

## W.M.V. Z500 Centrifugal Spin Dryer

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Stock No	<a href="#">VS1009</a>
Manufacturer	<a href="#">W.M.V.</a>
Model	Z500
Capacity	Ø580 x 390mm
Type	Centrifugal Heated Spin Dryer
Other Info	Heavy load capacity
Weight (kgs)	215kgs
External Dimensions (WxDxH mm)	1200 x 1200 x 2810mm*

### Description

#### **WMV Z500 Centrifugal Spin Dryer**

A hot air centrifuge for the removal of liquids and the drying of components.

Numerous industrial facilities use WMV centrifuges to reduce their processing costs. The centrifuges are designed and

constructed to provide many years of efficient, reliable and cost effective operation. The addition of a WMV centrifuge can raise profits, increase quality and recover treatment solutions and oils in facilities that perform machining, electroplating, heat treating and many other processes.

#### **WMV centrifuges features and advantages:**

- extended life air heaters
  - simple to operate
  - easy to maintain
  - heavy duty construction for durability
  - lid with safety interlock
  - remote mounted control cabinet
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- Attached lifting hoist for ease of handling

#### **Operation**

Perforated baskets are removed from the centrifuge and filled with parts or machining chips or swarf. The loaded basket is inserted into the centrifuge and the operator closes the lid.

When the lid is closed it is automatically locked and the centrifuge process begins. A light on the operator's panel provides visual feedback that the machine is in operation.

After a preset interval or manual actuation of the stop button the centrifuge is quickly stopped using the motor as a non-wearing regenerative brake. Once the centrifuge is safely stopped the lid automatically unlocks to allow the operator to open the lid and remove the basket.

#### **Structure**

##### **1. Motor**

A special centrifuge motor with non-wearing regenerative brake serves as the drive. The normal speed of the motor is 750 resp. 980 rpm.

##### **2. Motor bearing**

Motor and drum are equipped with a flexible rubber bearing (motor bearing) and fixed at the floor by means of a crosstype support to ensure a non-vibrating operation as best as possible.

##### **3. Bowl insert**

As a rule, the bowl insert consists of an upper and a lower part, the bottom is dished and may optionally be delivered with a perforation of 1.5 mm or without perforation. Depending on the type of design, the shell consists of perforated plate material, with a perforation of 3 mm.

##### **4. Drum/center seat**

The drum seat consists of a base plate of a thickness of 15 mm to which 6 T-steel stays are welded for the guidance of the drum. A flat steel ring in the upper area serves for stabilization. The effect of the stays is similar to that of a fan thus improving indirectly the drying efficiency with the same heat output.

#### **5. Locking of the lid**

During operation, the lid is locked electromagnetically. Only at standstill, the zero-speed relay releases and the safety tumbler unlocks the lid automatically.

#### **6 Lid relieving system**

The lid relieving system using a pneumatic tension spring serves for a reduction of the lid weight, after unlocking the lid may be opened manually. The space between lid and shell is provided with a sectional rubber seal.

#### **7. External shell and cross-type support**

The external shell and the cross-type support consist of a welded steel respectively steel sheet design. The thickness of the external shell is 4 mm. All parts have been varnished for protection against corrosion. The external shell is screwed to the cross-type support which has been fixed at the floor by dowels.

#### **8. Heating system**

The heating is effected via a heating rod across the surface of which air is blown by means of a blower. Via a pipe the air thus heated is guided through the centrifuge lid into the bowl insert respectively into the screening drum (center). The heating system can be controlled either by step switch or via temperature control by means of pt-100.

#### **9. Control**

Except for the operating elements, the control unit of the centrifuge is installed separately in a protected enclosure and connected with the machine via watertight multipole plug-in connectors.

#### **10. Lifting hoist**

The unit is fitted with its own 100kg swing gib hoisting unit, enabling the loaded baskets to be handled safely and with ease.

**Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.**