



Manufacturing Technology, Inc.

Solid State Joining Solutions and Services

Linear Friction Welder Preventive Maintenance Package

GOLD ☆ **SILVER** ☆ **BRONZE**



MTI's Remote Assistance

Scheduled Preventive Maintenance is cost effective, combats production down-times, and is essential for prolonging the life of your capital investment. MTI's Remote Assistance (MRA) package can remotely monitor weld data, test cycle data, and fault log data files live, while the machine is running. PLC programming changes can also be done live. The MRA package requires MRA software installation, an internet connection, RS Logic 5000 installed, and Windows 7 or greater OS.

Inspect and Repair Auxiliary Equipment

MTI's scheduled visit includes a complete check of any auxiliary equipment in use. The resulting "health" report will contain MTI's recommendations to keep your auxiliary equipment healthy and operational.

Scheduled Visits

Quick Response

Remote Assistance

Inspect and Repair

Oil Sampling

Spare Parts

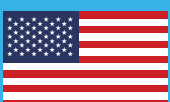
Training

Scheduled Visits

MTI will coordinate its visits with your production times to minimize disruption to parts production. Also, scheduled Preventive Maintenance (PM) service visits can be tailored to accommodate any plant shutdowns that occur throughout the year.

Technical Support

In addition to our maintenance packages, MTI offers its customers a time-zoned contact number for direct service and an Out-of-Hours contact cell phone numbers for speedy response.



Worldwide Service



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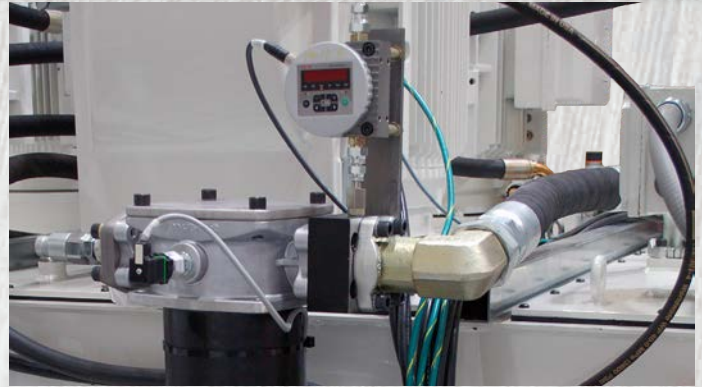
Oil Sampling

As part of each scheduled visit, oil samples will be taken and sent to one of MTI's recommended laboratories for analysis. The resulting data will be compiled into a complete report, including laboratory data, and sent to you.



Training

MTI offers training programs tailored to meet your requirements, ranging from operator use, controls training, and machine process improvements. Training programs are instructor-led, includes one complete set of training material for each attendee, and hands-on lessons where practical (Discount with PMP). MTI's on-site technicians can utilize their "open" time to refresh Operators on techniques, set-ups, review routine maintenance items, and machine control files.












Discounted Parts and Service

Plan participants receive pricing discounts on replacement and spare parts, when ordered within the plan's term. MTI's comprehensive machine checks and findings can be used for many standards, representing machine quality up-keep. Also, laser alignments or secondary device calibration can be accomplished. Contact MTI for additional discounts, including Verification/Calibration of RPM, PSI, and On-site Training.



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Scheduled Maintenance Package Comparisons				
Activity	Maintenance Package ^o			Description
	Gold	Silver	Bronze	
Spare Parts ^o	15%	10%	10%	Discount on parts only.
Machine Part Replacement ^o	15%	10%	10%	Discount on damaged machine parts only
Laser realignment ^{oo}	10%	5%	0%	Discount on laser hourly rate.
Instrument Calibration (RPM/PSI) ^{oo}	15%	10%	10%	Using MTI' calibrated equipment—Discount on hourly rate only.
Remote Assistance	Included	50%	25%	Discount - additional cost.
One Visit/Year				See Bronze package description.
Two Visits/Year				See Silver package description.
Three Visits/Year				See Gold package description.
Number of Days/On-site Visit	3	3	2	
36hr Response ^A				Out-of-warranty Response Times
24hr Response ^A				Out-of-warranty Response Times
Oil Sampling & Report				
On-site Training	15%	10%	10%	Discount
Preventive Maintenance Package Descriptions				
Bronze	<ul style="list-style-type: none"> Complete walk around inspection for damaged items, worn parts, leaks, damaged hoses, exposed wires, damaged cables. All filters changed depending on running hours and oil analysis which can determine possible component failure (pumps, oscillator bearings, etc.). Oil is not supplied by MTI, but we will assist removing and replenishing, if needed. Check all manual/automatic operational functions and positions. Check machine guarding, safety circuit, and any safety deficiencies. A complete health report of findings, corrections, and recommendations is included. 			
Silver	<ul style="list-style-type: none"> Includes Bronze package plus... Check hydraulic manual pressure settings per print. Will change settings with customer's approval only. Evaluate machine, weld, and fault logs to determine if any malfunctions exist. Make recommendations to the customer and adjustments, if needed. 			
Gold	<ul style="list-style-type: none"> Includes Bronze and Silver packages plus... Evaluate weld program settings, suggest possible improvements. Check machine way flatness and parallelism adequacies.[†] Check tooling alignment relationship.[†] Check oscillator/spool valve response, adjust if needed. Bench mark for future comparisons. 			

^oDiscounts of 10% or 15% apply up to the purchase price of the PMP. After the maximum discount is reached, discounts will drop to 5% or 7.5%, respectively, up to the purchase price of the PMP.

Experienced Accessible Dependable

Predictive Maintenance

MTI Remote Assistance (MRA) —

Predictive Maintenance (PM) can reduce unscheduled downtimes that often result in financial losses. PM promotes personnel safety, avoiding possible injury due to machine failure. PM, with MRA[‡], reduces such losses through proactively monitoring and identifying problems requiring repair. PM is a gain in production environments, rather than a loss through reactively replacing parts or people.

In addition to MRA, PM can be used to monitor changes in a machine through strategically placed sensors to predict oscillator, bearings, pumps, motors, pneumatic, and hydraulic issues; issues that can cause downtime and loss of revenue.

The PM package requires MTI MRA software installation, an internet connection, RS Logic 5000, Windows 7 or greater OS, and additional, appropriate sensor installations based on customer needs — at an additive cost.

Contact your MTI Service representative to find out more about how our Predictive Maintenance program and MRA can help you extend the life of your production equipment as an additive safeguard against unscheduled downtime, possible loss of key personnel, and financial burden.

[°]Package cost does not include transportation and lodging.

[‡]In accordance with the applicable PM package Response Times, the MTI contact process is as follows: Day 1, an email or telephone response, Day 2) submitted Customer Plan, Day 3) Service Engineer dispatched to site.

[†]Corrective action may require laser alignment; determined at scheduled visit.

[°]Optional - non-standard PMP item. Requires MTI quote.

[‡]Requires MTI Remote Assistance (MRA) installation.

Contact Information

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