RS Resin Spray Guns
Next Generation Guns for Gel Coat and Chop Applications
A revolution for the FRP industry

Discover the next generation of gel coat and chop guns

Innovations engineered into the Graco RS Resin Spray Gun are sure to make a difference in your production uptime. It’s lightweight. Ergonomic. Designed for tool-less operation and quick blade changes. Fast, easy maintenance too.

Discover how the Graco RS Resin Spray Gun’s revolutionary design and industry-first features can help boost your company’s bottom line.

**Lightweight, high-output cutter**
- Allows you to get the glass output you need with fewer strands of roving
- Fewer strands of roving means less chance of tangling, easier handling and more uptime
- Up to 40% lighter than competition for better chopping control

**External anvil adjustment**
- Lets you adjust anvil tension to correct cut variations due to anvil and blade wear
- Simply unlock thumb lever, adjust tension screw and resume spraying
- No disassembly, no tools required — results in more uptime

**Tool-less blade design for more uptime**
- No tools required — easy to change blades in seconds
- Ability to change blades on the production line resulting in more uptime
- Operators never have to touch a blade
- Virtually eliminates nicks and cuts

**Speed control**
- Lets you adjust glass output on the fly
- No tools required

Change blades in seconds and keep production moving

Graco’s innovative new fiberglass cutter is sure to change the way you work. It’s designed so workers can change the blades in less than a minute — significantly less time than traditional cutter designs. In addition, blades and anvils can be changed right on the production line, resulting in more uptime. Because the blades are pre-loaded in the cartridge, operators never have to handle sharp blades.
Built to spray longer and improve uptime

Both Graco RS Chop and RS Gel Coat Guns offer:

**Lightweight design**
- Up to 44% lighter than the competition for better spraying control

**Unique needle clamp design**
- Designed to retain the factory adjustment
- Eliminates need to adjust needle setting after routine service

**Quick-disconnect front end**
- Easy shutdown procedures — simply place front end in solvent overnight
- Increases production time, reduces clean-up time
- After cleaning front end, the gun can be set aside for the next shift

**Air Assist Containment (AAC®)**
- More material on the part, less on the floor — saves material costs
- Promotes a healthier work environment due to less overspray
- Standard on all RS guns

**Ergonomic handle**
- Less operator fatigue means consistent quality parts throughout the shift

**Easy maintenance**
- Whole gun may be placed in solvent
- O-rings and seals are solvent-resistant
- Virtually eliminates downtime for unscheduled maintenance

**High-pressure swivel**
- Allows for easy gun maneuverability
- Provides more control when spraying in tight areas

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**How to change a Graco cutter blade**

1. Remove locking mechanism
2. Remove used blade cartridge
3. Replace with new blade cartridge

Graco RS Chop Guns and Graco RS Gel Coat Guns are both available in internal and external mix models.
When you buy a drum of resin, you pay for every drop of material. It makes good economic sense to put as many of those drops as possible on the mold.

Air Assist Containment (AAC) technology wraps the spray pattern in a containment shield of air – preventing atomized droplets from escaping the spray pattern. Droplets that escape and end up on the floor, wall or employee’s clothing are a waste of money.

AAC creates a spray pattern where the droplets travel to the mold at very low pressure. The low speed or “particle velocity” creates very little turbulence or disturbance in the liquid when the droplet makes contact with the mold. Competitive spray guns with higher “particle velocity” create a great deal of turbulence when the droplets impact the mold. Turbulence creates air entrapment which results in porosity. AAC spraying dramatically reduces the chances of air entrapment and porosity.

**AAC improves your profit picture**

- All Graco RS guns feature the patented AAC technology
- Reduces material waste – which results in more molds per drum of material
- Precise catalyst delivery and reduced particle velocity assure the highest quality finish
- Less overspray means a healthier work area for employees

*External mix technology shown in example*
Technical Specifications

ROI Calculator

Lightning-fast blade changes – more uptime

Calculate your return on your investment

If it takes longer than a few minutes to switch out the blades on your current chop gun, then you need a Graco RS Chop Gun. You’ll discover that the Graco RS Chop Gun pays for itself with saved labor costs and improved production uptime. Here’s how:

Easy, convenient blade change-out for improved production uptime

The blade cartridge in the Graco RS Chop Gun adds a whole new level of convenience and speed to the production line. Blades can be switched out in under a minute, right on the production line. No more stopping production to switch out guns. No more taking the gun to the workbench. Instead, blades can be quickly switched out on the production line. The Graco RS Gun significantly reduces downtime due to blade maintenance.

No tools required

The cover to Graco’s cutter assembly is easy to remove and doesn’t require any tools. Neither do the blades.

Fewer cuts

Old style cutters featured razor blades that needed to be replaced individually. With Graco’s new blade cartridge, you simply remove the entire used blade cartridge and insert a new one. It’s much quicker, with less chance of getting cut.

Reduced labor costs

Some shops have a specialized gun maintenance person whose sole job is to switch blades in chop guns. Because of the Graco RS Gun’s simple, innovative design, this is no longer necessary.

Stop and think: what’s the real cost and time spent at your plant to change out the blades on your current chop gun? Add it up: stopping the production line, getting the tools to remove the cover and wheel, taking the cutter to the bench, removing blades… it all adds up.

Labor savings alone on the Graco RS Gun will provide a strong return on investment. Use the ROI tool below to determine the savings in your shop.

<table>
<thead>
<tr>
<th>LABOR SAVINGS</th>
<th>EXAMPLE ESTIMATE</th>
<th>ACTUAL ESTIMATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>(including cost of blades)</td>
<td>Typical Competitive Gun</td>
<td>Graco RS Chop Gun</td>
</tr>
<tr>
<td>Labor rate per hour</td>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>Time to switch blades (hrs)</td>
<td>0.25</td>
<td>0.0083</td>
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<tr>
<td>List price of blades (4-blade)</td>
<td>$1.40</td>
<td>$6.21</td>
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<tr>
<td>Daily labor &amp; blade cost</td>
<td>8.90</td>
<td>6.46</td>
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<tr>
<td>Number of shifts each day</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Number of times blades are changed per shift</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Number of times blades are changed each week (assumes 5-day work week)</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Weekly cost</td>
<td>$44.50</td>
<td>$32.30</td>
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<tr>
<td>Annual cost @ 50 weeks/year</td>
<td>$2,225.00</td>
<td>$1,615.00</td>
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<tr>
<td>LABOR &amp; PARTS SAVINGS</td>
<td><strong>$610.00</strong></td>
<td></td>
</tr>
</tbody>
</table>

This ROI Calculator provides an estimate of savings only. Part prices and time to switch blades are estimates only. Dollar savings generated by this ROI tool are not guaranteed. Actual results may vary depending on equipment, material and factory conditions.
Technical Specifications

Minimum Air Flow (at 100 psi)
- Internal Mix Gel ................................................................. 12.5 scfm (0.354 meters³ per minute)
- Internal Mix Chop ............................................................... 2.25 scfm (0.064 meters³ per minute)
- External Mix ................................................................. 2.0 scfm (0.06 meters³ per minute)
- Cutter: ............................................................................ 16.5 scfm (0.467 meters³ per minute)

Maximum Air Pressure .......................................................... 125 psi (8.7 bar, 0.87 MPa)

Weight
- Internal Mix Gel: .......................................................... 2.32 lb (1.05 kg)
- Internal Mix Chop .......................................................... 2.46 lb (1.12 kg)
- External Mix Gel .......................................................... 2.08 lb (0.94 kg)
- External Mix Chop ......................................................... 2.33 lb (1.04 kg)
- Cutter: ............................................................................ 2.00 lb (0.91 kg)

Manual (Guns and Cutter) .................................................. 3A0232

How to read a composite spray tip number

**EXAMPLE**

CST 5 2 1

- **CST** = Composite Spray Tip
- **4TH DIGIT** = pattern width code. Double the number to get pattern width at 12 inches.
  - In this case, 5 equals a 10-inch spray pattern width at a 12-inch spraying distance.*
- **LAST TWO DIGITS** = Orifice size
  - In this case, 21 is equivalent to a .021 diameter orifice

Airless Composite Spray Tips

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>CST215</td>
<td>CST223</td>
</tr>
<tr>
<td>CST217</td>
<td>CST231</td>
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<td>CST219</td>
<td>CST235</td>
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<tr>
<td>CST415</td>
<td>CST423</td>
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<td>CST417</td>
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<td>CST421</td>
<td>CST435</td>
</tr>
<tr>
<td>CST521</td>
<td>CST471</td>
</tr>
</tbody>
</table>

How to read an impingement tip part number

**EXAMPLE**

CST S 7 5

- **CST** = Composite Spray Tip
- **4TH DIGIT** = S for stainless steel or T for tool steel
- **5TH DIGIT** = Spray pattern width code. Double the number to get pattern width at 18 inches.
  - In this case, 7 equals a 14-inch pattern width at an 18-inch spraying distance.*
- **6TH DIGIT** = Orifice size code.
  - Number roughly matches the diameter of the angled hole size.
  - In this case, 5 is equivalent to a .052-inch diameter angled hole.

Impingement Composite Spray Tips

<table>
<thead>
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<th>Part Number</th>
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<tbody>
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<td>CSTS42</td>
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<tr>
<td>CSTS44</td>
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<td>CSTS54</td>
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<td>CSTS75</td>
<td>CSTS76</td>
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<tr>
<td>CSTS34</td>
<td>CSTS84</td>
</tr>
<tr>
<td>CSTS35</td>
<td>CSTS57</td>
</tr>
<tr>
<td>CSTS66</td>
<td>CSTT57</td>
</tr>
</tbody>
</table>
### Guns
- **258853** Gel coat gun, internal mix with CST521 tip
- **258840** Gel coat gun, external mix with CST521 tip
- **258854** Chop gun, internal mix with CST443 tip, without cutter
- **258852** Chop gun, external mix with CST443 tip, without cutter
- **258970** External mix chop gun with CST443 tip, with cutter
- **258971** Internal mix chop gun with CST443 tip, with cutter
- **258900** Cutter assembly
- **24E448** 4-blade cartridge kit
- **24F602** 6-blade cartridge kit
- **24E449** 8-blade cartridge kit

### Gun Repair Kits
- **24E415** Solvent AAC assembly fitting kit
- **24E416** Needle clamp assembly kit
- **24E417** Complete needle assembly
- **24E418** Needle repair kit
- **24E419** Needle AAC kit
- **24E420** Catalyst Seat Kit
- **24E421** Resin Seat Kit
- **24E422** Cutter adapter kit
- **24E423** Catalyst check valve
- **24E424** Check valve housing kit
- **24E425** Trigger air valve kit
- **24E428** Seat seal, 6-pack
- **24E435** Tip seal kit, 6-pack
- **24E436** Needle assembly kit, 6-pack
- **24E443** Front head internal check valve
- **24E444** Internal spring check valve kit
- **24E445** Internal mixer kit
- **24E446** Front head external check valve kit
- **24E447** Front head external check valve repair kit

### Head Assemblies
- **24E426** Horizontal external mix front head kit
- **24E427** Vertical external mix front head kit
- **24E442** Horizontal/vertical internal mix front head kit
Since 1998, EnDiSys has provided customer-driven solutions to fluid delivery challenges in an ever-changing market. As products become increasingly high tech, and adhesives replace fasteners, EnDiSys consistently invests in research and development to maintain their position as an industry leader for spray and pumping equipment, and other fluid delivery systems. Whether their products are used for coating chewing gum tablets in Bangkok, Thailand, evacuating 250-gallon bins of caramel at a Pennsylvania food processing plant, or striping roads on Minnesota highways, EnDiSys is meeting the demand for quality fluid delivery systems.

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Call today for product information or to request a demonstration.  

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