



Robert Kirkpatrick, General Manager of Pacific Maritime Industries, Corp.

Productivity Drives Profit.

“We had been working on a \$1.5 million bid for nearly a year. Amada enabled us to decrease our cycle times by 60%, maximize quality, and secure the contract.”

— Robert Kirkpatrick, General Manager Pacific Maritime Industries, Corp.



Fiber laser technology, automation and an advanced integrated bending system ensures peak productivity.

Headquartered in San Diego, California, Pacific Maritime Industries (PMI) is recognized as a leading provider of quality products and services for the U.S. Navy and maritime fleet. To meet constantly increasing demands for high quality and quick delivery, Pacific Maritime partnered with Amada.

General Manager, Robert Kirkpatrick comments on how PMI leverages Amada’s fiber laser technology and advanced automation to reach unprecedented levels of productivity and flexibility. *“To realize the full potential of Amada’s ENSIS fiber laser, we also purchased an ASFH automated material handling/storage system. The reduction in cycle times, the capability to cut a wide range of materials and thicknesses with a single machine, and the ability to add rush jobs quickly and easily, gives us an extremely powerful competitive edge.”*

To better respond to customers’ demands for high-mix, low volume lot sizes, PMI also purchased the HG 1003 ATC integrated bending system. Kirkpatrick reflects on that purchase. *“Thanks to the Automatic Tool Changer, even with our most complex setups, the longest tool change we’ve experienced is 2 minutes 40 seconds. The ATC provides for quick and easy response to rush jobs and consistent part production from operator to operator. Our extensive in-house manufacturing capability is built on a solid foundation of talent and leading-edge equipment. Our long-term partnership with Amada has been instrumental in Pacific Maritime’s continued growth and success.”*

Amada’s fully-integrated and automated solution ensures:

- **Maximum Efficiency** – The 2kW ENSIS 3015 AJ provides fiber and CO₂ capabilities in a single machine. ENSIS cuts thin materials 4 times faster than CO₂ laser and is able to cut up to 1" thick mild steel. A highly innovative resonator automatically produces the optimal beam quality — enabling continuous processing of thin-to-thick materials by a single machine and no lens change or additional setup is required.
- **Maximum Versatility** – The HG 1003 ATC is the ideal bending solution for small lot sizes and complex tool layouts. The Automatic Tool Changer (ATC) and Amada’s patented tooling combine to ensure extremely precise and economical bending results while tripling or quadrupling the number of tooling setups per day.
- **Maximum Productivity** – The ASFH automated material handling/storage system ensures maximum machine utilization. Multiple shelves support a variety of material types and thicknesses — allowing for the seamless introduction of rush jobs in addition to extended periods of lights-out production.



The ASFH automated material handling and storage system maximizes the ENSIS fiber laser’s greenlight time. Multiple shelves and rapid pallet exchanges, provide for uncompromising flexibility. Productivity is further enhanced through lights-out operation during night and weekend shifts.



The Automatic Tool Changer (ATC) is equipped with 18 magazines for dies and 15 for punches — providing the flexibility to accommodate rush jobs quickly and easily.



The HG 1003 ATC allows Pacific Maritime to quickly and cost-effectively meet customer demands for high-mix, low-volume lot sizes. Even with complex tool setups, the ATC ensures consistently-precise automated tool loading.

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