



New Method Plating Co., Inc.

Established 1931

DEGREASER UPGRADE PROJECT

Conversion From Trichloroethylene to Alcohol-Based Solvent Degreasing



ABOUT US

- ESTABLISHED 1931
- FAMILY OPERATED BUSINESS
- USING TRICHLOROETHYLENE 50+ YEARS
- SPECIALIZE PRODUCTION ELECTROPLATING



MOTIVATION TO UPGRADE



- AGING EQUIPMENT-OLD UNITS 25 YEARS OLD
- THREAT OF BANNING TRICHLOROETHYLENE
- CHEMICAL HAZARDS
- WASTE REMOVAL COSTS
- ENERGY/MAINTENANCE REDUCTION

PROCESS OVERVIEW



BEFORE

AFTER

- 2 USES: SURFACE PREPARATION FOR PLATING & PART CLEANING
- MATERIALS CLEANED:
 - STEEL
 - DIECAST
 - BRASS
 - STAINLESS STEEL
 - ALUMINUM
- IMPORTANCE OF OIL & DEBRIS REMOVAL
- AVAILABILITY TO ADAPT VARIOUS JOBS

UPGRADES-EQUIPMENT & CHEMISTRIES

- ILSA IK40-e-VACUUM DEGREASING METAL CLEANING MACHINE
- DOWCLEN 1601 CLEANING FLUID-MODIFIED ALCOHOL BASED SOLVENT

OLD MACHINES



NEW MACHINE



IMPLEMENTATION EXPERIENCE

- CHEMISTRIES SELECTION
 - VARIETY CHEMISTRIES AVAILABLE
- TRIAL ON SAMPLES
 - DATA RESULTS TAKE TIME
- EQUIPMENT SELECTION
 - WIDE VARIETY EQUIPMENT AVAILABLE
- EQUIPMENT DELIVERY
 - EXTENDED WAIT FOR EQUIPMENT DELIVERY



CONSIDERATIONS & INSIGHTS

- REACH OUT-
 - TURI-SAMPLE TRIALS
 - CHEMICAL SUPPLIERS-FIND PROPER CHEMISTRY FOR APPLICATION
 - EQUIPMENT SUPPLIERS-SITE VISIT TO VIEW EQUIPMENT
 - RESEARCH TIMEFRAME-5 YEARS
- ALTERNATIVES COMPATIBLE
 - IMPROVED CLEANING RESULTS
- WASTE REMOVAL COST REDUCTION
 - TRICHLOROETHYLENE REMOVAL COST UP 159%
- MACHINE OPERATION
 - USER INTERFACE TOUCH SCREEN CONTROL PANEL
 - MINIMAL TRAINING REQUIRED-SYSTEM AUTOMATED



RESULTS

- Based on July 23rd 2025 Startup
- No Chemical Additions Made
- Maintenance & Lab Testing Alerts

REDUCED CYCLE TIMES:

-Fully Automated

+

MACHINE OPERATION:

-Decrease in Daily
Operation

ENERGY REDUCTION

-(1) Machine VS
(2) Machines & Electric Steam
Boiler

IMPROVED QUALITY:

-Based on QC & Customer
Feedback

Thank You
For Your Attention!

Any Questions

