



# Switch™ 3D Gun



Rotating Dispense Applicator

PROVEN QUALITY. LEADING TECHNOLOGY.

# Swiveling applicator for robotic sealing applications.

The Graco Switch 3D Gun is a lightweight, high-pressure applicator designed for precision robotic applications. The applicator head is equipped with swivel functionality, meaning the head can rotate independently of cables and hoses to prevent twining. The applicator head includes three nozzles that can be configured to facilitate material dispense at difficult angles and improve dispense efficiency and reduce cycle times in your process.

## Compatible and Light Weight

Easily adapts to different robots

## Material Inlets

For dispensing one or two separate single component materials

## External Solenoid Valves

For easy maintenance

## Longer Central Body

Easy to use in confined spaces

## Aluminum Body

Light weight applicator

## Independent Rotating Applicator Head

Prevent hose and cable twining

## Three Nozzle Heads

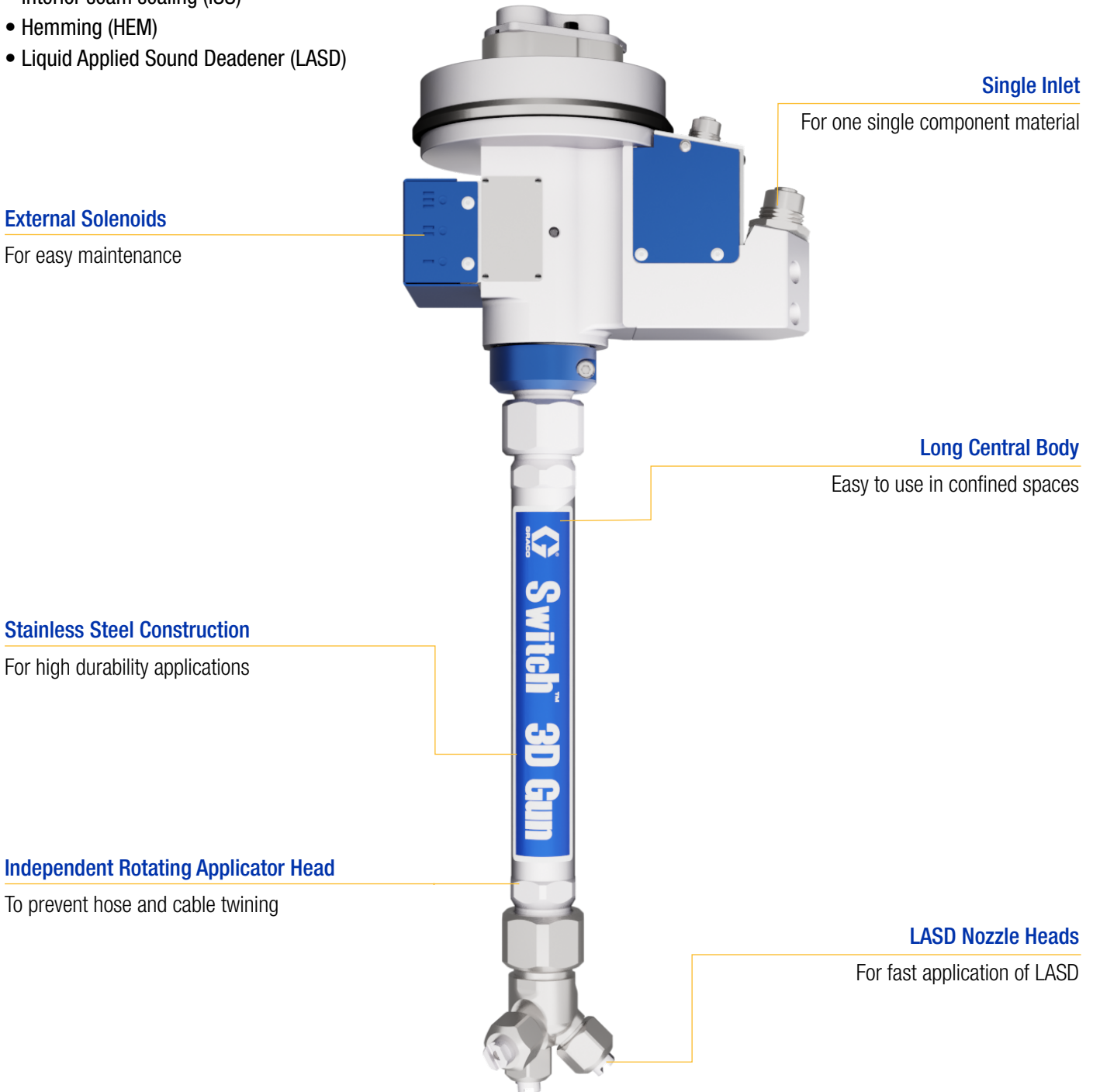
Available in multiple angles and slot directions



**Pictured:** Switch 3D Gun for Seam Sealing Applications

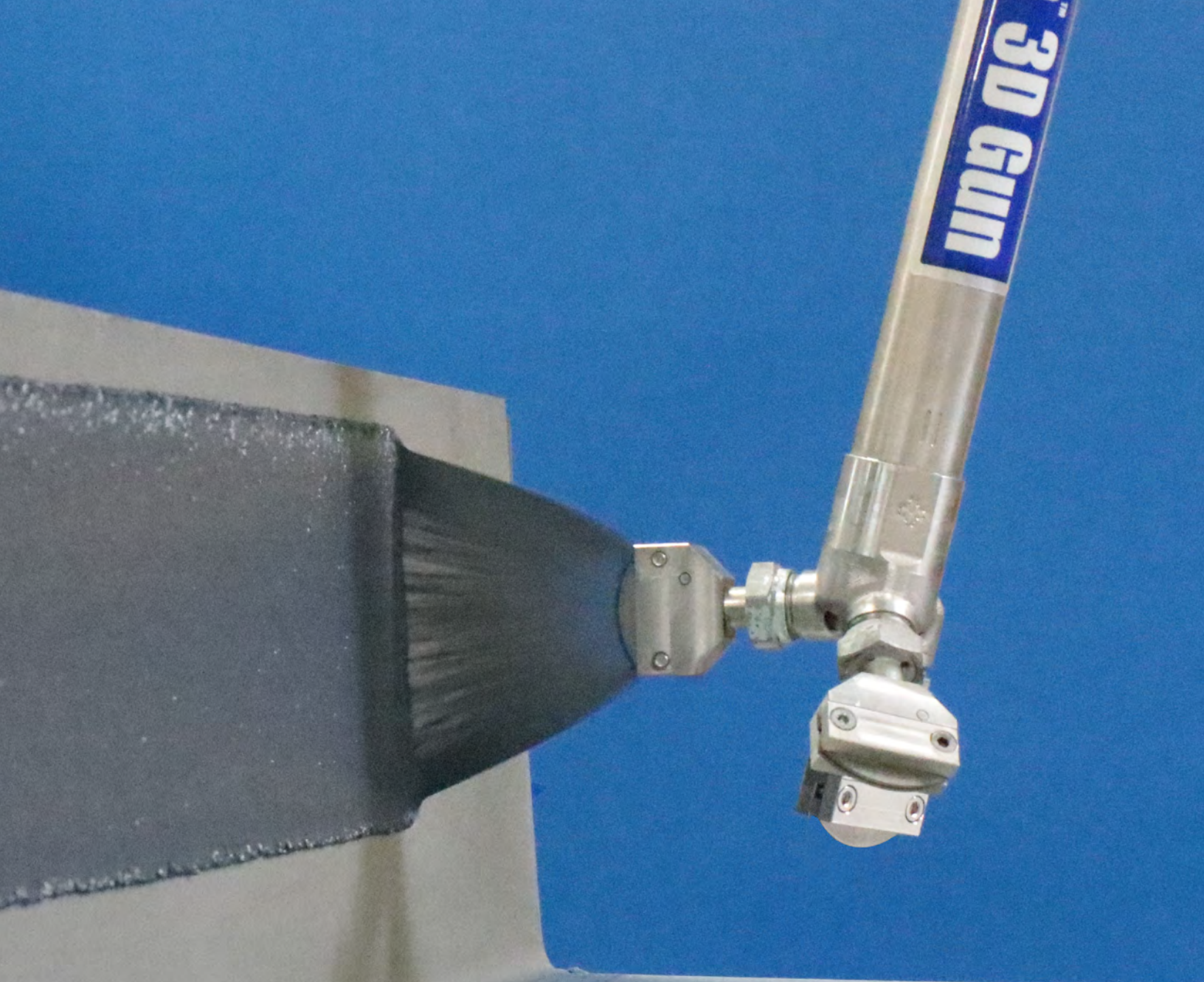
Due to its flexibility, the Switch 3D Gun is designed for various applications, including:

- Under-body coating (UBC)
- Under-body sealing (UBS)
- Seam sealing
- Interior seam sealing (ISS)
- Hemming (HEM)
- Liquid Applied Sound Deadener (LASD)



**Pictured:** Switch 3D Gun for LASD Applications





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**HIGHLY DURABLE COMPONENTS  
REDUCE DOWNTIME AND  
MAINTENANCE COSTS  
IN HIGH-SPEED OPERATIONS**

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# Technical Specifications

Part Number	US	Metric
Maximum Fluid Working Pressure	3350 psi	23.1 MPa (231 bar)
Maximum Fluid Temperature	176° F	80° C
Minimum Air Pressure	80 psi	0.55 MPa (5.5 bar)
Maximum Air Pressure	116 psi	0.8 MPa (8 bar)
Length	Varies by nozzle type; maximum: 20.16 in. / 516 mm	
Swivel Height	6 in.	150 mm
Mounting Arrangement	Robot mounting flange	
Air Ports	0.3 in	8 mm
Solenoid Valve Type	Mono stable 3/2 port	
Voltage	24 VDC	
Weight	10.1 lb	
Torque Requirement		
M 2.5, screw	7.1 in-lb	0.8 N•m
M 3 screw	12 in-lb	1.35 N•m
M 4 Screw	29.2 in-lb	3.3 N•m
M 5 Screw	57.5 in-lb	6.5 N•m
M 6 Screw	98.2 in-lb	11.1 N•m
M 8 Screw	235.4 in-lb	26.6 N•m
1/2 in. BSPP, Nipple	15 ft-lbs	20.34 N•m
3/8 in. BSPP, Nipple	30-35 ft-lbs	41-48 N•m
(901) NUT, retaining	15 ft-lbs	20.34 N•m
(101) NUT, turnbuckle, locking	75 ft-lbs	101.69 N•m
Sensors	100 in-lbs	11.3 N•m
Normal Shaft Rotational Load		
0 bar	65 in-lb	7.3 N•m
100 bar	79.7 -110 in-lb	9 - 12.43 N•m
200 bar	106.2 - 135 in-lb	12 - 15.25 N•m
Wetted Components		
17V558, 17V559, 17V561, 17V562, 17V563, 17V564, 17V565, 17V567	UHMW PE, Stainless Steel, Aluminum, Tungsten Carbide, Acetal, FKM, PTFE	
25T991, 25T992, 25T993, 25T994, 25T995, 25T996	UHMW PE, Stainless Steel, Tungsten Carbide, Acetal, FKM, PTFE, Urethane	

# Ordering Information

Part Number	Construction	Nozzle Angles	Material Port Options	Sensors
17V558	Aluminum for Sealers	0   45   75	One Material with Recirculation	No sensors
17V559	Aluminum for Sealers	0   45   75	One Material with Recirculation	Temperature sensor
17V561	Aluminum for Sealers	0   45   75	One Material with Recirculation	Temperature sensor Pressure sensor
17V562	Aluminum for Sealers	0   45   75	Two Materials, No Recirculation	No sensors
17V563	Aluminum for Sealers	0   45   75	Two Materials, No Recirculation	Dual temperature sensors
17V564	Aluminum for Sealers	0   45   75	One Material, No Recirculation, One Inlet	No sensors
17V565	Aluminum for Sealers	0   45   75	One Material, No Recirculation, One Inlet	Temperature sensor
17V567	Aluminum for Sealers	0   45   75	One Material, No Recirculation, One Inlet	Temperature sensor Pressure sensor
25T991	SST for LASD	0   45   75	One Material, No Recirculation, One Inlet	No sensors
25T992	SST for LASD	0   45   75	One Material, No Recirculation, One Inlet	Temperature sensor
25T993	SST for LASD	0   45   75	One Material, No Recirculation, One Inlet	Temperature sensor Pressure sensor
25T994	SST for LASD	0   45   90	One Material, No Recirculation, One Inlet	No sensors
25T995	SST for LASD	0   45   90	One Material, No Recirculation, One Inlet	Temperature sensor
25T996	SST for LASD	0   45   90	One Material, No Recirculation, One Inlet	Temperature sensor Pressure sensor

## Nozzle Selection Guide



Slot Ribbon Nozzle  
*For seam sealing*



Duckbill Nozzle  
*For high-flow LASD*



Airless Spray Tip  
*For low-flow LASD, medium flow UBC, anti-chip, and other applications*



Adapter Kit  
*For various nozzles and tip compatibility*

# Ordering Information

## Nozzle Kits

Part Number	Type	Width in. (mm)	Length in. (mm)
17V669	Sealer	0.012 (0.30)	0.27 (7)
17V670	Sealer	0.012 (0.30)	0.31 (8)
17V671	Sealer	0.012 (0.30)	0.35 (9)
17V672	Sealer	0.012 (0.30)	0.39 (10)
17V673	Sealer	0.015 (0.38)	0.31 (8)
17V674	Sealer	0.015 (0.38)	0.35 (9)
17V675	Sealer	0.015 (0.38)	0.39 (10)
17V676	Sealer	0.015 (0.38)	0.43 (11)
25U016	LASD	0.400 (10.16)	1.3 (35)
25U017	LASD	0.500 (12.70)	1.3 (35)

## LASD Nozzle Plate Assembly Kits

Part Number	Slot Width in. (mm)	Slot Length in. (mm)
25U331	0.400 (10.16)	1.3 (35)
25U332	0.500 (12.70)	1.3 (35)

## Kits

Part Number	Description	Gun Compatibility
25U338	Spray Stream Adapter Kit	SST Only
25U332	Kit for 0.4mm LASD	SST Only
25U330	Ball Shut-off Needle Kit	SST Only
25U329	Bearing and Seals Kit	SST Only
15N265	8 Pin Cable Kit	SST and Aluminum
17V857	5 Pin Cable Kit	SST and Aluminum
25T485	Service Kit for Solenoids	SST and Aluminum
25U328	Yearly Service Kit for Complete Seal Rebuild	SST Only
25T484	Yearly Service Kit for Complete Seal Rebuild	Aluminum Only
25T486	Air Cylinder Housing Kit	SST and Aluminum
25T487	Material Shaft Kit	SST and Aluminum
25T488	Bearing Seal Kit	SST and Aluminum
25T489	Seal Tool Kit	SST and Aluminum
17V972	Material Seat Tool	SST and Aluminum
17V859	Tool Kit	SST and Aluminum





## ABOUT GRACO

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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