

# DEVILBISS COBRA 1 & 2

## Automatic Spray Guns

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

**DEVILBISS®**



**DeVilbiss COBRA 1** 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

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### COBRA 1

Wide range of Trans Tech (Compliant/HVLP) and Conventional Air Caps provide the best performance on ALL applications

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Removable ST ST Spray Head for fast and easy maintenance

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Control of Spray Performance and fluid flow is unequalled with the Fluid Adjusting Knob (18 indexing positions).

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Stainless Steel – For Water Borne & Solvent Based materials

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Independent Fan, Atomising and Triggering Air – Vital for Robotic and Machine applications

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Indexing Air Cap for consistent reproduction of spray pattern

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**COBRA 2** – All of the above plus:-

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

*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.

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**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.

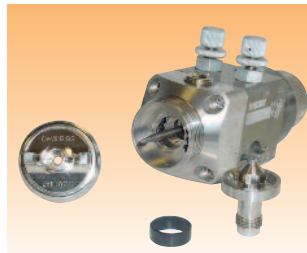
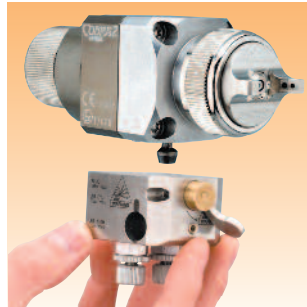
**COBRA "Advanced Conventional"** – air caps outperform the rest with uniquely designed high capacity airflow and outstanding atomisation characteristics coupled with excellent product features. COBRA's Advanced Conventional Air Caps makes them the ideal guns for small operations or high volume industrial 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.

**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.



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**

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.

| 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. 462 Conventional          | 380 l/min (13.5 scfm) | 3 bar (45 psi)                           | 500-3000               | 450                          |
| No. 470 Conventional          | 465 l/min (16.3 scfm) | 3 bar (45 psi)                           | 500-1800               | 420                          |
| No. 477 Conventional          | 480 l/min (17 scfm)   | 3 bar (45 psi)                           | 200-800                | 430                          |
| 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              |                   |                                      |   |
|--|-------------------|--------------------------------------|---|
| 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                     |
| Min to Max cylinder actuating air          | 4 to 7 Bar        |                                      |   |

NOTE: **COBRA 1 & 2 guns** are available with either Trans-Tech (Compliant/HVLP) OR Conventional atomising technologies.

For further technical features and benefits see the **COBRA 1** or **COBRA 2 Service Bulletins**.

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