

SB-E-2-551 ISS.01

## **Operation Manual**

HVLP & Trans-Tech<sup>®</sup> Gravity Feed Spraygun









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## **Operation Manual**

Nouveau – Gravity Feed Spraygun

Important

Read and follow all instructions and Safety Precautions before using this equipment

#### Description

The Nouveau Gravity feed Spraygun Kit complies to ATEX regulations 94/9/EC, protection level; II 2 G X, Suitable for use in Zones 1 and 2

**Important:** : These Sprayguns are suitable for use with both waterbased and solvent based coating materials. The design uses EPA compliant (Devilbiss Trans-Tech®) and HVLP atomising technology to reduce overspray and improve coating efficiency. These guns are not designed for use with highly corrosive and/or abrasive materials and if used with such materials it must be expected that the need for cleaning and/or replacement of parts will be increased. If there is any doubt regarding the suitability of a specific material contact your local Distributor or ITW Finishing direct.

Model Part Number   Example: COM-G510NV505-16				
Aircap Spare Aircap		Fluid nozzle size (16 = 1,6 mm)		

#### **EC Declaration of Conformity**

We: **ITW Finishing UK, Ringwood Rd, Bournemouth, Dorset, BH11 9LH, UK**, as the manufacturer of the **Spraygun model Nouveau**, declare, under our sole responsibility, that the equipment to which this document relates is in conformity with the following standards or other normative documents:

BS EN 292-1 PARTS 1 & 2: 1991, BS EN 1953: 1999; and thereby conform to the protection requirements of Council Directive 98/37/EC relating to *Machinery Safety Directive*, and:

EN 13463-1:2001, council Directive 94/9/EC relating to *Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres protection level II 2 G X.* This product complies with the requirements of the EPA guidelines, PG6/34,PG6/20 and PG6/23. Achieving transfer efficiency in excess of 65%.

B. Holt, General Manager 30th June 2003

ITW Finishing Systems and Products reserve the right to modify equipment specification without prior notice.

# 🚯 SAFETY WARNINGS



#### Fire and explosion

Solvents and coating materials can be highly flammable or combustible when spraved. ALWAYS refer to the coating material suppliers instructions and COSHH sheets before using this equipment



Users must comply with all local and national codes of practice insurance company and requirements aovernina

ventilation, fire precautions, operation and house-keeping of working areas



This equipment, as supplied. is NOT suitable for use with Halogenated Hydrocarbons.

Static Electricity can be generated by fluid and/or air passing through hoses, by the spraying process and by cleaning nonconductive parts with cloths. To prevent ignition sources from static discharges. earth continuity must be maintained to the spraygun and other metallic equipment used. It is essential to use

conductive air and/or fluid hoses.



#### **Personal Protective** Equipment



Toxic vapours – When sprayed, certain materials may be poisonous, create irritation or be otherwise harmful to health.

Alwavs read all labels and safety data sheets for the material before spraving and follow any recommendations. If In Doubt. Contact Your Material Supplier



The use of respiratory protective equipment is recommended at all times. The type of equipment must be compatible with the material being sprayed.

Always wear eve protection when spraving or cleaning the spravoun

Gloves must be worn when cleaning the spraving or equipment



Training - Personnel should be given adequate training in the safe use of spraving equipment.

#### Misuse

Never aim a spravoun at any part of the bodv

Never exceed the max, recommended safe working pressure for the equipment

The fitting of non-recommended or nonoriginal spares may create hazards

Before cleaning or maintenance, all pressure must be isolated and relieved from the equipment

The product should be cleaned using a gun washing machine. However, this equipment should not be left inside aun washing machines for prolonged periods of time.

#### Noise Levels

The A-weighted sound level of sprayguns may exceed 85 dB (A) depending on the set-up being used. Details of actual



noise levels are available on request. It is recommended that ear protection is worn at all times when spraving.

#### Operating

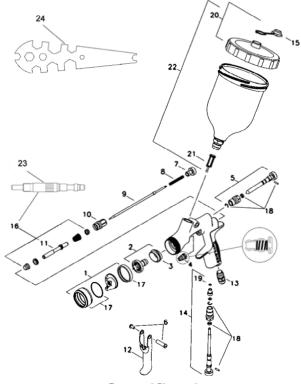
Spray Equipment using high pressures may be subject to recoil forces. Under certain circumstances, such forces could result in repetitive strain injury to the operator.



#### Parts List

	Ref. No	Description	Part Number	Qty	Options
	1	Air Cap/Retaining ring COM-510	SP-100-***-K	1	510, 505 e.g *** = 505
+	2	Nozzle	SP-200S-**-K	1	12,13,16,18,20 e.g ** =16 =1.6 mm
*+	3	Separator	SP-626-K5	5	
*+	4	Packing	GTI-445-K2	2	
	5	Spreader Valve	SP-403-K	1	
	6	Stud and Screw	GTI-408-K5	5	
	7	Needle Adjusting Screw	SP-614-K	1	
*+	8	Spring	SP-642-K5	1	
+	9	Needle	SP-300S-**-K	1	12,13,16,18,20 e.g ** =16 =1.6 mm
	10	Airvalve housing + seal	SP-612-K	1	
*+	11	Spindle		1	
	12	Trigger	SP-641-K	1	
	13	Connector	SP-611-K	1	
	14	Airflow Valve	SP-402-K	1	
	15	Drip Check Lid kit of 5	GFC-2-K5	1	
+	16	Air Valve Service Kit	SPK-101-K	1	
	17	Retaining Ring and Seals	SPK-102-K	1	
*	18	Spreader/ Cheater Service Kit	GTI-428-K5	5	
	19	Circlip	25746-007-K5	5	
	20	Cup Lid	GFC-402	1	
	21	Filter	KGP-5	1	
	22	1/2 Ltr Gravity Cup Kit	GFC-501	1	
*	23	Air Valve assembly Tool		1	
	24	Spanner	SPN-5	1	
		Spraygun Service Kit (parts included marked + )	SPK-401-**	1	12, 13,16,18,20 e.g ** =16 =1.6 mm





### Specification

Air supply connection -	Universal <sup>1</sup> / <sub>4</sub> " BSP and NPS	
Maximum static Air inlet pressure -	P <sub>1</sub> = 12 bar (175 psi)	
Nominal gun Air inlet pressure - with gun triggered	2. bar (29 psi) 510 Trans-Tech Air Cap 1.4 bar (20 psi) 505 HVLP Air Cap	
Maximum Service temperature	40°C	
Gun Weight -	583 g	
Materials of Construction		
Gun body	Anodised Aluminium	
Nozzle	Stainless Steel	
Needle	Stainless Steel	
Fluid Inlet	Stainless Steel / PTFE	
Trigger	Nickel Plated Steel	
Cup	Acetal (Anti-static)	
Cup Lid	Acetal (Anti-static)	



Important: To ensure that this equipment reaches you in first class condition, protective coatings have been used. Flush the equipment through with a suitable solvent before use.

 Attach air hose to connector (13). Recommended hose size 8 mm bore. The hose must be conductive and electrical bond from the spraygun to earth should be checked with an ohmeter. A resistance of less than 10<sup>6</sup> Ohms is recommended.

- . Air supply should be filtered and regulated.
- 3. Attach Cup assembly (22) by screwing into the Fluid Inlet of the spraygun. Tighen when fully home.

#### Operation

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		Mix coating material to manufacturers instructions. Fill the cup with the required amount	Screw the Adjusting Knob (14) in to reduce pressure.
		of material. Fill to no more than 25mm (1") from the top of the cup. DO NOT OVERFILL.	turning needle screw (7) clockwise. If atomisation is too coarse, increase
I		Attach Cup Lid.	inlet air pressure. If too fine reduce
	4.	Turn needle adjusting screw (7)	
	_	clockwise to prevent movement.	10. The pattern size can be reduced by
	5.	Turn spreader valve (5) counter- clockwise to fully open.	turning adjusting valve (5) clockwise. 11. Hold gun perpendicular to surface
	6.	Adjust inlet air pressure (For recommended figures see	being sprayed. Arcing or tilting may
		Specifications) at the gun inlet with the gun triggered. (pressure gauge	
		attachment shown under Accessories is recommended for this).	
	7.	Turn needle adjusting screw counter	•
		clockwise until first thread shows.	14. Always turn off air supply and relieve
	8.	Test spray. If the finish is too dry	
		reduce airflow by reducing air inlet	

#### **Preventative Maintenance**

1.	Turn off air and relieve pressure in the supply lines, or if using QD system, disconnect from airline. Remove Cup Lid (20)and empty coating material into a suitable container. Clean the gun and cup, preferably in a gun wash machine. Clean the cup.	4.	and the Drip Check Lid is not blocked. Remove air cap (1) and clean. If any of the holes in the cap are blocked with coating material use a toothpick to clean. Never use metal wire which could damage the cap and produce distorted spray patterns
3.	Check the breather hole in the Lid	5.	Ensure the tip of the nozzle (2) is

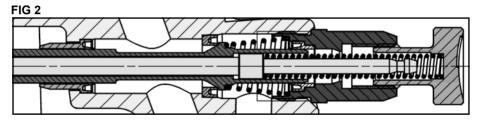
clean and free from damage. Build 6. up of dried paint can distort the spray pattern. Lubrication – stud/screw (6), needle (9) and air valve (11) should be oiled each day.

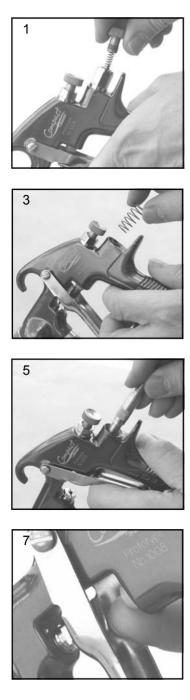
#### **Replacement of Parts**

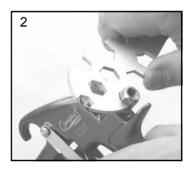
Nozzle (2) and Needle (9) - Remove 10. Fit new Seal to gunbody and press parts in the following order: 7, 8, 9, 1 firmly to ensure Seal is engaged. and 2. Replace any worn or damaged 11. Fit New Valve Seat to Service Tool. parts and re-assemble in reverse order. Groove must face outwards. Recommended tightening torque for 12. Fit Valve Seat to Gunbody. nozzle (2) 9.5-12 Nm (80-100 lbf in). 13. Remove Rear Airvalve Seal from housing (10) with a hooked Packing – Remove parts 7.8.9. instrument Unscrew cartridge (4). Fit new cartridge 14. Fit new Seal to Service Tool. finger tight. Re-assemble parts 9, 8, 15. Fit Seal to Housing (10). and 7 and tighten cartridge (4) with 16. Replace Valve (11). spanner sufficient to seal but to allow 17. Replace Valve Spring and screw in free movement of needle. Lubricate Housing (10). with aun oil. 18. Tighten Housing. 19. Fit Needle (9). Air Valve Seal Kit (16) - (Refer to photos 1 to 28 and fig 2) 20. Fit Spring (8) and Knob (7). 21. Adjust Needle Packing (4) with 1. Remove Adjusting Knob (7), Spring Spanner sufficient to seal but to (8), and Needle (9). allow free movement of needle. Lubricate with aun oil. 2. Loosen Housing (10). 3. Remove Housing (10) and Airvalve Spreader valve (5) - Caution: always Spring. ensure that the valve is in the fully open 4. Remove Valve (11). position by turning screw fully counter-5. Using Service Tool SPN-7. engage clockwise before fitting to body. groove behind the Valve Seat. 6 Remove Valve Seat Air cap / Nozzle Selection 7. Push out the Front Airvalve Seal Refer to coating material manufacturers with a finger. recommendations or ITW Finishing UK 8. Turn the Gun upside down and let Website: the Seal fall out

9. Fit New Front Seal to Service Tool.

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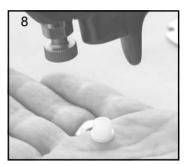


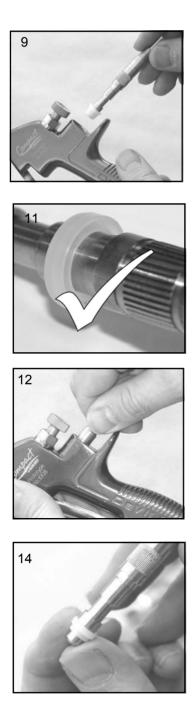


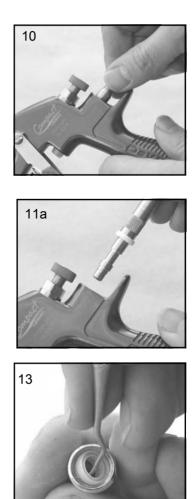




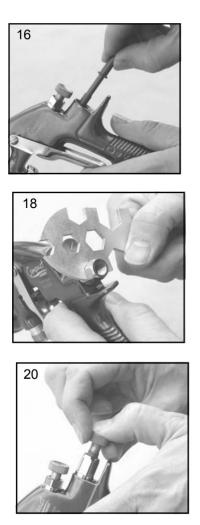




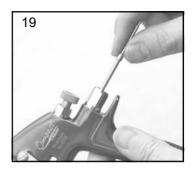














#### Accessories

Spanner - order SPN-5

Cleaning Brush - order 4900-5-1-K3

Regulator/Gauge Attachment - order HAV-501-B

Pressure gauge Attachment - order GA-515

Gun Mounted Regulator - order DVR-501

Spraygun Lubricant - order GL-1-K10



#### Roundspray Aircap - COM-500R HVLP Mode - Air Inlet Pressure = 1.0 Bar (14.5 PSI) Tanstech Mode – Air Inlet Pressure = 2 bar (29 PSI) Approx Spot Size = Ø50mm

nks < F PRESSURE FEED **DVP 1:1 RATIO** TANKS & CUPS DIAPHRAGM PUMP Sizes to suit all PACKAGES applications • 10, 40 & 60 litre capacity tanks complete with nylon inner container for Rapid delivery of up easy colour changes to 17 litres per minute (max) and cleaning Even material flow at up to Stainless steel and mild 60 cycles/minute steel options Economic air consumption BINKS · Compatible with your at pressures up to 7 bar (100 psi) standard oun and hose Corrosion resistant models for connections ceramic/abrasive materials Remote pressure cups - Functions as a material aluminium and stainless transfer or delivery pump steel options • Choice of pail, wall, tripod 2 litre capacity or cart mounted outfits ATEX/CE approved. ATEX/CE approved.

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