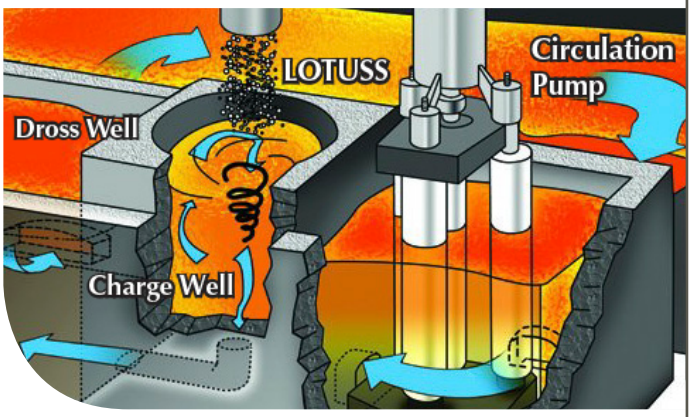
LOTUSS REMELT SYSTEM

LOW TURBULENCE SCRAP SUBMERGENCE

The Pyrotek LOTUSS light gauge aluminium scrap recycling system is designed to efficiently and cost-effectively remelt chips, turnings and borings from aluminium castings. The system consists of a molten metal circulation pump that transfers metal from the furnace, and a circular refractory well. The well has a unique design that generates downward vortexing action for metal flow. This metal flow pattern forces the scrap charge materials, to become quickly submerged below the metal surface which reduces oxidation and metal loss.

The LOTUSS system is used alongside a uniform rate continuous feed conveyor that is less than or equal to the furnace's thermal capacity. The system works adjacent to an open or side-well reverberatory furnace with a metal depth of at least 51 centimetres (20 inches), and has a metal charge rate melting capacity of up to 10,000 kilograms per hour (22,046 pounds per hour).

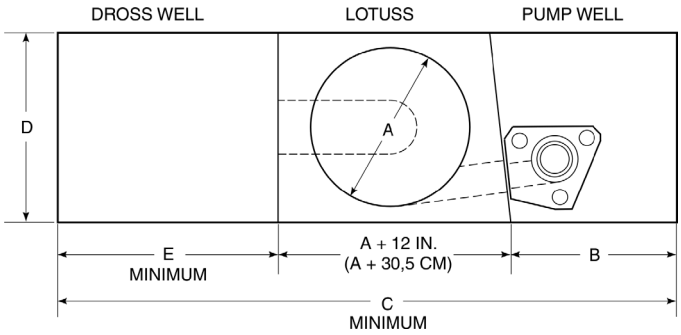


BENEFITS

- High metal recovery rates
- Maximizes metal production
- Designed for continuous, automated operation
- Low operating cost
- Low capital investment
- Low maintenance
- Easy installation
- Can be retrofit to existing furnaces

PRODUCT SPECIFICATIONS

The following illustration and table provides typical dimensions. Refer to system drawings for actual dimensions.



LOTUSS System Dimensions	Bowl Diameter (internal)		
	76 cm (30 in)	91 cm (36 in)	102 cm (40 in)
Maximum Chip Charge Rate–kg/hr (lb/hr)*	2000 (4409)	5000 (11,023)	10,000 (22,046)
Pump Model	T-35SD	T-45	J-50
LOTUSS Weight–kg (lb)	2722 (6000)	3629 (8000)	4536 (10,000)
Dimension A–cm (in)	76 (30)	91 (36)	102 (40)
Dimension B–cm (in)	91 (36)	106 (42)	117 (46)
Dimension C–cm (in)	381 (150)	472 (186)	493 (194)
Dimension D–cm (in)	107 (42)	122 (48)	122 (48)
Dimension E–cm (in)	183 (723)	244 (96)	244 (96)

** Chip charge rate is based on a chip density of 192 kg/m³ (12 lb/ft³)*
The optimal operational liquid metal depth is 51–76 cm (21–30 in)
The maximum liquid metal depth is 91 cm (36 in)

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Product Type: 191
Commodity Code: 26158