



Our name is our seal.

The image shows a large industrial facility, the Ducab factory, with a prominent orange and white color scheme. The name 'Ducab' is written in Arabic and English on the building's facade. In the foreground, several large, tightly wound coils of bright red copper wire are stacked on wooden pallets. The sky is clear blue with a few wispy clouds.

دوخاب Ducab

Empowering lives

Dubai Cable Company (Pvt) Ltd is a technologically advanced cable manufacturing company that was established in 1979 by the Government of Dubai as a joint venture with BICC Cables. Today, we are equally owned by the Governments of Abu Dhabi and Dubai supplying copper rod, drawn wires, power cables, and cables accessories to our customers across the world in 40 countries.

Presently, with three cable manufacturing factories, a Copper Rod Plant, and PVC compounding facility across the emirates of Abu Dhabi and Dubai, we have a manufacturing capability of over 110,000 metal tonnes of high, medium and low voltage cables and wires per annum.

The latest addition to the product range is the high quality copper rod produced from Ducab's state-of-the-art copper casting plant – the first of its kind in the UAE. The facility opened in 2008, and is satisfying the growing needs of Ducab as well as that of its customers around the region and the world.

As a regional leader, Ducab was one of the first Emirati organisations to achieve ISO 9001 and the first in the region to achieve ISO 14001 environmental certification. Ducab's product range is type-tested and approved by international agencies such as Lloyd's Register, LPCB, KEMA, BASEC and ESMA.



Technology that matters

The latest addition to Ducab's wide gamut of products is Copper Rod and Wires. Produced from Ducab's state-of-the-art copper casting plant, the first of its kind in the UAE, Copper Cathodes are converted into 8mm diameter Electrolytic Touch Pitch (ETP) Copper Rods as per BS EN 1977:1998 and ASTM-B49-08a standards. These Rods are highly recommended for use in Power Cables, Automobile Wire Harnesses, Communication Cables, House Wiring, Overhead Copper Conductors (SDBC) and Transformer Windings.

In addition to Copper Rod, we also manufacture and offers drawn wires and stranded conductors. Our Rod Mill uses "CONTIROD®" Technology, a process that involves - Melting, Casting and Rolling. This facility uses novel gas control systems to ensure that each of the 15 burners perform independently. The final result is a copper rod that is more efficient to produce and has the best metallurgical structure.

The plant is fully computerized and has the capacity of producing 110,000 tonnes per year and it can be increased to 160,000 tonnes per year.



Our pride

Continuous Cast Copper Rods

Ducab continuous cast copper rods are produced using Contirod® technology. The rods are coiled in an orbital laying form to prevent entanglement while being uncoiled by the customers.

Applications

- Jelly Filled Telephone Cables
- Power Cables
- Automobile Wire Harness
- Communication Cables
- Conductors (Rounds and Sector)
- House Wiring
- Electrical Machineries-Transformers and Motors
- Magnet Wires

Typical Parameters

Sr. No	Parameters	Specification	
		ASTM B49-08	Ducab
1	Oxygen (ppm)	100-650	200-325
2	Surface Oxide (Angstrom)	Maximum 750 A	Maximum 300 A
5	Diameter Variance	±0.38	±0.38
6	Conductivity IACS%	Minimum 100	>101
7	Elongation (%)	Minimum 30	>40
9	Tensile Strength (N/mm²)	-	>220-240N/mm²
10	Visual Inspection	Smooth Surface	Smooth Surface

Physical Dimensions & Properties

Size (mm)	8
Outer Diameter of Coil (mm)	1650
Inner Diameter of Coil (mm)	900
Weight of each coil (Kgs)	Maximum 4500; Weld free
Coil Laying	Orbital
Standards/Specification	ASTM B49-08 / BSEN 1977:1998

Typical Chemical Analysis (ppm)

Parameter	ASTM B49 - 08	BSEN 1977:1998
Selenium	2	2
Tellurium	2	2
Bismuth	1	2
Group Total (Se+Te+Bi)	3	3
Antimony	4	4
Arsenic	5	5
Tin	5	5
Lead	5	5
Iron	10	10
Nickel	10	10
Sulphur	15	15
Silver	25	25
Total Impurities (Max. in ppm.)	65	65

Packaging & Marking Details

The rod surface is protected and packed in coil form on wooden pallets. Each coil is compacted, strapped and stretch-wrapped to prevent exposure to dust and ensure a good arrival condition at the receiving end by the customers. Coils for shipment are packed as suitable for sea freight.



Drawn Wire

Ducab produces a variety of wire sizes from copper and aluminium. All wire manufacturing machines at Ducab are from best European machine manufacturers. These machines are equipped with sophisticated control systems and can deliver high levels of process accuracy. This guarantees high quality, productivity and incredible flexibility.

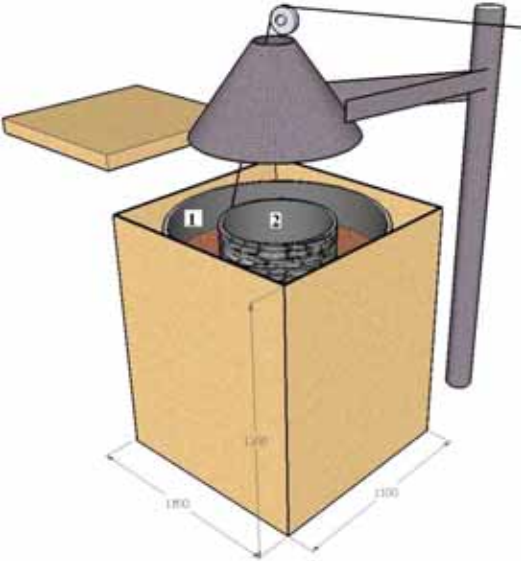
Our production is exclusively customer specific i.e. make to order

Applications

- Jelly Filled Telephone Cables
- Power Cables
- Automobile Wire Harness
- House Wiring
- Conductors (Rounds and Sector)
- Magnet Wires

Packaging & Marking Details

Ducab supplies drawn wire in non-returnable spools and cardboard baskets. Spools and baskets for shipment are packed as suitable for sea freight.



Stranded and Bunched Conductors

Ducab produces a variety of conductors from copper and aluminium. All stranding machines and bunching machines at Ducab are from best European machine manufacturers. These machines are equipped with sophisticated control systems and can deliver high levels of process accuracy. This guarantees high quality, productivity and incredible flexibility.

Product Portfolio

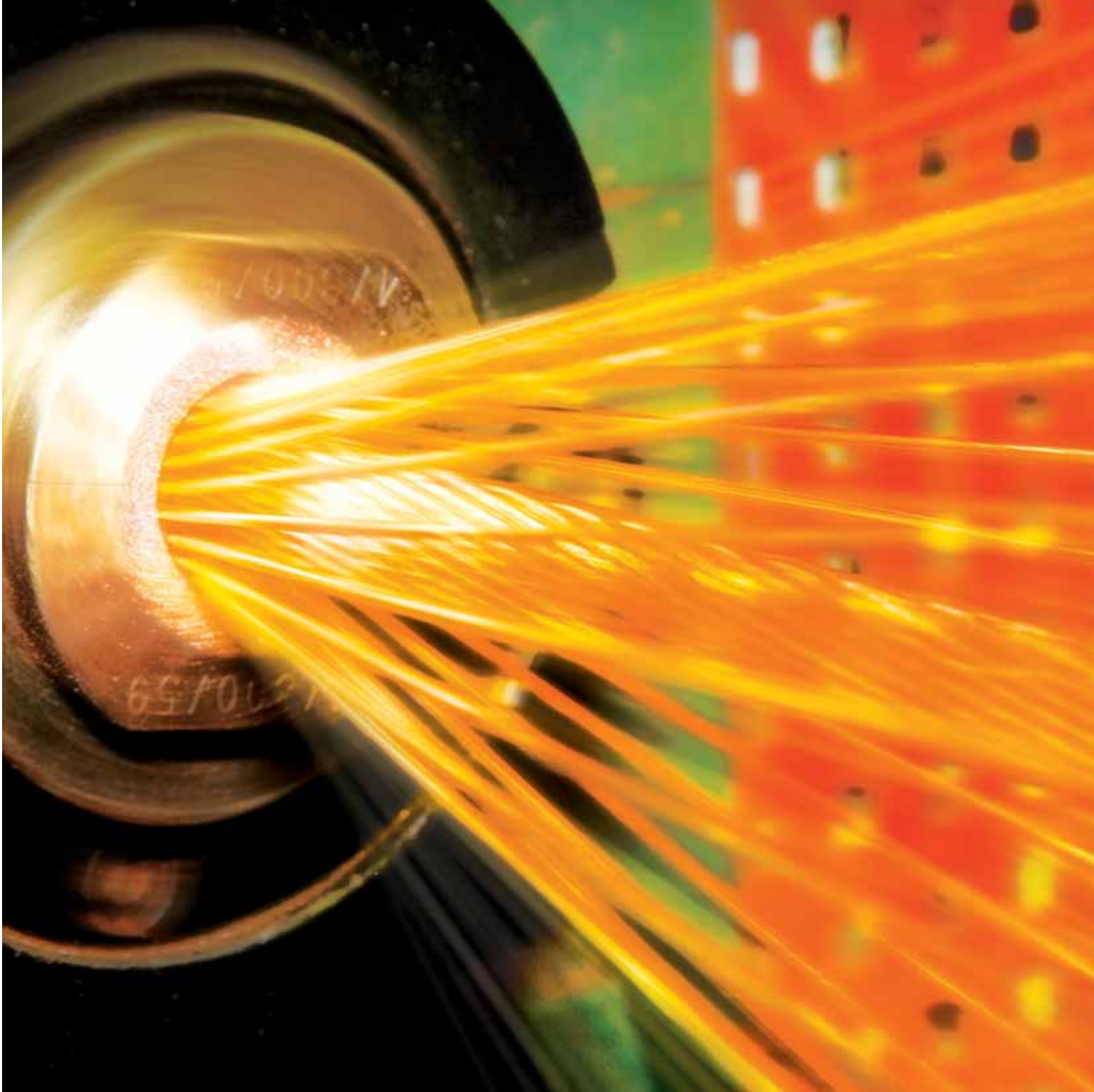
Sizes (mm²)	0.5 mm² to 1000 mm²
Material	Copper, Tinned Copper, Aluminium
Pattern of wire application	Unilay & Concentric Lay
Type	Compacted & Non Compacted Conductors
Shape of Conductor	Circular and Sector Conductors
Standards/Specification	BE EN 60228:2005 & IEC:60228

Applications

- Jelly Filled Telephone Cables
- Power Cables
- Automobile Wire Harness
- House wiring

Packaging & Marking Details

Ducab supplies stranded/bunched conductor in non-returnable drums. Drums for shipment are packed as suitable for sea freight.



Quality that you can trust

Ducab facilities are equipped with the latest technology backed by thorough quality assurance systems. This is evident from the fact that Ducab is an ISO 14001, OHSAS 18001 and ISO 9001 certified organization. Being the first manufacturing company to be awarded Emirates Quality Mark by Emirates Authority for Standardization and Metrology (ESMA) in UAE, indicates Ducab's focus on quality.

Ducab uses high-quality inspection techniques to guarantee high quality of product. These are linked to our QMS software to ensure stringent control measures at each stage of the process via incoming raw material inspection, in-process inspection, and finished product tests.

The supporting test laboratory contains the latest technology equipment, which is certified by BASEC, a UKAS accredited third party certification body.

Following tests have been done:

- Surface defect monitoring by Dr Foster Defektomat
- Iron inclusion monitoring by Dr Foster Ferromat
- Chemical composition test by spectrum-analysis for raw materials and finished products
- Continuous monitoring of wire size and shape of the copper rod
- Conductivity and electrical resistance tests of all products
- Spiral and wrapping tests
- Tensile Strength
- Elongation testing
- Oxygen content determination
- Hydrogen content determination
- Testing of Surface Oxides

Technical Assistance

We provide technical assistance & product support to our customers in various matters related to wire drawing, troubleshooting, development & anything and everything of mutual interest. Several areas, where interaction, co-ordination & feedback sharing system with the users have been undertaken by Ducab are:

- Joint exercise & trial run at buyer's request so as to benchmark the drawing process, if required
- Evaluating quality of CC rod & it's effect on the wire drawing

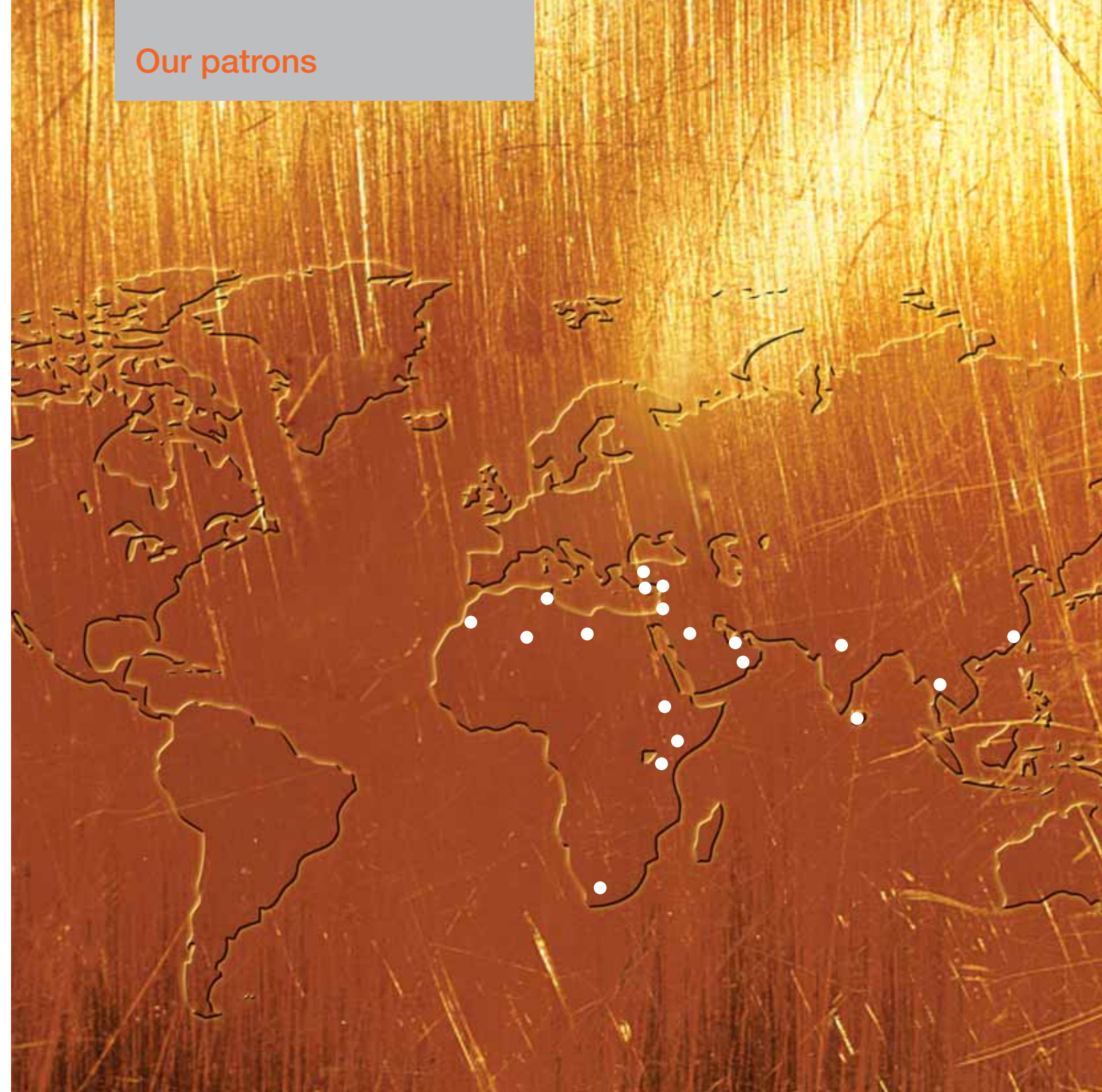
- Conducting study & analysis of various wire drawing parameters & suggesting ways & means to improve productivity
- Sharing thoughts on different technical matters of mutual interest product support system on continuous basis
- Sharing information on the various developments taking place in the technology worldwide



Risk Management

Ducab insulates itself from the price fluctuation by adopting hedging practices through futures trading at the London Metal Exchange. Consequently we can offer various pricing options to protect our customers from London Metal Exchange price volatility based on merit of the individual deals.

Our patrons





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