

Phone: (+47) 38 32 04 20 company@amv-as.no www.amv-as.no Org.No. 945.688.823 MVA

TECHNICAL SPESIFICATION **SHOTRETE ROBOT AMV 7450**

Rev. 0, 31.01.2020 VS

1. Main Dimensions / Weight

Overview Drawing: # 31272 Length: 11300 mm Width: 2550 mm Height: 4100 mm Weight: ca. 31500 kg

2. Main Components

- Concrete piston pump, s-tube or ball valve, theoretical capacity 25m3/h, 50bar
- AMV7450 spray boom, enclosed operator cabin
- Mercedes-Benz Arocs 8x4/4 chassis
- 2 hydraulic operated support legs, 420mm vertical movement, 600mm horizontal movement
- Screw compressor for compressed air. 16m³/h, 7bar, hydraulic powered.
- Generator, 16kW, 400V, 3-phase, 50 Hz, hydraulic powered.

3. Chassis

Type: Mercedes-Benz Arocs 3245K 8x4/4

Engine: Diesel, 449Hp, Euro 6 Electric system: 24V, 150 A Dynamo Gearbox: 12 speed automatic

Braking system: Disc brakes

Steel, parabolic leaf springs Suspension:

Front axle: 2 x 7500 kg Rear axle: 2x 13 000 kg Diesel tank: 330L / 400L

4. Boom - Coverage area

#31266 + #14114 Drawing:

AMV 7450 spray boom fitted with enclosed operator cabin

Proportional controlled movements via joysticks and pedals

5. Central Lubrication System

Central lubrication system on 7450 spray boom + concrete pump. Manual grease nipples on various other equipment.



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6. Hydraulic System

- 3 different versions:

■ 7450EL: Electro-hydraulic operation (1000V / 690V)

■ 7450D: Diesel-hydraulic operation

■ 7450H: Electro-hydraulic + Diesel-hydraulic operation

Hydraulic oil volume: Ca. 645 L

- Hydraulic pumps: Variable axial piston pumps + fixed displacement piston

pumps

Sys. press. spray boom: Ca. 215 bar

Sys. press. Concr. pump: Ca. 160 bar.

Oil cooling: Oil-air coolers prop. controlled fan speed.

- Oil type: Shell Tellus S2 V 46

- Filters: High pressure filter, 10my absolute

Return oil filter, 10my absolute Leak oil filter, 10my absolute Breather filter, 10my absolute Fine filter, 2my absolute

7. Electro system

Voltage: 1000V / 690VTrafo: 25kVA, 1000V / 400V

- Control system: CAN-bus, prop. contr. of pumps, motors and cylinders

- El-cable: 150m, 3x70kv + PE, (7450EL+7450H)

- Shore power: 400V maintenance charging

Lighting: 24V LED

8. Water / Air / Accelerator / Filmo-system

Water:

- Water tank: ca. 815L

- High pressure washer: 28l/min, 280bar, alternatively 156l/min, 90bar., hydr.

operated.

Max water temp in: 40 °CMin. water pressure in: 1 bar

- Water connection: In front, strainer, 50m hose mounted on hydraulic operated reel.

- Spray pistol and spring-operated hose reel for cleaning of the machine.

Pneumatic operated directional valves

Level gauge in tank

Air:

- Screw compressor, controlled via CAN-bus. Max. 16m³/min, 7 bar, hydraulic operated

- Air connection in the front and rear of the machine.

Accelerator:

- Progressing cavity pump, max 20I/min, 15 bar, corrosion resistant material, hydraulic operated



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- 2x 1000L IBC containers
- AMV AutoAdd dosing system with flowmeter

Filmo:

- 25L pressurized tank
- Spray pistol and spring-operated hose reel mounted on the rear of the machine.

9. Operator Cabin

- Enclosed pressurized, mounted on main boom
- Wiper and waterspray for cleaning of front window
- Adjustable operator chair
- HVAC system with built in cooling and heating
- Filter system for HVAC system
- Radio / Music sound system.

10. Fire Suppression System

- Half-automatic fire suppression system in engine department and inside the container
- Separate detector line for each system
- Manual activation switch at all operator positions

11. Diverse

Surface treatment: 2-component epoxy-paint, RAL 1007 + RAL 7021
Documentation / signs: Norwegian / English, paper + digital PDF

- 3" concrete hose

- Operational limitations: -10°C - +30°C

