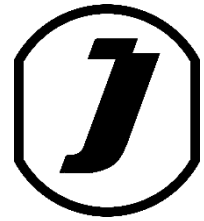


Jekran X-MW series CNC waterjet





All images contained in the brochure are for display purposes only and may contain optional equipment not normally supplied with the machine. Jekran reserves the right to change specifications, designs, standard equipment and any other parameter as the need may arise. Please consult your sales quotation for actual machine specifications.



Jekran Ltd was founded in 2011 specifically to develop and produce various types of CNC Machines. The company contains a wealth of experience with direct involvement, in the design, production, repair and use of CNC equipment for over two decades. Being based in Malta, the company is well connected to all the major European, North African and Middle-East markets. All company personnel speak English as a first language meaning excellent support and easy communication with every department within the company.

“We look forward to welcoming you
to Jekran and providing you with a valuable
solution to your business needs”

The Jekran Team

The Jekran X-MW series

The X-MW series strategy follows the concept of building a reliable machine at a cost-effective price, without compromising client's value.

The best option does not need to be translated to be the most complicated, however, we believe in value, innovation and quality through simplicity.

DESIGNED BY	APPROVED BY	MATERIAL	FINISH
Jeffrey Vassallo	Stephen Mella	SEE SUB PARTS	20/01/2017
QUANTITY	SCALE	SIZE	DATE
	2:1	A3	
WFPB head - High pressure pipe holder		All dimensions in mm	
PART NO		DO NOT SCALE (R220)	
1		2	
3		4	

Jekran

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Tel: 604-291-1000





11010428
M-24 VDC
32502424C
M-24 VDC
32502424C



⚠ DANGER

**Keep hands away
from
jet and nozzle**

Simplicity of use

Simplicity of maintenance

Incorporated features

- Fully welded chassis
- User friendly setup and operation
- Dual bridge motor
- Planetary gearboxes on axis
- Accurate and repeatable axis movement
- Rapid traverse speed
- High Z-axis head room
- Belt driven axis makes machine accurate and agile
- Circular rails to minimize accumulation of grime with easily replaceable wipers
- Remote diagnostics through team viewer
- After sales assistance
- Feed rate potentiometer to adjust feed rate on the fly
- Ergonomic console design
 - Console can be located anywhere around the machine
 - Protecting electronic components
 - High quality components – Servo drives and motors
- No folding bellows to replace
- Z-axis head enclosed by stainless steel cover to withstand repeated exposure to aggressive cutting environment

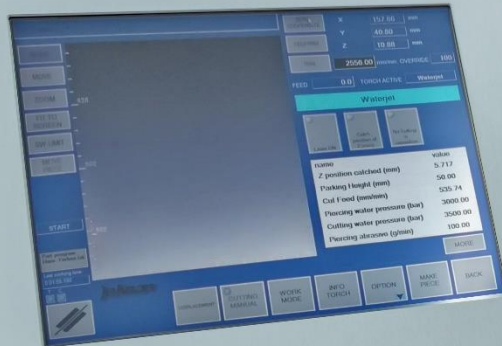
- Direct drive Hammelmann German quality pump triplex piston pump
- Rated 45kW
- Suitable for tap water quality – No RO water required
- Energy efficient pump
- 3800bar/55000psi at 100% duty cycle
- For 0.35mm/0.014" orifice
- 4 l/min at 3800bar, 0.35mm orifice
- 30kW Italian Elvem motor
- Variable frequency drive optimising pressure output for delicate substrates such as composites and ceramics
- Reliable operation with guaranteed 1000hr operation between servicing, locally proven with over 5000hr
- With included charge pump for locations where input pressure is limited
- Reservoir included to compensate for irregular water supply
- 10µm and 1µm filtering with alarm for filter change
- Low operating cost





- Minimal installation and setup time from container to first cut
- Easily packaged and transported
- Shipped pre-assembled and factory tested through rigorous check lists
- Bulk garnet delivery system
 - Automatic feeding system, PLC controlled with variable potentiometer for accurate configuration according to garnet mesh grade
 - Operation does not need to stop to top-up with additional garnet
 - Up to 80L/~320kg garnet capacity
 - 10L pressure vessel capacity
 - Low garnet level tank sensor
- Adjustable garnet dosing hopper
 - Swappable metering discs to vary garnet flow
 - Also, possible to cut with pure water for soft materials such as rubber
- Laser cross hair for indication of trial movement and to determine part origin
- Minimal number of hard-wired sensors, reducing possible nuisance issues
- CAM software provided with machine

Control Unit



ISAC



The Jekran X-MW series is designed around an industrial PC and a dedicated CNC controller. This means that the PC will return to its initial state when reset, being safe from malware or viruses. With easy graphic user interface, the Jekran software and control package has proved itself a success with clients. The intuitive touch screen with large icons makes this controller suitable for all proficiencies, especially with assistance from the integrated materials database.

The database gives access to a vast library of material and thicknesses revealing all technical parameters necessary to process the desired workpiece, such as piercing and cutting pressure, feed rate, garnet operation etc...

The operator selects the material, thickness and cutting origin start point. The rest is assisted by the machine. Additional control is provided through the feed rate potentiometer, allowing the possibility of direct response to the cutting operation by adjusting this on the fly.

Having live internet-based support as standard, operating this waterjet has never been simpler

Technical specifications

Parameter	Units	Value			
		X-MW			
		44	84	105	107
Electrical power	kW	32			
Supply voltage¹	V	400			
Supply frequency	Hz	50/60			
Max. current²	A	62			
Overcurrent fuse requirements	A (T)	100			
Phases	~	3			
Max. feed rate - Cutting	m/min	7			
Max. feed rate - Traverse	m/min	15			
X-axis range	mm	1250	2450	3050	3050
Y-axis range	mm	1250	1250	1550	2050
Z-axis range	mm	125			
Z-axis head room	mm	100			
Accuracy and repeatability	mm	±0.03			
Max. platform holding capacity	kg/m ²	250			
Maximum sheet thickness	mm	100			
Operating system	/	Embedded Windows 8			
Maximum operating temperature	°C	40			

Parameters are indicative and are subject to change without notice.

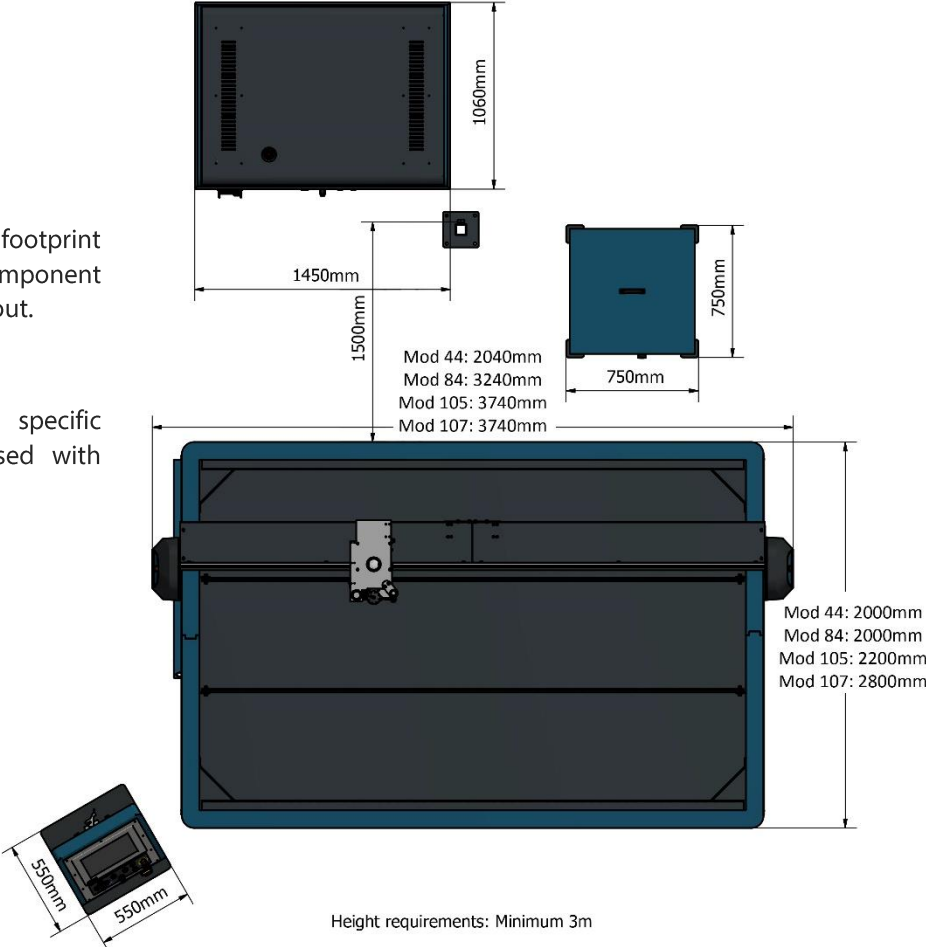
¹Supply voltage can vary according to customer requirements

²Current will vary according to supply voltage

Floorlayout

The schematic indicates the footprint requirements of each component and the suggested floor layout.

Other formats due to specific limitations can be discussed with your authorised distributor.





Parts and Consumables

Where possible our machines have industry standard fittings and items to ensure that constant supply and availability of parts within the long term remains. Jekran understands that in the industry of CNC machines downtime can be disastrous, thus a comprehensive stock of parts and assemblies are maintained for immediate dispatch once ordered.

Aftersales & support



JEK

We will also maintain contact with our customer base to ensure that machines are being updated and running the latest software versions available.

While Jekran CNC machines are designed around the concept of being maintenance free and ultra reliable, occasionally our clients will need support. These could be for both routine maintenance or very rarely machine/component malfunction.

We have a department which is specifically charged with looking after such issues and the machines have been designed in a manner which enables very easy maintenance to be conducted.

In areas where internet connections are available we can even remotely connect to our devices and diagnose or troubleshoot in real-time.

We have a set-up of technicians which in the unlikely event that we cannot provide the required assistance remotely, can be on-site in most locations within 24hrs of a reported issue.

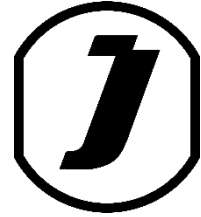


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