

**COBRA - The NEXT GENERATION of automatic spray guns for General Industrial Applications.**

**DeVilbiss COBRA1** is a completely new design of automatic spray gun, purpose made to provide a long working life in tough working conditions. The gun uses the very latest advances in atomising technology to provide users with a cost effective air atomising spray gun with many unique, patented features and benefits.

**DeVilbiss COBRA 2** is a highly sophisticated automatic gun that can be detached from its mounting block in a few seconds via the easy thumb release mechanism, for fast and easy maintenance and serviceability. This special feature from DeVilbiss dramatically reduces production downtime.

**Typical Applications**

- Rotary Machines
- Reciprocators
- Robotic Applications
- Other Automatic Machines

*Whatever the Substrate you're spraying – Wood, Metal, Plastic, Leather, Glass or any other material COBRA by DEVILBISS® is the Automatic Spray Gun to choose.*



# COBRA

by DEVILBISS®

## Automatic Spray Guns

### COBRA 1

- Wide range of Trans Tech (Compliant/HVLP) and Conventional Air Caps provide the best performance on ALL applications
- Removable ST ST Spray Head for fast and easy maintenance
  - Control of Spray Performance and fluid flow is unequalled with the Fluid Adjusting Knob (18 indexing positions).
- Stainless Steel – For Water Borne & Solvent Based materials
  - Independent Fan, Atomising and Triggering Air – Vital for Robotic and Machine applications
- Indexing Air Cap for consistent reproduction of spray pattern

### COBRA 2 – All of the above plus;-

- Fast and easy removal of the gun from the mounting block provides quick and easy replacement or maintenance with Reduced Production Downtime

## The Best Atomisation and Paint Savings

**COBRA 1 & 2 spray guns** - are available with Trans-Tech® (Compliant & HVLP) Atomisation for **optimum output and Paint Savings...** Fitted with the very latest advances in EPA compliant Transfer-Technology - COBRA provides considerable paint savings whilst producing the highest levels of atomisation, high speed application with flow rates of up to 600cc/min or more. Such exceptionally efficient atomisation and material transfer ensures optimum coverage and paint usage while complying with the toughest EPA legislation.

**COBRA "Advanced Conventional"** – air caps outperform the rest with uniquely designed high capacity airflow and outstanding atomisation characteristics coupled with excellent product features. COBRA's Advanced Conventional Air Caps makes them the ideal guns for small operations or high volume industrial spraying. Advanced Conventional Atomisation will operate and atomise the most difficult spray materials, but will not produce the paint savings as seen with Trans-Tech Atomisation Technology.



The COBRA 2 gun head only is available separately from the base, order Part No. CBA2-GUN-XXX-XX

Fluid Tip/needle sizes and code [mm]  
0.5, 0.6, 0.7 0.85, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2 and 2.8

### VORTEX TIPS

for Cobra and Advance *HD* guns.

Also available for staining applications, sizes (mm) 0.85, 1.0, 1.2, 1.4, 1.8.



**IMPORTANT:** The table lists the entire COBRA tip and cap combinations, all "same technology" air caps and fluid tips are interchangeable. Hardened tips/needles are also available. **For further technical features and benefits please see the COBRA 1 or 2 Service Bulletin.**

**PART NUMBER - Examples:-** CBA1-522-12 means... CBA1 = COBRA 1 AUTO GUN / 522 = Trans-Tech Air Cap / 12 = 1.2mm Fluid tip and needle.  
CBA2-513-14 means... CBA2 = COBRA 2 AUTO GUN / 513 = Trans-Tech Air Cap / 14 = 1.4mm Fluid tip and needle.

COBRA Air Cap Number and Type	Air Consumption	Air Inlet Pressure Bar (psi) recommended	*Typical Fluid Flow ml	*Typical Fan Pattern size mm
No. 430 Conventional	339 l/min (12 scfm)	3.5 bar (50 psi)	200-280	200
No. 443 Conventional	345 l/min (12.3 scfm)	3 bar (45 psi)	200-300	300
No. 470 Conventional	465 l/min (16.3 scfm)	3 bar (45 psi)	500-1800	420
No.497 Conventional	510 l/min (18 scfm)	3.5 bar (50 psi)	200-600	380
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)	1.4 bar (20 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 (14.5scfm)	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 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 and pressures used.

DeVilbiss COBRA Specification		Min to Max cylinder actuating air	4 to 7 Bar
Air Inlet Fan and Atomising air connection	1/4 BSP female	Max operating ambient temperature	40°C
Cylinder operating air connection	1/8 BSP female	Gun weight	COBRA 1 - 720g – COBRA 2 - 950g with mounting block
Fluid connection	1/4 BSP female	Length	COBRA 1 - 135mm – COBRA 2 - 118mm
Fluid recirculation	1/4 BSP female	Width	45mm
Max Air pressure Fan & Atom	"F" & "A" = 7 Bar	Height (with manual adjusting knobs)	COBRA 1 - 63mm – COBRA 2 - 95mm

NOTE: **COBRA1 & 2 guns** are available with either Trans-Tech (Compliant/HVLP) OR Conventional atomising technologies. For further details please refer to Cobra 1 or Cobra 2 Service Bulletins.

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