recipe and core shooter control



2 INTEGRATED MIXING

- On-demand mixing



3 HIGH VOLUME BLOW PRESSURE

- With easy adjustment

Omega CM No Bake Core Shooters

Model	Litre Capacity	Max Core Box Dimensions A X B X C (mm)	Core Weight (Kg)
NBB25	7	762 x 610 x 460	12
NBB50	14	762 x 610 x 610	24



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COATING PLANTS

For Shell Coating and Sand Process



COATING MIXER



DISINTEGRATOR



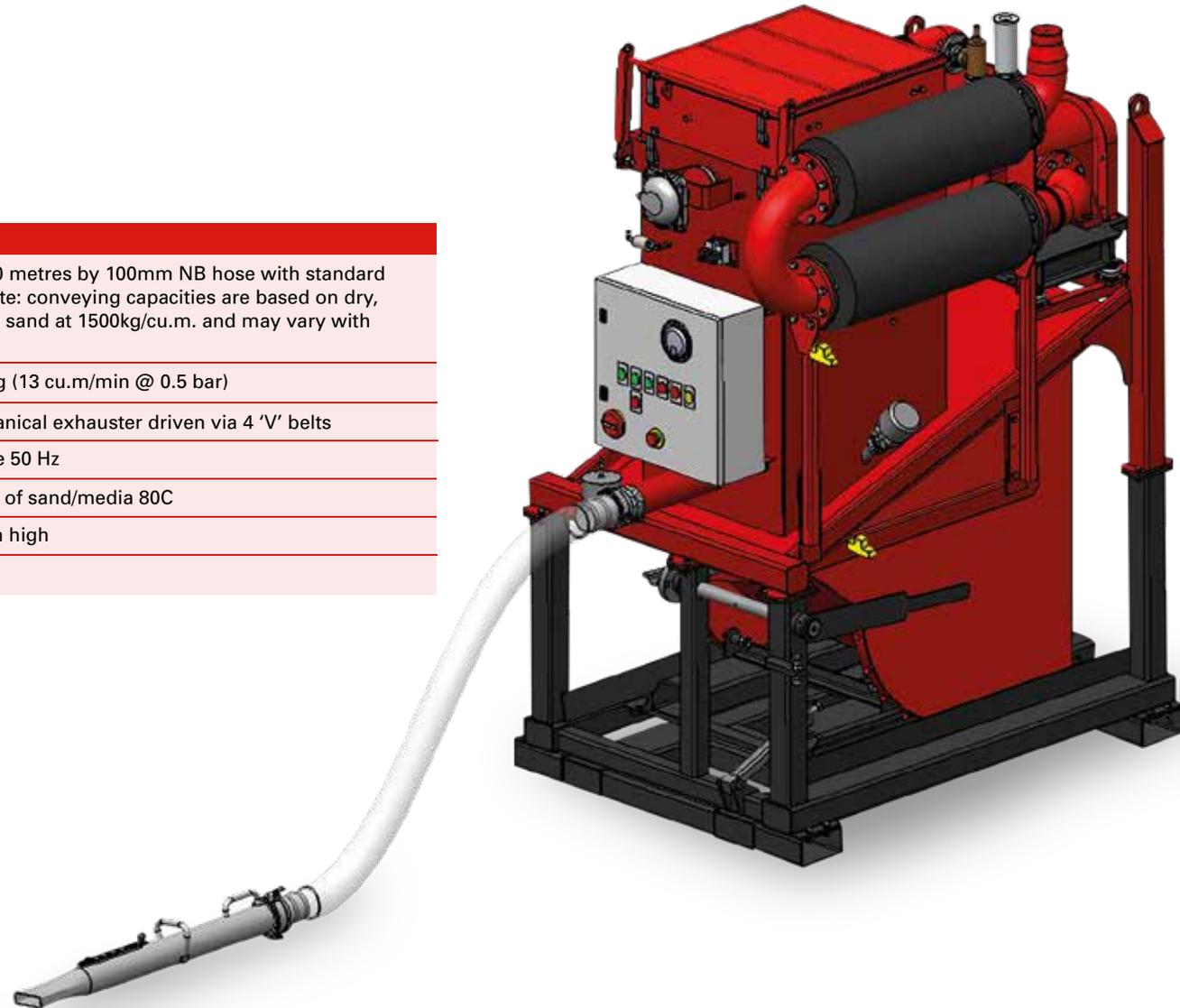
COOLER CLASSIFIER



OMEGA FOUNDRY VACUUM

Powerful Industrial Vacuum for a cleaner and safer foundry

FEATURES	
Suction Capacity:	7-10 TPH using 10 metres by 100mm NB hose with standard probe nozzle. (Note: conveying capacities are based on dry, free flowing silica sand at 1500kg/cu.m. and may vary with material)
Vacuum at Inlet:	460 cfm @ 15" Hg (13 cu.m/min @ 0.5 bar)
Power Unit:	Roots type mechanical exhauster driven via 4 'V' belts
Voltage:	220/415 V 3 phase 50 Hz
Operating Temp:	Max temperature of sand/media 80C
Dimensions:	2m x 1.5m x 2.6m high
Shipping Weight:	1950 Kg



OMEGA SINTO THE CONNECTED FOUNDRY

Remote foundry equipment monitoring systems from Omega Sinto

Omega Connect is a web-based monitoring system incorporating state-of-the-art technology to link Omega Sinto control panels to the cloud enabling our equipment to be monitored and adjusted remotely, anywhere in the world via web browser access.

- Remote monitoring allows easy access to production status and aids fault finding
- Allows for immediate actions when faults are identified, reducing downtime
- Customers can access real time view of all Omega Connect machines
- Real-time alarm monitoring



Omega Sinto Spares

Omega Sinto Foundry Machinery Ltd carries a large inventory of spare parts all available at competitive prices. We support both current and older equipment including components for Richards, Fordath etc

Parts available on Ex-works basis through to Door-to-Door options with air freight, sea freight and courier services available at excellent rates.

Omega Sinto Foundry Machinery Ltd offers a simple and efficient web based spares enquiry system for our customers. The system has been specifically designed to:

- Simplify the ordering process
- Enable product identification
- Order history and tracking facility
- Guaranteed prompt response

Order your spare parts at
spares@ofml.net

Global Technical Support

Omega Sinto Foundry Machinery Ltd offers worldwide expert advice on all technical queries, either with an Omega Sinto commissioning engineer or with a dedicated member of the technical support team.

You can contact us via email or telephone. If required our support experts can organise site visits for regular pre-planned maintenance or emergency breakdown visits.

Omega Sinto Support includes:

- Training
- Technical support
- Pre-planned service visits
- Remote support





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Omega Sinto Foundry Machinery Ltd

Morley Way, Woodston, Peterborough, PE2 7BW, UK **T:** +44 (0) 1733 232231 **E:** sales@ofml.net

Tinker Omega Sinto, LLC

2424 Columbus Ave, Springfield,
Ohio 45503, USA

T: +1 937 322 2272

E: sales@tinkeromega.com

Omega Sane Sinto Foundry Machinery Pvt Ltd

21, Gananjay Society Unit 4, Kothrud, Pune: 411038, India

T: +91 20 25399005 / 6 / 7 / 8

E: admin@saneequipments.com

Endeco Omega Sinto (Pty) Ltd

192 Lamp Road, Wadeville, Gauteng, South Africa

T: +27 (11) 907 1785

E: info@endeco-omega.co.za

Omega Sinto Tecnostudio Srl

Omega Tecnostudio, Via F.lli Rosselli,
17/22 31020, Villorba (TV), Italy

T: +39 0422 609557

E: sales@omegats.it

Omega Sinto Foundry Machinery Ltd (Turkey)

Mebusevleri Mah. Maresal Fevzi Çakmak Cad. No:15/1
06570 Çankaya Ankara Türkiye

T: +90 538 5949795

E: sales@ofml.net

W: www.ofml.net