



STAR E3000 AND E3500 MOLTEN METAL TREATMENT SYSTEM

STATIONARY FOUNDRY AND DIE CAST ALUMINIUM DEGASSING SYSTEM

STAR E3000 and E3500 are rotary degassing systems with a movable arm drive unit and a remote control panel. The STAR E3500 has a flux injection module.

Both systems are highly reliable, require limited maintenance, extend consumable component product life, and have Shur-Lok couplings for simple shaft and rotor changes.

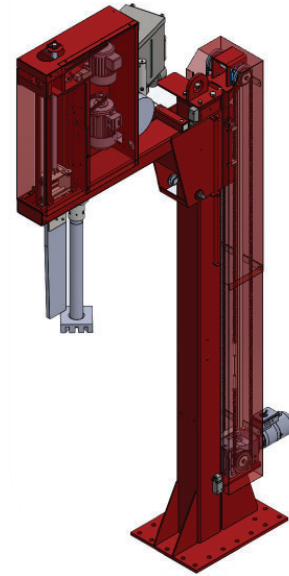
COMPOSITION

Property	Value
Dimensions—mm	2900 x 1600 x 1000
Electric Motor Power—kW	1.5
Electric Arm Lift Motor—kW	0.5
Arm Lift Height—m	1.3
Gas Supply	Argon or nitrogen
Inlet Pressure—kPa	600
Moisture	<3 parts per million
Oxygen	<5 parts per million
Purity	>99.999%
Power Supply	400 VAC, 3-phase, 25 A, 50 Hz Optional—230 VAC
Process Gas Supply—L/min	12–50
Purge Gas Supply—L/min	6–12
Shaft Rotation—rpm	1–700
Weight—kg	750
Flux Hopper Capacity—kg	25

BENEFITS

- Manual or automatic furnace or crucible treatments
- Durable modular design
- Deublin® rotary union feeds inert gas to the shaft
- Low maintenance
- Quick release Shur-Lok coupling
- Drive shaft bearings for shaft stability and concentricity
- Easily accessible shaft bearing lubrication fittings

Starburst is a registered trademark of Pyrotek Inc.
Deublin is a registered trademark of Deublin Company.



SHUR-LOK COUPLING BENEFITS

- Effective gas sealing
- Low gas leakage
- Easy and fast shaft replacements
- Extends shaft product life
- High strength and better cantilever loading capacity
- Improved alignment reduces shaft run out
- Eliminates stress points created by graphite threads

CONTROL SYSTEM BENEFITS

- Simple control panel
- Manual or automatic operation modes
- Password change protection
- Ten preset automatic treatment cycles
- Programmable logic controller system with data collection

OPTIONAL FEATURES

- 230 VAC power supply
- Analog (manual) control system
- Anti-splash shield
- Extra flux tank for E3500 system
- Control panel mounted to the system pedestal
- Starburst® or STAR rotors
- Temperature monitoring thermocouple
- Automatic or manual rotating column
- N₂/H₂ or Ar/H₂ forming gas
- Transport ladle positioning stand

AVAILABILITY

These products are specially engineered for customers in Europe.



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FLUX-INJECTION FEATURES

- Automatic lift baffle plate creates a metal vortex that remains active during flux injection
- Flux tank is easy to fill and drain
- Flux is dispensed at the beginning of the degas cycle
- Reliable and accurate flux injection

LIFT MECHANISM FEATURES

The lift is powered by an electric motor, worm gear and chains and extends to a 2 metre stroke with a boom extension adjustment. The lift can be powered manually during a power outage.

- Chain mechanism consists of two chains on wheels
- Rigid column stand is extremely stable
- Vibration, shake and flexure-free operation with robust cam roller column construction

STATIONARY SYSTEM FEATURES

- Standard rigid column is fixed to the floor
- Rotating column is optional
- Excellent stability

PRODUCT SPECIFICATIONS—STAR 3500 ROTATION

