

Variable-speed • High-torque • Powerful • Fast

Portable Mixing Machines

Mixing Drills
Mixing Stations
Mixing Stands
Paddles



**For Mixing Mortar, Concrete,
Plaster, Flooring Adhesives,
Grout, Coatings, Paint,
Self-leveling Cements and
Other Cementitious Materials**

Professional Mixing Drills for Fast, Efficient Mixing



From self-leveling cements to prefab mortar, CS Unitec has a portable mixer to do the job quickly. Every CS Unitec mixer has been designed for high reliability, with the power to provide optimum blending of construction materials on the job site.

Features that Make CS Unitec Mixers the Best Tools for the Construction Industry:

Soft Start and Variable Speed – less splashing and better control.

High-torque Motors with Specially Designed Gears – provide maximum power. Mix quantities from 1 gallon to 290 pounds, including aggregate and other materials.

Helical Paddles – mix from the bottom up, eliminating injection of air for an optimum blend. Other paddles available.

Versatility – can be used hand-held or with our portable mixing stands.

Integrated Rubber Handle Guards –

protect mixer and tile/cementitious surfaces if mixer is dropped

Made
in
Germany
Since 1919

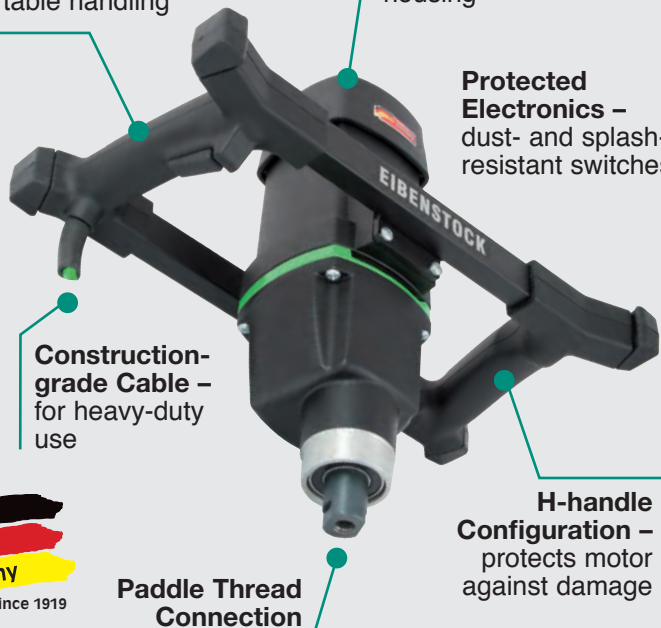
Fiberglass Housing – lightweight, robust, reinforced outer housing

Protected Electronics – dust- and splash-resistant switches

Construction-grade Cable – for heavy-duty use

Paddle Thread Connection

H-handle Configuration – protects motor against damage



For Small to Medium Mixing Jobs



Mixer EHR 18 S Set

*The compact
mixing drill for
2-bag batches*

Easy-to-manage drill for continuous mixing of 2-bag batches. Ideal for tile cement, plaster, mortar, paints, epoxy and coatings.

Capacity: 2 bags, 20 gal.
Output: up to 700 lbs./hour
Power: 9.5 Amp / 110 Volt AC
Free Speed: 800 RPM
Load Speed: 0-450 RPM
Weight: 9 lbs.
Included Paddle: WG 120

Suitable Paddles:
WG 120 (4.5" dia.)
MG 120 (4.5" dia.)
RG 120 (4.5" dia.)



For Larger Mixing Jobs



Mixer EHR 20.1 R Set

The standard mixer with high reliability for construction

Ideal for medium- to high-viscosity powder and liquid materials such as finished plaster, latex, mortar, epoxy, self-leveling compounds and other materials in batches up to 120 pounds.

Capacity: 3 bags, 25 gal.
Output: up to 900 lbs./hour
Power: 10.5 Amp / 110 Volt AC
Free Speed: 900 RPM
Load Speed: 250-580 RPM
Weight: 11.5 lbs.
Included Paddle: MG 140

Suitable Paddles:
WG 135 (5.4" dia.)
MG 140 (5.6" dia.)
TWP 140 (5.5" dia.)



Mixer EHR 23/1.4 R

The powerful mixing drill for tough, continuous use

A powerful 14.5 Amp motor allows mixing of up to 200 pounds of high-viscosity materials ranging from epoxy, mortars, plasters and cement to quartz-containing resins and flooring compounds, as well as insulation and other materials.

Capacity: 5 bags, 35 gal.
Output: up to 1800 lbs./hour
Power: 14.5 Amp / 110 Volt AC
Free Speed: 150-325 RPM
Load Speed: 100-275 RPM
Weight: 15 lbs.
Included Paddle: MG 160

Suitable Paddles:
WG 160 (6.25" dia.)
MG 160 (6.25" dia.)
TWP 160 (6.375" dia.)

Also available: Mixer EHR 23/2.4 S

With 2-speed gearbox
Load Speed: 0-250 / 0-580 RPM

See the next page for our full line of heavy-duty galvanized steel mixing paddles and portable mixing stands.



Twin Paddle Mixing Save Time Mixing 2+ Component Materials



Mixer EZR 23 R/RL Set

Push-pull Mixer: Quick, thorough mixing with twin paddles and clockwise/ counterclockwise rotation

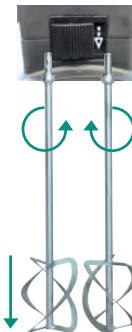
This dual-paddle mixer with selectable forward and reverse paddle rotation thoroughly mixes a wide variety of materials. The blades rotate in opposite directions, eliminating counter torque and making the unit easy to handle – even while mixing the most demanding of materials. The paddle set has a 9" working width. Mix up to 200 pounds. Use hand-held or mount on RST 92 stand.

Capacity: 5 bags, 25 gal.
Output: up to 1200 lbs./hour
Power: 10.5 Amp / 110 Volt AC
Free Speed: 680 RPM

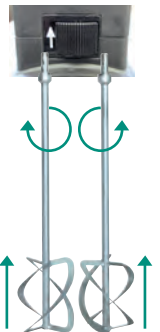
Load Speed: 0-450 RPM
Weight: 15 lbs.
Paddle Pair: No. 31630000 (included)

Optional: RST 92 stand and No. 32339000 adapter

**Counterclockwise
PUSH**



**Clockwise
PULL**



Counterclockwise rotation pushes material from the top to the bottom, reducing splashing when mixing low-viscosity materials such as paint, glue, filler and leveling compounds.

Clockwise rotation pulls material from the bottom to the top, reducing air inclusion and efficiently mixing heavy products such as flooring compound, epoxies, mortars, fiber-filled cements, ceramics, granulates, pastes and putties.



Heavy-duty Galvanized Steel Mixing Paddles

Mix from the Bottom Up *Mixing paddles can be supplied in different configurations depending on the material to be mixed.*

- Helical design mixes the product from the bottom up to prevent air bubbles from being sucked into the material.
- Robust welded steel for corrosion protection and abrasion resistance.
- Ideal for continuous, professional use.

Low Viscosity

Ideal for liquid materials with a low viscosity, including wall paints, lacquers, cement paints, chemicals, coating compounds and laitance.



Medium Viscosity

For tenacious materials of a high viscosity such as finished plaster, mortar, gypsum, lime, floor compounds, granulates and quartz-filled epoxy resin.



High Viscosity

Extra-robust stirring paddle for finished mortar, finished plaster, floor compounds, refractory cements, insulating materials and quartz-filled epoxy resin.



Fold & Stir

Mixes all types of drywall mud and textured products quickly and completely. Great for decorative concrete coatings and comparable products. Specially designed blade folds material and then stirs it, virtually eliminating the injection of air into the system. Works in 5- to 55-gallon drums.



Overlays & Colored Products

Ideal for mixing a wide range of underlayers, overlays and colored products. Integrated shear bars evenly disperse powders and liquids throughout tinted and dyed mixtures. For dry-bag compounds, cement/acrylic plasters and grout, as well as premixed products.



Thread Connection*:

14mm male thread

Paddle Length:

All paddles are 24" (9" or 15" extensions are available)



Materials	Model No. 14mm Thread Connection*	Paddle Diameter	Model No. 1/2" Hex Shank Connection
Low Viscosity	RG 120	5"	RG 120 H
Medium Viscosity	WG 120	5"	WG 120 H
	WG 135	6"	WG 135 H
	WG 160	7"	WG 160 H
High Viscosity	MG 120	5"	MG 120 H
	MG 140	6"	MG 140 H
	MG 160	7"	MG 160 H
	MG 235	10"	MG 235 H
Fold & Stir	MH 240	10" x 6"	MH 240 H
Overlays & Colored Products	TWP 140	6"	PWP 140
	TWP 160	7"	N/A
	N/A	5"	PWP 120
For Pelican Cart only	TW 200	8"	N/A

* For all CS Unitec Mixers, order 14mm male thread paddles

Paddle Extensions:

32210000 9" long x M14

32220000 15" long x M14

Also available: 5/8" 3-jaw chuck with M14 adapter

Special Paddles in Stainless Steel are available for Food Applications.

Paddle pair for EZR 23 R/RL (9" working width.): Order No. 31630000

Optional paddle for EZR 23 R/RL (8-3/4" working width.): Order No. 3161000

***Adapt any paddle to fit your mixer with our 5/8" 3-jaw chuck and 14mm adapter: Order No. 32142999*

High-quality Mixing Paddles with Hex Shank

1/2" Hex Shank Fits Standard Drill Chucks

Mix with the best paddles!

CS Unitec's high-quality, heavy-duty galvanized steel mixing paddles are also available with a new hex shank design. The 1/2" hex shank provides a universal fit for traditional drills with 3-jaw chucks.

Shank Connection:

1/2" hex shank

Paddle Length:

All paddles are 24" long



Pneumatic-powered Mixers for Hazardous Environments



Three air-powered models are inherently safer for mixing paint, glue, epoxy, mortar, concrete, refractory cement and other materials in shipyards and the oil and gas industries. They can be used around water with no fear of shock or blown circuitry.

The MEGA HIPPO portable mixing station is also available with a pneumatic motor. See pages 8-9.



Model No.	Power	CFM @ 90 PSI	Load Speed (RPM)	Mixing Capacity	Weight	Air Connection	Suitable Paddles
7 1111 0010	1.5 HP	49	0-440	110 lbs.	14 lbs.	3/8"	MG 140
7 1112 0010	1.5 HP	49	0-190 / 0-350	110 lbs.	15 lbs.	3/8"	MG 140
7 1113 0010	2.2 HP	67	0-190 / 0-420	200 lbs.	23 lbs.	3/4"	MG 160, WG 160

Portable Mixing Stands Save Time by Running Mixers Independently

Model 25GP-WD

Designed for easy setup, with no clamping required. Has rear wheels for extra portability. Ideal for use with 5-gallon pails and CS Unitec's EHR 20.1 R, EHR 23/1.4 R or EZR 23 R/RL mixers, as well as all CS Unitec pneumatic mixers.



Size: H-35"
L-26"
W-14"
Weight: 64 lbs.

Model RST 92

Has an adjustable swing arm and variable height adjustment, allowing use with various pail sizes. Easy set up. Use with EHR 20.1 R, EHR 23/1.4 R or EZR 23 R/RL electric mixers and all pneumatic mixers.



Size: H-65"
L-28"
W-20"
Weight: 69 lbs.

At right:

Shown with EHR 23/1.4 R mixer and Pouring Cart with 4 wheels (P/N 32332000) designed for accurate pouring



Portable Mixing for Low- to High-viscosity Materials



Reduce Dust While Adding and Mixing Low- to High-viscosity Materials



USE:

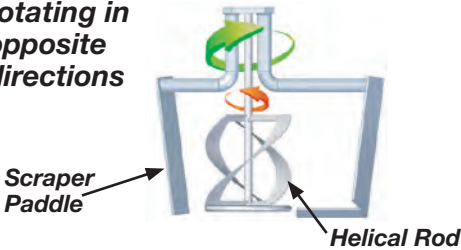
CS Unitec's TwinMix 1800 is ideal for mixing filler and leveling compounds, plaster and thin-bed mortars. Two contra-rotating paddles thoroughly combine compounds into a homogeneous, lump-free mixture.

FEATURES:

- Dual mixing paddle with scraper reduces material deposits on the bucket rim and improves mixing efficiency
- Dust extraction port for connection to industrial vacuum
- Handles and large wheels for ease of mobility
- Transport cart and bucket can also be used with hand-held mixer
- Robust 2-speed, 15 Amp motor – very high pulling power – includes constant speed and overload protection
- Safety switch disables motor if hood is lifted during mixing
- Includes pouring cart for clean, accurate pouring – great for consecutive batch mixing

Innovative Mixing Technology:

one motor – two paddles
rotating in
opposite
directions



TwinMix 1800

Power	15 AMP / 110 V
Bucket Capacity	17 gal.
Helical Rod Speed	250/450 RPM
Scraper Paddle Speed	20/36 RPM
Weight	155 lbs.

Standard equipment includes motor on stand, mixing rod, mixing paddle, mixing bucket and pouring cart.

Optional Big Wheel Cart available. See next page for more information.



Easily transportable with tires for rough terrain.



Pouring inlet tube and integrated dust extraction port reduce airborne dust while adding and mixing materials.

Reduce Dust While Adding Material and Mixing



saves at least
50% time

- Fast, continuous work when using several mixing containers, saving time and cost
- Reduces the risk that the material is setting too fast in wet-on-wet cycle



VERSATILE APPLICATION POSSIBILITIES



masonry mortar



thin-bed mortar



plasters



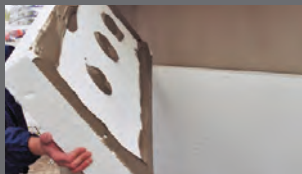
floating screed



tile cement



grout



insulation board adhesive



screed



filler



Dust Extraction Vacuums – Wet/Dry

CS Unitec's dust extraction vacuums offer strong 130 CFM air flow and an electromagnetic pulse filter cleaning system to maximize vacuum power and dust collection. Ideal for fine dust.

For more information, see page 12



Mix, Transport and Pour Directly Onto the Floor

NEW!

NEW HIPPO with Dust Collection and Integrated Canister Lid

Reduce airborne dust and splatter with new canister cover and vacuum port



PMH80F-DC

- Mix compounds while lid is closed to reduce splatter
- Reduce airborne dust when using lid coupled with dust extraction vacuum – creating a cleaner, safer work environment.

Mix, transport and pour directly onto the floor – up to 6 bags – with one operator

- Boost productivity, lower labor costs and reduce physical effort.
- The "Easy-roll Trolley" and the balanced "Easy-tilt Cradle" let you pour and spread material at the same time
- Multi-stage pours to achieve a thicker screed are often not necessary
- Wheel covers ensure that the casters remain free of screed splatter.



NEW canister cover and hinged lid for reduced airborne dust (when used with a dust extraction vacuum) and reduced splatter



Dust extraction port for vacuum connection

Control dust with HEPA vacuum system CS 1445 H



Mixing multiple batches is cleaner, faster and easier with the MEGA HIPPO system.

USE:

- Mix compounds, including cement screeds, overlay, underlay, textured coatings, sealants, adhesives, epoxies, resins, pre-tinted material and other self-leveling compounds
- Ideal for mixing in bulk and dispensing into small containers
- Consecutive batch mixing without downtime

FEATURES:

- High-torque, 15 Amp 2-gear motor
- Full-brim capacity of 23 gallons, 350 lbs. or 6-bag batches
- "Easy-roll Trolley" and balanced "Easy-tilt Cradle" allow for pouring and spreading of material at same time
- Specially shaped mixing bowl eliminates pockets of unmixed product and allows for easy cleaning
- 9" diameter paddles with helix ribbon and side bars lift and shear product quickly to produce excellent consistency and thorough mixing of colors and additives
- Resilient, pliable liner is easily cleaned; alternating liners prevents cross contamination
- Dust extraction port for vacuum connection



PMH80F-DC

PMH80X-DC

For Rugged Building Site Mixing and Pouring

PORTAMIX® MEGA HIPPO Specifications

2-Speed Motor Specifications	Electric, 110 V* 15 Amp, 1800 Watt
Load Speeds	1st gear: 140 RPM 2nd gear: 470 RPM
Bowl Capacity	6 x 50 lbs. mix + water (23 gal./350 lbs.) 5 x 22 kg mix + water (86 liters/160 kg)
Standard Equipment	Mixing motor, bucket, removable liner and 2 paddles (TW225 and TW225D)
Weight	109 lbs.


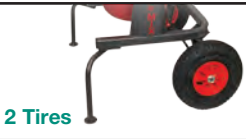
*220 Volt available

Pneumatic model also available - see below



View product demonstrations
at www.csunitec.com.

Lid can be
used with other
PMH80 HIPPO
models. Contact
us for retrofit kit
information.

Wheel Options	Model	Motor	
 4 Casters	PMH80F-DC	Electric	
	PMH80F-AIR-DC		Air
 2 Tires	PMH80X-DC	Electric	
	PMH80X-AIR-DC		Air



New Bucket Lid



PH705 – Removable Liner

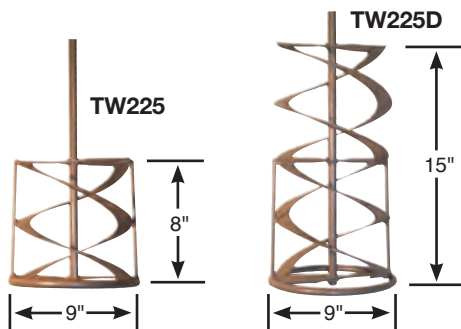
Multiple Batch Mixing with Removable Liner

Mixing multiple batches is easier and faster with the HIPPO removable liner and rimless bucket system.

- Mix consecutive batches without downtime
- Resilient, pliable liner is easily cleaned
- Alternating liners prevents cross contamination
- Extends life of bucket

Removable Liner
P/N PH705

The PORTAMIX MEGA HIPPO is supplied with two mixing paddles:



TW225 – for half batches (2-3 bags); 9" diameter x 27" long; ideal for plasters, concrete, mortars, resins and tile adhesives. 8" long helix and side bars.

TW225D – for full batches (5-6 bags); 9" diameter x 27" long; ideal for self-leveling compounds, screeds, paints, plasters and epoxy. 15" long helix and side bars.

The 9" wide helix and side bars lift and shear the product quickly and efficiently to produce an excellent mix consistency and thorough mixing of colors and additives. The paddle's large 9" diameter provides increased peripheral speed which eliminates the need for high-RPM mixing and helps to prevent flash curing.

The MEGA HIPPO portable mixing station is available with a pneumatic motor.

Two air-powered models are inherently safer for mixing paint, glue, epoxy, mortar, concrete, refractory cement and other materials in shipyards and the oil and gas industries.

They can be used around water with no fear of shock or blown circuitry.

Motor: 2.2 HP, 90 PSI / 67 CFM,
2 speeds (190/420 RPM)



Pelican Cart with Canister

The PORTAMIX Pelican Cart offers the user options to move and pour materials at the application area quickly and easily. The transport cart boosts productivity, lowers labor costs and reduces physical effort.



PMP80

- 360° maneuverability and large handle design for easy steering and transport of material
- Transport a full PORTAMIX load, eliminating the need to fill and carry individual buckets or containers
- Quick-release tilt lock
- Accurate, controlled dispensing
- Sturdy welded frame for heavy loads and long life
- Comes with 20-gallon canister for clean dispensing
- Heavy-duty casters

Cart dimensions: 26.75"L x 24"W x 42.75"H;
weight: 38.5 lbs.



Pelican Cart for use with MEGA HIPPO Mixing Stations

For uninterrupted mixing, use your MEGA HIPPO Portable Mixing Station as a stationary mixer and pour the mixed material into the Pelican Cart for transport to the application area.



Optional Accessory for the Pelican Cart

PP600 – Hand-Held Mixer Clamp for Pelican Cart



- For use with the EHR 23/2.4 S Mixing drill (see page 3) and the TW 200 paddle.
- Clamp attaches to the Pelican Cart frame to mount the hand-held mixer.



Concrete Floor Scarifiers, Scabblers and Grinders

Remove rust, scale, paint, adhesives and more from concrete and steel

Floor Scarifiers – 8" and 10" Cutting Width

- Gas, air and electric power
- Integrated vacuum connection
- Depth control maximizes performance and extends cutter life

	TFP 200			TFP 260	
Model No.	320.2000T	320.2012T	320.2004T	326.2000T	326.2006T
Motor Specs	Gas Honda GX160 5.5 HP	Pneumatic 165 CFM @ 90 PSI 3.5 HP	Electric 230 V, 50/60 HZ, 1-Phase 3 HP	Gas Honda GX240 8 HP	Electric 415 V, 50/60 HZ, 3-Phase 7.5 HP
Cutting Width	8"			10"	
Dimensions WxLxH	14" W x 35" L x 35" H			17" x 44" x 45"	
Weight	130 lbs.	99 lbs.	149 lbs.	408 lbs.	408 lbs.



Pneumatic Concrete Floor Scabblers

- Concrete keying and laitance removal
- Vibro-Lo™ Vibration Reduction Technology (MHS11 only)



	MHS11		MHS5	
Model No.	159.6051	159.6050	159.5050	159.5075
Description	With Dust Shroud and Bush Hammer Heads	With Bush Hammer Heads	5-Point Bush Head	9-Point Bush Head
Cutting Width	10"		11"	
Blows per Minute	24,200		6500	
Air Consumption	55 CFM @ 90PSI		80 CFM @ 90 PSI	
Noise Level	97 dB(A)		94.7 dB(A)	
Vibration Level	4.96 m/s ²		16.5 m/s ²	
Dimensions WxLxH	11.25" x 13.5" x 50"		28" x 43" x 38"	
Weight	158 lbs.	155 lbs.	251 lbs.	251 lbs.

Hand-Held Scarifiers, Scabblers and Grinders

Needle Scalers

- Remove coatings, corrosion and other accumulated materials - ideal for texturing concrete, cleaning and stress-relieving weld seams and joints, and more
- Up to 3000 blows per minute
- Low-vibration models available
- Dust shroud available for use with dust extraction vacuums



Needle scaler with dust shroud for use with dust extraction vacuums.
Model 139.3107



Hand-Held Scarifiers

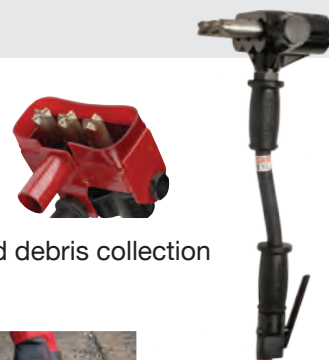
- Ideal alternative to small-area shot blasting
- Clean and prepare concrete and steel surfaces
- Integrated dust shroud for dust and debris collection

Electric Hand-Held Scarifier Model 195.1217
2" cutting width with Rotopeen™ 'C' flaps.
4" width also available.



Triple-Head Scabblers

- 7200 BPM
- Reduce, texture, level and roughen concrete
- Ideal for crack repair
- Optional dust shroud for dust and debris collection
- Low-vibration models available



Dust Collection Vacuums with HEPA Filtration

CS Unitec's dust extraction vacuums offer strong 130 CFM air flow and an electromagnetic pulse filter cleaning system to maximize vacuum power and dust collection.

- Ideal for use with power tools
- 99.995% HEPA filtration efficiency of particles down to 0.3 microns; automatic filter cleaning
- "Power Take Off" outlet activates the vacuum ON/OFF from the power tool switch
- Non-HEPA models available, 99.930% filtration efficiency
- Kit available to connect two power tools (P/N 198804)

Model CS 1445 H
automatically "pulse"
cleans filters without
interrupting operation!

Vacuum Specifications

Power: 11 Amp

Air Flow: 130 CFM

Weight: 24.3 lbs.

Model	CS 1445 H	CS 1445	CS 1225
HEPA Filtration	Yes	No	No
Tank Capacity	9 gal.	9 gal.	6.6 gal.
Filter P/N (2 pk.)	428956	416069	416069

Optional Filter Bags

Paper filter bags for CS 1225 and CS 1445 – P/N 435305 (5-pack)
Plastic filter bags for CS 1225 and CS 1445 – P/N 421742 (5-pack)

We make no claim that use of a vacuum will eliminate contaminants. Wear an approved respirator mask and follow all appropriate OSHA safety regulations for proper ventilation, dust handling, eye protection, etc. when using a dust extraction grinder and vacuum.



"Power Take Off" outlet



Walk-Behind Grinder

EBS 180 F

With angle adjustable floor guide for medium-sized jobs

- Ideal for grinding and smoothing concrete, screed, tile adhesive, paint and other coatings
- Height adjustable handle for operator comfort
- Foldable front edge of dust guard – for grinding directly to the edge
- Brush rim for collecting dust when connected to a dust extraction vacuum



Diamond Grinding Wheels for EBS 180 F

7" dia. for concrete – P/N 37112

7" dia. for screed – P/N 37111

7" dia. PCD grinding wheel – P/N 37119

UNITEC
... the power of innovation!®

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