

INDUSTRIES WHICH USE WIRE ROPE

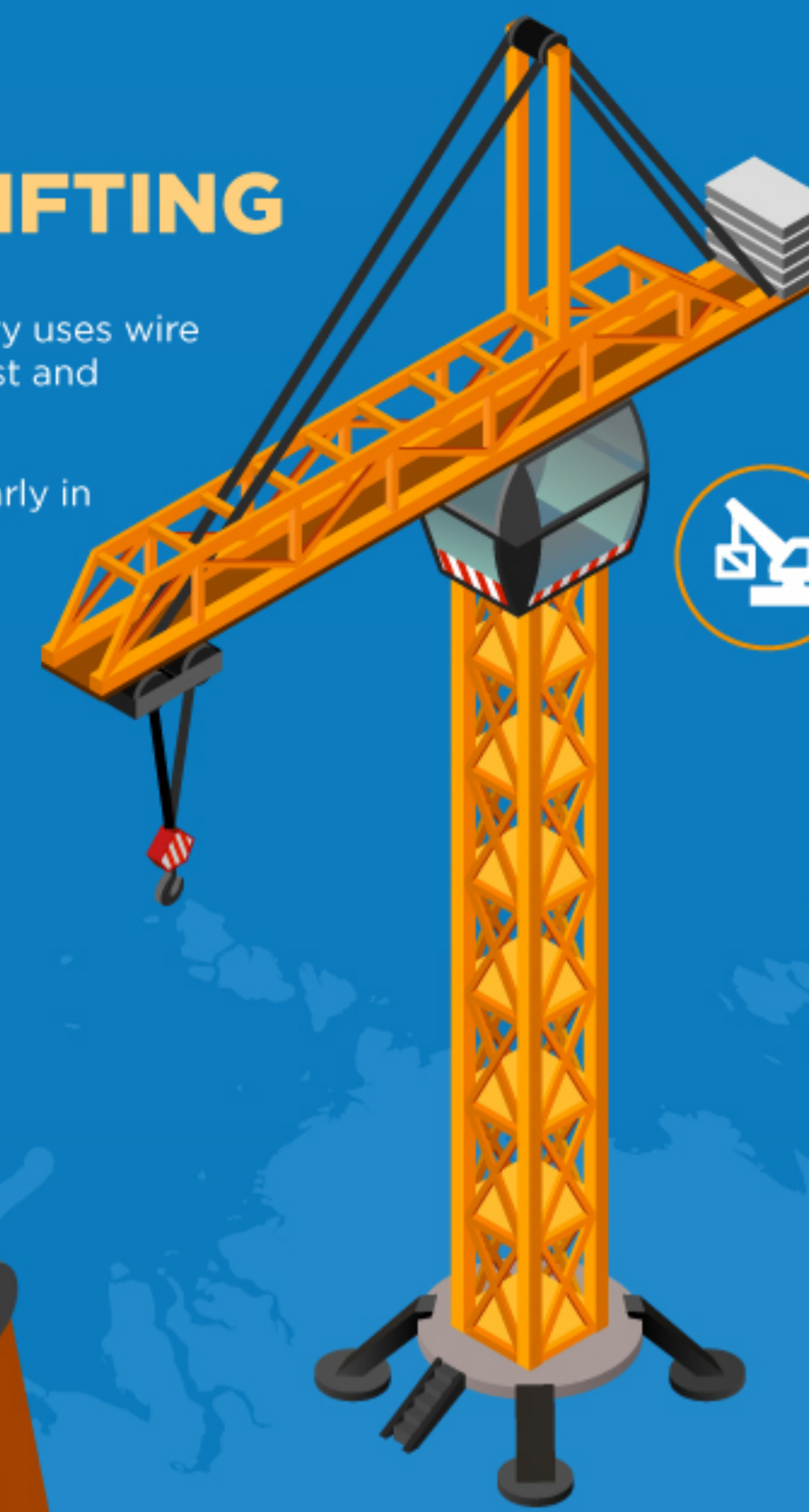
Wire rope has become increasingly popular since its invention by German Engineer Wilhelm Albert back in the 1830s. In this infographic we focus on fourteen industries which utilise wire rope actively and provide four practical applications for each industry.



CRANES & LIFTING

The cranes and lifting industry uses wire rope for its reliability, low-cost and hard-working qualities.

Container handling (particularly in ports), crane ropes for tower cranes, mobile cranes, and overhead cranes are all used in the lifting industry.



CONSTRUCTION

The construction industry day to day needs to move heavy items vertically and horizontally. Wire ropes are popular for their sturdiness, variety of application and endurance qualities.

Wire ropes are mainly used for fall arrest systems, material lifting and lowering, and moving materials around the construction site.



MINING

Mines have long used wire rope for lowering and lifting of heavy loads. It is reliable, low cost and easy to maintain and replace.

Dragline ropes, electric mining shovels, pendant line ropes, and underground shaft mining ropes are all used in mining.



AEROSPACE

The Aerospace industry demands high-performance, heat-resistant and heavy-duty components which makes it an ideal industry for wire rope to be used in.

Aircraft cable must be highly corrosion resistant and compliant with stringent standards

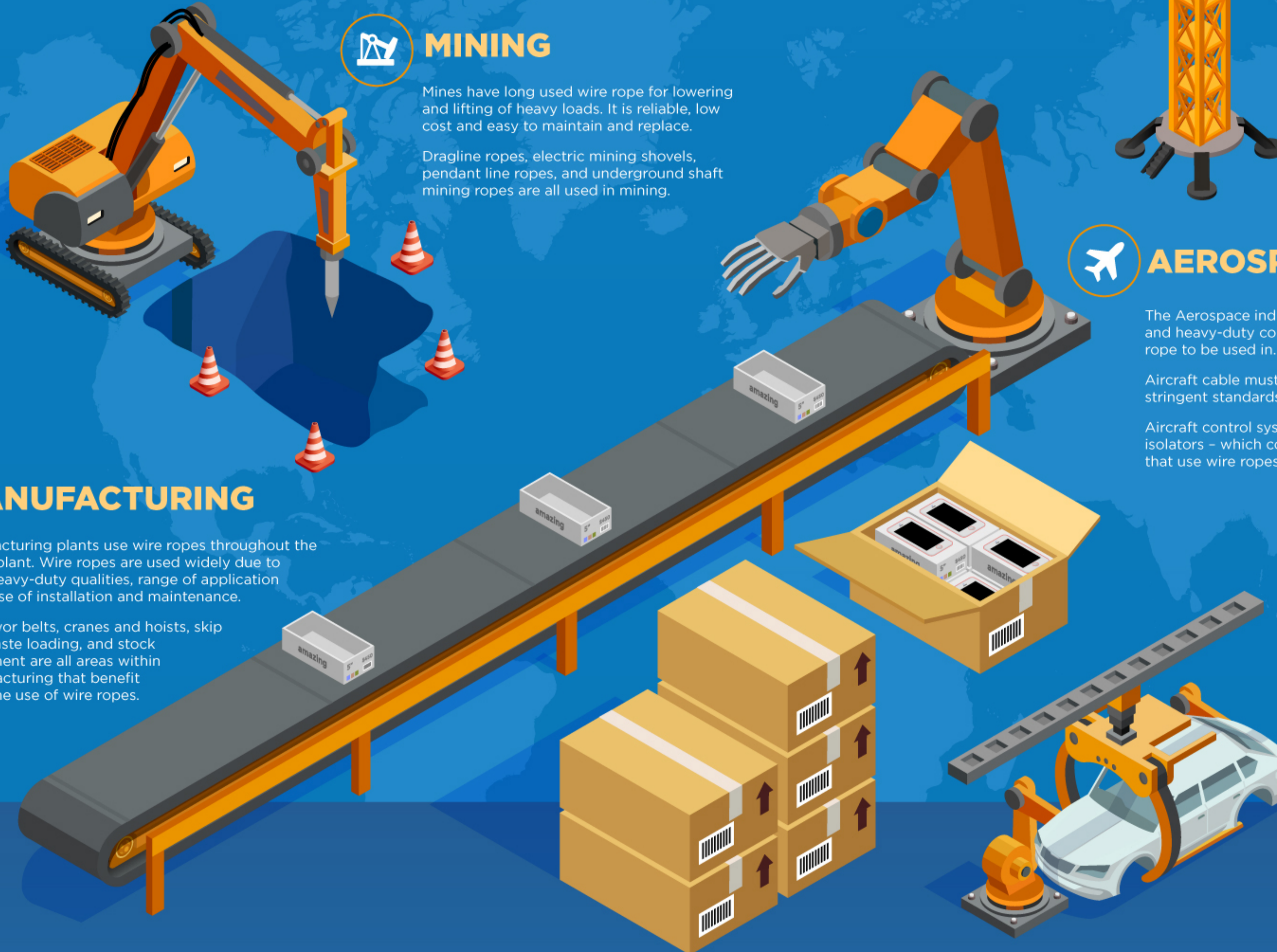
Aircraft control systems, cockpit parts - (e.g. levers and pedals), and isolators - which control aircraft vibration - are all areas of aeroplanes that use wire ropes.



MANUFACTURING

Manufacturing plants use wire ropes throughout the entire plant. Wire ropes are used widely due to their heavy-duty qualities, range of application and ease of installation and maintenance.

Conveyor belts, cranes and hoists, skip and waste loading, and stock movement are all areas within manufacturing that benefit from the use of wire ropes.



AUTOMOTIVE

The Automotive industry extensively uses wire rope for its hard-wearing, flexible and heavy-duty qualities.

Automotive parts - e.g. interior doors, electronic glass lifting, springs, steering wheels and sunroof cables.

Stock control - in automotive huge amounts of heavy stock have to be lifted and stored.

Tow trucks - which regularly use wire rope for towing of vehicles.

Wire ropes for cranes and hoists - which are used in automotive manufacturing.



FOOD MANUFACTURING & BREWERIES

Food and beer manufacturing requires working with very heavy materials both for raw products, work in progress and finished goods. Wire ropes are popular due to ease of use, low cost of ownership and their versatility of use.

Barrel lifting, food conveyor systems, food ingredients lifting, and production line equipment are all benefit from using wire rope.



HOME MAINTENANCE

Wire rope is found in any home and is perfect for a range of home maintenance tasks. Although often "invisible" to the home owner wire rope offers affordable solutions, which are "easy on the eye" and provide high levels of innovation and functionality.

Decking, shelving, staircases, and wire rope balustrades and safety fencing are all examples of wire rope use in the home.



MARINE

Wire rope is actively used in the marine industry for a wide variety of applications. Wire rope offers heavy-duty capabilities which can endure adverse environments and are proven to be reliable with long-term usage.

Examples of wire rope use in the marine industry are boat winches, mooring solutions, offshore dredging, and towing of marine vessels.



ENGINEERING

Engineering is innovative by nature and has extensively adopted wire rope for a multitude of applications. Wire rope is popular in engineering for its high-performance, heavy load-bearing capabilities and flexibility of application.

Cable roofing, pile driving, safety fencing, and trench cutting and excavations all benefit from the use of wire ropes.



MILITARY

The military sector has a latent demand for wire rope. Particular qualities demanded include working in hostile environments, the need for absolute reliability and the hard-wearing qualities that wire rope delivers.

Wire rope is used in aircraft launching bridles, antennas, communication towers, and to isolate shocks in hostile landscapes and also where explosives are in use.



OIL & GAS

The Oil and Gas industry (similar to mining) works in hazardous harsh environments. Fortunately wire rope thrives in these conditions and is used for its flexibility of application, ability to cope in a wide range of temperatures and also for its resistance qualities.

Wire rope is used for drilling lines, connecting electric terminals together, geophysical cable for water and UV resistant for use deep underground, and offshore cranes and winching.



RAIL

The rail industry was an early adopter of wire rope, both industries grew up together as wire rope and locomotives first emerged during the 1830s. Still very much in use today wire rope is popular for its reliability, low cost (which is important with the amount needed) and weather resistant qualities.

Wire rope is used for pulling cable trolleys, laying underneath racks for its flexibility, lifting/lowering freight, and pulling overhead lines.



WAREHOUSING

Warehouses rely on wire rope for their day to day heavy goods moving. Wire ropes are in demand for their heavy-duty capabilities, ease of operation/maintenance and their dependability.

Goods lifts / elevators, goods stacking, lifting/lowering of stock, and the movement and towing of stock are all aided by wire ropes