

PFT's G4 pays a visit to the Dresden Palace



*Construction in narrow rooms :
Facilitated by PFT's G4*

Considerable damage was done during World War II to Dresden's Renaissance palace when it was shelled on Feb 13 and 14, 1945. Even today it is still a huge construction site. Since 1946 there have been constant efforts to partially rebuild and restore both the ruined and the intact wings of the palace.

The main operations are being supervised by the Federal German State of Saxony today. The company in charge is HEILIT+WOERNER BAU GMBH of Dresden.

Major throughpress and injection jobs were necessary to rebuild the tower. The main problem was the extremely narrow tower itself that looked as if it could hardly accommodate a continuous mixing and an injection pump. The other problem was the regulation of the injection mortar and the injecting technique, in particular. HEILIT+WOERNER GMBH decided to use the time-tested mixing pump technology of PFT's G4 that they had already taken advantage of for renovation purposes at Dresden's Dreikönigskirche (Epiphany Church). The machine,



The special PFT injection gun being used to inject mortar.

however, was modified beforehand.

With a width of only 72 cm, and a filling height of only 92 cm, the narrow G4 was ideally suited to do its job perfectly as a high performance mixing pump. The modifications were carried out immediately on the job site by PFT's dealer in Dresden, Günther Aehlig, and the pumping capacity was altered to 6 - 10 liters of mortar per minute. The remote control injection gun was modified with a 42 V control unit and bypass.

The modular construction of

the G4 facilitates these modifications, and allows for cost-effective solutions. Polyethylene tubes are inserted after injection holes are drilled. These tubes have a 3/4" plug valve in their bung hole so that the mortar does not flow backwards.

A special PFT pressure switch-off can keep mortar injection pressure at precise and prescribed levels. The injection mortar VP3 being used is supplied by the firm Quick-Mix. The G4 keeps its word by using easy and small-scale technology: it keeps things moving!