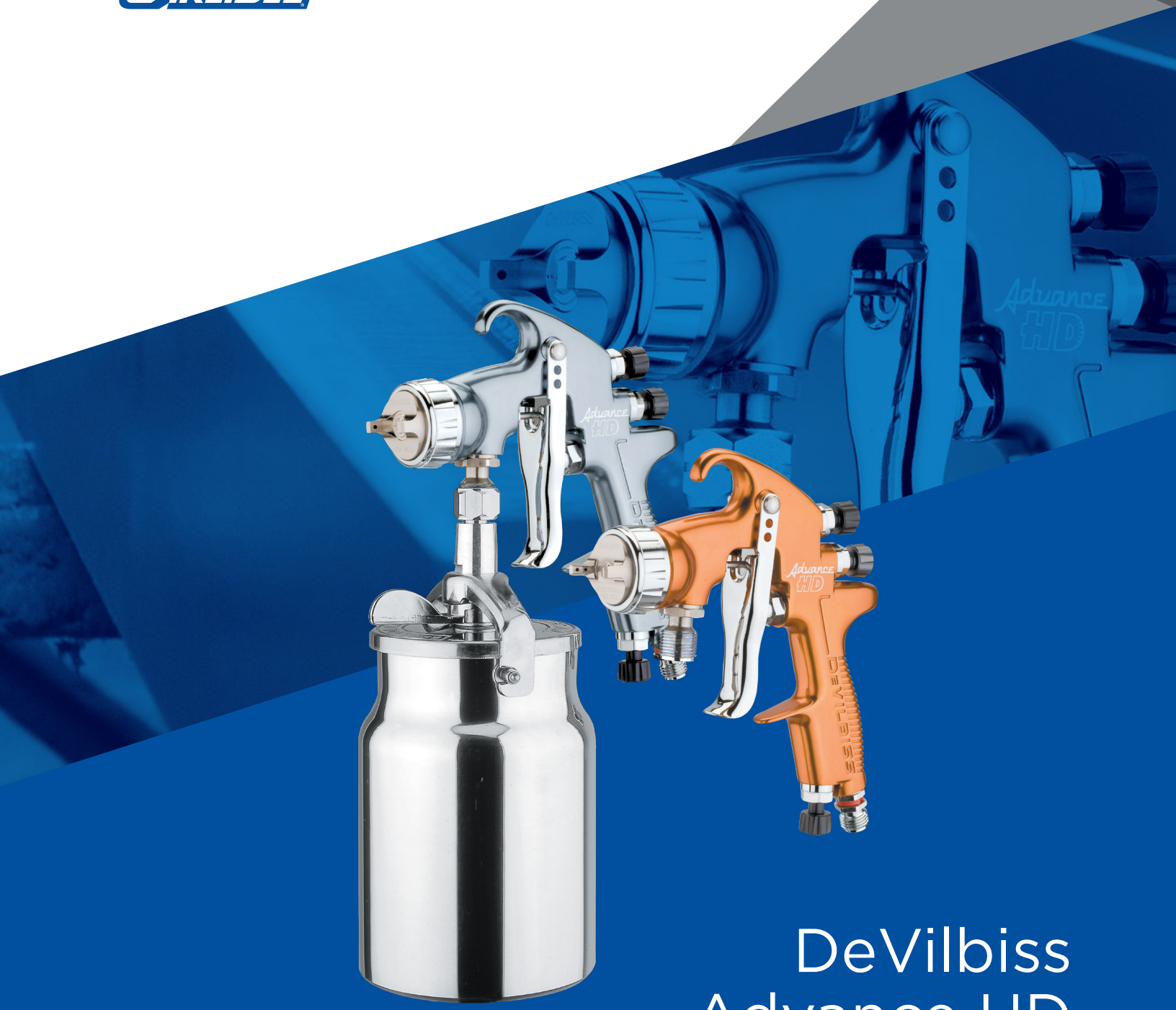
DEVILBISS
A CARLISLE BRAND



DeVilbiss Advance HD

The All Purpose Mid-Sized Spray Gun

DeVilbiss Advance HD

Significantly raising the benchmark in spray gun performance and productivity

DeVilbiss spray guns have advanced again with our Advance HD spray gun range, suitable for all types of industrial spray finishing applications

Advance HD unrivaled high performance is achieved with new design technology utilizing high capacity air passages with a separate “balanced” air valve to provide an unrestricted flow of compressed air through the gun body. This “free breathing” air movement enables the precision-engineered air caps and fluid tips to produce superior atomization with consistent even distribution throughout the spray pattern.

FEATURES

Advance HD (high demand) spray guns are available in Pressure, Suction and Gravity feed formats

- Robust, lightweight and work friendly design for High Demand outputs
- Contoured handle design greatly reduces RSi and operator fatigue
- Balanced air valve design for lighter trigger pull and improved air flow
- Stainless steel tips, needles and fluid passageways as standard
- CE marked and fully ATEX approved
- Wide range of air caps provide a superior finish with the best possible paint savings and transfer efficiency (compliant or conventional, depending on spray gun range selected)

Perfectly balanced, naturally comfortable

The Advance HD is lightweight with a lighter trigger action, increased finger room, and contoured handle design. Advance HD spray guns are precision built by DeVilbiss using the best materials and component parts for a guaranteed, reliable, long and durable working life.



Aluminum Alloy Body

- Heavily anodized for durability
- Wide hook opening 1/2” (12mm)
- Easy adjustments for precise control
- Separate “balanced” air valve design

Increased Finger Space

- Easier access for operator
- Lighter trigger pull tension
- Reduced trigger travel
- Self-adjusting needle packing assembly (PTFE)



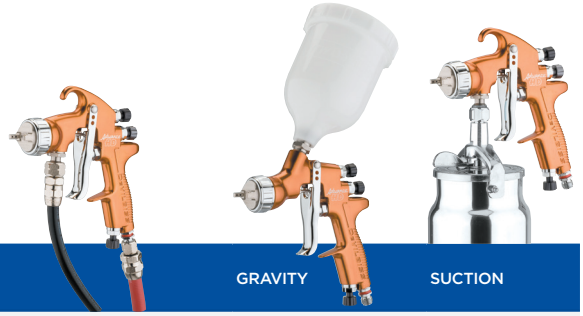


Curved Handle

- Superior fit and feel with reduced operator fatigue and RSI
- Air inlet adjuster “cheater” valve
- 1/4” Universal Thread air inlet

COMPLIANT SPRAY GUN RANGE

Advance HD Compliant Spray Guns utilize high-grade Stainless Steel fluid tips and needles, matched with either Trans-Tech Compliant or HVLP air caps manufactured from Plated Hard Brass for a long and durable working life. Select your Advance HD Compliant Spray Gun preference and nozzle combinations from the charts (below) to achieve optimal performance for your spray process.



AIR CAP NUMBER AND TYPE	AIR CONSUMPTION BAR (psi) RECOMMENDED	AIR INLET PRESSURE	TYPICAL FLUID SIZE mm*	TYPICAL FAN PATTERN*	PRESSURE	GRAVITY	SUCTION
No. 500R (HVLP)	195 l/min (7 scfm)	1.0 bar (14 psi)	130-190	Round spray	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm	1.3mm, 1.6mm, 1.8*mm, 2.0mm, 2.2mm	1.6mm, 1.8*mm, 2.0mm, 2.2mm
No. 505 (HVLP)	385 l/min (13.6 scfm)	1.3 bar (19 psi)	130-190	270	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm	1.3mm, 1.6mm, 1.8*mm, 2.0mm, 2.2mm	1.6mm, 1.8*mm, 2.0mm, 2.2mm
No. 590HV (HVLP)	200 l/min (7.1 scfm)	1.0 bar (14 psi)	0-150	120	0.5mm, 0.7mm, 1.0mm		
No. 510 Trans-Tech	283 l/min (10 scfm)	2 bar (29 psi)	160-220	270	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm	1.3mm, 1.6mm, 1.8*mm, 2.0mm, 2.2mm	1.6mm, 1.8*mm, 2.0mm, 2.2mm
No. 513 Trans-Tech	394 l/min (14.1 scfm)	2 bar (29 psi)	200-800	350	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm	1.3mm, 1.6mm, 1.8*mm, 2.0mm, 2.2mm	1.6mm, 1.8*mm, 2.0mm, 2.2mm
No. 515 Trans-Tech	364 l/min (12.9 scfm)	2 bar (29 psi)	200-400	320	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm, 2.8*mm		
No. 520 Trans-Tech	284 l/min (10 scfm)	2 bar (29 psi)	150-250	280	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm,		
No. 522 Trans-Tech	410 l/min (14.5 scfm)	2 bar (29 psi)	200-600	350	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm, 2.8*mm		
No. 523 Trans-Tech	410 l/min (14.5 scfm)	2 bar (29 psi)	200-400	300	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm, 2.8*mm		
No. 590 Trans-Tech	218 l/min (7.8 scfm)	2 bar (29 psi)	0-150	150	0.5mm, 0.7mm, 1.0mm		
No. 591 Trans-Tech	218 l/min (7.8 scfm)	2 bar (29 psi)	0-150	150	0.5mm, 0.7mm, 1.0mm		

No. 505 (HVLP) and No. 500R (HVLP) air caps operate at 0.7 bar (10 psi) at the cap.
All illustrated flow rates and fan sizes may vary according to paint/material viscosity and pressure used.

CONVENTIONAL SPRAY GUN RANGE

Advance HD Conventional Spray Guns utilize high-grade Stainless Steel fluid tips and needles, matched with Conventional air caps manufactured from Plated Hard Brass for a long and durable working life. Select your Advance HD Conventional Spray Gun preference and nozzle combinations from the charts (below) to achieve optimal performance for your spray process.



AIR CAP NUMBER AND TYPE	AIR CONSUMPTION BAR (PSI) RECOMMENDED	AIR INLET PRESSURE	TYPICAL FLUID SIZE mm*	TYPICAL FAN PATTERN*	PRESSURE	GRAVITY	SUCTION
No. 430 Conventional	339 l/min (12 scfm)	3.5 bar (50 psi)	200-280	200	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm	1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm	1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm
No. 443 Conventional	345 l/min (12.6 scfm)	3 bar (45 psi)	200-300	300	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm	1.2mm, 1.3mm, 1.8*mm, 2.0mm, 2.2*mm	1.6mm, 1.8*mm, 2.0mm, 2.2mm
No. 462 Conventional	380 l/min (13.5 scfm)	3 bar 45 psi)	500-3000†	450†	2.2*mm†, 2.8*mm†		
No. 470 Conventional	465 l/min (16.4 scfm)	3 bar (45 psi)	500-1800†	420†	2.2*mm†, 2.8*mm†	2.8*mm	
No. 477 Conventional	480 l/min (17 scfm)	3 bar (45 psi)	200-800	430	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm		
No. 497 Conventional	510 l/min (18 scfm)	3.5 bar (50 psi)	200-600	380	0.85mm, 1.0mm, 1.2mm, 1.3mm, 1.4*mm, 1.6mm, 1.8*mm, 2.0mm, 2.2*mm		

Part numbering and packaging

Advance HD spray gun kits are packaged as: Pressure gun only; Suction gun with 1 liter cup; and Gravity Feed kits including .568 ml standard gravity cup.

Example of Advance HD Spray Gun part numbering:

ADV-P430 means ...

ADV = Advance Gun / P = Pressure / 430 = Conventional Air Cap / 14 = 1.4mm Fluid Tip and Needle

* Hardened & tungsten carbide tips and needles are available in these sizes.
† = ceramic material

Spray gun inlet thread sizes and type:
Air Connection ¼" (m) Universal Thread size, accepts BSP and/or NPS connectors.
Fluid Connection ⅜" (m) Universal Thread size, accepts BSP and/or NPS connectors.

OPTIONAL ACCESSORIES



Gravity Cup
GFC-501



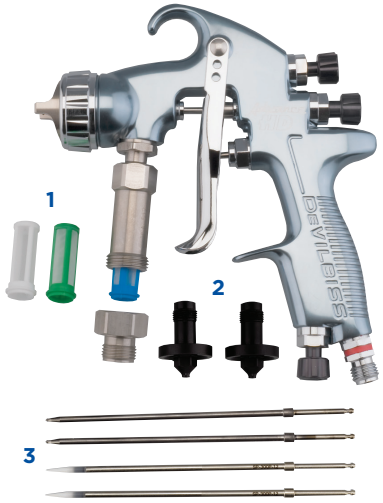
Suction Cup
KR-556-1-B



Gravity Cup (Blue polyester)
GFC-511 - For difficult fluids.

Fluid Filter Kit

1. VSA-512 St/St Fluid Filter Kit (inc. 3 elements)
2. Tungsten Carbide and Hardened Tips/Needles (abrasive materials)
3. Nylon Tipped Needle



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Let's start a conversation

We want to work together to help answer your application challenges. To learn more about what we can offer, visit our website at ***CarlisleFT.com*** or call us today.

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