

CUSTOM CLEANING EQUIPMENT THAT REDEFINES MANUFACTURING POSSIBILITIES

With over 100 years of unwavering commitment to quality and creativity, our unparalleled solutions position the most esteemed global manufacturing companies to seamlessly operate at maximum capacity.

LEARN MORE AT MAGNUSEQUIPMENT.COM

MAL24 1X, 1.5X, 2X

RECOGNIZED AS THE INDUSTRY STANDARD

The Magnus MAL24 series is the latest design of the original pneumatic driven platform agitation parts washer.

THOROUGH CLEANSING POWER

Continuous flushing of hard-to-reach interior areas via vertical agitation.

VIGOROUS CLEANING CAPABILITIES

Customizable options including particulate filtration, oil removal, ultrasonics, & high volume liquid sparging are available to enhance the time-tested and proven platform agitation.

MODULAR BY DESIGN

The modular MAL24 Series can be integrated into any cleaning application as either a stand alone unit or multi-stage system. Manual or automatic load transfer available with either option.

PNEUMATIC AGITATION CONTROL

Offers short & long strokes for cleaning various part types.

SYSTEM LOAD CAPACITY

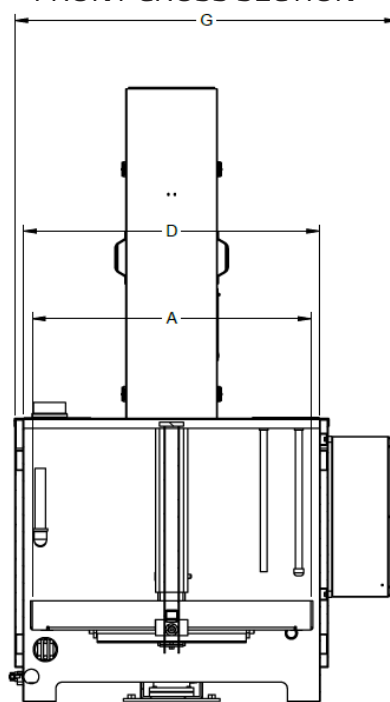
The standard MAL24 has a load capacity of 450 lbs.

PROUDLY DESIGNED & MANUFACTURED IN THE USA

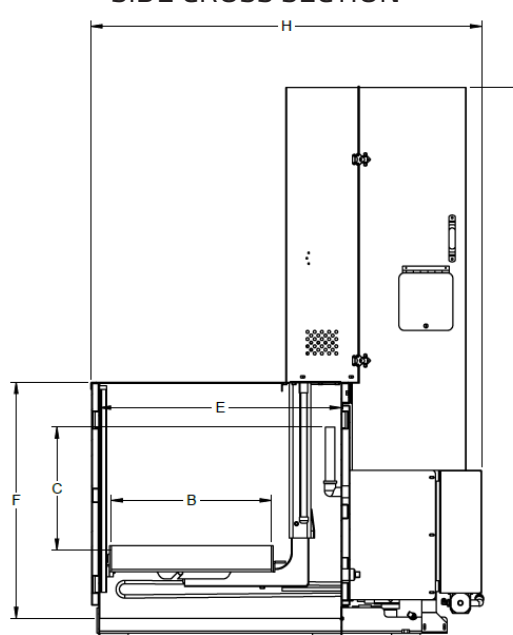


MAL24 Machine Dimensions				
Machine Number	1X	1.5X	2X	
Dipping Space				
Length (L-R) (A)	22"	35"	48"	
Width (F-B) (B)	23.25"	23.25"	23.25"	
Depth (C)	18"	18"	18"	
Inside Tank				
Length (D)	23.5"	36.5"	49.5"	
Width (E)	33.5"	33.5"	33.5"	
Depth (F)	32"	32"	32"	
Overall Machine				
Length (G)	32"	47.5"	60.5"	
Width (H)	44.5"	44.5"	44.5"	
Height (I)	70.75"	70.75"	70.75"	
Grate/Roller Platform				
Length	21.5"	34.5"	47.5"	
Width	23"	23"	23"	
General Data				
Load Capacity @100 psi (lbs)	450	450	450	
Liquid Capacity (gal)	85	130	175	
Tank Wall Thickness (ga)	12	12	12	
Service Connections				
Air Supply (recommended PSI)	100	100	100	
Air Inlet (NPT)	0.375"	0.375"	0.375"	
Water Inlet (NPT)	0.5"	0.5"	0.5"	
Drain Valve (NPT)	1.25"	1.25"	1.25"	
Overflow Port (NPT)	1"	1"	1"	
Vapor Exhaust (Diameter)	4"	4"	4"	
Supply for Heat				
Electric (240V/3PH/60HZ)	30A	30A	58A	
Electric (480V/3PH/60HZ)	15A	15A	29A	
Utility Consumption				
Electric (kW)	6	12	12	
Air (CFM) (All Tanks)	2-4	3-5	3-5	

FRONT CROSS SECTION



SIDE CROSS SECTION



MAL 24 Notes:

- 1 Dipping Depth (C) reduced by 6" when ultrasonics are installed. Request extra-deep tank to maintain full dipping depth.
- 2 Lighter loads can operate at reduced air pressure.
- 3 Fully immersed stainless steel sheathed elements on all electrically heated units. Other voltages & phases available.
- 4 Contact factory for steam heated tank information.
- 5 The data shown is typical and may vary with air pressure, load weight, shape, and stroke length.
- 6 Maximum part height for MAL 24 is 16" for full immersion cleaning.
- 7 A "stroke" equals travel in one direction.

PROUDLY DESIGNED,
★ MANUFACTURED, & ★
TESTED IN THE USA

PRODUCT FEATURES

TANK FEATURES

- Aggressive vertical platform agitation
- Unheated or electrically heated cleaning up to 450 lbs load capacity
- Manual, hinged stainless steel tank cover
- Removable grate platform
- Can be equipped for either aqueous or solvent cleaning
- Pneumatic or electric agitation control
- Suitable for cellular manufacturing layouts
- System configuration with common utility drops
- Insulated carbon steel or stainless steel tank construction
- Stroke length selector for short and long stroke.
- Liquid overflow port
- Water inlet coupling & drain valve.

OPTIONAL UPGRADES

- Turbulation
- Automatic tank cover
- Removable roller platform for easy load transfer
- Pumped or gravity counter flow on multi-stage
- Particulate filtration and/or oil coalescing
- Automatic water addition
- Automatic cycle timer for process control
- Programmable 7 day timer for auto tank heat up
- Low water level process lockout
- Partial tunnel enclosure for water vapor control
- Basket or custom load fixtures
- Load/unload roller platforms
- Plastic liner for special applications
- Magnetostrictive ultrasonics available in 20 kHz

COST EFFECTIVE OPTIONS

- Unheated cleaning
- Carbon steel tank construction

WHY CHOOSE MAGNUS?



A LEGACY OF QUALITY

With over **15,000 systems installed worldwide**, we constantly push to innovate while continuing to support the legacy equipment we installed decades ago. Our heritage is built on a relentless commitment to quality, engineering the right solutions for some of the toughest cleaning jobs in the world.



ENGINEERING BEYOND MANUFACTURING

We **design and manufacture American-made equipment** to precisely serve your unique needs. Whether that's a specific cleaning requirement, weight challenge, space constraint or a specialized application, we listen intently to create custom solutions that others simply can't.



CUSTOMER COLLABORATION

Your trust is priceless. When you begin a relationship with Magnus, you gain a dedicated team **who will work for you and with you**. Consider us your personal engineering expert, devoted to boosting efficiency, enhancing productivity, and driving sustainable growth far beyond your investment.

