

DGH PROJECTS:

ELMER'S MANUFACTURING LTD., PHASE II EXPANSION

CIVIL

STRUCTURAL

MECHANICAL

ELECTRICAL

INDUSTRIAL



DGH Engineering Ltd. (DGH) is pleased to see Elmer's Manufacturing Ltd. (Elmer's) complete Phase II of their four-phase expansion in Altona, MB! DGH provided all engineering required to support the construction of the new facility, including floor plans, building code review, foundation plans, site plan, energy modelling, mechanical and electrical engineering services.

The Phase II expansion has allowed Elmer's to move many of their machining processes into one facility and create efficiencies in their process. The new facility includes amenities for staff including a breakroom/lunchroom, offices, and a conference room, as well as production processes and material receiving. DGH provided all building engineering services required to accommodate specialized equipment for sorting, cutting, braking, bending, and welding metal for the assembly of large farm equipment.

Unique to Elmer's Manufacturing facility is the use of a 30,000 cfm air conditioning system.



This system is a first of its kind for this type of facility in Manitoba. DGH worked with Elmer's to design an Air make up unit with HVAC system that would provide greater comfort for facility staff during the increasingly warm prairie summers as well as remove welding fumes. Due to the open layout required to manufacture large machinery, the system had to be sized accurately to provide sufficient cooling in an efficient manner. The air make up unit includes a heat exchanger to reduce the building's energy demands due to the large amount of fresh air needed for staff safety while welding. Office and staff areas include energy efficiency measures as well, such as occupancy sensors to reduce energy consumption related to lighting.

Whether you are planning a large-scale expansion, or simply need an outside engineer to assist with certification of equipment or to provide building design in support of upgrades, DGH is here to respond in person. Some of the services we provide include:

Services Provided

- ✓ Full-Service Engineering for Expansions, Renovations, and New Buildings
- ✓ Paint Booth/Oven Certification
- ✓ Arc Flash/Breaker Coordination
- ✓ Electrical Classification for Industrial Equipment
- ✓ Machine Safety Guarding
- ✓ Load Ratings, Fall Restraints, and Equipment Support and Towers
- ✓ Funding Assistance for Energy Efficiency Upgrades

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