

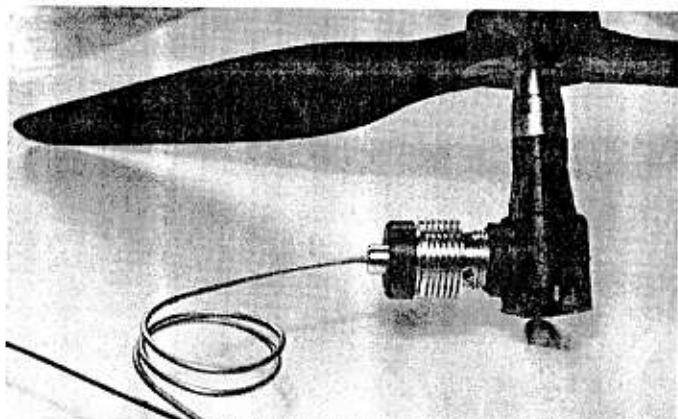
# ENGINES OLD & NEW

## Running

Beware! Large tanks do not mean a long running time. It is all too easy to finish up with only 2 grms of CO<sub>2</sub> in the tank if you do not use the correct technique. An amount which you could easily get into a tank less than half that size. Why? The large tank holds a lot of heat and quickly warms up and expands the incoming charge. When this reaches the pressure of the charging cylinder - end of charging transfer. The answer is to cool the tank with a cooling spray and always use one of the larger cylinders, not the common 8gm sparklets unless you only want a short run.

You can see from my performance graphs that this motor will give runs of up to 5 mins if charged to its maximum capacity. For free flight this could be a distinct embarrassment and I can already imagine that R/C and C/L enthusiasts have started to think of the possi-

Claus Hammer-  
schmidt tests  
the largest sin-  
gle cylinder CO<sub>2</sub>  
motor on the  
market



The new Gasparin GM300 is compact and powerful. The 13cc tank will give a motor run of up to 5mins.

One of the first people to get a GM300 was Peter Smart. It is fitted to his Kalinin V which flies well and is nearer 800mm span than the recommended 700mm span.

## THE GASPARIN GM300 CO<sub>2</sub> MOTOR



This motor first appeared at the Nuremberg Toy Fair a couple of years ago in prototype form, and then we heard no more. It seems that Gasparin had a full order book and insufficient manufacturing capacity. The need for a motor of this size is to complement the growing range of Flying Styro Kits with a scale of 1:15 where some of the larger models are underpowered by the standard Modela.

### The design

The motor employs the well known and efficient Gasparin designed piston and sealing ring combined with a Modela crankcase - which makes it easily interchangeable with the Modela. To help make it compact it has a short stroke and new head design giving an overall height of 40mm compared with 65mm of the Modela. Stroke and bore are 6 X 8mm respectively compared with 7 X 7mm of the Modela. The tank is really big at 13cc and weighs 14gms. The weight, less the prop, is 28gms. A large 230mm three bladed Styro Kit prop and a two bladed Modela prop are supplied.

