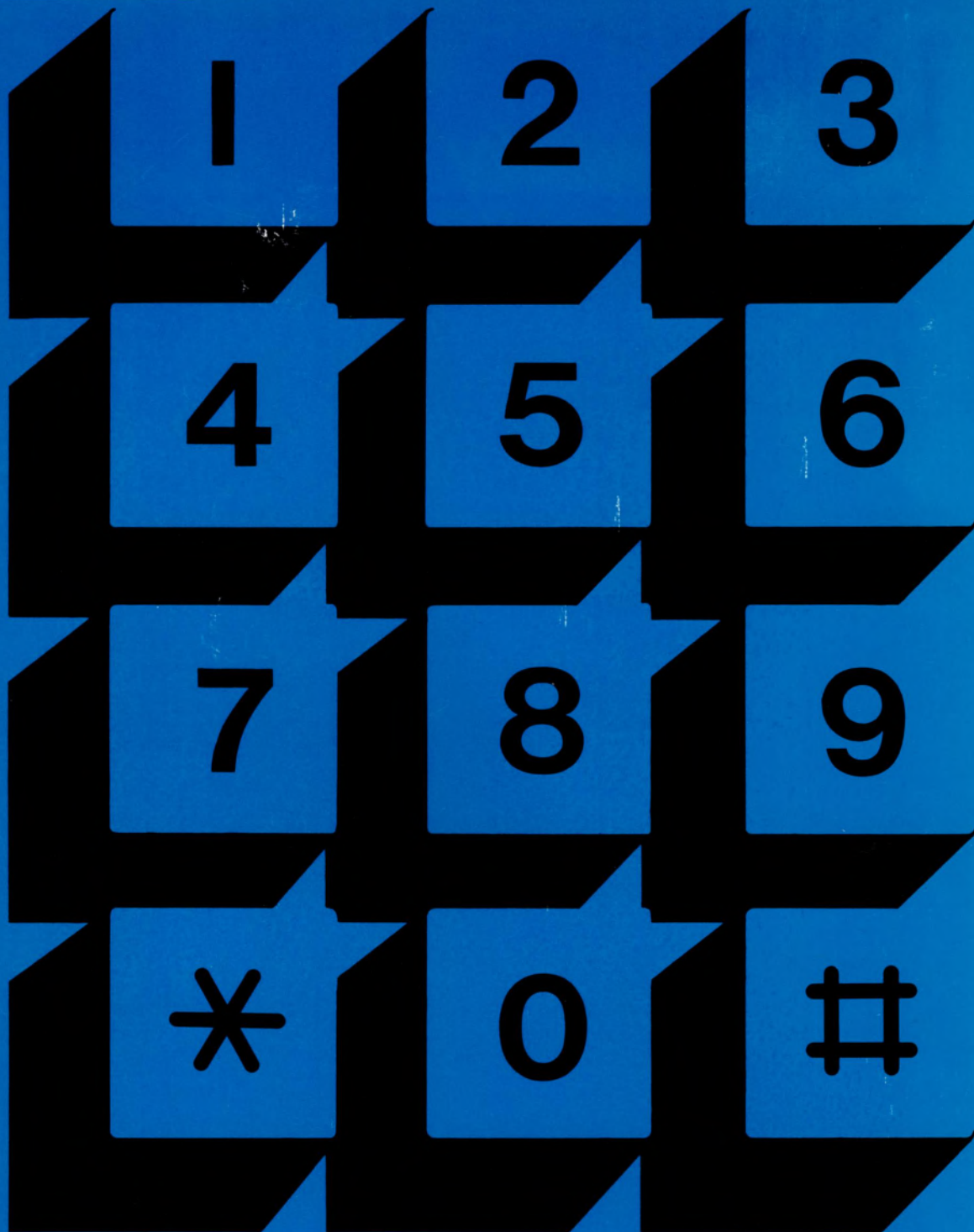




Reliance

REX Business Communications System

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REX is the telephone system that makes business communications more businesslike. It is fast, compact, economical and versatile.

The name stands for Reed Electronic Exchange. Fully-sealed reed relays plus solid-state electronic control have replaced the conventional switching equipment – with dramatic results. Calls can be set up by REX much faster than by a conventional exchange, and the switching equipment takes up far less valuable space. In addition, the clatter of the old-fashioned exchange is replaced by REX's near-silent operation – which means that REX requires no special accommodation.

The new generation

There is no doubt about it, reed electronic exchanges will help to provide the communications of the future. The new generation of TXE public exchanges already employ the same principles as REX, and are remarkably similar in operation. This means that Post Office engineers will be as familiar with REX as with their own TXE exchanges.

Lower power consumption

Although the REX system leaves conventional exchanges standing, it uses minimum energy. And unlike some other systems, which need a high power input just to tick over, REX uses even less power in its quiescent state.

Less energy also means less heat generated, and this is where REX scores again. The switching equipment needs no special environment, no expensive air-conditioning, and no separate accommodation. This, together with the compact size of the switchgear and its ultra-quiet operation, means that subject to Post Office approval, no special accommodation is needed and with high office rents, great economies can be achieved.



Flexibility

REX is designed to give every business the communications it needs – and the flexibility to meet changing requirements. Users are assigned various classes of service, from simple internal extensions to advanced executive right-of-way extensions. To change a given class of service (C.O.S.) for any extension, only relocation of a pin on the C.O.S. panel is required. As the business develops, more extensions may be required – and REX can handle them, with the simple addition of cabinets and plug-in extension modules. The operator or supervisor also has a great deal of control over the system. Suppose, for example, that you wish to cut your telephone bill by restricting external calls during peak-rate periods. REX enables the operator to do just that – at the touch of a button.

Data Handling

The REX system recognises the ever-increasing importance of computer interrogation in modern business administration. The quality of the speech paths provided by reed relays gives REX the capability of handling data at high speed. The keying or dialling of a simple code can establish a direct high quality link with a central computer which can then be interrogated by means of a key pad and a visual display unit (VDU). REX is capable of handling data at high speed without mutilation. Data terminals, modems, and processing equipment can therefore be connected to extension lines at random. Terminals providing full data facilities are available from Post Office approved suppliers, at an extra charge.

Call analysis

With the addition of a traffic analyser the system is capable of monitoring all calls made and, by further processing, analysing them by extension, by department, by type of call, and so on. In this way Management are helped with the planning and control of their telecommunications budget. This is obviously a valuable tool, as it simplifies departmental charging, makes it easier for departmental heads to cut down on wastage, and assists in budgeting and forward planning.

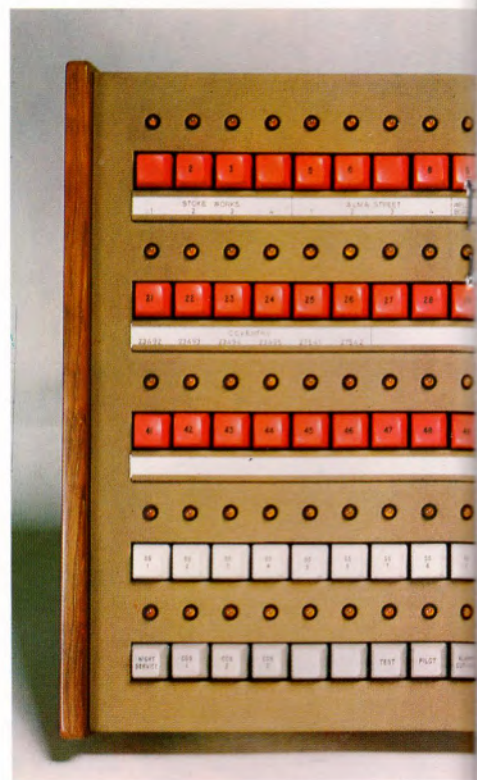


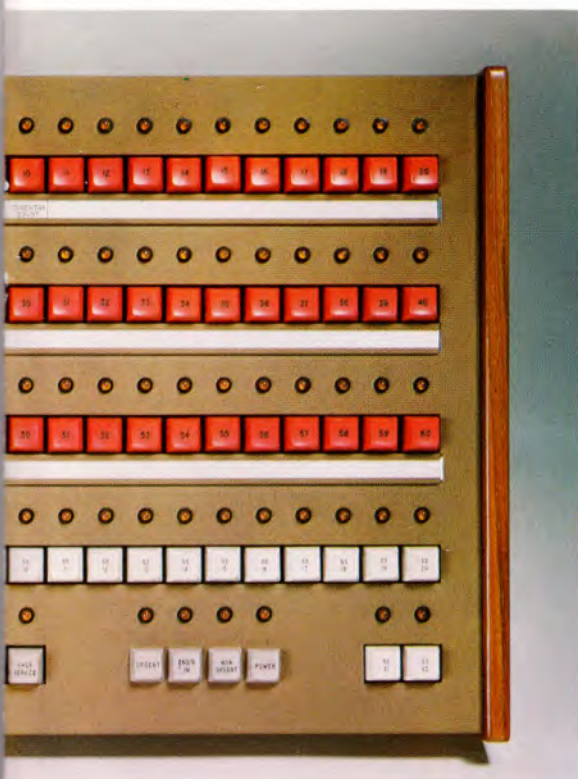
REX helps the operator to help you

The PABX Operator is often the first contact that an outsider has with your organisation. It follows that an operator who is overworked and harrassed is bad for business. REX helps operators by relieving them of the routine, repetitive functions demanded by the older exchanges, freeing them to give a more personal service where it is needed.

REX has swept away all the old fashioned clutter of plugs and leads. In its place, there is a compact desk top console, little bigger than a typewriter. When an incoming call is signalled, the operator answers and then keys the required extension. If it is engaged, he or she can either intrude with a warning tone, or camp the call on to the busy extension, in which case it is rung automatically as soon as the hand set is replaced. At all times, by simple key operation, the operator is kept informed of the number of the extension or trunk line to which he or she is connected.

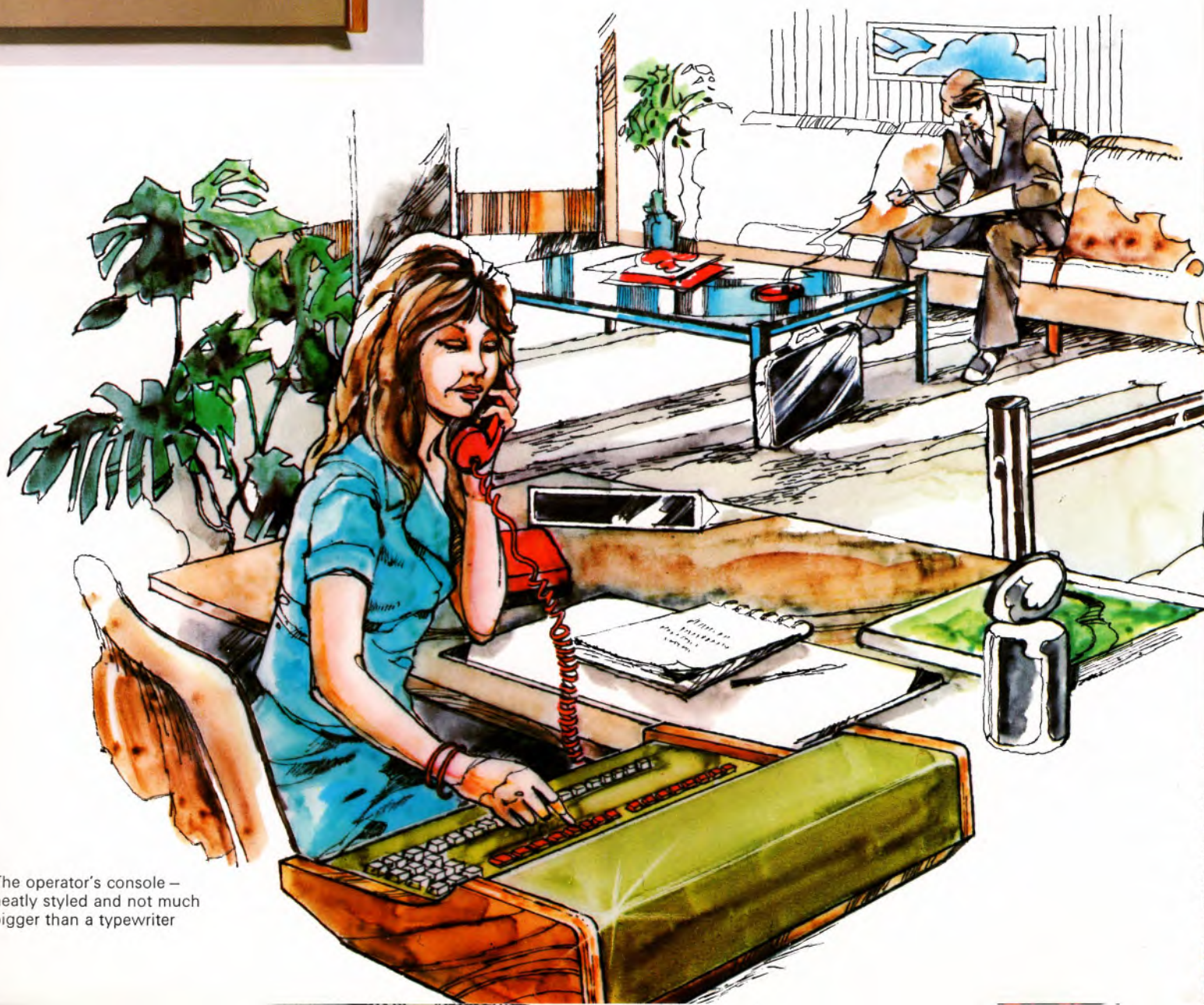
The Operator's Service panel provides an easy means of "busing-out" faulty circuits, and can be used to restrict external calls during peak periods.





Internal calls are normally set up by the extension users, and the operator is only involved when an invalid number is keyed by mistake, in which case the call is automatically routed to the switchboard. Transfers too are normally set up without the operator's intervention. An extension user can transfer a call to another extension, or make enquiries while holding the original call.

Apart from the console, the operator is also provided with a service panel which enables him or her to "busy-out" faulty circuits instantly



The operator's console — neatly styled and not much bigger than a typewriter

The hardware at the heart of the system

At the heart of the REX system is the automatic switching equipment. Built around the fully sealed reed relay principle, the equipment is housed in pre-wired, free-standing racks. These are extremely compact, and designed to make the best possible use of expensive floor space. REX also generates little heat, and consequently needs no special environment. This, plus near-silent operation, means that the racks could be placed almost anywhere. For ease of maintenance, all components are mounted on plug-in units, with plug-and-socket connections between racks. Locking covers are provided to each rack, which enhance the appearance of the equipment, and also prevent tampering with the pin patch panel which dictates the class of service to every extension.

Power for REX is normally taken from the mains supply and the voltage range is 200 to 250V 50 to 60 Hz, single phase. In the case of mains supply failure, switching is provided which automatically connects the public exchange lines to designated extensions.

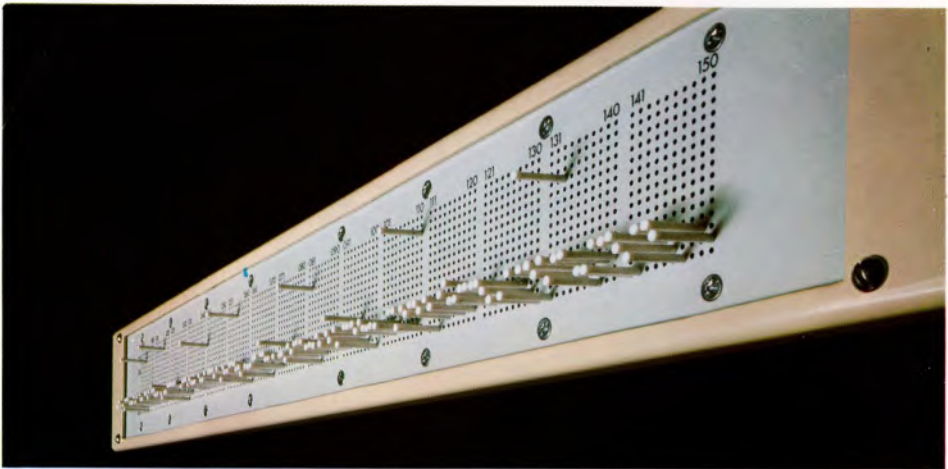


Extensive use is made of printed circuit boards and integrated circuits, for economy of space and maintenance.



Plug-in modules make for ease of maintenance and simple extension of the service.

Movement of a single pin on the Pin Patch Panel dictates the class of service to each extension the various classes of service are here shown diagrammatically.



CLASS NUMBER					
ISD	1 AND 2	3	4 TO 7	8 TO 11	12 AND 13
					
STD	1 AND 2	3	4 TO 7	8 TO 11	12 AND 13
					
LOCAL	1 AND 2	3	4 TO 7	8 TO 11	12 AND 13
					

Additional facilities

REX offers a comprehensive range of optional features to make your communications, and your business, more efficient.

Time, of course, is money and there are many ways in which REX can save both. Suppose, for example, that you frequently need to call long public exchange numbers. REX can receive simple short codes from your telephone, translate these, and then ring the full number automatically. Time is often wasted in arranging meetings – but with the help of REX's conference facility you can have a group discussion without ever leaving your desk.

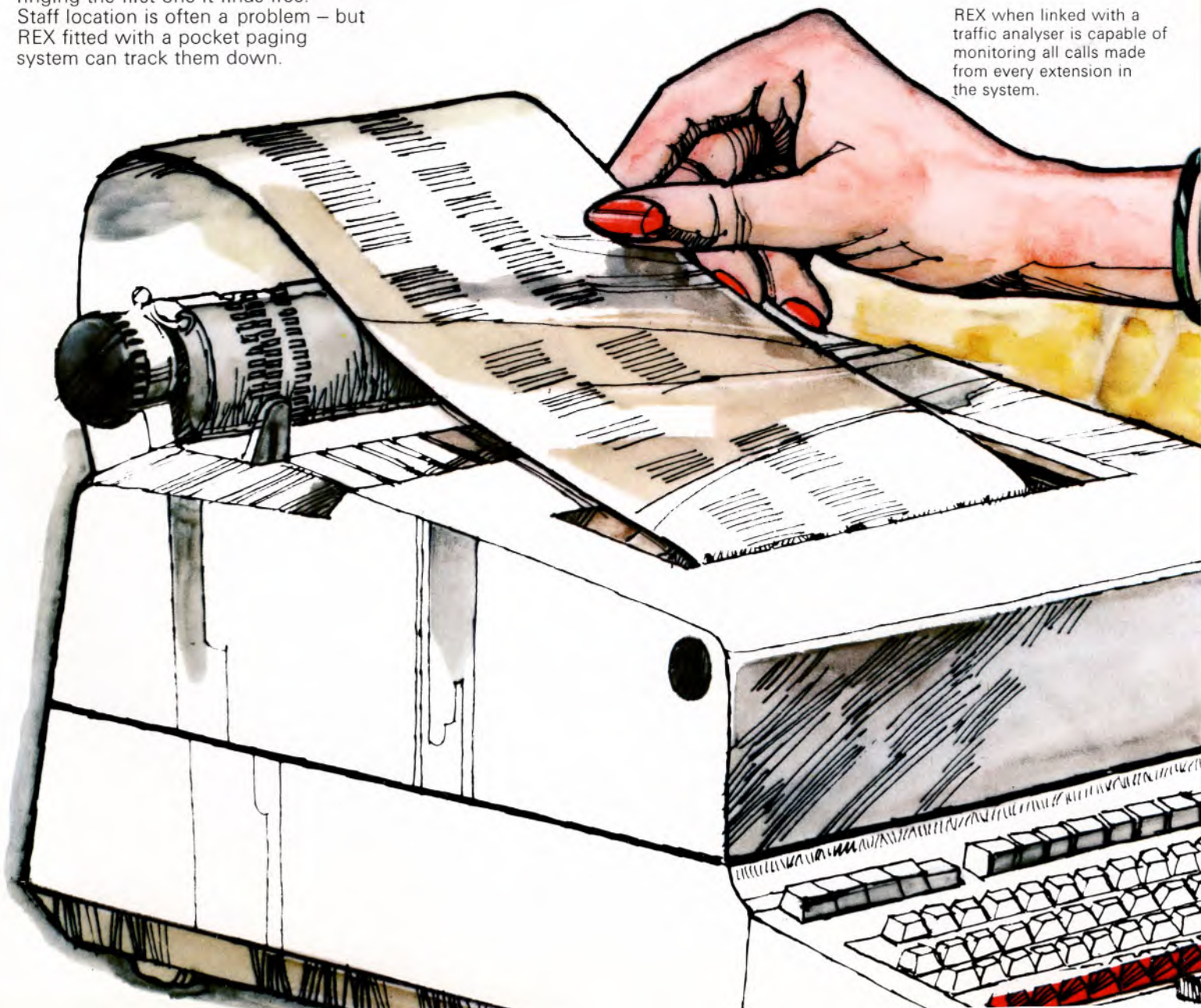
Another particularly irritating way of wasting valuable time is to ring several extensions in the same department, only to find them engaged. REX is capable of doing the work for you. You simply make one call, and REX hunts around a department of up to five extensions, ringing the first one it finds free. Staff location is often a problem – but REX fitted with a pocket paging system can track them down.

And for your most senior members of staff, there's an executive right of way facility which enables them to save time by intruding on established calls with a special warning tone. For operators too, REX can make life easier – freeing them to give more personal attention to the incoming calls which demand it. Direct Dialling In (DDI) for example, enables outside subscribers to dial certain selected extensions, or indeed all of them, without involving the operator at all. With the addition of PBX tie-lines, REX also enables you to key or dial other PBX's direct, again without operator involvement.

All the facilities mentioned so far are concerned with voice communication – but REX still has more to offer in other areas. Coupling with fire alarm systems and centralised dictation equipment, for example. Or a security system which records the extension number and time of calls made by a patrolling watchman.

All of these facilities can, of course, be incorporated into the REX system by the simple addition of plug-in units, or the connection of external equipment to available access points. It is this flexibility and the wide range of options available which combine to make REX not just another telephone system, but an indispensable, cost-effective aid to better business. Certain of these facilities are not yet available, but are planned for the near future.

REX when linked with a traffic analyser is capable of monitoring all calls made from every extension in the system.



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