

## LOVA *Guncrete* MACHINE

### Dry-Mix Gunite Machine



#### LOVA Series:

**LOVA** provides a very even flow of material which allows uniform hydration and smooth placement.

The adjustable output of material may be increased without sacrificing the quality of the application.

#### Standard Features:

- Continuous feed hopper with bag breaker
- 2 blade or 5 blade agitator
- Screen and direct drive 5 hp, 8 AM, air motor for **LOVA 8**
- Screen and direct drive 9 hp, 16 AM, air motor for **LOVA 16**
- Optional electric drive motor
- Optional hopper safety hood
- Optional dust suppression system
- Optional ultralight non-stick rotary feed wheel

#### Applications:

- Refractory
- Shotcrete
- Gunite
- Tunnels
- Concrete Repair
- Buildings
- Excavations
- Slope Stabilization
- Rockscaping
- Pools
- Mines
- Channels
- Piers
- Sea Walls
- Sewers
- Parks & Zoos
- Retaining & Fire Walls
- Dams & Reservoirs
- Sand & Rock Backfill
- Concrete Pipe
- Ditches

# LOVA *Gun*crete MACHINE

## Dry-Mix Gunite Machine

### LOVA CONFIGURATIONS- Large Open Vertical-Feed Air-Powered

Feed Bowl Pockets	Hose Size (I.D.)	Maximum Aggregate Size	Air Compressor (Recommended size at 100 psi)	Maximum Output**	Common Applications
30	3/4" (1.9cm)	1/8"	125 cfm (3.5m <sup>3</sup> /min) 8AM	2yd <sup>3</sup> /hr (1.5m <sup>3</sup> /hr)	fine, detailed artistic-type work, rockscaping, patch, repair.
		(3.5mm)	215 cfm (6m <sup>3</sup> /min) 16AM		
30	1" (2.5cm)	1/8"	210 cfm (6.0m <sup>3</sup> /min) 8AM	2yd <sup>3</sup> /hr (1.5m <sup>3</sup> /hr)	fine, detailed artistic-type work, rockscaping, patch, repair.
		(3.5mm)	300 cfm (9.0m <sup>3</sup> /min) 16AM		
21	1 1/4" (3.2cm)	1/4"	315-375 cfm (9-11m <sup>3</sup> /min) 8AM	5yd <sup>3</sup> /hr (3.8m <sup>3</sup> /hr)	Refractory spraying, repair work, smooth finish
		(7mm)	375-450 cfm (11-13m <sup>3</sup> /min) 16AM		
21	1 1/2" (3.8cm)	3/8"	375-450 cfm (11-13m <sup>3</sup> /min) 8AM	6yd <sup>3</sup> /hr (4.6m <sup>3</sup> /hr)	Refractory spraying, repair work, smooth finish
		(10mm)	450-600 cfm (13-17m <sup>3</sup> /min) 16AM		
20	1 1/2" (3.8cm)	1/2"	375-450 cfm (11-13m <sup>3</sup> /min) 8AM	8yd <sup>3</sup> /hr (6.1m <sup>3</sup> /hr)	Civil Construction, Higher-Volume Refractory spraying, smooth finish
		(13mm)	450-600 cfm (13-17m <sup>3</sup> /min) 16AM		
15	2" (5cm)	1/2"	450-600 cfm (13-17m <sup>3</sup> /min) 8AM	12yd <sup>3</sup> /hr (9.2m <sup>3</sup> /hr)	Civil Construction Concrete Spraying, Less (Less Volume than with L.A. (Large Aggregate) system)
		(13mm)	600-750 cfm (17-21m <sup>3</sup> /min) 16AM		
15	2" (5cm)	5/8"	450-600 cfm (13-17m <sup>3</sup> /min) 8AM	12yd <sup>3</sup> /hr (9.2m <sup>3</sup> /hr)	Swimming Pool Construction, conveying aggregate for backfill, civil construction
		16mm	600-750 cfm (17-21m <sup>3</sup> /min) 16AM		
12	2" (5cm)	5/8"	450-600 cfm (13-17m <sup>3</sup> /min) 8AM	12yd <sup>3</sup> /hr (9.2m <sup>3</sup> /hr)	Swimming Pool Construction (Less Volume than with 2 1/2" System) (15 L.A. bowl provides smoother finish)
		16mm	600-750 cfm (17-21m <sup>3</sup> /min) 16AM		
12	2 1/2" (6.3cm)	3/4"	600-750 cfm (17-21m <sup>3</sup> /min) 8AM	15yd <sup>3</sup> /hr (11.4m <sup>3</sup> /hr)	Civil Construction Spraying, Highest Volume (15 L.A. bowl provides smoother finish)
		19mm	750-900 cfm (21-26m <sup>3</sup> /min) 16AM		

abstract roughly 90 SCFM (2.5MMIN) from air requirement if electric model is used. Additional air may be required depending on altitude and atmospheric pressure.  
 A. (Large Aggregate Feed Bowl)  
 Feed Bowl, material, air system, nozzle/man capability together determine maximum output.  
 Specifications subject to change without prior notice.

MODEL		LOVA 8-4	LOVA 16-4
Maximum Horizontal Conveying Distance	ft	1000	1000
	m	305	305
Maximum Vertical Conveying Distance	ft	300	300
	m	91	91
Hopper		Standard, Tall Pre-Mix, Short Pre-Mix & Refractory	Standard, Tall Pre-Mix, Short Pre-Mix & Refractory
Gross Weight (Approx.)	lbs	635	699
	kg	288	312

Maximum theoretical performance shown above. Performance will vary depending on slump, mix design and delivery line diameter. Specifications subject to change without prior notice.

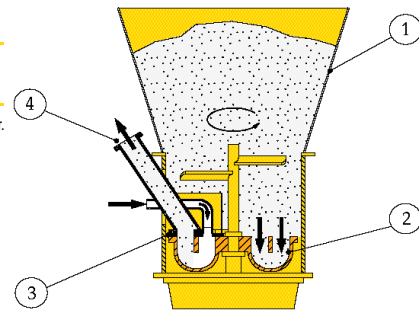


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### Operating Principle:

**REED's LOVA** dry mix gun has been using the same basic operating principle for over 40 years.

1. The dry mix is fed through a hopper into the pockets of the rotary feed wheel.
2. The rotary feed wheel, driven by a heavy-duty oil bath gear drive, rotates the mix under the conveying air inlet and material outlet.
3. With the introduction of single source compressed air, the mix is evacuated from the feed wheel pockets and then travels through the outlet.
4. The dry mix is then conveyed in suspension through the dry mix hose to the shotcrete nozzle where water is introduced.



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