

HoverTrowel Inc.

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HIPPO MIXING UNIT

MIX, TRANSPORT AND POUR DIRECTLY ONTO THE FLOOR



The newest addition to our line of mixers is the PORTA MIX Hippo unit. Cement screeds, grout, mortar, texture coatings, sealants, adhesives and many other products can be quickly and effectively mixed without difficulty. Many users have reported a major reduction in physical effort and time when using the Hippo.

The PORTA MIX Hippo, a mobile mixing unit, can mix a 80kg (4 bag) batch quickly and produce an excellent mix consistency. The specially shaped bowl ensures that no pockets of unmixed product remains, and also makes cleaning out easy.

A unique feature is the easy tilt trolley. Cement screeds for example, can be mixed and delivered to the floor quickly and with excellent control, reducing screeding effort and increasing productivity. Wheel covers ensure that the casters remain free of splatter.

Multi stage pours, to achieve thicker screeds, are often no longer necessary as the PORTA MIX can mix screed in larger quantities, in less time.

The hippo mixing unit is supplied with the WMP-TWD Mixing Paddle.



The easy tilt trolley allows for direct application of mixed materials to the floor

PORTA MIX SPECIFICATIONS

MOTOR:	1800 Watt
	16 Amp
	60
	140 rpm (speed 1) 470 rpm (speed 2)
DIMENSIONS	32" L x 24" W x 52.5" H (standing)
	47" L x 24" W x 35" H (pouring)
	31" L x 24.5" W x 28" H (shipping)
WEIGHT	84 lbs (complete with motor)
	19 lbs (motor and mount only)
CAPACITY	15.5 gallon (mix volume)
	21.5 gallon (brim full volume)



The WMP-TWD helical mixing paddle mixes material from the bottom up while the specially designed shear bars help properly mix materials.

MORE INFO AT: www.hovertrowel.com

A BETTER WAY TO MIX

A unique new paddle design eliminates the need for high rpm mixing.

It is often commented, the RPM speed of the Portamix Hippo Mixing Paddle is too slow. This comment is usually made without consideration of the end result: thoroughly mixed product.

During extensive trials and testing of the Porta mix system, a number of factors became evident. Three factors have influenced the equipment design resulting in the current models.

Factors influencing paddle design:

- Type of material mixed
- Volume of material
- Shape of mixing canister

Given that our intent was to mix up to 18.5 gallons of pourable material, (eg thin plasters, paints, texture materials, self-leveling materials etc) in a tipping canister, mixed by a fixed position shaft, we discovered potential problems that we had to overcome. These were:

- Insufficient mixing - low speed
- Inconsistent dispersion of decorative aggregate
- settling of heavier aggregate
- Inconsistent color of clouding in colored materials

It is important to note that these problems are not so evident when mixing smaller 1 bag quantities by hand, but are still likely to occur.

After thorough tests and trials involving material suppliers and contractors, we arrived at a number of conclusions that in some cases rewrote the rules commonly accepted by manufacturers of material. Because of the special design of the mixing paddle matched to the features of the mixing canister, we have been able to achieve excellent results with all products designed to be mixed by Portamix.

Of particular note, high speeds of 800 rpm +, and football or basket type paddles were found to be very ineffective. Problems included excessive splashing, unmixed products around the edges, heavier aggregates and decorative chips settling and remaining at the bottom of the canister.

It may be argued that the football type mixer is required to provide sufficient shearing action for color mixing. While this is a fact it is not the only requirement of a mixing paddle. It is also a fact that excessive shearing action can cause and increase material temperature while mixing leading to a possible flash curing or premature curing while still in the canister.

It has been proven that the shear bars on the Portamix Helix pt. # WMP-TWD and WMP-TW, provides additional and adequate shearing action in addition the lifting and shearing action of the ribbon. The larger diameter also provides an increase in periphery speed.



Shown: WMP-TWD mixing paddle. Mixes material from the bottom up while the shear bars provide proper color mixing.

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