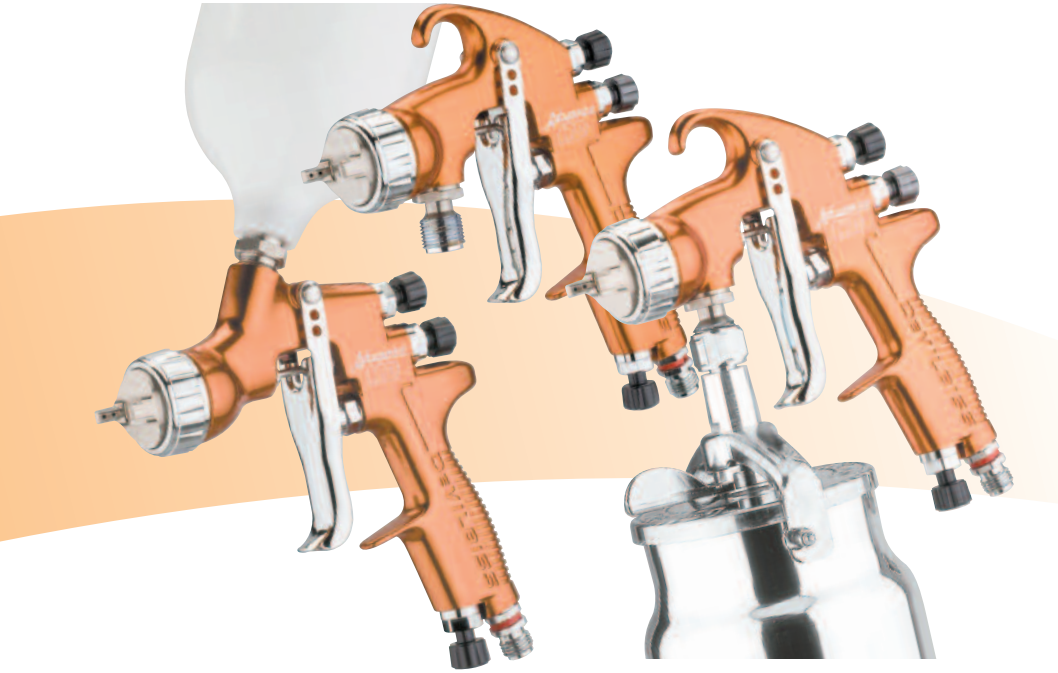
DEVILBISS ADVANCE *HD*

The all purpose mid-sized Compliant Spray Gun Range

DeVilbiss spray technology has Advanced again...



The comprehensive Advance *HD* (High Demand) spray gun range ensures there's a DeVilbiss spray gun to suit all types of industrial spray finishing applications. Pressure, Suction and Gravity feed, the Advance *HD* family utilise a comprehensive, wide range of Compliant Air Caps to provide outstanding coatings' atomisation for handling all types of solvent, waterborne, high solids and 2K materials.

DeVilbiss expertise and performance unequalled at work...
Advance *HD* unrivalled high performance is achieved with new design technology utilising 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 atomisation with consistent even distribution throughout the spray pattern. Advance *HD* is precision built using the best materials and component parts for a guaranteed, reliable, long and durable working life in all industrial markets.

Advance *HD* – Naturally comfortable...
Light weight with a lighter trigger action and increased finger room. Advance *HD* is perfectly balanced and naturally comfortable thanks to the fit and feel of the contoured handle design. It greatly reduces operator fatigue and significantly lessens the chances of RSI or finger problems. Comfort that pays off by increasing productivity wherever DeVilbiss Advance spray guns are used, whether it's a small finishing operation or a high volume production line.

- Robust, Lightweight and work friendly design for ***High Demand*** outputs
- Balanced air valve design for lighter trigger pull and improved air flow
- Trans-Tech Compliant and HVLP air caps provide superior finish with the best possible paint savings and transfer efficiency
- Contoured handle design – Greatly reduces RSi and operator fatigue
- Stainless Steel tips, needles and fluid passageways as standard
- CE marked and fully ATEX approved.

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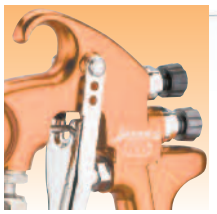
Advance HD by DeVILBISS

Key features and benefits for *High Demand* applications



- "Trans-Tech" Compliant OR HVLP Air Caps, St St Fluid Tips and Needles with Hardened and Tungsten carbide options provide universal compatibility with ALL Industrial Spray Coatings.
- Stainless Steel Fluid passageway/inlet with 3/8" Universal Thread for BSP and NPS compatibility.
- No Baffle design – reduced number of parts, reducing weight and making cleaning easier.



- Forged Aluminium Alloy Gun Body – Heavily Anodised for a Rugged Long working life.
- Wider Hook opening 1/2" (12mm).
- Gun Controls – Easy Adjustment for precise control of Fluid output and atomising air.
- Separate "balanced" Air Valve design for precise air flow triggering and easier cleaning.



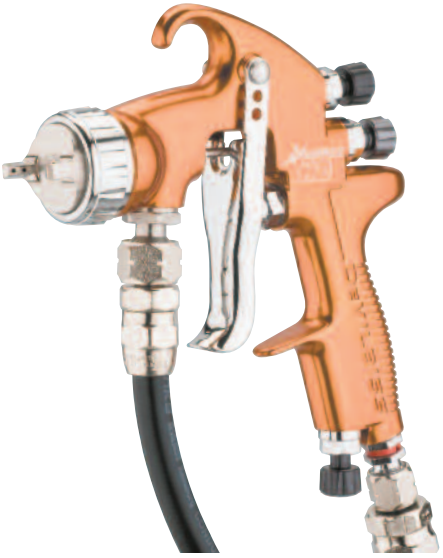
- Increased "Finger" Space – Easier operator access.
- Lighter Trigger Pull Tension – Decreased RSi and Operator Fatigue.
- Self adjusting Needle Packing Assy – PTFE.
- Comfortable operator friendly Trigger design – with reduced trigger travel.



- Curved Handle design – provides superior operator fit and feel with reduced RSi and operator fatigue.
- Air Inlet Adjuster "Cheater" valve included as standard.
- 1/4" Universal Thread air inlet.

Advance HD by DeVilbiss significantly raises the benchmark in spray gun performance and productivity.

The Advance HD spray gun's are specially designed to satisfy the highest quality volume finishing demanded in many Industrial Applications, spraying all types of surfaces including wood, metal, plastics, ceramics and composites. The Compliant Pressure feed spray gun provides unrivalled transfer efficiency, resulting in considerable material savings for the medium to high volume user. And, of course, Advance meets all existing and foreseeable environmental regulations.



Advance HD compliant pressure feed spray gun with DeVilbiss quality hoses and connectors

The Advance HD Gravity high performance gun will cover as fast as a conventional gun but with very high material savings. Advance HD compliant gravity feed gun is the profitable way to achieve superb standards of finish quality. Gravity feed guns are becoming increasingly popular because colour changes are quick and don't waste expensive paint. Thanks to its lightness, ease of handling and performance superiority DeVilbiss Advance Gravity sets the standard as the preferred gun for the industrial finishing marketplace.



Advance HD compliant gravity feed spray gun with GFC 501 gravity cup (568cc.)

Advance HD Suction feed is a high performance, environmentally compliant, light and easy to control spray gun, designed to meet the ever higher requirements of industrial finishing.

DeVilbiss Advance HD has a very wide selection of fluid and air nozzles to provide outstanding atomisation over a wide range of materials including high solids, solvent/water-borne paints, lacquers, stains, glaze, base and clear coats, twin pack and many other finishing materials.



Advance HD compliant suction feed spray gun with KR-566-1-B 1 litre aluminium suction cup

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Advance *HD's* unrivalled spray performance is achieved with the utilization of the very latest "cutting edge" atomisation technology. Advance has a very wide range of 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 compliant spray gun preference and nozzle combination's from the charts below to provide you with the Optimum performance for your individual spray process.



Suction cup pt. no. KR-566-1-B



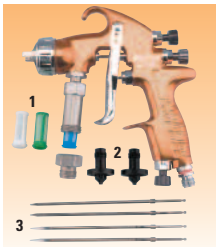
Gravity cup pt. no. GFC-501



Gravity cup (Blue polyester) pt. no. GFC-511 for difficult fluids.

Example of Advance *HD* spray gun part numbering:- ADV-P522-14 means...
ADV = Advance gun / P = Pressure / 522 = Trans-Tech Air Cap / 14 = 1.4mm Fluid tip and needle.

Advance *HD* spray guns are packaged as:- pressure gun only, suction gun kit include 1 litre cup and Advance gravity feed kits inc. 568 ml standard gravity cup.



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

Air Cap Number and Type	Air Consumption Bar (psi) recommended	Air Inlet Pressure Flow ml	*Typical Fluid SIZE mm	*Typical Fan Pattern
No. 500R (HVLP)	195 l/min (7 scfm)	1.0 bar (14 psi)	130-190	Round spray
No. 505 (HVLP)	385 l/min (13.6 scfm)	1.3 bar (19 psi)	130-190	270
No. 590HV (HVLP)	200 l/min (7.1 scfm)	1.0 bar (14 psi)	0-150	120
No. 510 Trans-Tech	283 l/min (10 scfm)	2 bar (29 psi)	160-220	270
No. 513 Trans-Tech	394 l/min (14.1 scfm)	2 bar (29 psi)	200-800	350
No. 515 Trans-Tech	364 l/min (12.9 scfm)	2 bar (29 psi)	200-400	320
No. 520 Trans-Tech	284 l/min (10 scfm)	2 bar (29 psi)	150-250	280
No. 522 Trans-Tech	410 l/min (14.5 scfm)	2 bar (29 psi)	200-600	350
No. 523 Trans-Tech	410 l/min (14.5 scfm)	2 bar (29 psi)	200-400	300
No. 590 Trans-Tech	218 l/min (7.8 scfm)	2 bar (29 psi)	0-150	150
No. 591 Trans-Tech	218 l/min (7.8 scfm)	2 bar (29 psi)	0-150	150

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 pressures used.

Air Cap No.	Technology	0.5 mm	0.7 mm	0.85 mm	1.0 mm	1.2 mm	1.3 mm	1.4* mm	1.6 mm	1.8* mm	2.0 mm	2.2* mm	2.8* mm
500R	HVLP			P	P	P	P G	P	P G S	P G S	P G S	P G S	
505	HVLP			P	P	P	P G	P	P G S	P G S	P G S	P G S	
590HV	HVLP	P	P		P								
510+	Trans-Tech			P	P	P	P G	P	P G S	P G S	P G S	P G S	
513	Trans-Tech			P	P	P	P G	P	P G S	P G S	P G S	P G S	
515	Trans-Tech			P	P	P	P	P	P	P	P	P	P
520	Trans-Tech			P	P	P	P	P	P	P	P	P	
522	Trans-Tech			P	P	P	P	P	P	P	P	P	P
523	Trans-Tech			P	P	P	P	P	P	P	P	P	P
590	Trans-Tech	P	P		P								
591	Trans-Tech	P	P		P								

P = Pressure G = Gravity S = Suction * Hardened & tungsten carbide tips and needles are available in these sizes.

Spray gun inlet thread sizes and type:- Air Connection 1/4" (m) Universal Thread size, accepts BSP and/or NPS connectors.
Fluid Connection 3/8" (m) Universal Thread size, accepts BSP and/or NPS connectors.

For further technical information refer to the DeVilbiss Advance *HD* Service Bulletins.

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www.finishingbrands.eu
email: marketing@finishingbrands.eu

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