

| ROTAMAT

WAL THER  
TROWAL !



## TROWAL ROTAMAT

SURFACE COATING OF  
SMALL BULK PARTS

WE IMPROVE SURFACES

# | TROWAL SURFACE COATING

## THE ROTAMAT WITH ITS VERSATILE RANGE OF APPLICATIONS AND INNOVATIVE COATING TECHNOLOGY

The Rotamat provides an efficient and cost-effective solution for the surface coating of small parts. This hot drum process enables the uniform coating of components made from a wide variety of materials, such as plastics, metals, elastomers and wood. Sustainability is a key focus, as low-solvent or water-based coatings can be processed. The Rotamat series sets benchmarks in cost-effectiveness, precision and user-friendliness.

### EFFICIENT AND COST-EFFECTIVE COATING OF SMALL BULK PARTS

The Rotamat coating process is based on a rotating hot drum in a closed design. The workpieces are fed in as bulk material and are mixed evenly by the movement of the drum. Inside the enclosed chamber, one or two automatic spray units coat the tumbling parts with precisely dosed coating material, suitable for plastic, elastomer, metal or wood.

Both water-based and solvent-based coatings can be used. In the case of solvent-based coatings, the Rotamat naturally meets all explosion protection requirements.



The required object temperature is achieved by means of pre-filtered, heated inlet air and controlled precisely by an IR sensor. The lacquer dries directly on the pre-heated workpieces – quickly, with minimal loss and with excellent surface quality.



### THE DRUMS

A perfect coating result requires continuous movement of the workpieces. The decisive factor here is the rolling behaviour of the parts. The specially shaped drum of the Rotamat ensures uniform mixing, while both speed and incline can be adjusted continuously and optimally matched to the range of parts.

Walther Trowal offers the advantage of having various drum sizes in its product range. As a result, the ideal running characteristics can be achieved for every batch size.

The entire process runs fully automatically, without the need for the time-consuming positioning of workpieces on racks, as is necessary with conventional coating processes.

For demanding workpiece geometries and maximum edge coverage, a special internal drum coating is optionally available.

The drum is available in several sizes / diameters:

SUITABLE FOR USE WITH:	R 60	R 80	R 85	R 100
Ø 21.65 inches: 0.53 – 2.11 gal per batch	x	x	x	x
Ø 23.62 inches: 1.32 – 3.96 gal per batch	x	x	x	x
Ø 27.56 inches: 2.64 – 7.93 gal per batch		x	x	x
Ø 31.50 inches: 5.28 – 13.21 gal per batch		x	x	x
Ø 33.46 inches: 10.57 – 19.81 gal per batch			x	x
Ø 39.37 inches: 13.21 – 42.27 gal per batch				x

R 100 with two spraying systems

### THE CONTROL SYSTEM

For consistently reproducible results, an industrial PC with a touch panel automatically controls all relevant process parameters: airflow, temperature, drum speed and spray volume can all be regulated precisely.

The integrated recipe management system allows process parameters for different applications to be stored and retrieved quickly. Moreover, the reporting function documents every cycle, making it ideal for traceability and quality assurance.

### THE AIR SYSTEM

The precise introduction of heated inlet air into the drum brings the workpieces to the required processing temperature. The workpieces are heated thoroughly, not just on the surface. This allows the coating to dry more quickly and more uniformly. The object temperature is continuously monitored and precisely controlled by an IR sensor.

Airflow and temperature can be adjusted flexibly, depending on the material, workpiece shape and lacquer type. At the same time, the incoming air supports the removal of volatile substances produced during drying.

The set system negative pressure in the system remains constant, regardless of the degree of contamination of the filter system, and is controlled fully automatically.

The Rotamat exhaust air system operates in four stages and ensures a clean and safe environment.

If required, the filter cabinet can be detached, allowing it to be replaced or serviced quickly and easily.

Particular emphasis is placed on the reduction of overspray through the use of special spray guns.

### THE WEIGHING SYSTEM

In conjunction with the scales, a pre-set quantity of coating material can be applied with gram-level precision. Both the spray quantity and the remaining quantity in the material pressure pot are monitored continuously and automatically.

### THE INTERNAL DRUM LIGHTING

The integrated drum lighting provides good visibility inside the drum, allowing the coating process to be visually monitored at all times.

### ACCESSORIES

The Rotamat can be equipped with one or two spray systems, for example for two-coat applications without interruption. Parallel operation of both systems is also possible.

Further options:

- » Inlet air conditioning
  - » 3S-coated drums
  - » Material station with lid lifter
  - » Cold air generator
  - » Drum cleaning device
  - » Automatic spray unit with quick-change adapter
  - » Non-stick coating
  - » Feed hopper
  - » Scanner (barcode and QR)
  - » Network connection
  - » Remote maintenance
  - » and much more
- 
- » **NEW: ultrasonic sensor for precise flow measurement and control**

Rethink coating processes now, with the Rotamat system from Walther Trowal!

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R 60

Max. fill volume: 4 gal  
Max. fill weight: 55 lbs



R 80

Max. fill volume: 13 gal  
Max. fill weight: 110 lbs



R 85

Max. fill volume: 20 gal  
Max. fill weight: 220 lbs



R 100

Max. fill volume: 42 gal  
Max. fill weight: 220 lbs

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## DECORATIVE COATING

Gives surfaces the desired finish, using effect lacquer, functional lacquers or environmentally friendly lacquers, including solvent-free as well as one- or two-component systems.

## DRY-FILM COATING, LOW-FRICTION PERFORMANCE, LONG-TERM PROTECTION

Reduces friction and provides reliable protection against wear, entirely without lubricants.

## ADHESIVE COATING

Creates a strong bond between the substrate and the elastomer, in one or two layers (primer + cover coat).

## CORROSION PROTECTION COATING

Provides long-term protection against corrosion – entirely without the use of environmentally harmful chemicals. Compared with the dip-spin coating process, drives of small and very small screws, for example, remain free and movable.

## INSULATING COATING

Special lacquers provide a reliable protective layer for electronic components such as ferrite cores, ferrite rings or capacitor sleeves.

## SPECIAL COATING

Using, for example, oils, wax emulsion, flavourings and fragrances.



Decorative coating on plastic workpieces



Dry-film coating on elastomer components



Decorative coating on wood



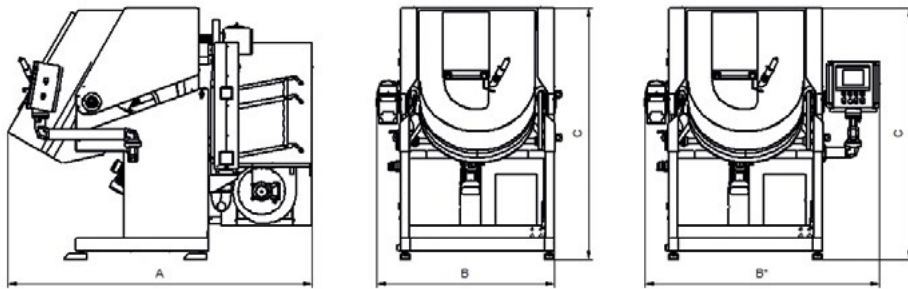
Fasteners for the aerospace industry



Adhesive coating on metal parts

	R 60	R 80	R 85	R 100
Drum Ø [in]	23.6	31.5	33.5	39.4
Max fill [gal]	4.0	13.2	19.8	42.3
Max weight [lbs]	55	110	220	220
<b>DIMENSIONS</b>				
A: Depth [in]	81.9	94.1	98.0	100.8
B: Width [in]	49.2	55.9	58.3	64.2
B*: Width [in]	64.2	70.5	75.6	81.9
C: Height [in]	79.1	82.7	81.9	84.3

Control cabinet dimensions (LxWxH) 55.1 x 19.7 x 78.7 in  
 B\*: Dimension including control panel





**WAL** | **THE** | **R**  
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