



EQUIPMENT LIST

Monticello, Minnesota

DIE CASTING EQUIPMENT

All die cast cells are fully automated with ABB - IRB 4400 Six Axis Robots for auto extract/trim, as well as Rimrock Auto-ladles and Reciprocators.

4	Dual Alloy (Aluminum and Magnesium) Die Casting Machines (2) 600 Ton Buhler 53D (1) 1050 Ton Buhler 84DLV (1) 950 Buhler 84DL	Commission Date(s) 2001 (x2) 2002 2001
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1	Aluminum Die Casting Machines (1) 950 Buhler 84DL	Commission Date(s) 2001
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Furnaces and Die Therm Regulators		Commission Date(s)
(1) MPH/Lindberg 20,000 lb. Central remelt furnace		2001
(3) MPH Holding Furnaces		-
(2) MDO 250 Rauch Magnesium Furnace, Pre-heaters, & gas mixing units		2001
(2) MDO 500 Rauch Magnesium Furnace, Pre-heater, & gas mixing unit		2009
(1) Dynarad MS600 melt/holding furnace		2004
(1) Stotek Dosotherm 1210 dosing furnace		2013
(6) Regloplas Dual Zone Hot Oil Die Thermal Regulator Units		-

Trimming Equipment
(5) Presses ranging from 25 to 75 Ton

CNC EQUIPMENT

1	Horizontal Machining Centers (1) Mori Seiki NH-5000	Commission Date(s) 2003
6	Vertical Machining Centers (2) Mori Seiki Mill Tap 700 (1) Fanuc T21IDL Robodrill (1) Bridgeport GX1000 OSP (2) Haas VF 3ss Super Speed (SS)	Commission Date(s) 2014 2004 2012 2015, 2016

INSPECTION EQUIPMENT

- CMM – Zeiss Contura w/Calypso Software
- Optical Emission Spectrometer
- Minitab Statistical Software
- Hardness Tester
- Deltronic 12" Optical Comparator