

# Wastewater Treatment: Industrial Metals

Water reuse critical to manufacturing operation.

Stuart Ward of *Process Engineered Water Equipment* explains system design...

## Case Study

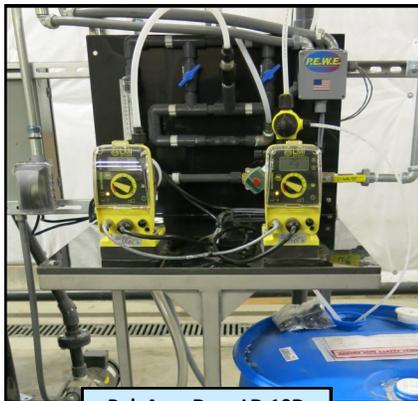
Hobart Brothers was incorporated in 1917 by Charles Clarence (C.C.) Hobart, along with his wife, Lou Ella, and their three sons, Edward, Charles and William. In 1925, it produced its first welder, which started Hobart Brothers on the path to becoming a preeminent company in the welding industry. Hobart Brothers out grew it's old manufacturing facility and was relocated to a larger space among its many satellite buildings. The old wastewater treatment system had shortcomings which just needed to be addressed.



New Wastewater Facility

PEWE provided a completely new wastewater treatment process. The new system entailed dual lift stations for acid and alkaline streams with EQ balance tanks, pH control, flow proportional PEWE *PolyAccu Dose™* chemical feed, a stainless steel PEWE *HD²XLRator™* DAF, *DeWater Systems™* belt filter press. Final polishing of the water was achieved with a multimedia filter. PEWE also provided *Rogue TRS-200S* trash pumps and level controls.

The *PolyAccu Dose™ LD-10D* chemical feed station coupled with pH control package provides very consistent and flexible dosing of coagulant and polymer to the DAF system whenever irregular and un-predicted spikes occur.



PolyAccu Dose LD-10D

## Industrial WWT System

The whole operation is automated with a PEWE *Command Control™* system. The equipment was delivered and the installation technical support team on site worked to get the plant up and running in

under a week's time. The chemical representative pre-jar tested the water to assure the right chemical program was in place and ready to go.



PEWE Command Control

## Final Results

Upon start-up the new wastewater recycle and pretreatment system produced the desired results. The dual lift stations and equalization tanks captured process line discharges. The pH tank effectively conditioned the water for downstream polymer application. The PEWE DAF, a *HD²XLRator™ LS-50* model, easily removed suspended solids while the triple multimedia filters polished the discharge. Solids were squeezed in the *DeWater Systems* belt filter press.



Another Successful Start-up

## Pay Off

Hobart Brothers management and the operators are pleased with the new wastewater treatment system. The copper wire facility will help keep their community working and the local environment **Green**.



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