

Case Study

THE CHALLENGE

SPRAYING STRONG CHEMICAL BRAKE CLEANING FLUID

THE PROBLEM

ECM Motorcycles, a Sussex-based specialist motorbike maintenance and bike tour company, was looking for a hand-held sprayer suitable for spraying brake cleaner chemicals.

ECM reported that the handheld sprayers they had tried were great for a few weeks but then began to fail due to the harshness of the chemicals used. The company was getting through a lot of sprayers and had resigned itself to having to replace them regularly.

THE SITUATION

ECM would fill its sprayers with brake cleaner chemicals and this would stay in the sprayer for several weeks before being refilled. The sprayer might not be used every day so the liquid might be completely still for short periods.

ECM reported two consistent problems:

- Damage to the tank/body of the sprayer because of the still or stagnant chemical
- Damage to the pump system, seals etc



ECM Motorcycles
www.ecm-motorcycles.co.uk



BACKGROUND

Cleaning motorbike brakes is a key part of regular bike maintenance to ensure they are working optimally.

Degreasing chemicals are used to rid the brakes of grease, oil, dust and other debris which, if there is a build up, can cause the brakes to fail or work less quickly and effectively.

The chemical product used by ECM Motorcycles is professional brake cleaning fluid.

Professional brake cleaning fluid is typically an aliphatic hydrocarbon (e.g. heptane and acetone) based solvent degreaser. It is a colourless liquid which is highly flammable.

THE SOLUTION

PSP recommended the Duck from Guarany's range of handheld sprayers.

The Duck is a 1.25 litre handheld compression sprayer capable of delivering 3 Bar pressure (45 PSI). It is made from high-density polyethylene, meaning it can withstand even the harshest products.

As well as brake fluid, this handy sprayer is suitable for the delivery of cleaning chemicals, household disinfectants, herbicides, fungicides, fertilisers, wood preservatives and kerosene.

The adjustable nozzle means the spray can be set from a jet to a fine mist. The compression design allows for a continuous, unbroken spray which lasts for up to two minutes, ensuring that no areas are missed when being used for disinfecting etc.



RESULTS

Six weeks after starting to use the Duck compression sprayer, ECM reported that it was still going strong.

Even when the chemical product was left 'stagnant' for some days, the Duck performed well. There was no change in the way the sprayer operated or in the pressure of the jets. Neither was there any discoloration of the plastic. In addition, there was no unpleasant odour because the seals on the Duck were so airtight.

There was also a reduction in the fluid used /wasted because the trigger on the Duck is so responsive that it stops and starts instantly meaning there are no drips or leaks.

PRODUCT BENEFITS

- Made from robust heavy duty polyethylene
- Can be calibrated to deliver between 2ml and 25ml of fluid per stroke
- Reduces chemical product wastage as sprayer is responsive
- Improved safety for the operator as there are no drips or leaks.
- Capable of 3 Bar (45 PSI) pressure
- 1.25 litre capacity
- Large inlet for easy filling
- Safety valve to avoid over pressurisation



The Duck