

Concrete, Shotcrete & Gunit Mixers & Pumps



B50 Hybrid Concrete Mixer & Pump

Hydraulic & air operated pump for mixing, pumping & shotcreting underground

- The B50 Hybrid is a combined mixing and concrete pumping unit that has been specifically designed for use in underground applications.
- Traditional concreting in underground areas required the use of a wet pre-mix material however issues with quality and product use by dates can affect the finished result.
- The design of the B50 Hybrid pump ensures the quality control of material with wet application using bulk dry material that can be delivered, stored and used as required.
- The result is low dust due to wet application and improved quality and reliability.
- The B50 Hybrid uses hydraulic power from a coal tram or Eimco unit to power the mixer and pump (minimum hydraulic power required 180 litres / min at 2,000 psi).
- Offers increased productivity of 5 tonne per hour vs. 0.8 tonne per hour for dry shotcrete, thereby reducing labour costs and increasing re-entry to mine areas.
- Hydraulic power means no electrical issues for environments where intrinsically safe power is required.



APPLICATIONS

- | | | |
|---------------------|-----------------------|-----------------|
| • Shotcrete | • Foundations | • Mines |
| • Concrete Pumping | • Slope Stabilisation | • Backfill |
| • Pressure Grouting | • Slabs | • Flowable Fill |
| | • Rockscaping | |



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FEATURES

PUMP:

- Super heavy-duty steel frame
- Variable-volume and RPM control at remote control box
- Adjustable shifting force valve
- Heavy-duty "S" valve
- Chromed concrete cylinders for long service life
- Reversibility at any point in the stroke
- Fully-variable volume output
- Hopper grate
- Forged steel pistons with urethane cups
- Hard chromed concrete cylinders
- Emergency stop button x 2

MIXER:

- Heavy duty construction
- Replaceable wear resistant bowl liners
- Manual bag breaker (x2) and inspection and cleanout access
- Manual discharge
- Single section platform
- Ladder retracts and locks for transportation
- Six paddle mixing configuration
- All blades, wearing surfaces & bowl liner made from Bisalloy material

OPTIONAL FEATURES

- Batching water tank
- Air additive dosing pump for shotcreting

ADVANTAGES

- Limited number of moving & wear parts = reduced maintenance
- Hydraulic power results in a constant (even) power source
- Easy operation – simply add water at the mixing stage and accelerator (if required) at the nozzle (note: for shotcreting a low air supply of 100psi is required)
- Safe, reliable and easy to operate
- Option to mix and pump dry batched material OR pump only with pre-mixed wet cement

* Theoretical distances and performance shown above are estimated using standard industry methods.

Actual performance will vary depending on the concrete pump (concrete pressure, horsepower), material (mix design, slump, local sand and rock characteristics) and delivery system (pipeline diameter, type (steel or hose) and reductions / bends.

Maximum output, pressure, and distance cannot be reached simultaneously. Specifications subject to change without prior notice.

Patent Pending

MODEL

B50 HYBRID

COMPLETE UNIT

| | | |
|--------------------|--------------------|-----|
| Mix & Spray Output | m ³ /hr | 3.5 |
|--------------------|--------------------|-----|

| | | |
|------------------|--------------------|----|
| Pump Only Output | m ³ /hr | 30 |
|------------------|--------------------|----|

| | | |
|-------------|----------|----------|
| Outlet Size | in mm | 5 127 |
|-------------|----------|----------|

| | | |
|--------------------------|----|----------------------------|
| Dimensions Complete Unit | mm | L 4483 W 1490 H 1730 |
|--------------------------|----|----------------------------|

| | | |
|--------|----|------|
| Weight | kg | 4500 |
|--------|----|------|

PUMP CELL

| | | |
|----------------------------|----------|-----------|
| Concrete Cylinder Diameter | in Mm | 6" 152 |
|----------------------------|----------|-----------|

| | | |
|---------------|----------|------------|
| Stroke Length | in mm | 36" 914 |
|---------------|----------|------------|

| | | |
|-----------------|---------------------------|-----------|
| Hopper Capacity | ft ³ litres | 12 340 |
|-----------------|---------------------------|-----------|

MIXER UNIT

| | | |
|-------------|----------------|------|
| Bowl Volume | m ³ | 0.42 |
|-------------|----------------|------|

| | | |
|--------------|----|-----|
| Mix Capacity | Kg | 500 |
|--------------|----|-----|

| | | |
|--------------|-----|-------|
| Mixing Speed | RPM | 36-40 |
|--------------|-----|-------|

| | | |
|-----------------|----|----|
| Hydraulic Motor | kW | 22 |
|-----------------|----|----|

| | | |
|------------------------|----------|------------|
| Maximum Aggregate Size | in mm | 1 ½" 38 |
|------------------------|----------|------------|

| | | |
|----------------------|----|-----------------|
| Dimensions Bowl Only | mm | Ø 1500 H 400 |
|----------------------|----|-----------------|



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