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SPRAY NOZ

TECHNOLOGIES PVT. LTD.

www.spraynoztechnologies.com



SPRAY NOZZLES & ACCESSORIES

ABOUT US....

TODAY, “SPRAYNOZ TECHNOLOGIES PVT. LTD. ” IS LEADING COMPANY AND POPULAR NAME IN THE MARKET FOR MANUFACTURING OF DIFFERENT TYPES OF INDUSTRIAL SPRAY NOZZLES, FULL CONE, SPIRAL CONE, FLAT JET, HOLLOW CONE, AIR ATOMIZING, TANK CLEANING (SELF ROTATING- STATIC) AND JATo (CONTINUOUS CASTING MACHINE).

VISION & VALUES

“OUR VISION IS TO PROVIDE EXCELLENT QUALITY OF PRODUCTS, IN TIME DELIVERY, BEST TECHNICAL ASSISTANT AND COMPETITIVE COST OF PRODUCTS”.

AAPPLICATION AREAS....

SOLAR
INDUSTRY

A photograph of a vast field of solar panels under a clear sky, with a small structure visible in the distance.

FOOD
PROCESSING
INDUSTRY

A photograph of a modern food processing facility with stainless steel equipment and green vegetables.

CEMENT
INDUSTRY

A photograph of a large cement factory with tall chimneys and industrial structures.


STEEL
INDUSTRY

A photograph of a steel mill with bright orange molten metal being processed.

POWER
INDUSTRY

A photograph of a power plant with large cooling towers and a body of water.

CHEMICAL
INDUSTRY

A photograph of a chemical plant with large storage tanks and industrial equipment.

AUTO MOBILE
INDUSTRY

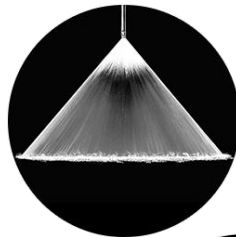
A photograph of a car assembly line with several vehicles being produced.

TYPES OF SPRAY PATTERN

❖ FULL CONE SPRAY PATTERN



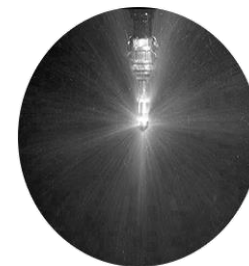
❖ FLAT JET SPRAY PATTERN



❖ HOLLOW CONE SPRAY PATTERN



❖ TANK CLEANING SPRAY PATTERN – CLEAN IN PLACE (CIP)



TYPES OF SPRAY NOZZLES

❖ FULL CONE SPRAY NOZZLES

❖ FLAT JET SPRAY NOZZLES

❖ HOLLOW CONE SPRAY NOZZLES

❖ AIR ATOMIZING SPRAY NOZZLES

❖ TANK CLEANING SPRAY NOZZLES – CLEAN IN PLACE (CIP)

FULL CONE SPRAY NOZZLES

THE MOST FREQUENTLY USED NOZZLE TYPE IN INDUSTRY IS THE FULL CONE NOZZLE. THE SPRAY DISCHARGES FROM THE NOZZLE IN A CONICAL SHAPE WITH THE LIQUID DISPERSED OVER THE INTERIOR OF THE CONE. WHEN THE SPRAY REACHES WITH A SURFACE, A CIRCLE OF SPRAY IS FORMED WITH LIQUID PRESENT THROUGHOUT. THE FULL CONE PATTERN FROM A SPIRAL NOZZLE CONSISTS OF SEVERAL CONCENTRIC HOLLOW CONES THAT COMBINE TO PRODUCE A FULL CONE EFFECT WITH A SMALLER DROPLET SIZE.

APPLICATION:

DESUPERHEATING
COOLING
CLEANING
CHLORINE PRECIPITATION
CHEMICAL PROCESS ENGINEERING
ABSORPTION
WATER TREATMENT
SURFACE SPRAYING
WASHERS
GAS TREATMENT
FOAM CONTROL
FIRE PROTECTION
DUST CONTROL
OTHERS.



FULL CONE



FULL CONE



SPIRA FULL
CONE



TANGENTIAL
FULL CONE



FULL CONE
SQUARE PATTEI



ADJUSTABLE ANGLE
FULL CONE



NARROW
FULL CONE



CONTINUOUS CASTING
MACHINE -CCM



SOLID JET
STRAIGHT JET
ZERO DEGREE



MULTIPLE
FULL CONE -
75 DEGREE



MULTIPLE
FULL CONE -
130 DEGREE



FOG JET

FLAT JET SPRAY NOZZLES

THESE NOZZLES PRODUCE A THIN, FLAT SHEET OF LIQUID THAT EXPANDS OUTWARD FROM THE NOZZLE. A THIN LINE OF LIQUID IS PRODUCED WHEN THE SPRAY REACHES A SURFACE. AS THE LIQUID IS CONCENTRATED INTO A SMALLER NET AREA, THE IMPACT FORCE FROM FAN NOZZLES IS GREATER THAN FROM FULL OR HOLLOW CONE NOZZLES.

APPLICATION:

- COOLING
- SURFACE TREATMENT
- PHOSPHATING
- RAIN CURTAINS
- FOAM CONTROL
- FOAM SPRAYING
- BELT CLEANING
- COATING
- STEAM CLEANING
- DEGREASING
- HIGH PRESSURE CLEANING
- GRAVEL WASHING
- LUBRICATION
- FILTER CLEANING
- SPRAY CLEANING
- WASHING PROCESSES
- OTHERS



FLAT JET



FLAT JET
DESCALER



FLOOD JET



FLAT JET HIGH
IMPACT



ADJUSTABLE AGLE
FLAT JET

HOLLOW CONE SPRAY NOZZLES

USED LESS FREQUENTLY THAN FULL CONE NOZZLES, HOLLOW CONE NOZZLES PRODUCE A THIN RING OF LIQUID. THE SPRAY DISCHARGES FROM THE NOZZLE IN A CONICAL SHAPE WITH THE LIQUID ONLY AT THE PERIPHERY OF THE CONE. WHEN THE SPRAY REACHES WITH A SURFACE, A RING OF SPRAY IS FORMED WITH A HOLLOW CENTER.

APPLICATION:

- FIRE PROTECTION
 - FOAM DESTRUCTION
 - GAS TREATMENT
 - HUMIDIFICATION OF AIR
 - HUMIDIFICATION OF GOODS
 - HUMIDIFICATION OF TEXTILES
 - ABSORPTION
 - CHEMICAL PROCESSING ENGINEERING
 - COOLING
 - DISINFECTION
 - DESUPERHEATING
 - DUST CONTROL
 - OIL SPRAYING
 - PROTECTION OF STORAGE TANKS
- SPRAYING ONTO FILTERS
 - SPRAYING OVER GERMINATING BOXES
 - WATER RECOOLING
 - OTHERS



TANGENTIAL
HOLLOW CONE



INLINE ENTRY
HOLLOW CONE



AXIAL
HOLLOW CONE

AIR ATOMIZING SPRAY NOZZLES

COMPRESSED AIR IS USED TO INCREASE THE ATOMIZATION EFFICIENCY OF THESE NOZZLES. A SMALLER DROPLET SIZE FOR A GIVEN LIQUID FLOW RATE CAN BE OBTAINED WITH THE USE OF COMPRESSED AIR THAN CAN BE OBTAINED WITH NOZZLES THAT ONLY USE THE PRESSURE OF THE FLUID.

APPLICATION:

- ATOMIZING OF VISCOUS LIQUIDS
- GRANULATION
- HUMIDIFICATION OF AIR
- AGGLOMERATION
- TABLET COATING
- PALLET COATING
- COOLING
- OTHERS



FULL CONE
AIR ATOMIZING



FLAT JET EXTERNAL
AIR ATOMIZING



FLAT JET INTERNAL
AIR ATOMIZING



FULL CONE AIR ATOMIZING-
SIPHON PRINCIPLE



AIR ATOMIZING WITH FLOW RATE CONTROL ARRANGEMENT



AIR ATOMIZING WITH FLOW RATE CONTROL ARRANGEMENT AND SHUT OFF/CLEAN OUT NEEDLE

TANK WASHING OR CLEAN-IN-PLACE (CIP) SPRAY NOZZLES

THESE SPECIALIZED PRODUCTS ARE CUSTOMIZED TO THE TASK OF CLEANING THE INTERNAL SURFACES OF TANKS. THE TYPICAL 360° SPRAY PATTERN COVERS ALL INTERNAL SURFACES WHILE SPECIALIZED 270° AND 180° PATTERNS FOCUS THE CLEANING FLUID ON SPECIFIC SURFACES. MODELS RANGE FROM BASIC STATIC NOZZLES TO ADVANCED SELF-ROTATING TANK CLEANING MACHINES.

APPLICATION:

- CHEMICAL INDUSTRY
- COSMETIC INDUSTRY
- TANK BUILDING
- FOOD INDUSTRY
- PHARMACEUTICAL INDUSTRY
- BIOENGINEERING
- BEVERAGE INDUSTRY
- OTHERS



STATIC SPRAY BALL



SELF ROTATING

ACCESSORIES:

WE ALSO PROVIDE FOLLOWING TYPES OF ACCESSORIES.

- **CONNECTOR BODIES – TIP HOLDER – COUPLING.**
- **WELDING NIPPLES, THREADED NIPPLEE, DOVE TAIL.**
- **FITTINGS –SOCKETS, NUTS, NIPPLE.**
- **BALL JOINTS WITH THRADED CONNECTIONS.**



COUPLING



NIPPLE



SOCKTES



**RETANING
LOCK NUTS**



**DOVETAIL
NIPPLE**



**BALL
JOINT**

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