

# AUTOMATIC CENTRIFUGES FOR METAL WORKING AND MECHANICAL ENGINEERING INDUSTRIES TA – VO TYPE



## KEY FEATURES OF TA-VO TYPE CENTRIFUGES



### EASE OF USE

- Fully automatic cycle.
- Low speed rotation during loading.
- Centrifuge installation on platform, for bottom discharge, in a container or a conveyor.
- Processed product length up to 100/120 mm depending on its shape.



### PRODUCTIVITY

- Short cycle times.
- Integrated top loading funnel allowing to prepare one load while the previous one is processed.
- Low residual moisture.



### VERSATILITY

- De-oiling of short or crushed swarf (steel, stainless steel, brass, bronze, copper, plastic ...)
- De-oiling of parts after oil hardening, tooling, cold stamping...
- Spinning and drying of components after surface treatment (zinc coating, chromium or nickel plating ...).

## MAIN SPECIFICATION

- Vertical axis centrifuge.
- Central suspension.
- Cast iron and carbon steel construction.
- Bottom discharge conical basket, pneumatically activated.
- External casing with inspection doors and air injector to clean basket

filtration griddle.

- Sliding valve pneumatically controlled.
- Discharging chute with vibrating device.
- Axial drive motor with resistant rotor to allow starting and braking
- Pneumatic control board inte-

grated into the centrifuge.

- Independent power and control panel.
- Safety devices according to European standards.

## WORKING PRINCIPLE

- **Feeding:** The load is introduced and distributed evenly into the basket by rotating the basket at low speed after opening the upper sliding valve. This valve is then closed.
- **Centrifuging:** Basket speed is increased to the selected point. Spinning time as per pre set by a timer.
- **Drying (TA-VOC2 type):** During centrifuging, hot air can be intro-

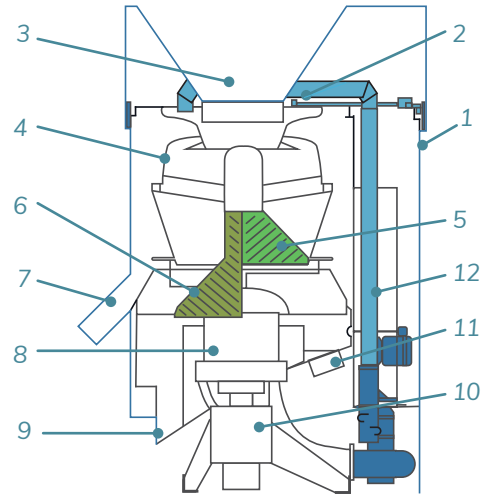
duced into the basket to perform load drying.

- **Unloading:** At the end of centrifuging, the basket is stopped by electric braking. When the basket is stationary, the basket bottom part is opened which allows the load discharge via the discharging chute. Vibrating device allows complete discharge of the basket and chute.

- 1- External casing
- 2- Sliding valve
- 3- Storage and feeding funnel
- 4- Basket
- 5- Basket bottom in closed

- position (feeding + spinning)
- 6- Basket bottom in open position (discharging)
- 7- Liquid outlet pipe
- 8- Axial drive motor
- 9- Discharging chute

- 10- Central suspension
- 11- Vibrating device on discharging chute
- 12- Hot air heater with fan (Type TA-VO C2)



## TECHNICAL CHARACTERISTICS OF TA-VO RANGE

TYPE	Basket				Centrifuge			
	∅ mm	Useful volume l	Maximum Load Kg	Rotation speed rpm	Number of batch per hour	Heating power (TA-VOC2) kW	Weight Kg	Dimensions mm
TA 50 VO	500	65	100/150	750	8/10	4	850	1235 x 820 x 1500
TA 60 VO	600	105	150/200	750	8/10	6	930	1350 x 920 x 1510

### OPTIONAL EQUIPMENT AND AUXILIARIES

- **Adjustable speed** by frequency inverter.
- **Stainless steel** construction for selected parts of the centrifuge.
- **Basket manufactured** from high grade manganese for increased resistance against abrasion (oil hardened components).
- **Upper feeding chute** extension with or without vibrating device with optional level detector.
- **PLC** to control centrifuge cycle.



- **Feeding conveyor.<sup>2</sup>**
- **Elevation platform** to increase unloading height.
- **Protection cage<sup>3</sup>** with access door(s).

- **Integration** into an automatic line.
- **Heating device** with increased power and temperature monitoring (TA-VOC2 type).
- **Loading device with bucket or fork** (trolley on wheels). Loading device specially designed for load recycling.

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