

# MODULAR DIE SPRAYING TOOLS PowerSpray





SYSTEMATIC SPRAYING TECHNOLOGY

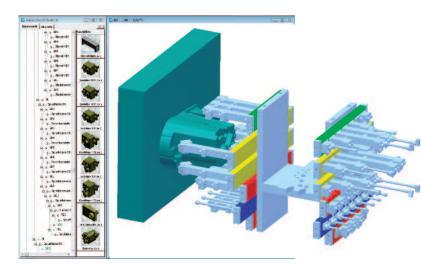
# OUR SERVICE ENSURES YOUR SUCCESS:

### MODULAR DIE SPRAYING TOOLS WITH THE TRIED AND TESTE

We design the spraying tool design free of charge according to your individual needs.

Using an actual casting or mould drawing, the mould spraying tool can be configured quickly on the computer. Assembly and delivery follow. Expensive special designs and long delivery times belong to the past.

On request our application technicians can optimize the spraying tool and the spraying process in your production environment. Our customers have achieved great cost reductions and increased production in this manner.



Spraying tool configurator

#### WOLLIN - YOUR SOLUTION PROVIDER FOR THE DIE SPRAYING PROCESS

#### Easy assembly

A modular system with units for die width, height and depth. Simply insert and screw tight, adjust and start production!

Quick-change system and fast archiving.

#### Flexible

Due to freely configurable spraying strips or spraying plates. Assembly and modification to simple and complex dies in very short time – on site.

#### Powerful

Large medium throughput, mask spraying.

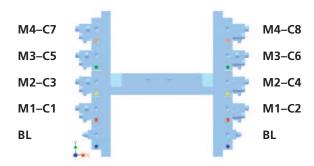
#### Process-secure

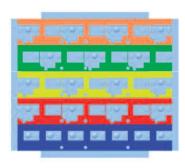
High process reliability and reproducibility due to permanent fixation of all die-specific adjustments, no tubes.

#### Economical

Due to use of standard modules from the **PowerSpray** range. All modules can be re-used.

#### MODULAR SPRAYING TOOL DESIGN



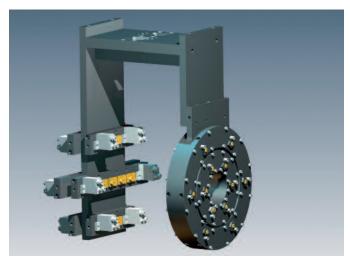


Due to the spraying strip system, the spraying circuit arrangement can be freely selected. Using special-purpose adapters all circuits can be aligned on one side.

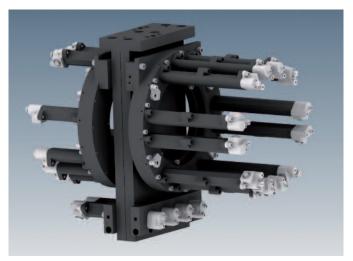
# THIS IS WHAT COUNTS!

- Fast set-up times
- Spot on separating agent application
- Short spraying cycles
- Improved casting quality
- Lower reject rates production
- Lower separating agent consumption
- Environmentally friendly
- All modules can be re-used

## D ADD-ON SYSTEM (THE LEGO PRINCIPLE)



Spraying tool for a 3-plate tool



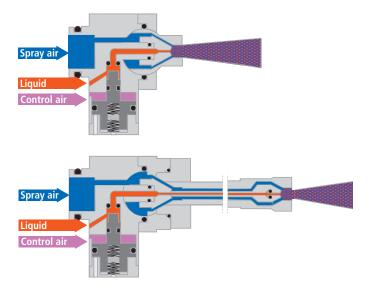
Spraying tool for housing for an electric motor

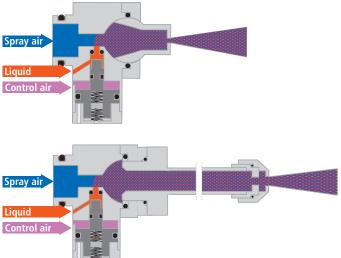
#### 2 SYSTEMS FOR IDEAL USE

#### EXTERNAL MIXING SPRAYING NOZZLES INTERNAL MIXING SPRAYING NOZZLES

- Micro fine misting
- Low noise level
- Individual pressure adjustment
- Programmable flow rate with optional pressure control
- Ideal for complex dies with large-scale contours and low medium application

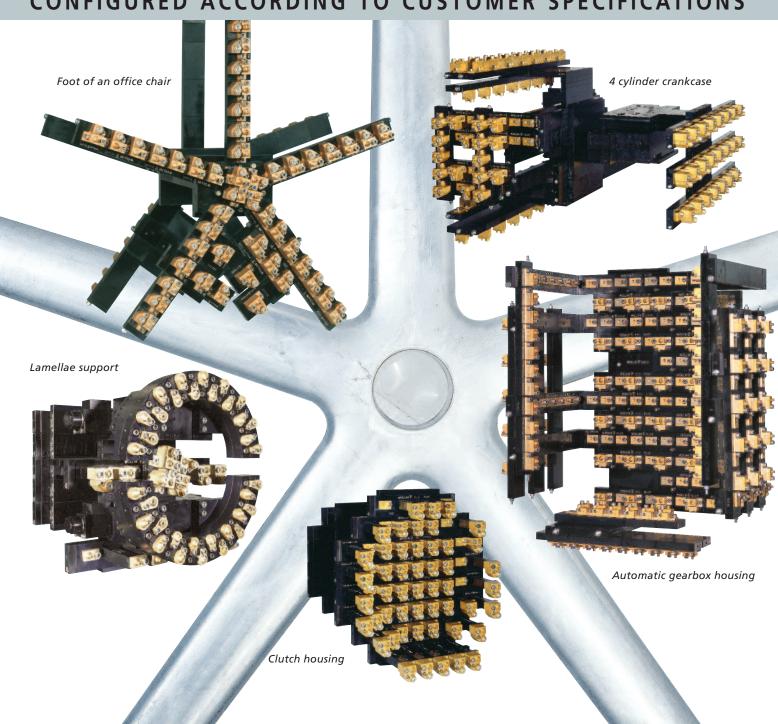
- Powerful misting
- High energy density
- Simple assembly
- Ideal for complex dies with jagged contours, ribs etc.





The **PowerSpray** spraying tool is internationally patented.

# CONFIGURED ACCORDING TO CUSTOMER SPECIFICATIONS



#### DIVERSE NOZZLE SHAPES FOR ALL-PURPOSE SPRAYING USE









#### FOR ECONOMICAL SPRAYING PROCESSES

## PowerSpray PS 16c-compact

- Compact design
- Increased spraying nozzle packing density
- Reduction in weight
- Combination strip with spraying and blasting nozzles
- Double strip 2 spraying circuits on one strip
- Can be used in combination with
   PS 16 standard
- Blasting strip with large diameters for increased blasting power
- Especially suitable for robots
- 2 medium spraying circuit 1: cooling with large throughput – circuit 2: separating agent fine dosage and application using dosing nozzles DD 1





Spraying nozzle **SD 14** 



Dosing nozzle DD 1

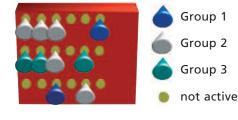
## PowerSpray PS MATRIX

#### THE DIECASTING INNOVATION!

Each nozzle can be individually activated via the diespraying machine control PC 2

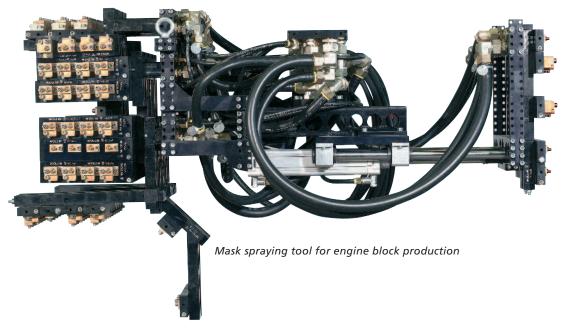
- Reduction in separating agent
- No damage to the die
- Individual spraying of die halves by switching individual nozzles or nozzle groups on or off
- After changing the die only the spraying programme for the clamped die is selected
- Individual nozzle control with freely programmable individual nozzles or nozzle groups
- One spraying tool for several dies
- Only the nozzles specific to the die are activated
- Designed for small to medium casting dies
- Suitable for large and small series





## PowerSpray PS 16 XL-TS

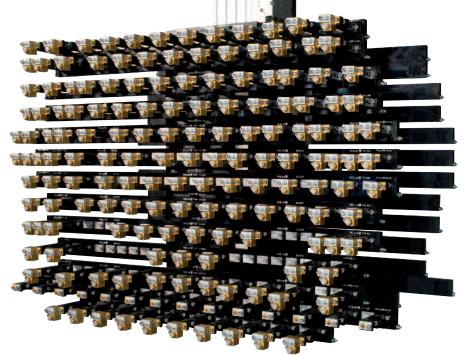
# THE TRIED AND TESTED MASK SPRAYING TOOL WITH PNEUMATIC CARRIAGE



- The spraying distance to the fixed die half is compensated during travel into the die contour on the moving side.
- Simultaneous spraying of both die halves
- High throughput for separating agent and blasting air
- Mask spraying tool
- No spraying tubes
- Drastic reduction in spraying times
- Process secure
- High availability
- Increase in productivity

## PowerSpray PS 25

# THE SPRAYING TOOL WITH ENORMOUS BLASTING AND SPRAYING POWER – ESPECIALLY SUITABLE FOR LARGE DIES



Mask spraying tool for car boot lid

- 25 mm tube cross section for spraying and blasting air
- 12 mm tube cross section for separating agent
- High blasting performance
- High separating agent throughput
- Short spraying times
- For medium to large dies
- Suitable for PSM 3 and PSM 4
- Suitable for Spraying strips PS 16
- Blasting strip PS 16c
   with large cross section

# ENVIRONMENTALLY AND DIE FRIENDLY SEPARATING AGENT APPLICATION

## SPRAYING-SYSTEM EcoSpray

#### **ADVANTAGES**

- Short spraying times
- Lower separating agent consumption
- Longer die life
- Lower air consumption
- Reduced noise emissions
- Lower energy costs
- No biocides
- No waste water
- Better parts quality



Newly developed oil-based separating agents enable application of the separating agent without adding water. This technology is used in dies that are cooled internally. This technology is particularly suitable for thin-walled aluminium and magnesium parts.

#### **DOSING NOZZLE DD 1**

- Minimum quantities due to volumetric dosage
- Infinitely variable volumes 0 – 0.075 ml/ impulse
- Spraying independent of pressure
- Impulse time 0.2 sec.
- Separating agent pressure 3 – 9 bar
- Functional over a temperature range 50°C – 350°C

- Suitable for oil-based separating agents, water-based highly concentrates or graphite oils
- Suitable for assembly on PS 16, PS 16ccompact, PS 25
- Can be used in combination with standard nozzles
- Requires no complicated modifications to the spraying machine
- Economical only the spraying nozzles are replaced



# WE OFFER SOUND ADVICE AND PROFESSIONAL SERVICE WORLDWIDE







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