

Euro-Tech Corporation  
N48 W14170 Hampton Avenue  
Menomonee Falls, WI 53051  
Telephone: 262-781-6777  
[www.eurotechcorp.com](http://www.eurotechcorp.com)

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**Contact:**  
Patricia Albers  
Marketing Coordinator  
Euro-Tech Corporation  
[pat@eurotechcorp.com](mailto:pat@eurotechcorp.com)  
262-781-6777

# Innovative Clamping Systems for EV Mobility Applications

Electric vehicles or EVs are increasingly popular options for people who want to save money on gas and decrease their reliance on fossil fuels. EVs are partially or fully powered from a battery or fuel cell.

The Mytec Hydraclamp product line of high precision hydraulic and mechanical clamping tools offers the innovation necessary for manufacturing E-Motors, Hybrid and E-drives.

Their product line of *Hydra-expansion* arbors and chucks are rupture-proof due to their seal-free design making them impervious to dirt. They offer a uniform expansion of the entire clamping range, very high concentricity and repeat accuracy of  $\leq 0.003\text{mm}$ .

Mytec *Hydra-mechanical* arbors and chucks are also seal-free for excellent wear resistance. They offer high rigidity due to plane tightening of the workpiece, large loading and insertion clearance, high concentricity and repeat accuracies of  $\leq 0.005\text{ mm}$ .

Workpieces include differential gears, stators, rotor shafts, gear shafts and differential housings. The gear grinding of pinion shafts, gear hobbing of pinion gears, gear honing of ring gears, balancing applications, double flank gear and noise checking and arbors for a torque test bench are typical applications.

To ensure superior manufacturing outcomes, Mytec Hydraclamp clamping tools may be incorporated in the assembly and production of the stator package, precision turning of the stator and the e-motor housing for the bearing seats, internal and external grinding of the main rotor shaft, gear hobbing of the transmission gears and shafts, gear grinding of the transmission gears and shafts, gear honing of the transmission gears and shafts, double flank gear checking machines, noise measurement machines, balancing machines and test machines.



Euro-Tech Corporation is the exclusive North American distributor of the Mytec product line.