If one machine is operated for 6.5 hours per day, or 23,400 seconds, the number of passports that can be produced will be -

$$\frac{23,400}{31.3} = 747 \text{ daily or } 3,735 \text{ weekly}$$

Since the number of passports produced will depend on the number of forms produced, a weekly production of 6,000 forms would mean an equivalent number of passports. Hence, the number of machines required to produce 6,000 passports in a week would be -

$$\frac{6,000}{3,735} = 1.6 \text{ -- say } 2.$$

Two machines would actually be capable of printing 7,470 passports in a normal working week which leaves the availability of some reserve capacity.

23. Machine requirements then are as follows:

For preparation of multi-part forms	-	4
For preparation of passport	-	2
		6

24. Since two manually operated machines will have the output necessary to supply input for one automatically operated machine the ratio of two passports to one form is established. This ratio is not necessarily inflexible and could be advantageously altered to meet existing workload conditions.