

We hear you!

Direct communications
without any need for external power



Alexander Graham Bell's clever invention has made telephones familiar to almost everyone on Earth. Years before, Philip Reis used voice power for telephonic communication – so simple and so surprisingly effective. 150 years later, still an ideal and efficient method of communication available everywhere.

Dynamic receiver capsules powered by your own voice. The safest connection on any site.

For your telephones to work when and where power is not available, even at the most remote and desolate locations, sound-covered (or dynamic) telephones are precisely what you should have. Dynamic telephones systems have no need for external electrical power, not even batteries to enable them to work in an efficient and fail-free manner. They can be set-up and working in very little time with minimal error and perfect reliability.

In tunnels and mines, around steel furnace sites, on offshore installations and in busy port areas, in fact anywhere that has no electrical supply available (yet) for a conventional communications system, dynamic telephones are the ideal and effective solution. To speak to the control room, contact base, the bridge or get immediate response to questions without the need to move away from the job, report progress and receive advice without having to wait, or for that matter in many other situations. Even in places where a temporary communications link is required for site maintenance teams who need to remain in contact whilst not being in a fixed location or site, the dynamic sound covered telephones are a perfect tool.

Surprisingly simple and amazingly efficient, sound-covered telephones systems are used on many sites to request further material, to pass messages, records, requests for immediate assistance and advice to reporting a disturbance or an emergency situation, even to call for help.

You only need to push the plug fitted to our intrin-

sically safe telephone handset, regardless of the electrical sockets and you are instantly "on-line".

Even more versatile is the use of our "stapler" for "pick-up" cables. It changes a regular piece of the normal flat cable at any point and instantly connects you to the others on-line.

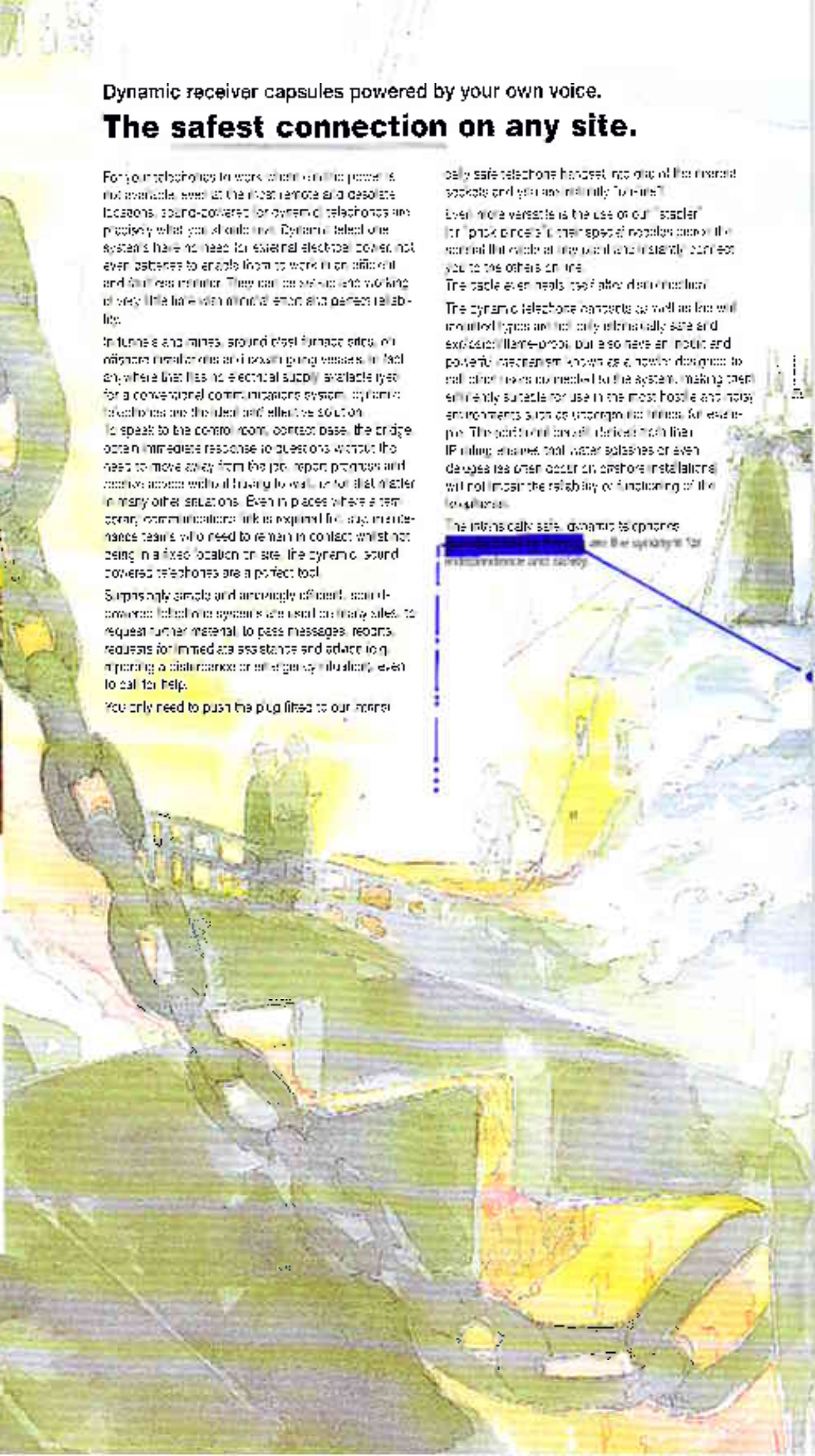
The cable even seals itself after disconnection.

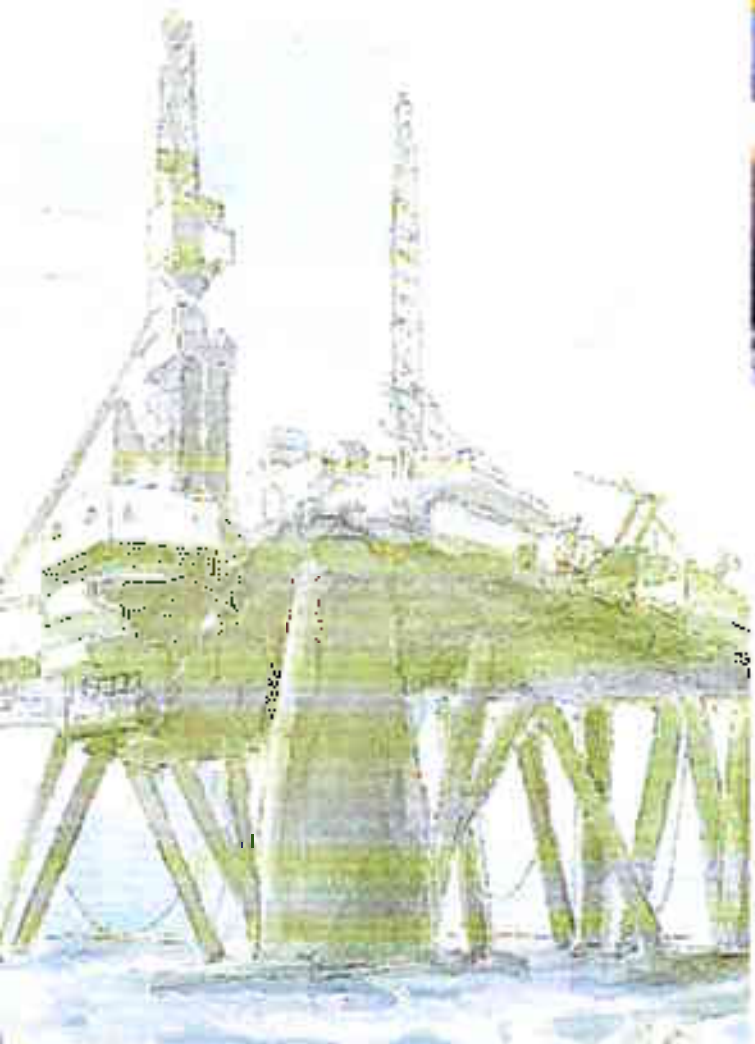
The dynamic telephone handsets, as well as the well mounted system are not only intrinsically safe and explosion/flammable-proof, but also have an in-built and powerful mechanism known as a "hot-line" designed to call other users connected to the system, making them eminently suitable for use in the most hostile and noisy environments such as underground mines, for example. The additional benefit derived from the IP rating ensures that water splashes or even damage (as often occur on offshore installations) will not impair the reliability or functioning of the telephones.

The intrinsically safe, dynamic telephone system is the simplest for installation and safety.



Send a doctor immediately to belt number 2, please. There just was an accident here, and I think that Tony's leg is broken





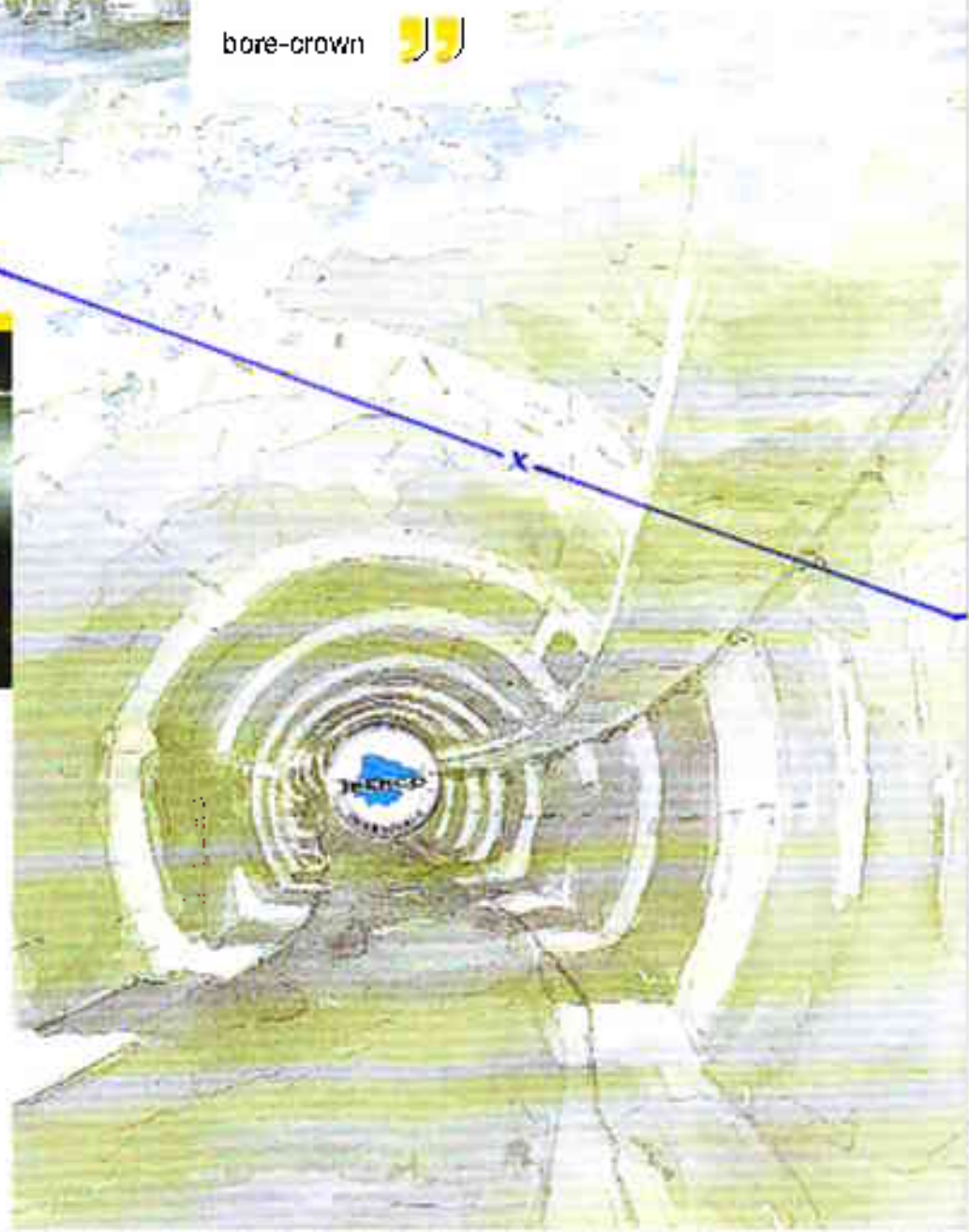
Remember the two paper caps and a piece of string you played with as a child? – Well, generally, two dynamic telephone capsules and a pair of wires perform the same function, more efficiently, and they do work around corners and over remarkably long distances. Only two dynamic capsules and a pair of wire conductors are required to set-up a sound-powered telephone system. External

There seems to be a very hard rock formation at 2000 feet.

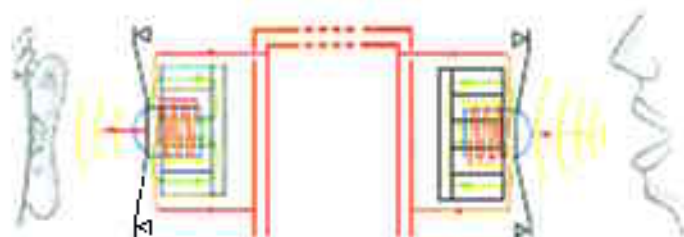
We have no choice but to exchange the bore-crown



We are nearly ready down here. Tell Charles to bring the priming caps in ten minutes.



power is not required. If one capsule is used as a microphone, sound waves make the capsule membrane vibrate which moves the coil inside the capsule. This movement generates a small inductive current at the voice frequency which is transmitted down the cable to the other capsule which acts as a receiver. The current induces movement in the receiver coil, mimicking the movements at the origin and causing the membrane to vibrate in the same manner as the microphone. Sound waves are thus generated and heard.



In such a simple system, the capsules are used as both microphone and receiver, in turn.

Summary of advantages

- very simple set-up
- very easy to use
- no training or familiarisation
- extremely portable, very low weight
- instantly ready for deployment:
 - virtually maintenance-free
 - not reliant upon installed PABX systems
 - excellent performance at reasonable cost
 - safe and secure communications, almost everywhere
 - intrinsically safe and free of external power input



” The automatic telephone system has broken down a minute ago.

Please use the sound-powered board system! ”

