



New Harmony » New Solutions™

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Omega Sinto Foundry Machinery Ltd

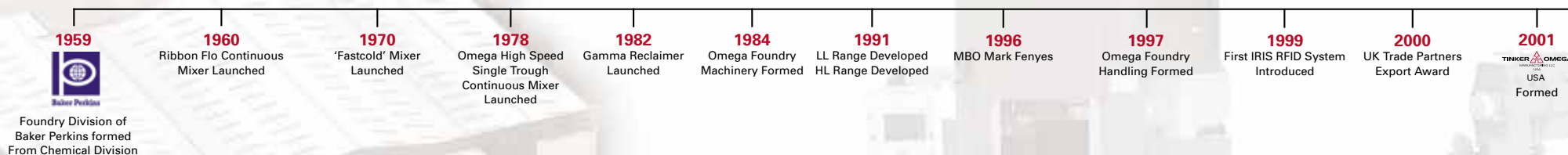


FOUNDRY



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

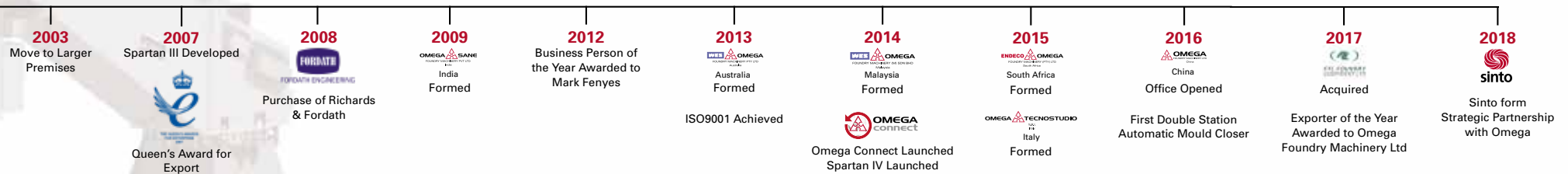
We are fully committed to fulfil our vision of being the preferred supplier of chemically bonded sand equipment to foundries around the globe.



WORLDWIDE PRESENCE



-  Manufacturing Bases
-  Representation
-  Offices



SAND MIXING

Spartan III Series

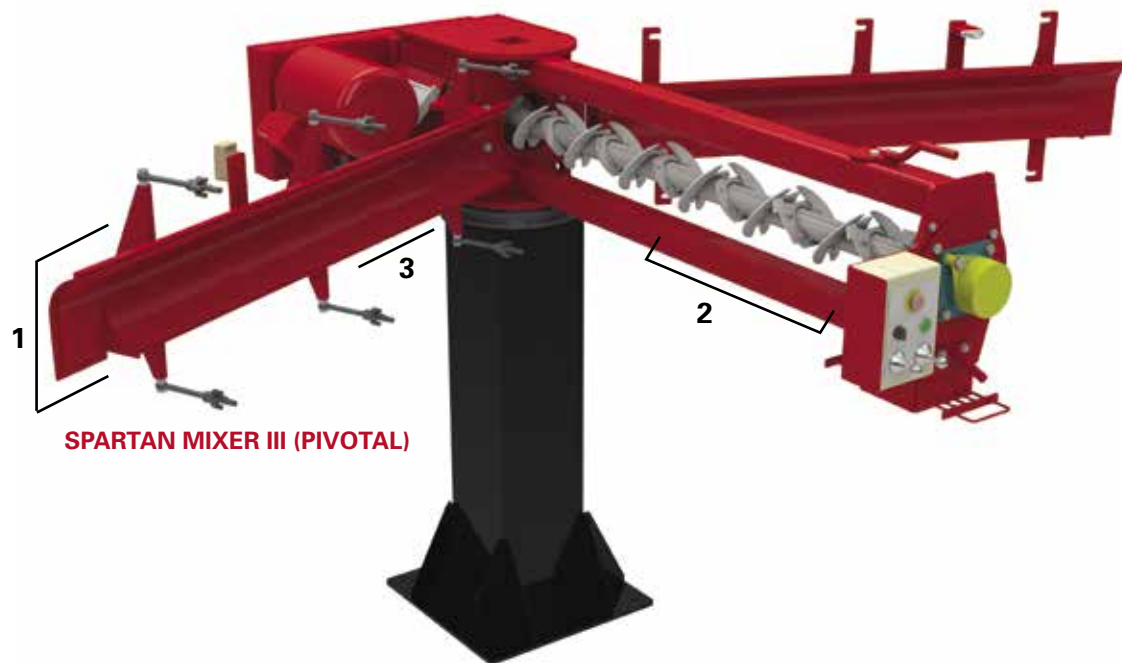
OPTIONS



SPARTAN III SERIES (SCREW ARTICULATED)



SPARTAN III SERIES (BELT ARTICULATED)



SPARTAN MIXER III (PIVOTAL)



3 AIR ASSIST

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

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



Pivotal

Model	Output Range (TPH)	Reach (mm)
Spartan 303P	1-3	680
Spartan 305P	3-6	1515
Spartan 310P	5-12	1691
Spartan 320P	10-20	1965
Spartan 335P	20-35	2038
Spartan 345P	35-45	2320
Spartan 360P	40-60	2605

Articulated Screw Arm

Model	Output Range (TPH)	Reach (mm)*
Spartan 310A	5-12	4691
Spartan 320A	10-20	4965
Spartan 335A	20-35	5038
Spartan 345A	35-45	5320
Spartan 360A	40-60	5605

* 3 Metre Screw Arm

Articulated Belt Arm

Model	Output Range (TPH)	Reach (mm)*
Spartan 310AB	5-12	4691
Spartan 320AB	10-20	4965
Spartan 335AB	20-35	5038
Spartan 345AB	35-45	5320
Spartan 360AB	40-60	5605

* 3 Metre Belt Arm

SAND MIXING

Spartan IV Series

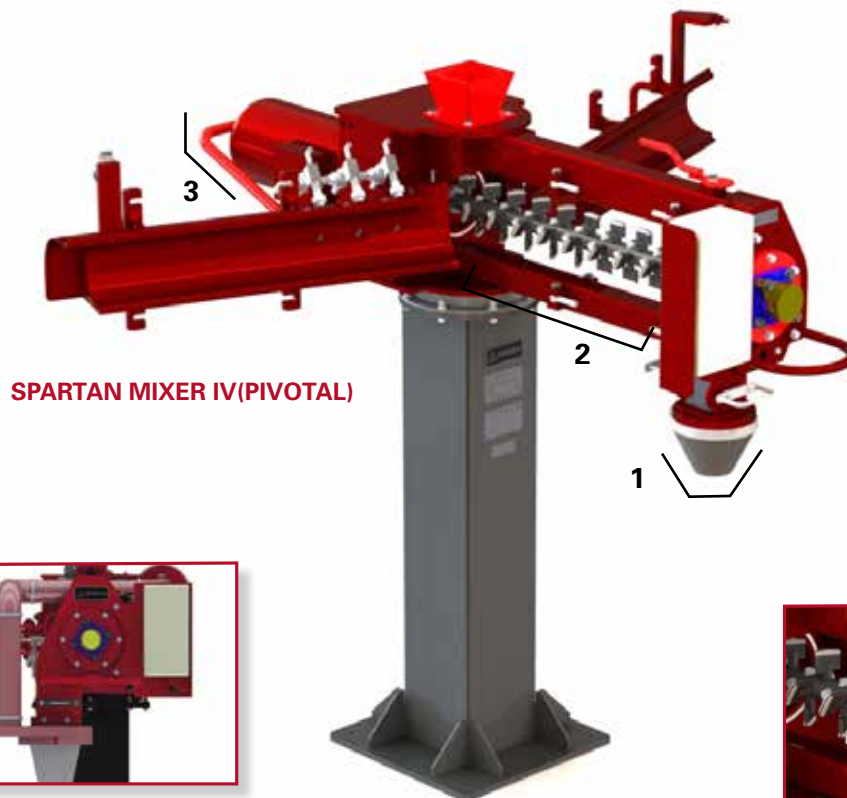
OPTIONS



SPARTAN IV (SCREW ARTICULATED)



SPARTAN IV (BELT ARTICULATED)



SPARTAN MIXER IV (PIVOTAL)

1 OFFSET DISCHARGE

- Allows smooth discharge of sand
- Improves flowability of sand onto pattern
- Integrated 'fumematic' as option



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



Pivotal

Model	Output Range (TPH)	Reach (mm)
Spartan 403P	1-3	680
Spartan 405P	3-6	1043
Spartan 410P	5-12	1200
Spartan 420P	10-20	1450
Spartan 435P	20-35	2010
Spartan 445P	35-45	2150
Spartan 460P	40-60	2342
Spartan 4100P	80-100	2728

Articulated Screw Arm

Model	Output Range (TPH)	Reach (mm)*
Spartan 410A	5-12	4200
Spartan 420A	10-20	4450
Spartan 435A	20-35	5010
Spartan 445A	35-45	5150
Spartan 460A	40-60	5342
Spartan 4100A	80-100	5728

* 3 Metre Screw Arm

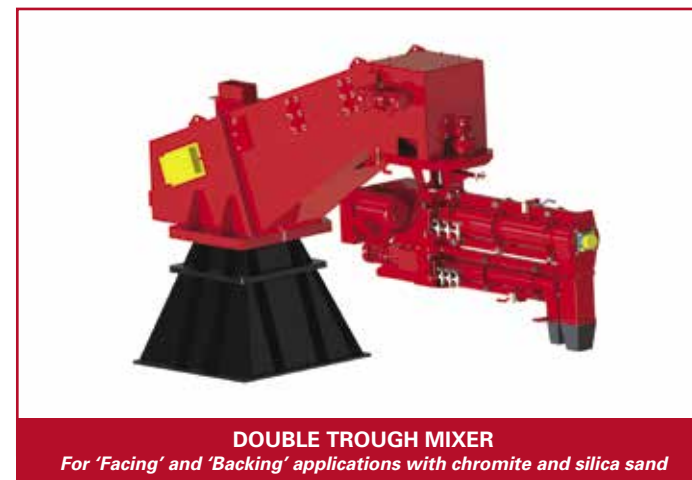
Articulated Belt Arm

Model	Output Range (TPH)	Reach (mm)*
Spartan 410AB	5-12	4200
Spartan 420AB	10-20	4450
Spartan 435AB	20-35	5010
Spartan 445AB	35-45	5150
Spartan 460AB	40-60	5342
Spartan 4100AB	80-100	5728

* 3 Metre Belt Arm

SPECIALITY MIXERS

Extended Mobility, Reach and Coverage



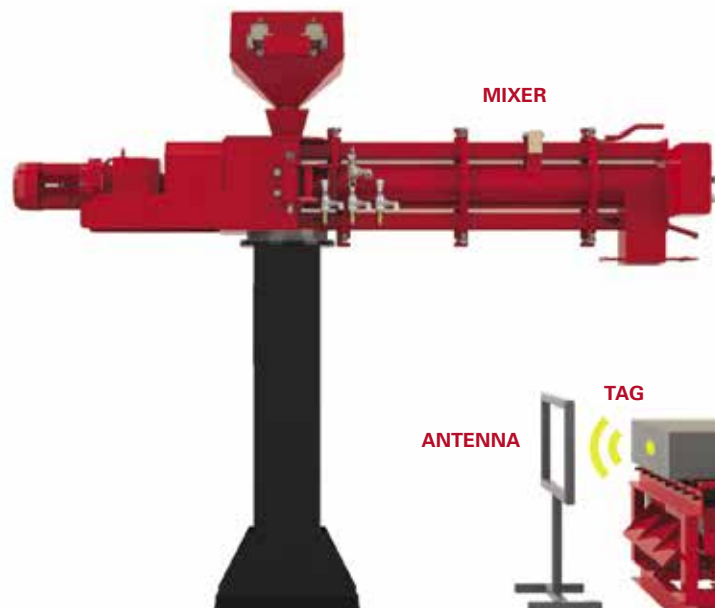
RFID PATTERN RECOGNITION

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



MATERIAL USAGE SCREEN

CONTROL PANEL WITH INDUSTRIAL PC



MIXER



ANTENNA

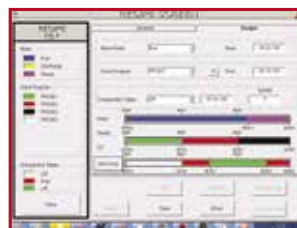
TAG

PATTERN BOX

COMPACTION TABLE

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
- RFID tag is embedded into the pattern
- Each pattern has its own recipe
- Once programmed the mixer and compaction table deliver recipe automatically



RECIPE SCREEN



PRODUCTION SCREEN SHOWING JOB CARD

PERFORMANCE

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

MOULD HANDLING

Carousel



MOULD HANDLING

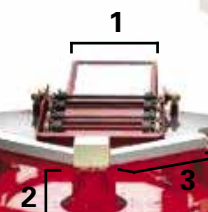
Carousel

For efficient use of space and an alternative to a fast loop. 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 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

Carousel Size	MAX MOULD SIZE		1/2 MOULD SIZE Depth (mm)	DIAMETER	
	Length (mm)	Width (mm)		6 Station (mm)	8 Station (mm)
2	1000	800	275	3850	4500
3	1200	1000	355	4650	5500
4	1600	1200	439	5590	6040

MOULD HANDLING

Fast - Loop



MOULD HANDLING

Fast - Loop

For production of moulds with varying fill times.



1

MODULAR DESIGN

- Allows easy configuration for customers needs

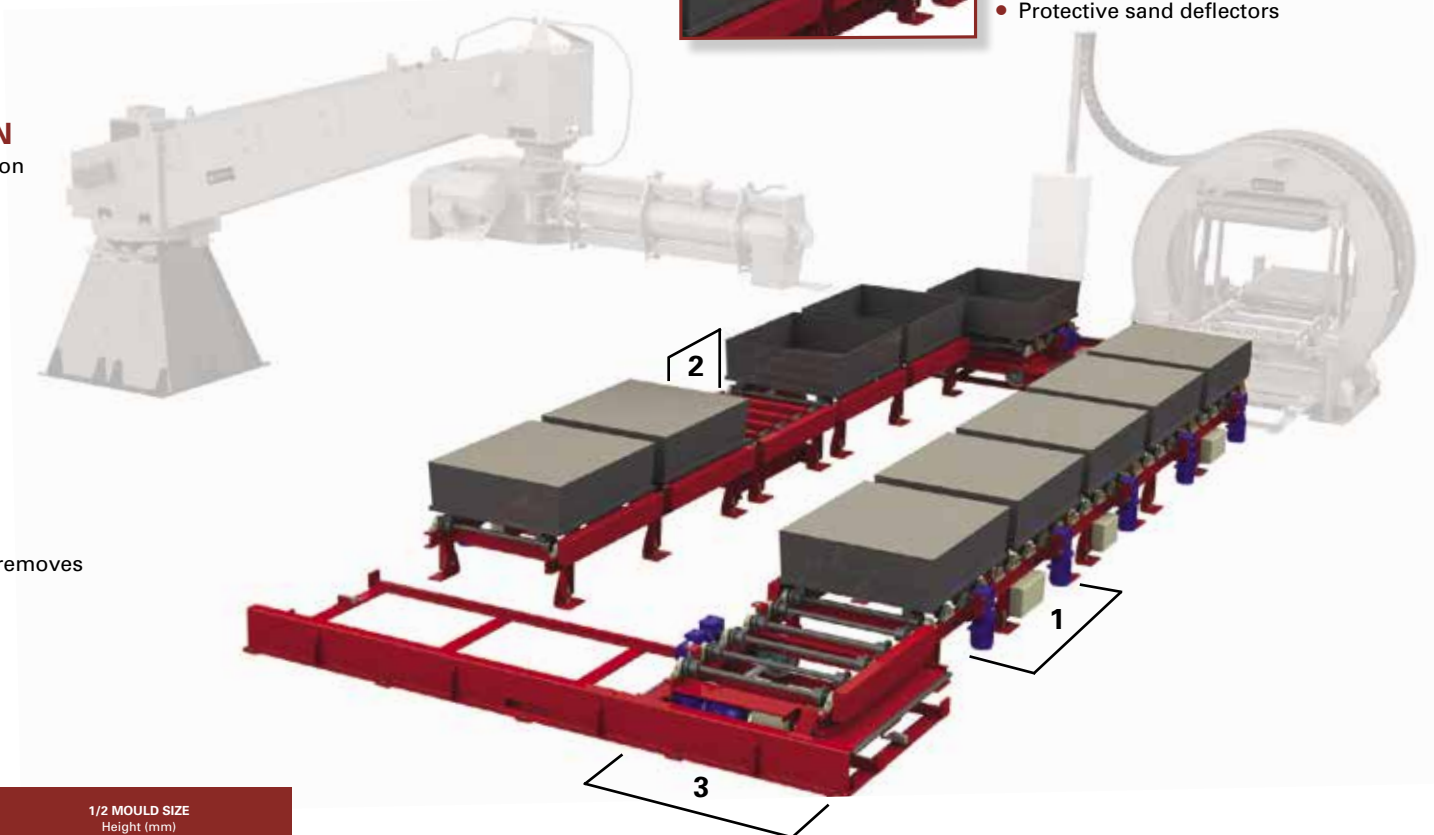
OPTION



AUTO STRICKLE

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

Plant Sizes	MOULD SIZE Length (mm)		MOULD SIZE Width (mm)		1/2 MOULD SIZE Height (mm)		
	Size	Min	Max	Min	Max	Min	Max
	2	780	1000	380	800	80	275
	3	865	1200	500	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

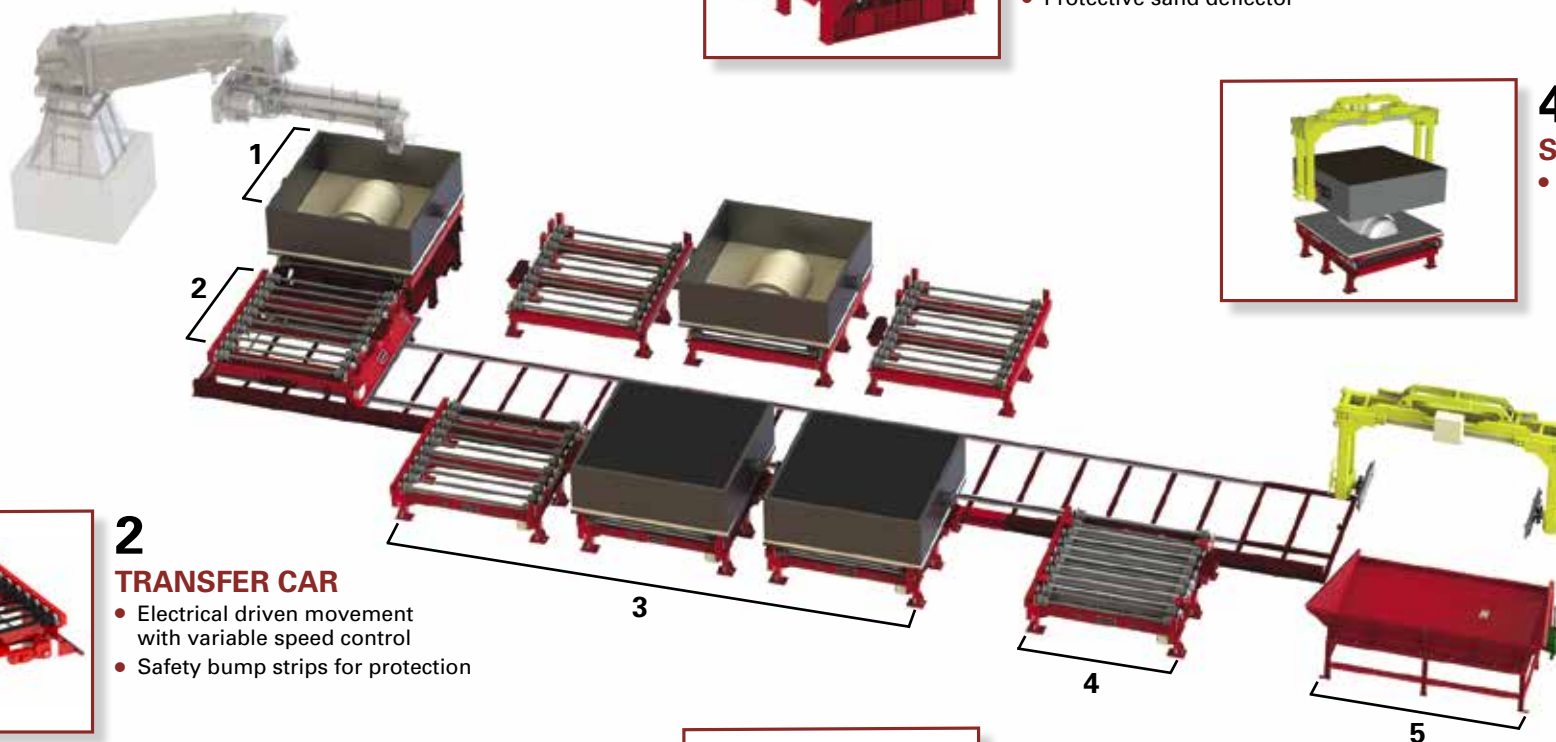
Shuttle



MOULD HANDLING

Shuttle

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



3 MODULAR DESIGN

- Allows easy configuration for customers needs



5 COATING STATION

- Alcohol or water based



2 TRANSFER CAR

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

Shuttle	MOULD SIZE Length (mm)		MOULD SIZE Width (mm)		
	Size	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

MOULD HANDLING

Compaction Tables



1

VIBRATORY MOTORS

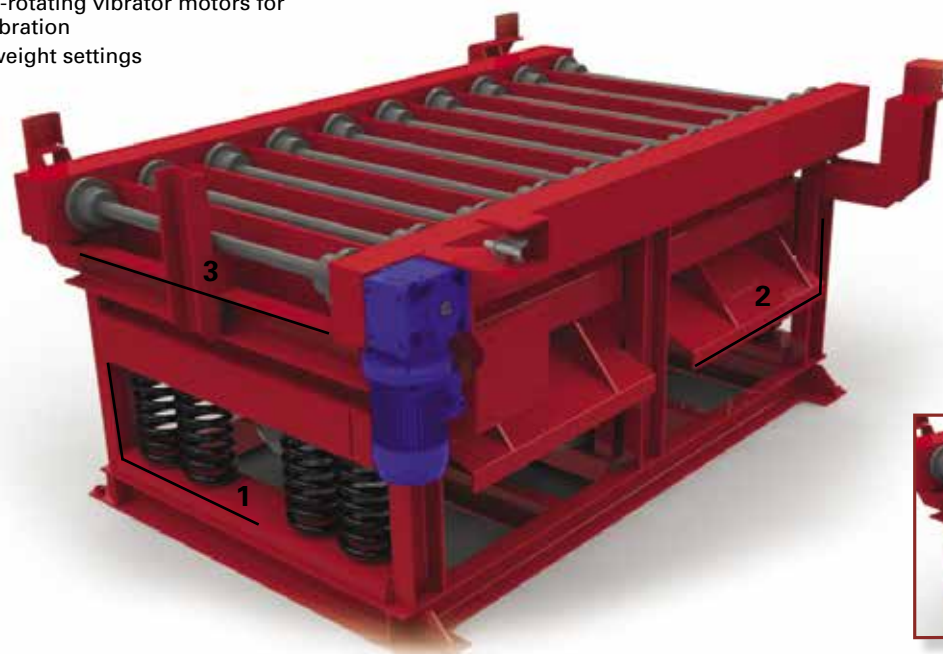
- Low amplitude, variable frequency vibration
- 2 x contra-rotating vibrator motors for vertical vibration
- Variable weight settings



2

DEFLECTOR

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



3

2

1



OPTION

STATIC STYLE TABLE



3

POWERED OR NON POWERED ROLLERS

- Suitable for auto or manual applications

Compaction Table		
Size	MAX MOULD SIZE Length x Width (mm)	Max. Load (kg)
1	800 x 600	300
2	1000 x 800	955
3	1200 x 1000	1280
4	1600 x 1200	2700
5	2000 x 1400	4755
5.5	2200 x 1600	5000

Compaction Table		
Size	MAX MOULD SIZE Length x Width (mm)	Max. Load (kg)
6	2500 x 1800	7500
7	3300 x 2000	7500
8	3300 x 2000	10000
9	3500 x 2500	10000

MOULD HANDLING

Rollover Stripping Station

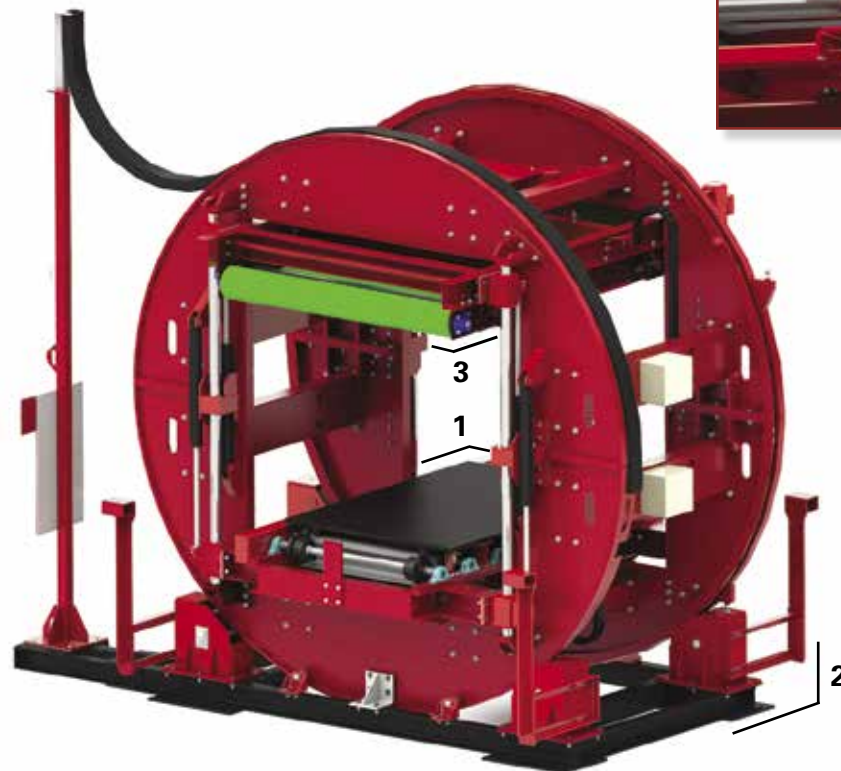
OPTIONS



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



2

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	885	1200	500	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

3

PROOF OF DRAW SENSORS

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



MOULD HANDLING

Flood Coating

Omega offers semi-auto or manual flood coating units.



OFF-LINE FLOOD COATER



MANUAL FLOOD COATER



IN-LINE TILT FLOOD COATER

Flood Coating		MOULD SIZE Length (mm)		MOULD SIZE Width (mm)		1/2 MOULD SIZE Height (mm)	
Size		Min	Max	Min	Max	Min	Max
2		780	1000	380	800	80	275
3		865	1200	500	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 ROLLOVER FLOOD COATER

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 serial mould production

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 Manipulator

Model	Max. Load (kg)	Min. Clamp (mm)	Max. Clamp (mm)	Max. Swing Radius (mm)
P350	350	300	750	275
P1000	1000	475	1390	625

Electric 'A' Frame Manipulator

Model	Max. Load (kg)	Min. Clamp (mm)	Max. Clamp (mm)	Max. Swing Radius (mm)
E1000R	1000	400	1350	800
E1250R	1250	550	1800	825

Hydraulic 'A' Frame Manipulator

Model	Max. Load (kg)	Min. Clamp (mm)	Max. Clamp (mm)	Max. Swing Radius (mm)
H2000	2000	550	1500	1100
H3000	3000	750	1900	1200
H4000	4000	1000	2350	1500

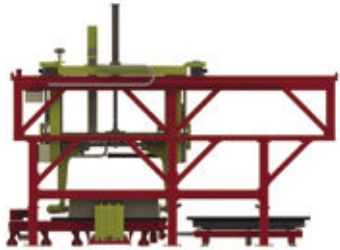
Hydraulic Beam Manipulator

Model	Max. Load (kg)	Min. Clamp (mm)	Max. Clamp (mm)	Max. Swing Radius (mm)
B1500	1500	775	1450	800
B3000	3000	950	2000	750
B5000	5000	950	2000	1100
B7500	7500	1250	3350	1400
B10000	10000	1350	3450	1400
B15000	15000	1850	3750	1465

MOULD HANDLING

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

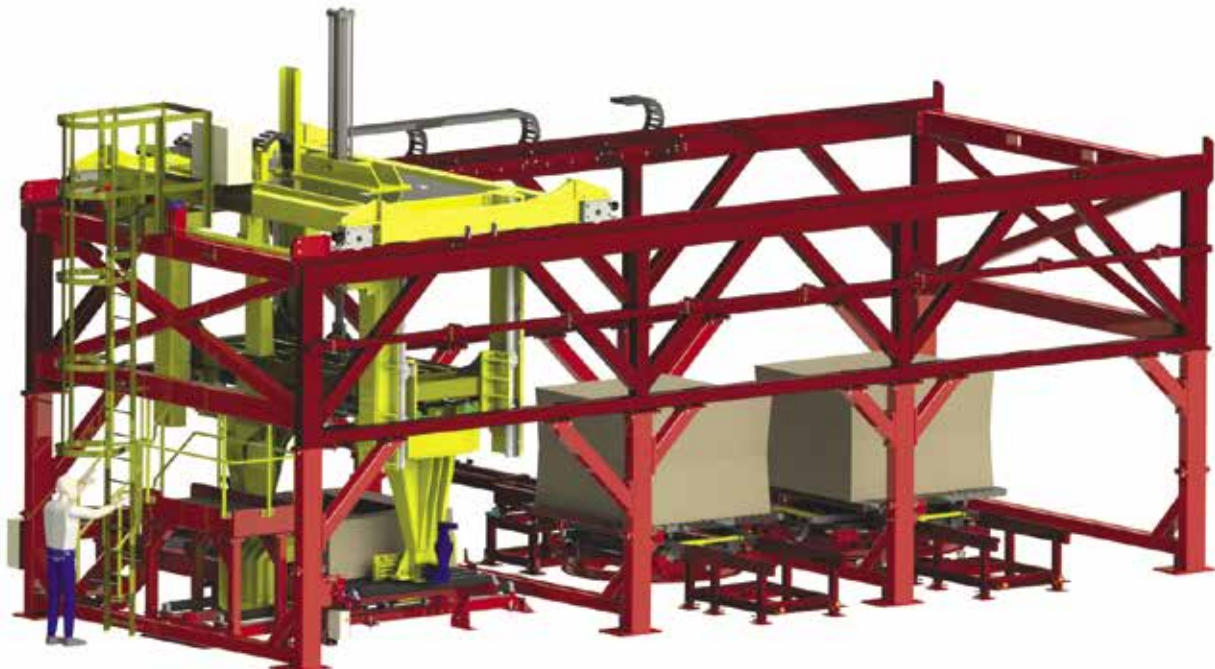


Step 4 - Cope half is centred on the 'y' axis, lifted and rotated through 180 degrees



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

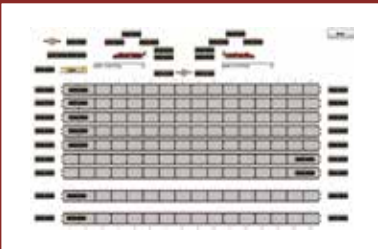


MOULD HANDLING

Automatic Mould Pouring and Cooling Lines



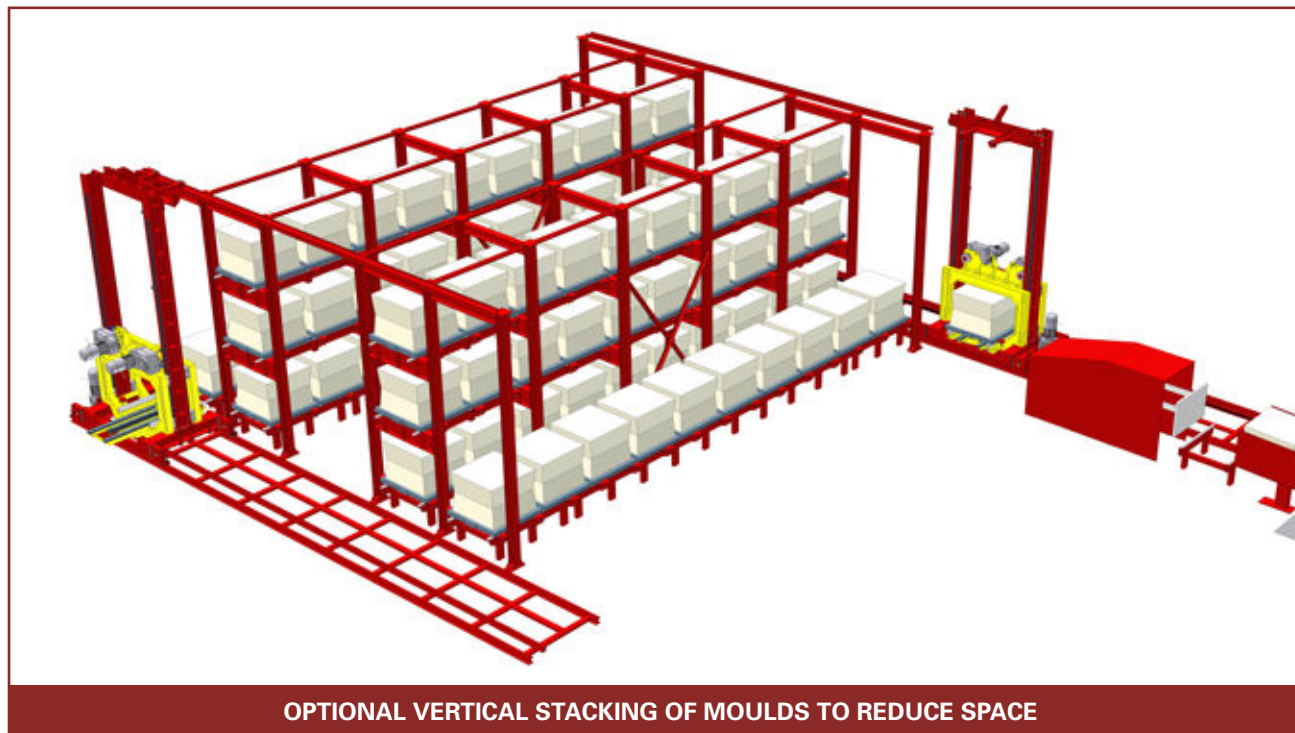
Hydraulic transfer car 'Push Pull' type



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)		
	Size	Min	Max	Min	Max	Min	Max
	2	780	1000	380	800	80	275
	3	865	1200	500	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

SAND RECLAMATION

GammaVator 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

3

LOW LEVEL LOADING

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

OPTION



FLUIDISED DISCHARGE FOR DUST REMOVAL



COMPLETE SYSTEM

Gammavator

Model	Output (TPH)	Deck Area (mm)	Deck Load (kg)	Loading Height (mm)	Power (Kw)
GV1	1	900 x 600	150	560	4
GV3	3	1000 x 1000	500	550	4.6

SAND RECLAMATION

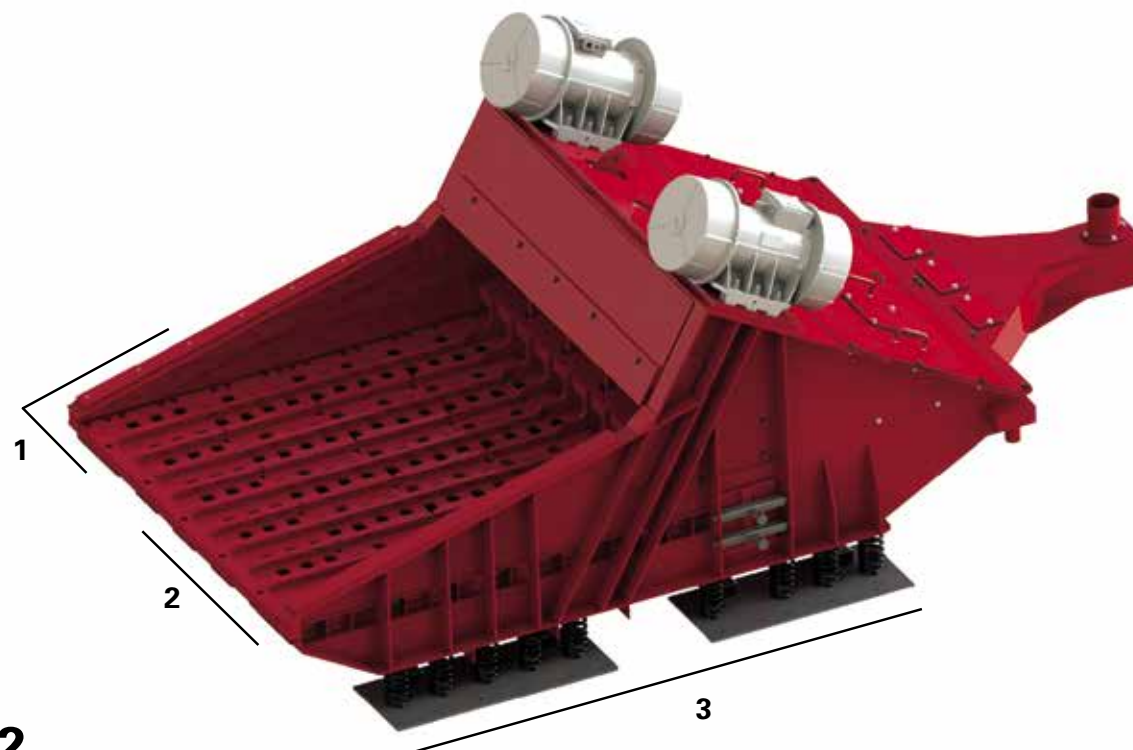
Gamma 'Low Level' Range 6-15 TPH



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

Gamma 'Low Level' Range

Model	Throughput (TPH)	Deck Area (mm)	Deck Load (kg)	Loading Height (mm)	Power (Kw)
6LL	6	1260 x 1270	1000	610	8.7
9LL	9	1500 x 1500	1500	575	8.7
12LL	12	2000 x 2000	3000	655	13.26
15LL	15	3000 x 2500	5000	855	30.88

SAND RECLAMATION

Gamma 'High Level' Range 6-30 TPH



MOUNTING OPTIONS



COMPLETE SYSTEM



1

ALL LINERS MADE FROM HARDOX®

- Long life, wear resistant liners and top screen



2

EASY SCREEN REMOVAL

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

Gamma High Level' Range

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

GammaMajor Combination Shakeout and Reclamation 15-20 TPH



1

CLEAN-OUT DOORS

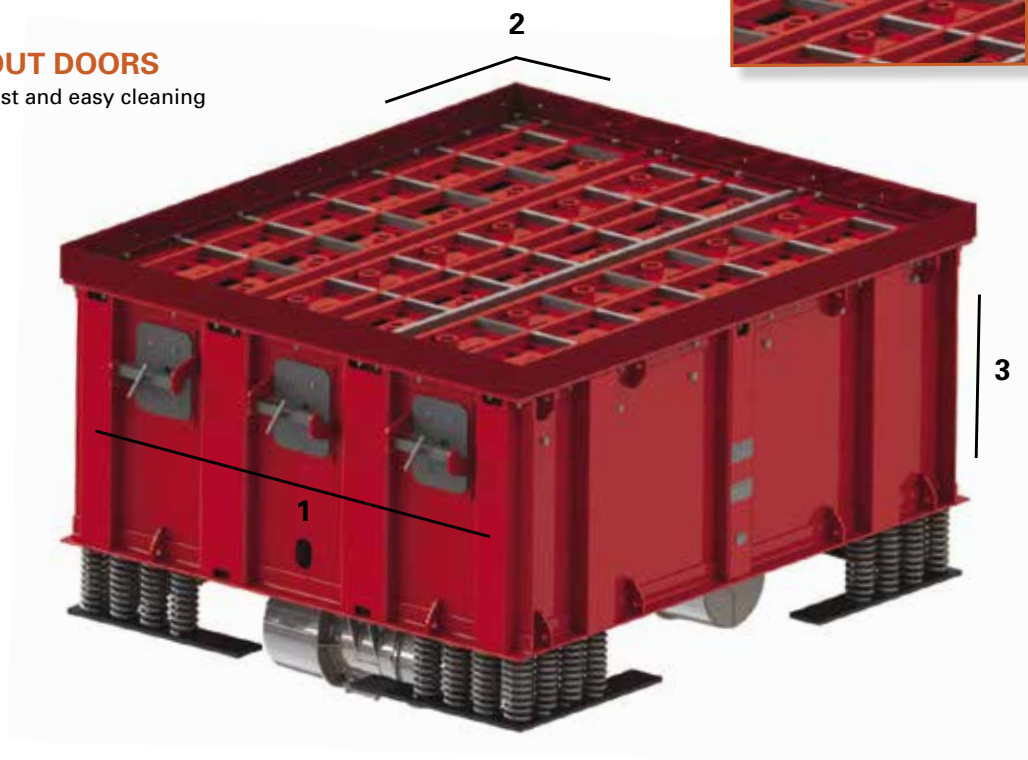
- Enables fast and easy cleaning



2

HEAVY DUTY DECK

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



COMPLETE SYSTEM

GammaMajor				
Model	Throughput (TPH)	Deck Area (mm)	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



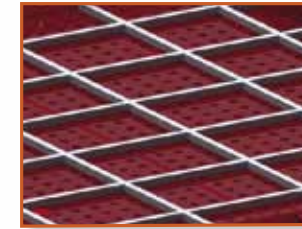
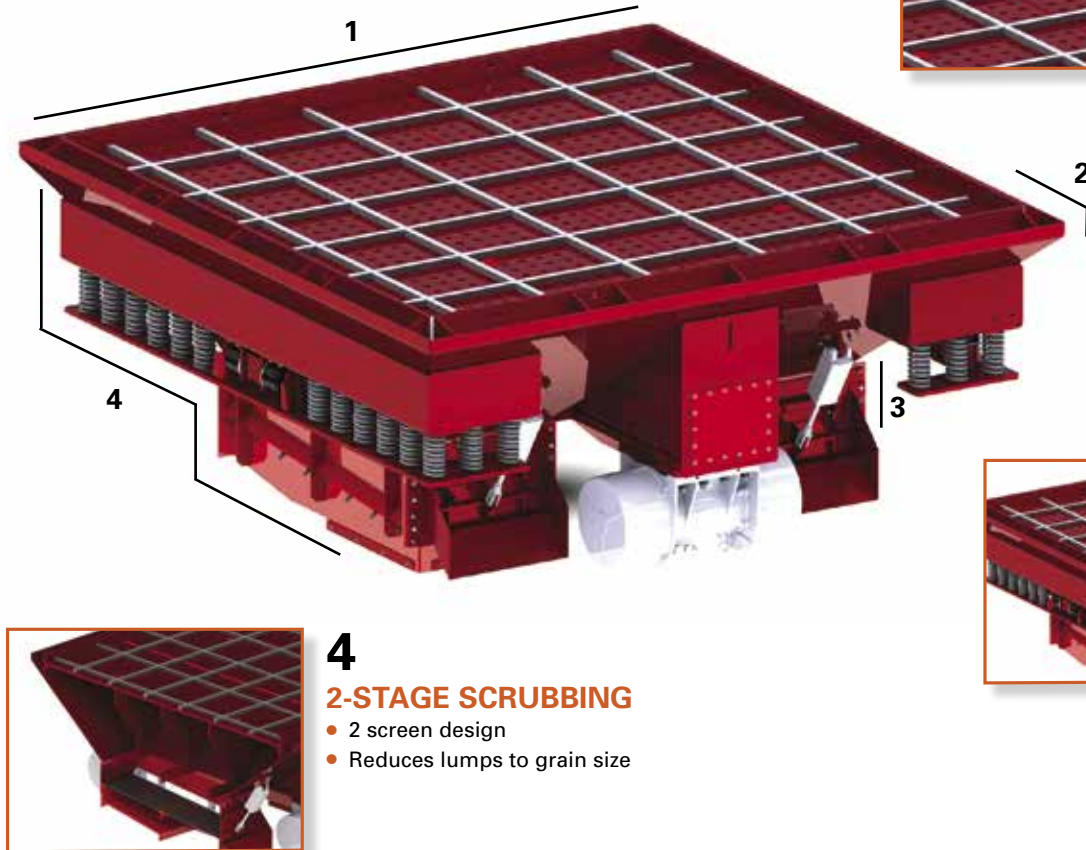
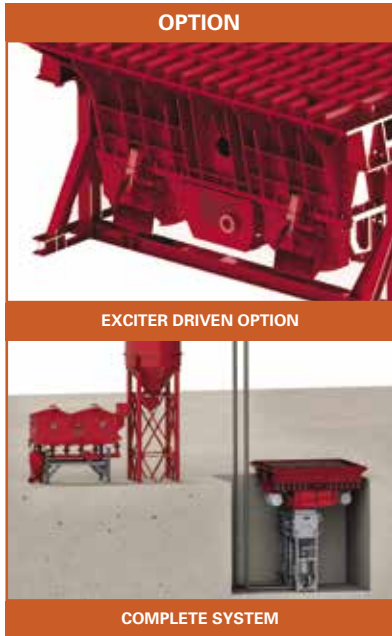
3

3-STAGE SCRUBBING

- 3 levels of screening for good binder removal
- Easy screen removal

SAND RECLAMATION

GammaMajor Plus 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

GammaMajor Plus

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

SAND RECLAMATION

Shakeout Decks

OPTION



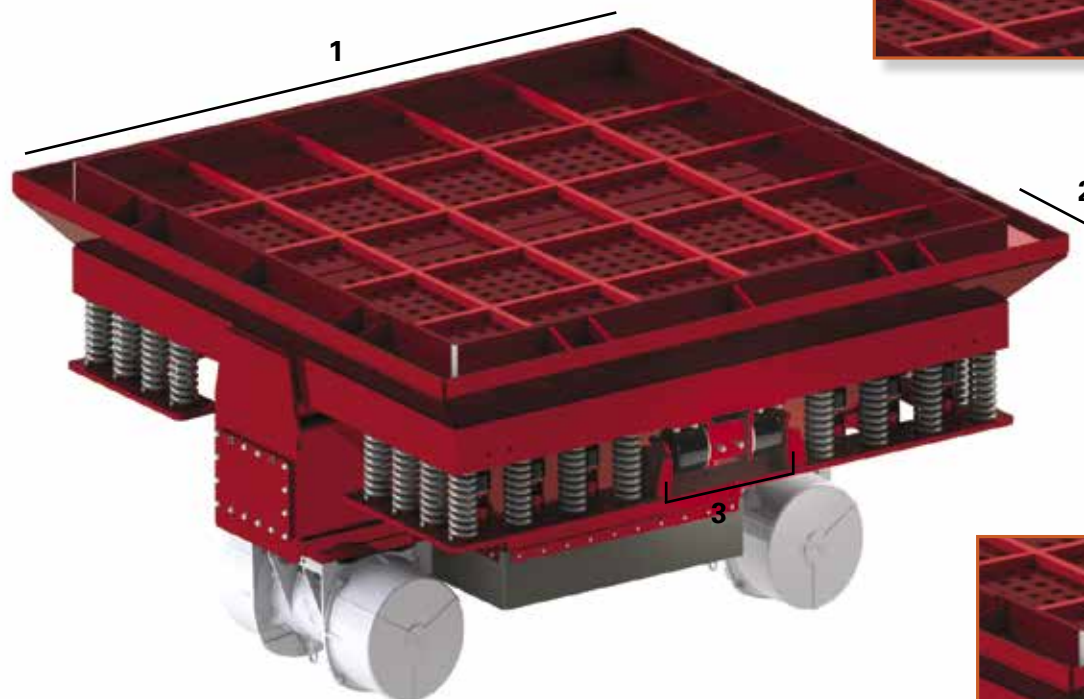
CARDAN SHAFT WITH OIL SPLASH LUBRICATION



COMPLETE SYSTEM

Shakeout Decks

Deck Area (mm)	Deck Load (kg)	Power (Kw)
1500 x 2500	5000	8
2000 x 2500	10000	12.4
2000 x 3000	15000	20
2000 x 3000	20000	25
2500 x 2500	15000	20
2500 x 3000	20000	25
3000 x 4000	20000	25
4000 x 4000	20000	25
3000 x 3000	25000	30
3000 x 4000	30000	55
3500 x 4000	30000	55
4000 x 4000	30000	55
4000 x 4000	50000	55



1 HEAVY DUTY DECK

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



2 SPILL SKIRT

- Reduces sand spillage

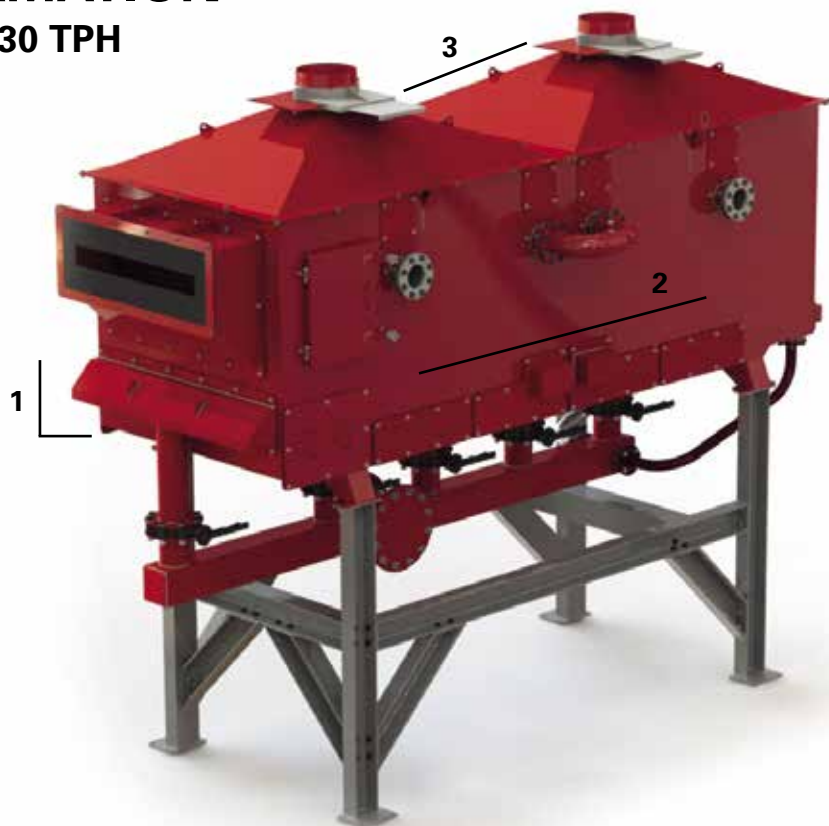


3 LATERAL MOVEMENT ARRESTER

- Prevents damage to springs and body

SAND RECLAMATION

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

Cooler Classifier

Model	(pgm)	Water (L/min)	Fan (m³/hr)	Extraction (m³/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

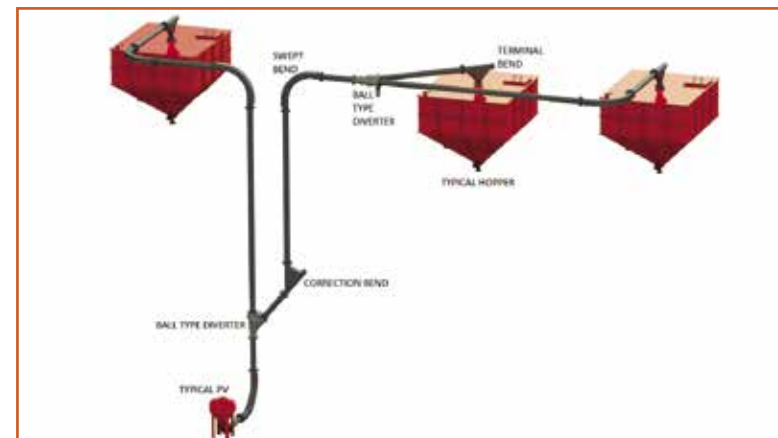
Sand Conveying Pressure Vessels



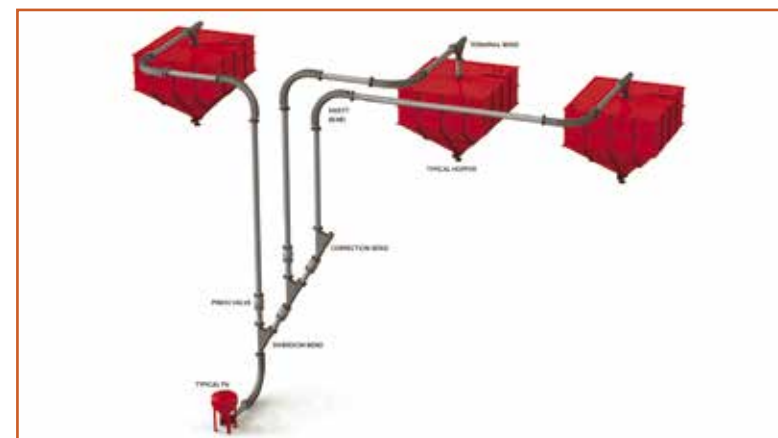
DENSE PHASE PRESSURE VESSEL



FULL PIPE PRESSURE VESSEL



BALL TYPE DIVERTER



PINCH VALVE DIVERTER

Dense Phase

Model	TPH for up to 50m Conveying Distance
DP35	2
DP60	5
DP100	7
DP130	9
DP200	13
DP250	15
DP330	18
DP570	30

Full Pipe

Model	TPH for up to 50m Conveying Distance
FP100	4
FP300	8
FP500	12
FP1000	18

OPTION



HOT SAND

SAND RECLAMATION

Chromite Separation

For separating and reclaiming chromite sand with purity levels greater than 98%.



1

FERRITE DRUM MAGNET

- For removal of metal contaminants and 'Dead' chromite



2

HIGH INTENSITY RARE EARTH MAGNET

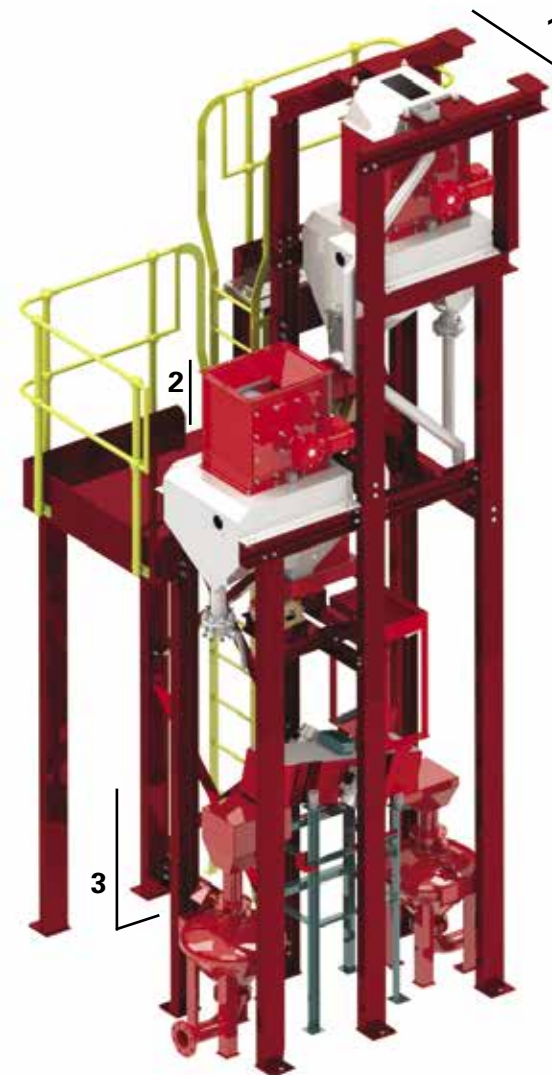
- For separation of chromite from the silica



3

FLUID BED DENSITY SEPARATOR

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



Chromite Separator

Size (TPH)	Power (Kw)	Dust Ex (m3/h)
1	6	1500
5	8	3000
10	15	4800

SAND RECLAMATION

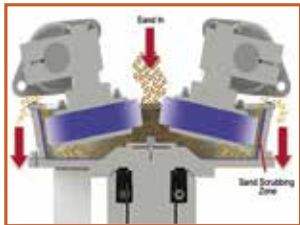
Secondary Attrition

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



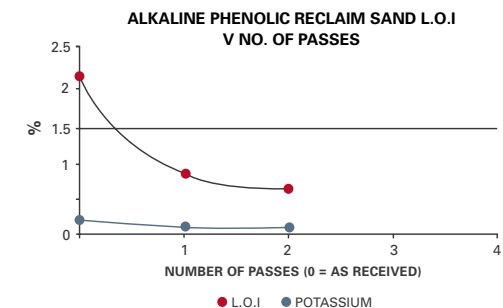
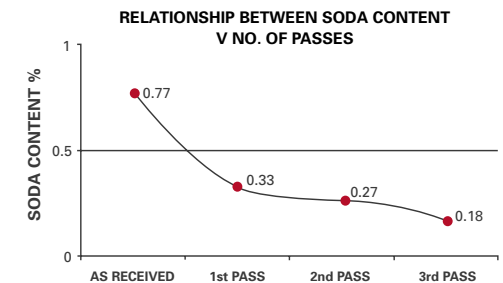
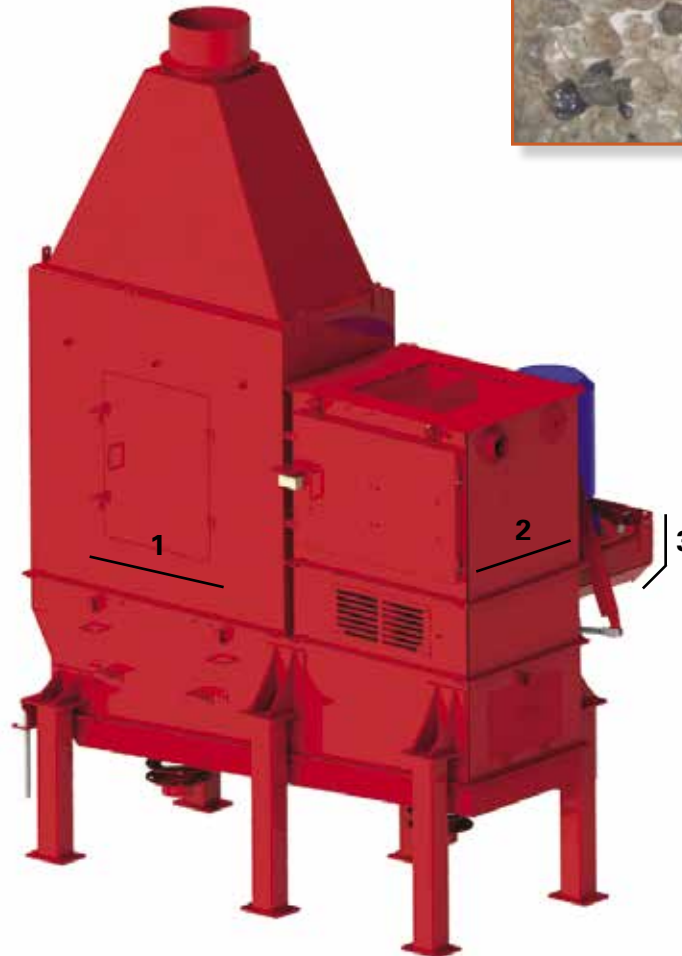
2 LONG-LIFE CERAMIC ROLLERS

- 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



USR Secondary Attrition

Model	Number of Cells	Power (Kw)
5.1	1	37
5.2	2	74
10.1	1	75
10.2	2	150

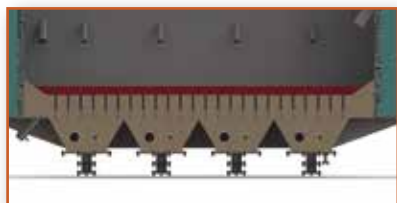
SAND RECLAMATION

Thermal Reclamation



SAND RECLAMATION

Thermal Reclamation



2 THERMAL INSULATION

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

3 STAINLESS STEEL BUBBLE CAPS

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

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

Thermal Reclaimer Combustion Chamber Model Selector								Natural Gas # Average Consumption (m3/T)	Propane # Average Consumption (Kg/T)
Loss on ignition % up to									
Kg/Hr	1%	1.50%	2%	2.50%	3%	3.50%	4%		
250	PX0.6G	PX0.6G	PX0.6G	PX0.6G	PX0.6G	PX0.6G	PX1G	47	10
500	PX0.6G	PX1G	PX1G	PX1G	PX1.5G	PX1.5G	PX1.5G	34	8
1000	PX1.5G	PX1.5G	PX2G	PX2G	PX3G	PX3G	PX3G	28	6
1500	PX2G	PX3G	PX3G	PX3G	PX4G	PX4G	PX5G	26	6
2000	PX3G	PX3G	PX4G	PX4G	PX5G	PX6G	PX6G	25	6
2500	PX3G	PX4G	PX5G	PX6G	PX6G	PX7G	PX8G	25	5
3000	PX4G	PX5G	PX6G	PX7G	PX7G	PX8G	PX9G	23	5
4000	PX5G	PX7G	PX7G	PX9G	PX10G	PX11G	PX12G	23	5
5000	PX7G	PX8G	PX9G	PX11G	PX12G	PX14G	PX15G	23	5
6000	PX8G	PX10G	PX11G	PX13G	PX15G	PX16G		22	5
8000	PX11G	PX13G						23	5
10000	PX14G	PX16G						22	5
12000	PX17G							23	5

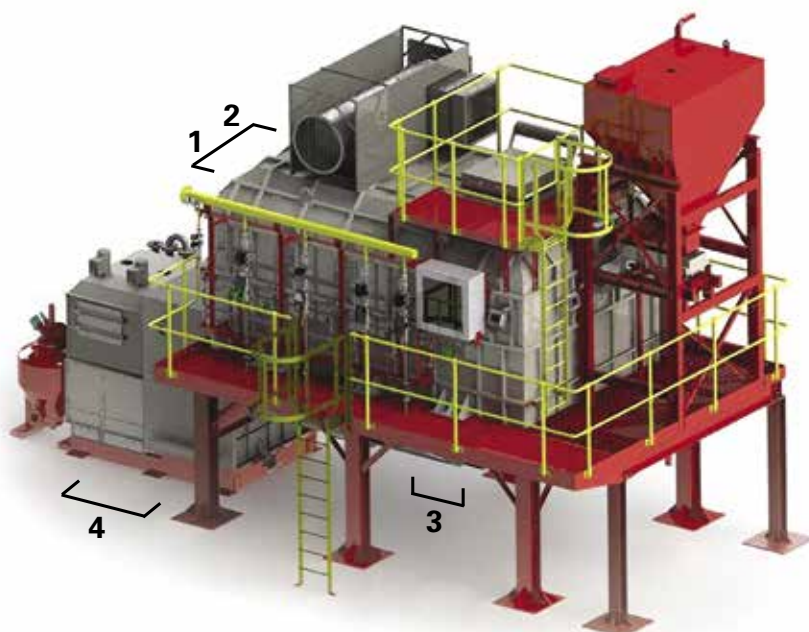
May vary due to calorific value of the gas
Figures based on continuous running of plant



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

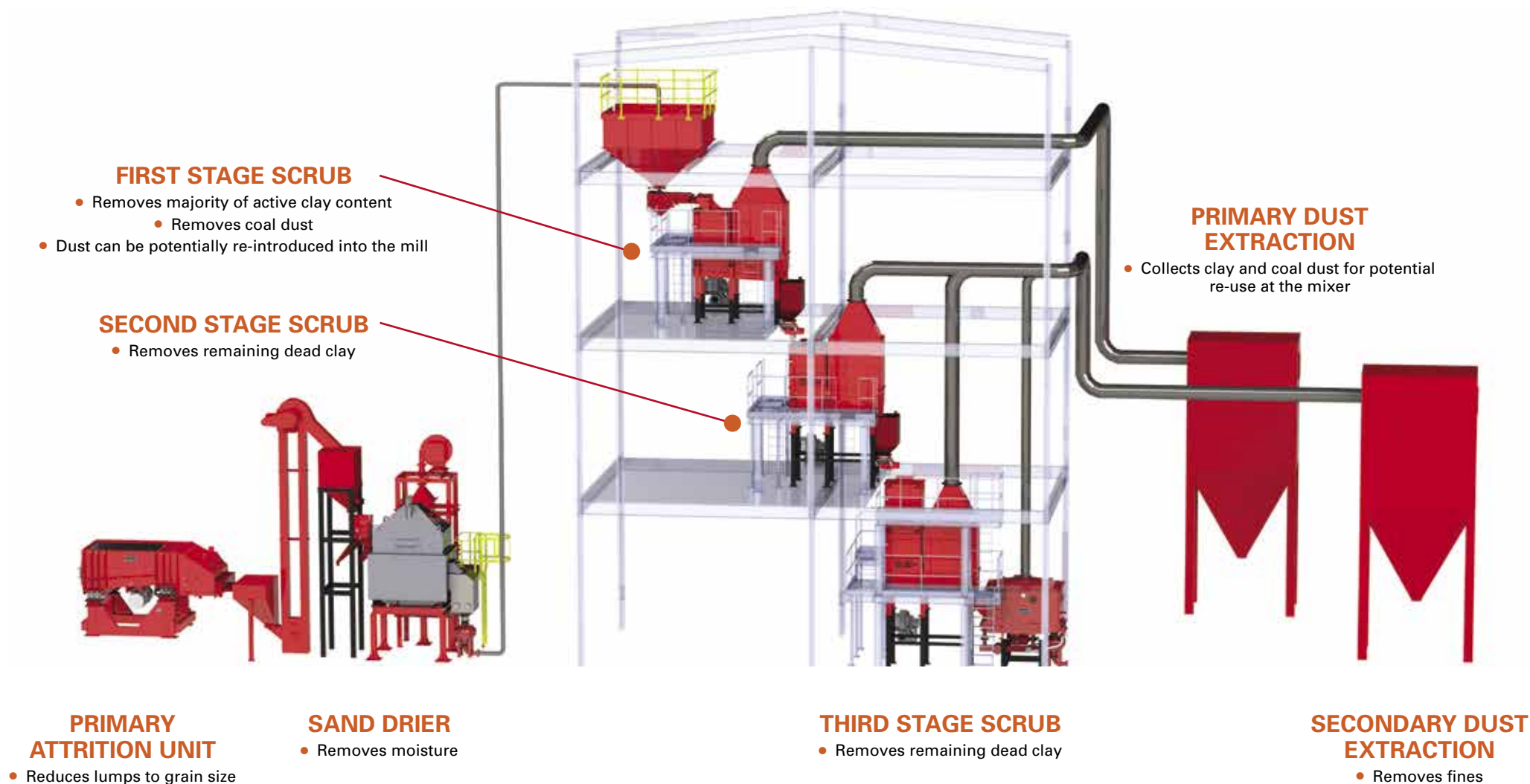
- Thermally treats the sand, typically between 700 - 850 °C

PRIMARY ATTRITION UNIT

- Reduces lumps to grain sand

SAND RECLAMATION

Greensand To Core Reclamation



CORE MAKING

Premium CB Series Cold Box Core Machine



- 1**
**HORIZONTAL AND VERTICAL
BOX ATTACHMENT**
- Quick change tooling



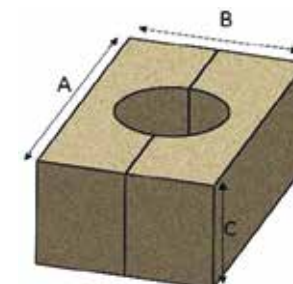
- 2**
VACUUM CLAMPING
- Allows easy box change



- 3**
EJECTION SLIDE
- Allows easy core removal



- 4**
**INTEGRATED CONTROL
PANEL**
- PLC control with storage of up to 500 recipes



Premium Core Shooters

Model (Litre Capacity)	Max Core Box Dimensions A X B X C (mm)	Core Weight (Kg)		Dry Cycle Time (Secs)
		Single Shoot	Double Shoot	
CB10	420 x 590 x 480	16	31	13
CB30	680 x 795 x 610	48	90	20
CB60	1000 x 1195 x 820	96	170	26

CORE MAKING

Compact Series Basic Core Shooter



1

ALL PNEUMATIC MOVEMENT

- Simple setup for vertical and horizontal tooling



2

INTEGRAL GAS GENERATOR

- For amine, methyl formate or CO₂



1

2

3



3

COMPACT FOOTPRINT

- Easy installation

Basic Core Shooters

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

S* = Slide

CORE MAKING

Speciality Core Shooters



- 1**
VERTICAL OR HORIZONTAL CLAMPING
- With optional vacuum clamping

Speciality Core Shooters

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	700 x 800 x 530	16	31	30
B12 GSE-I	700 x 800 x 450	16	31	30
B12 GSJ-I	600 x 600 x 650	16	31	20
B12 GS-JE-I	600 x 800 x 450	16	31	20
B30 GSI	700 x 800 x 700	42	75	30
B30 GSE-I	700 x 800 x 620	42	75	20
B30 GS-JE-I	600 x 800 x 600	42	75	20
B60 GSI	700 x 800 x 700	90	160	30
B60 GSE-I	700 x 800 x 620	90	160	30
B60 GSJ-I	600 x 600 x 800	90	160	20
B60 GS-JE-I	600 x 800 x 600	90	160	20
B60 GSI-XL	850 x 900 x 800	90	160	30
B60 GSE-I-XL	850 x 900 x 700	90	160	30
B60 GSJ-I-XL	660 x 600 x 800	90	160	20
B60 GS-JE-I-XL	600 x 800 x 600	90	160	20
25DOD	640 x 880 x 200 + 200	35	68	30
40DOD	640 x 880 x 200 + 200	60	110	30
25DOD	1500 x 1150 x 540 + 200	150	250	450
40DOD	2150 x 1500 x 540 + 200	35	68	30



- 2**
INTEGRAL GAS GENERATOR
- For amine, methyl formate or CO²



- 3**
INTEGRATED CONTROL PANEL
- Option for 400 recipe storage



CORE MAKING

No Bake Core Shooters

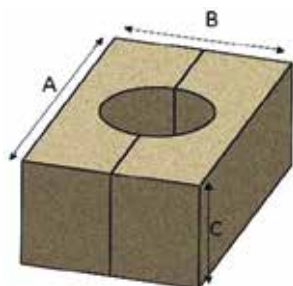
For the production of cores without the need for a gas hardened system.



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

No Bake Core Shooters

Model	Max Core Box Dimensions A X B X C (mm)	Blow Capacity (Kg)
NBB25	762 x 610 x 460	12
NBB50	762 x 610 x 610	24
NBB100	1070 x 810 x 876	48

COATING PLANTS

For Shell Curing Sand Process and 'Frac' Sand



COATING MIXER



DISINTEGRATOR



COOLER CLASSIFIER





WELCOME TO THE CONNECTED FOUNDRY

Omega Sinto Connect is a web-based monitoring system that enables Omega Sinto equipment to be monitored and adjusted remotely.

Taking the Foundry Industry towards Industry 4.0



Omega Sinto Support

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- Remote access for full support
- PLC updates

Production Benefits

- Full production reporting
- Material usage reporting
- Live notifications

Maintenance Benefits

- Real-time machine status
- Preventative maintenance
- Full live alarm logging
- SMS/Email notifications



Omega Sinto Spares

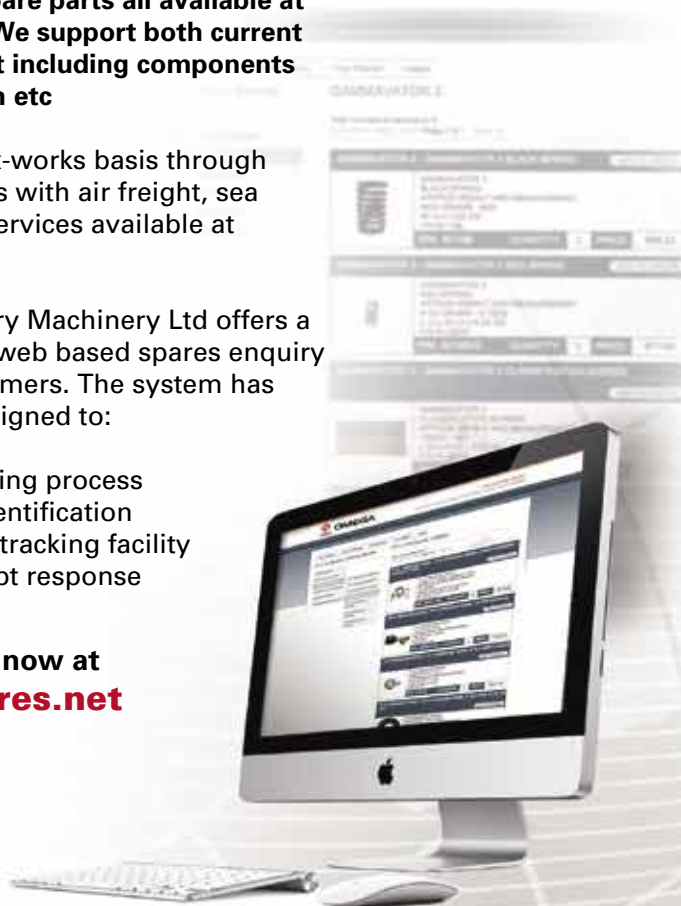
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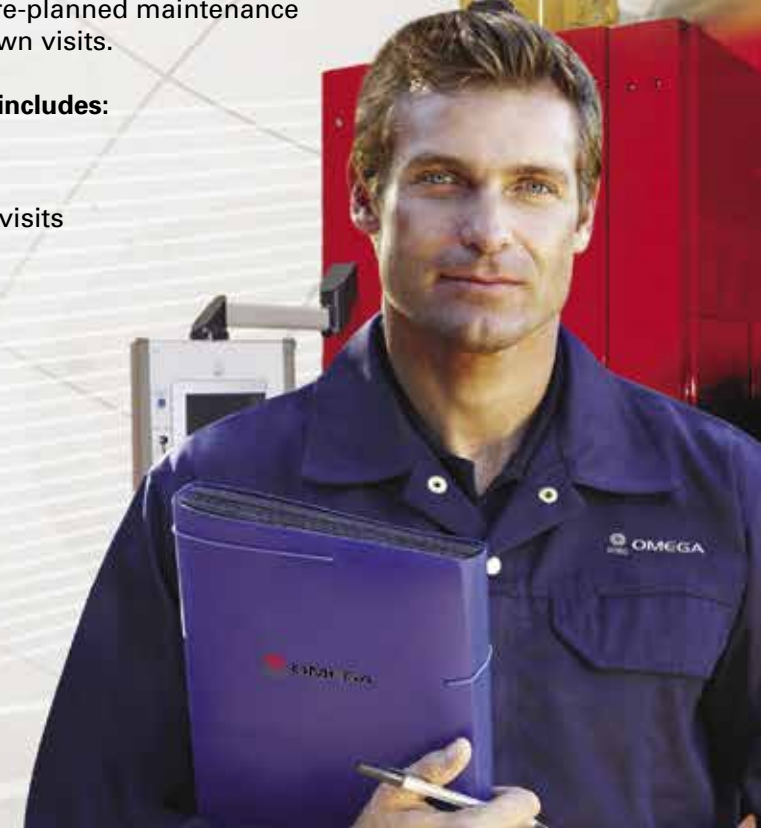
For our Worldwide Customers

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.

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





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