

TITANMATE™

TML4-48 Precision Arm

The TITANMATE™ TML4-48 is a linear tool support arm designed to provide precise control ideally suited for high tolleranced tapping applications. The bearing housing is machined from a solid billet of aluminum to assure perfect bearing alignment for the life of the unit. To minimize friction the TML4-48 incorporates high quality roller and recirculating ball bearings throughout its design. The twin parallel shafts are made of 1" hardened linear shafting while the vertical shaft of the same material is a full 1.5" (38.1mm) in diameter. This combination of rigidity and frictionless motion makes the TML4-48 the perfect choice for tapping applications requiring the maximum reliability and precision.

The TML4-48 is rigid enough to handle a 50 Lb. (22.7 Kg.) payload and absorb up to 100 ft. lbs. (136 nm) of torque reaction, yet is sensitive enough to be used with fragile, small diameter taps.

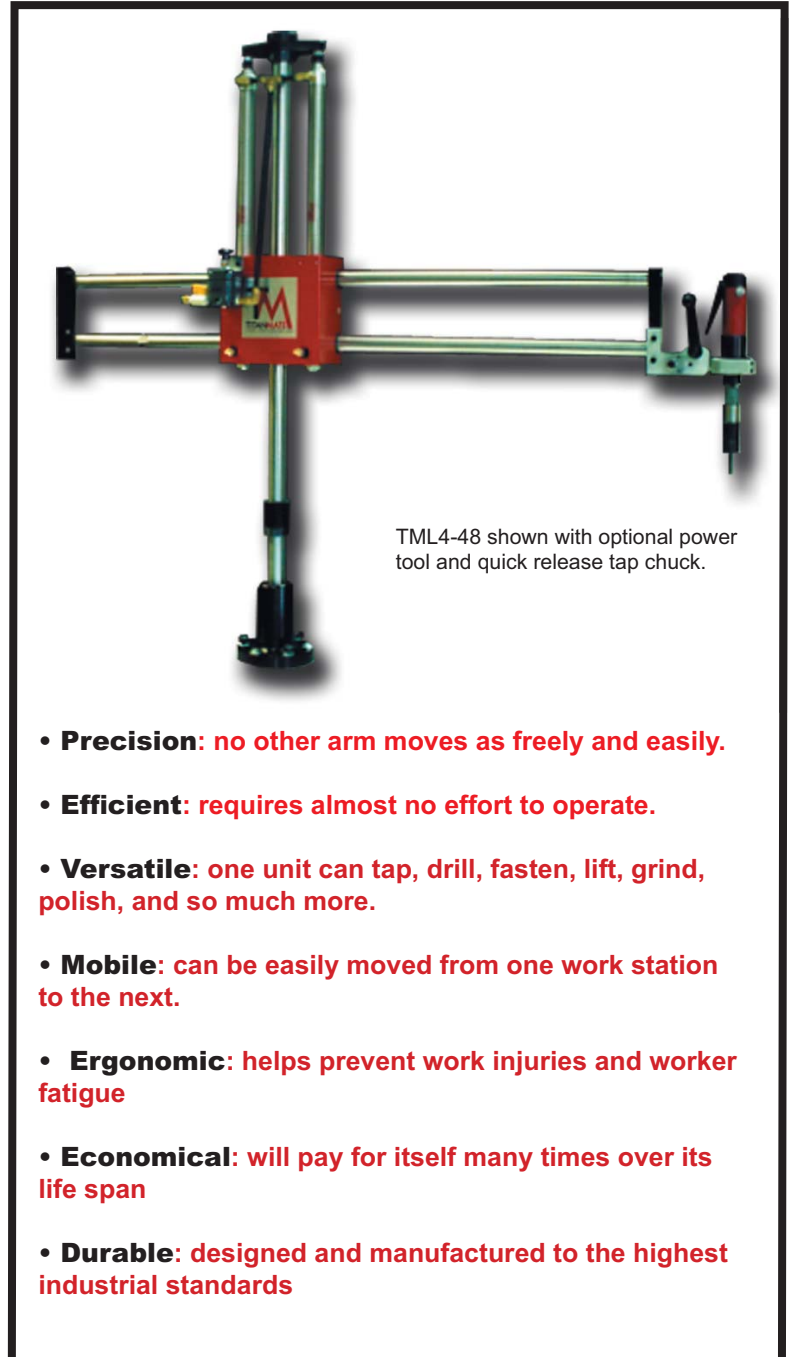
The TML4-48 uses a pneumatic balance system which allows the unit to be adjusted for any payload and moved effortlessly throughout the work envelope.

Standard features include:

- Multi position tool holder
- Adjustable pneumatic lift package
- Hardened and ground steel shafts
- Precision bearings
- Base mount with leveling screws
- Solid aluminum bearing block

Optional features include:

- Custom motor mounts
- Power tools
- Quick release chucks and collets
- Tap holders
- Keyless chucks
- Stud drivers
- Work carts
- Floor pedestals
- Rigid tool holders



TML4-48 shown with optional power tool and quick release tap chuck.

- **Precision:** no other arm moves as freely and easily.
- **Efficient:** requires almost no effort to operate.
- **Versatile:** one unit can tap, drill, fasten, lift, grind, polish, and so much more.
- **Mobile:** can be easily moved from one work station to the next.
- **Ergonomic:** helps prevent work injuries and worker fatigue
- **Economical:** will pay for itself many times over its life span
- **Durable:** designed and manufactured to the highest industrial standards

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TITAN® Quality Assembly Tools Since 1920

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Specifications and Details

Reach

The **TML4-48** can reach 48" (1.2M) in all directions.

Work Envelope

The maximum work envelope of the **TML4-48** starts 11" (280mm) from the main shaft and extends to 48" (1200mm) in all directions giving you a work envelope of 47.6 sq. ft. (4.3 sq. M).

Vertical Clearance

Maximum vertical clearance on the **TML4-48** is 22-1/2" (572mm); Minimum vertical clearance is 7-1/2" (190mm). This is the measurement from the bottom of the base mount to the bottom face of the tool holder in both the full up and full down positions.

Float Adjustment

Once the payload (power tool) is installed, simply adjust the air regulator to the desired setting. The **TML4-48** can be adjusted to hold a power tool weighing up to 50 pounds. With the air regulator properly set, the operator can move full capacity payloads with fingertip control.

Mounting and Leveling

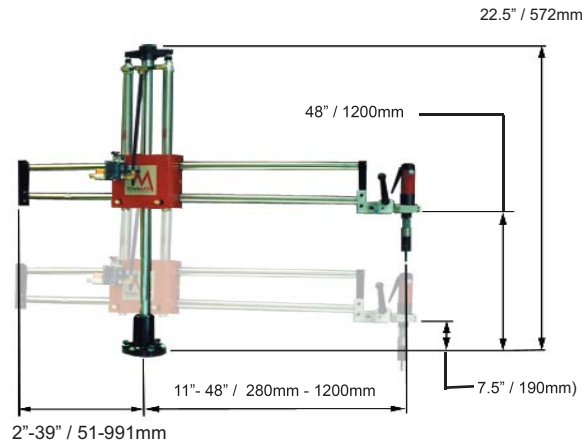
All **TITANMATE™** Tool Support Arms are equipped with a heavy duty steel base which is bolted to the work surface and leveled with a series of three leveling screws which stabilize the arm and minimize drift. Further stabilization can be achieved by adjusting the brass tipped friction screws that are located on each shaft.

Mounting Position

The **TML4-48** is designed to be mounted on a flat horizontal surface such as a work bench, or can be inverted and suspended from an overhead support to free up valuable work space.

Power Assist

While the pneumatic lift system of the TML4-48 is primarily designed to balance a load, it can also be used to apply force towards or away from the workpiece. This can be very handy on applications that require downward pressure such as screw and rivet driving, or applications where lift assistance is desirable. If you require this feature a minor modification is required in the pneumatic system, please contact Titan Tool Company for further details.



Standard Specifications

Payload	50lbs / 22.7 Kg. Max
Power Tool Dia.	2" / 5.8cm Max
Torque	100ft.lbs / 136 NM Max
Working Dia	8'-0" / 2.4 M Max
Unit Weight	105 lbs / 47.7 Kg.

Multi Position Tool Holder



The multi position Tool Holder is standard on all **TITANMATE™** Tool Support Arms. The clamping mechanism is machined to fit your power tool, which gives you a full 360 degrees of tool support to prevent slippage or damage. The pivot block and clamp can be independently adjusted to any angle. Once in position these components are securely locked into position by a set of spring loaded handles. Once locked, the handles can be moved out of the way for additional clearance.