

Innovative Fiber Laser Cutting Technology



WM | SERIES - F - PRO



**WHALE MACHINERIES**

*A Unit of Whale Enterprise*

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*A Versatile and extensive range*

# WM | SERIES - F - PRO

WM Series - F - Pro is Whale Machineries baseline laser cutting machine designed to provide the best value for price in the market. Whale Machineries is popular for intervening in the industry with pioneering innovations and this laser system provides excellent cutting quality as well as superior productivity. With its relentless attributes, it is turning out to be the favorite of fabricators.

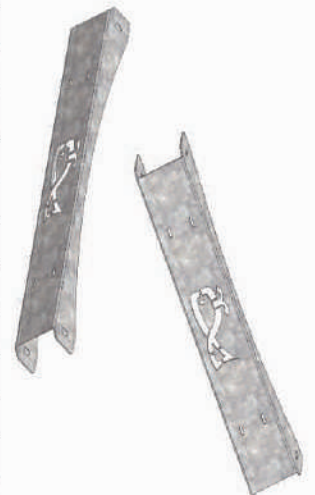
WM Series - F - Pro is a by-product of Whale Machineries trademark Fiber Laser cutting series which stands tall in reliability, efficiency and productivity. It is designed for fabricators ready to start with Laser cutting technology and expecting productivity at an affordable price and minimum lead time for supply made to order.



MODEL	WM-F-PRO 3015	WM-F-PRO 4020	WM-F-PRO 4025	WM-F-PRO 6020	WM-F-PRO 6525	WM-F-PRO 8020
Working Area	3000 x 1500	4000 x 2000	4000 x 2500	6000 x 2000	6500 x 2500	8000 x 2000
Laser Power Source (IPG, RAYCUS, MAX, JPT)	1-20 KW					
Positioning Accuracy	± 0.05 mm / m					
Repositioning Accuracy	± 0.02 mm					
Maximum Rapid Speed	120 - 150 m / min *					
Maximum Acceleration	1.5 - 2.0 G *					
Controller	FS Cut 2000E / Cypcut 8000					

## SPECIFICATIONS

S.No	DESCRIPTION	STANDARD	OPTIONAL		
1	FIBER LASER SOURCE	RAYCUS / MAX / JPT	IPG		
2	LASER HEAD	RAYTOOL / OSPRI			
3	NUMERICAL CONTROL SYSTEM	CYPCUT / FS CUT	FANUC / BECKOFF		
4	SERVO MOTOR AND DRIVE	YASKAWA / DELTA / FUJI			
5	PRECISE RACK	YYC ( TAIWAN )			
6	LINIER GUIDE & BALL SCREW	HIWIN / SMG			
7	ELECTRICAL CONTROL	SCHNEIDER / SIEMENS			
8	WATER CHILLING UNIT	HEXACOOOL			
9	PANEL AC	HEXACOOOL			
10	PNEMATIC COMPONANENT	SMC			
11	DUST EXHAUST FAN	BUILD IN PIPES AND BLOWER			
12	ACCELERATION SPEED	1 G			
13	POWER CONSUMPTION APROX	1.5 KW	3 KW	6 KW	12 KW
		12 KW	20 KW	32 KW	56 KW



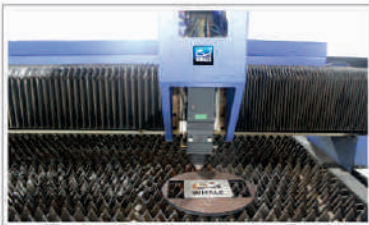


## FEATURES

- ✦ Remote access and pre-alert of maintenance and health of machine reduces downtime of machine.
- ✦ Two stage capacitive detect gives sheet angle precision detect and adjust nested sheet accordingly.
- ✦ Vision Cameras helps to monitors the cutting process, pallet exchange and operator console.
- ✦ New integrated design incorporating CNC control panel, laser source with the machine.
- ✦ Machine compatible with Nesting software's from Sigma nest, Lantek and Metallix.
- ✦ Production process controlled as per the QR code of the sheet to be processed.
- ✦ Magnetic Sheet clamping mechanism secures the sheet while cutting process.
- ✦ QR code scanning system to controller helps to retract right parts and design to be loaded and avoid mistakes and errors from machine operator.
- ✦ WM Series-F-Pro Machines with ECAT technology are IOT 4.0 ready.
- ✦ Dual Pallet exchange speed less than 18 Seconds.
- ✦ 6x speed piercing feature for faster production.
- ✦ Sheet Auto Detection - Drop Hole Error.
- ✦ No sheet underneath or nozzle touch.
- ✦ Six zone fume extractor.
- ✦ Touch Capacitance.
- ✦ Auto Calibration.

## Optionals

- ✦ Auto Nozzle Exchanger (Optional).
- ✦ Auto Nozzle Cleaner (Optional).
- ✦ Nozzle Beam Centring (Optional).
- ✦ Slat Conveyor (Optional).
- ✦ IOT (Optional)



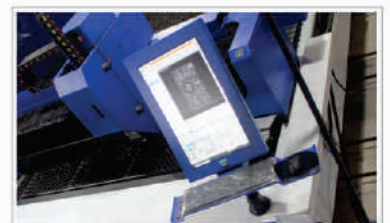
**AUTO FOCUS :** With An Alert Auto-focusing Function, The Laser Head Can Automatically adjust The Focus To Most Suitable Position When Processing Different Materials And Thicknesses. This Will Remarkably Improve Efficiency Of The Laser Cutting Machine, And Reduce The Processing Time Significantly

**SCRAP TROLLEY :** A Built-in Swapping Scrap Trolley System Allows For Flexible Part Collecting After Cutting From Either Side



**RAPID GAS :** With Only One Click, Rapid Gas Switchover May Switch Between Gases Like O2, N2, And Air. The Ability To Cut A Variety Of Materials Combined With Rapid Gas Switchover Capabilities Significantly Cut Down On The Time Lost By Manually Changing The Gas Each Time.

**USER FRIENDLY HMI :** Our WM Series-F-Pro Human-machine Interface Is Incredibly Adaptable To The Needs Of The Machine User. It Allows For Manual Input, Touch Screen Capabilities, And A Wireless Remote System, Which Together Provide The Machine Operator The Greatest Flexibility Possible While Operating The Machine And Live In Action.



**SMART MATERIALS ENGINEERING :** The intelligent sample vault stores the Cutting parameters of all materials and sheet thicknesses for quick and easy processing. With just a few clicks, it can create simple designs in a fraction of a second.





## THE COMPANY

Under the visionary leadership of our Managing Director, Mr. Mark Warmington, Whale Tankers aims to establish the "WHALE" brand on a global scale. Harnessing innovative technology, dedicated research and expertise, our vision has evolved into a mission, embarked on a remarkable journey with the creation of a new division "WHALE MACHINERIES"- Commitment to Excellence, aimed at serving global markets.

## OUR STORY

Our journey began with the vision of creating a comprehensive range of tankers that meet the specific requirements of Indian applications. With over five decades of experience in Europe, we brought our expertise and philosophy to India, focusing on delivering long-term value to our customers.

## TRAINING

Central to Whale's success is not only the training of its staff but also the provision of structured training for its product. This meets the changing needs of today's laser solutions. The company is also respected for its onsite commissioning of all new products.

## QUALITY

Whale Machineries cares about quality across all aspects of its business. Indeed it is a word that characterises the company. Whale complies to ISO 9001 : 2015 accredited by TUV, Europe and all Whale products fully comply with all relevant legislation and regulations. It also has the benefit from being supported by its UK parent company Whale Tankers the largest manufacturer of vacuum tankers and jetting equipment in Europe.

*Reliability, Service, Value ... for Life*

**WHALE MACHINERIES**  
A Unit of Whale Enterprise

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