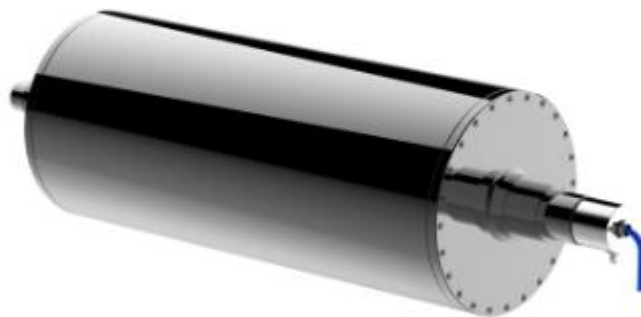


Paper calender roll (dryer)

Paper calender roll (dryer) in papermaking process, steam or thermal oil are usually used to heat rollers. However, when a high load is required, it will result lower paper strength. LEGION® induction heating roller, with the advantage of uniform temperature, clean and energy saving, can increase the output and improve the quality, as well as solve the problem of high energy consumption and oil leakage. Alternating Magnetic flux occurs when an alternating current is provided to an induction coil. This induces an eddy current on the internal surface layer of the roller shell, and the resistance will generate heat under the eddy current. High temperature is achieved from the direct generation of heat by the roller shell itself.



造纸压光辊

Roller for Paper Calender



【规格参数】 Specification

尺寸/Dimension	Φ1000~1500mm×L1000~3000mm
温度/Temperature	max 300°C
线速度/Linear Speed	max 1000m/min
线压力/Linear Pressure	max 400kN/m
表面处理/Surface Treatment	镀硬铬/镜面 Hard-chrome plating / mirror finish

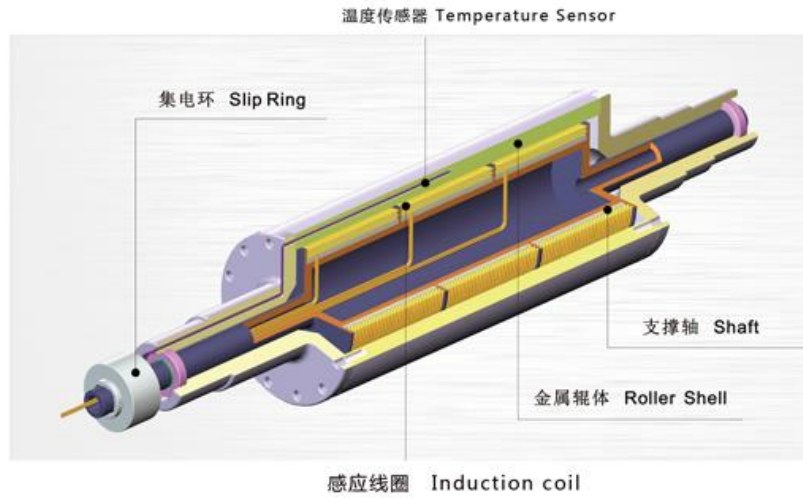
【产品描述】 Product Description

传统造纸工艺中辊筒加热通常使用蒸汽或导热油，当负载高的时候会导致纸张强度降低。联净®电磁感应加热辊因辊筒温度均匀性好、清洁、节能等优点，在提高产量与纸张强度的同时，也能改变工厂高耗能、漏油等问题。

In papermaking process, steam or thermal oil are usually used to heat rollers. However, when a high load is required, it will result lower paper strength. LEGION® induction heating roller, with the advantage of uniform temperature, clean and energy saving, can increase the output and improve the quality, as well as solve the problem of high energy consumption and oil leakage.

【应用领域】 Main Applications

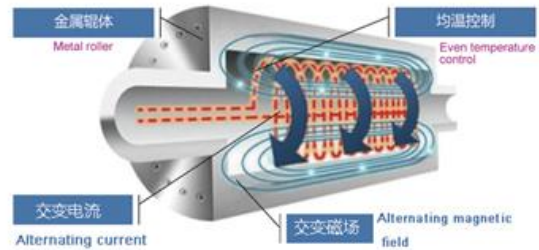
各类生活用纸	Household paper
文化用纸	Cultural paper
特种纸	Specialty paper



独特的能量密度分布技术，让辊筒实现高效加热的同时，表面温度均匀性可保持在 $\pm 0.5^{\circ}\text{C}$ 以内。

Special energy distribution technology is employed in LEGION® induction heating roller, which ensures uniform surface temperature with a deviation of $\pm 0.5^{\circ}\text{C}$.

辊体内均匀布置的加热线圈外接电源控制模块，通电后产生交变磁场，金属辊体在交变磁场作用下产生涡流，由于金属固有的电阻而发热，从而达到加热辊体的目的。



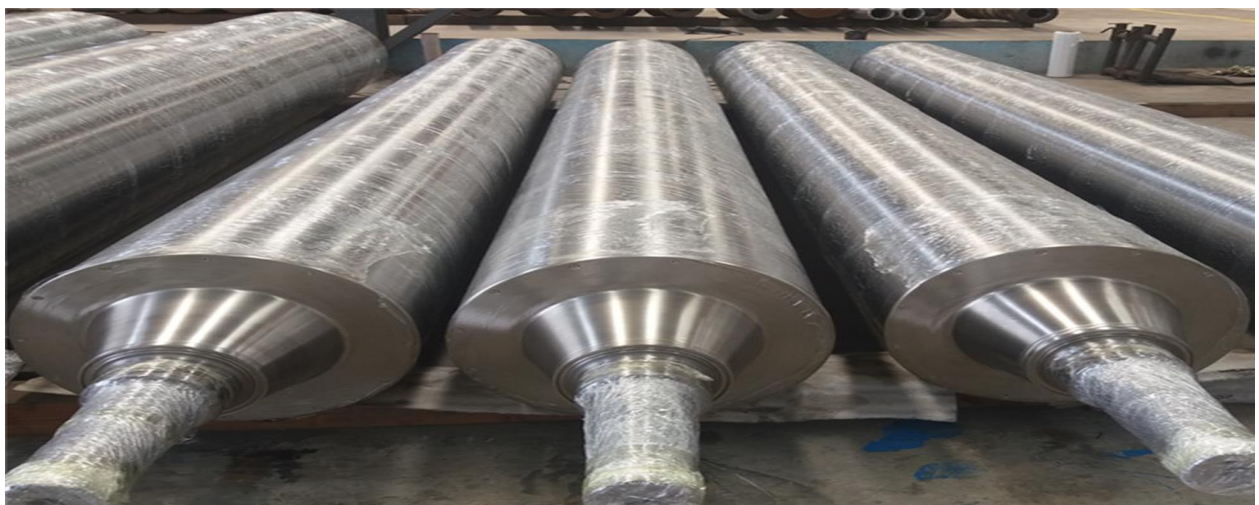
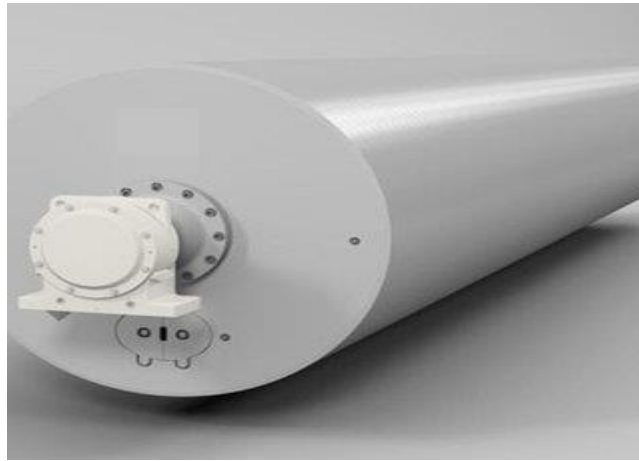
Alternating Magnetic flux occurs when an alternating current is provided to an induction coil. This induces an eddy current on the internal surface layer of the roller shell, and the resistance will generate heat under the eddy current. High temperature is achieved from the direct generation of heat by the roller shell itself.



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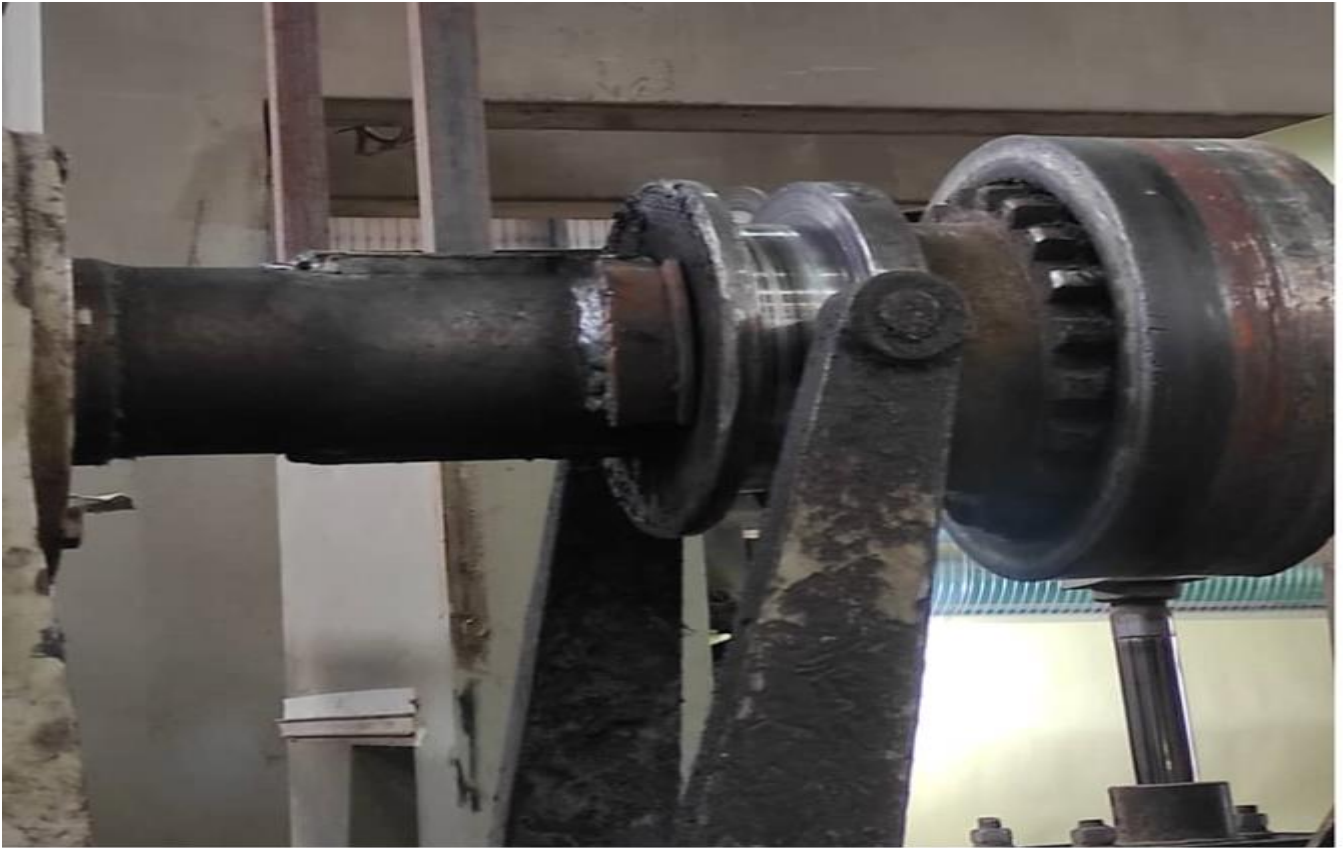




Gear

A gear is a rotating circular machine part having cut teeth or, in the case of a cogwheel or gearwheel, inserted teeth (called cogs), which mesh with another (compatible) toothed part to transmit (convert) torque and speed. The basic principle behind the operation of gears is analogous to the basic principle of levers. A gear may also be known informally as a cog. Geared devices can change the speed, torque, and direction of a power source. Gears of different sizes produce a change in torque, creating a mechanical advantage, through their gear ratio, and thus may be considered a simple machine.





Spline shaft

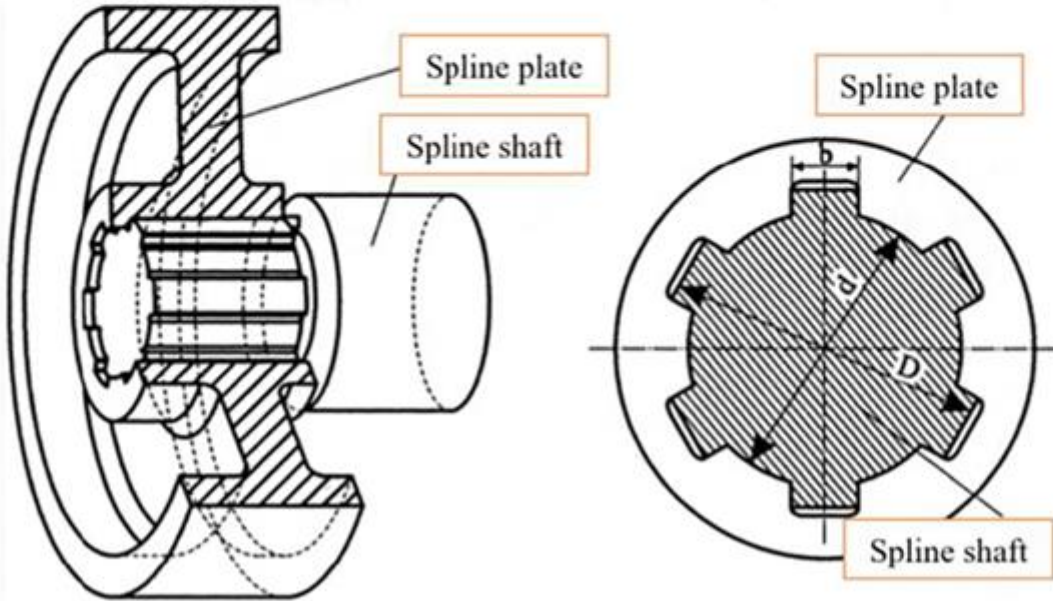
Automobiles must be able to drive quickly, cruise slowly, handle inclines, and more—and the engine cannot do it alone. That is where the transmission comes in.

The transmission is critical to vehicle operation, and must be assembled from durable, high-precision parts.

involute spline shaft

- Attaching centering piece formed from the left and the right makes it unnecessary to center the shaft using a machining process.
- Multistage forming reduces cutting allowance on the outer diameter







Dryer

Rotary dryer is a kind of drying equipment for processing large quantities of materials. It has characteristics of reliable operation, large operation flexibility, strong adaptability, large processing capacity, strong adaptability of materials, drying of various materials.

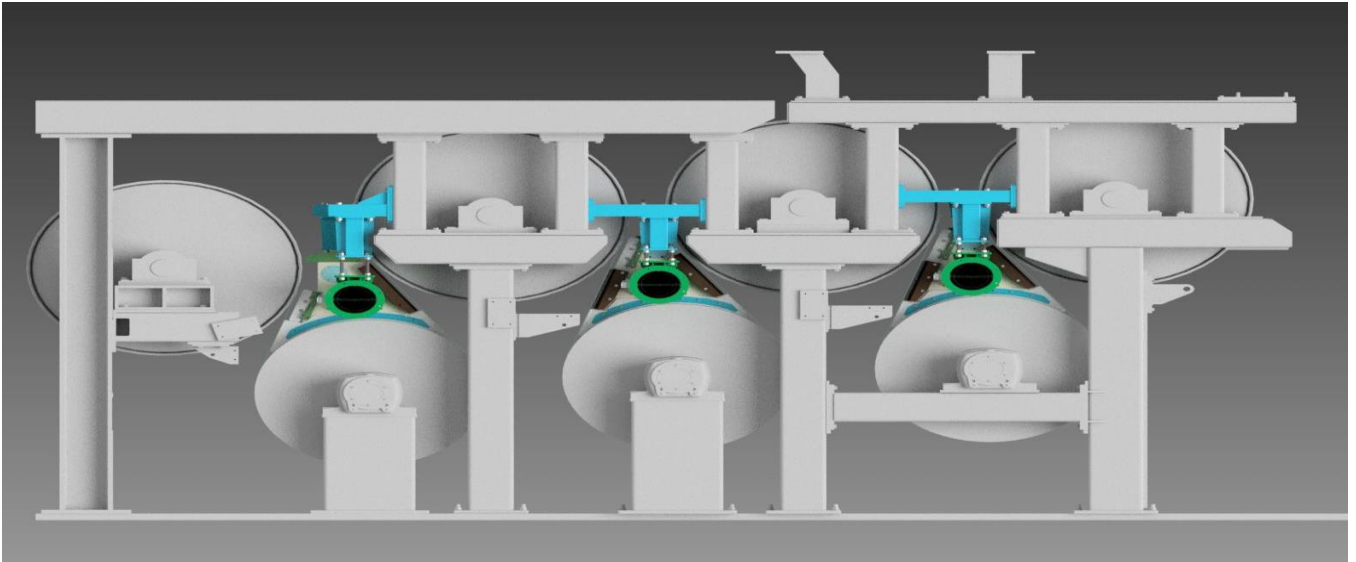




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Pressure screens



Pressure screens, sometimes called vertical screens, are among the most important screening equipment in paper lines. This equipment consists of a chamber or drum and the main parts inside it consist of a fixed mesh cylinder (basketball) and a set of movable foils that are installed on the central shaft.







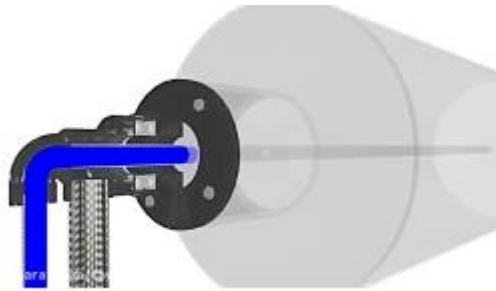
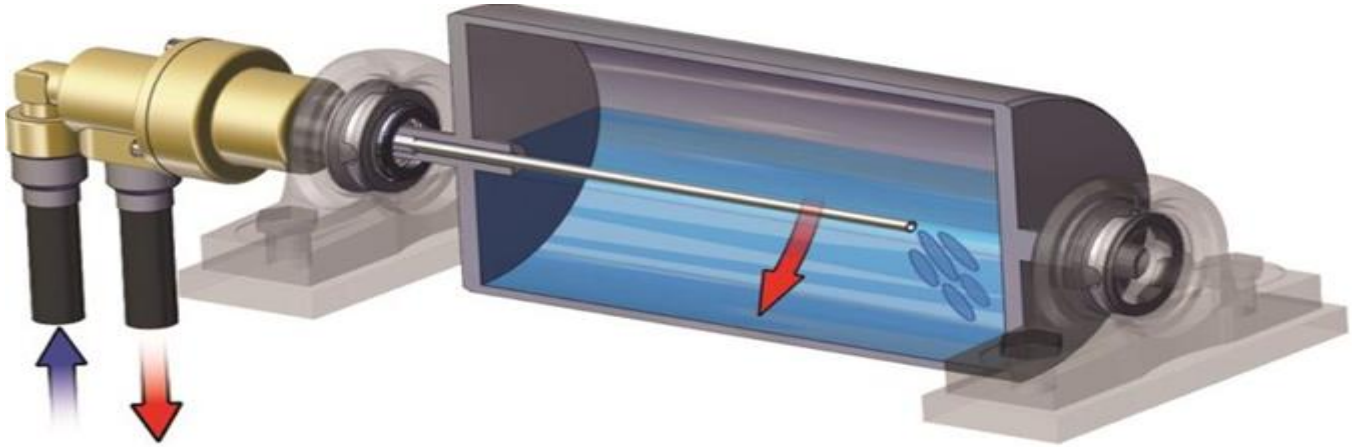
Rotor screen





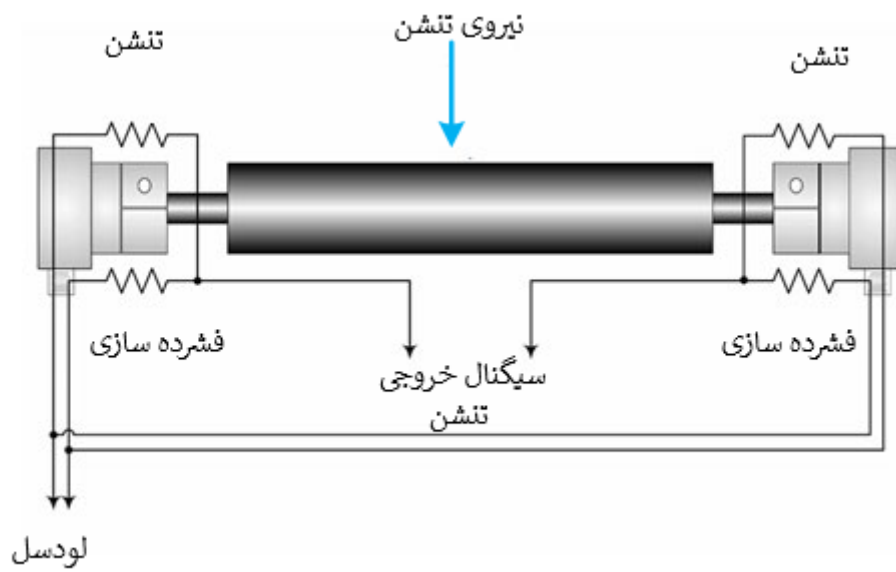


Cooling water interface





Tension roll

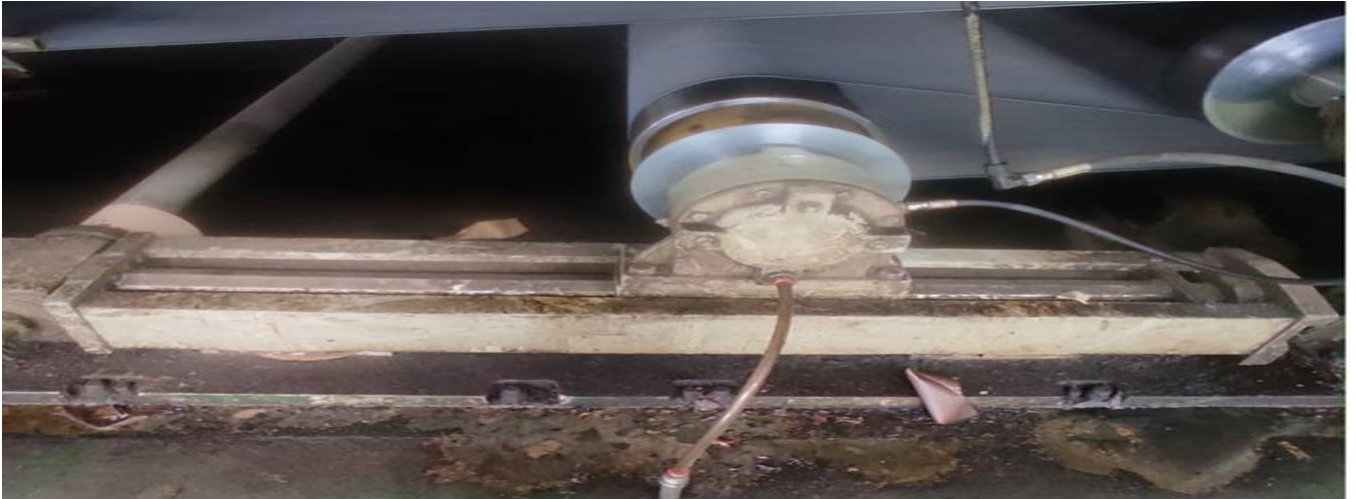




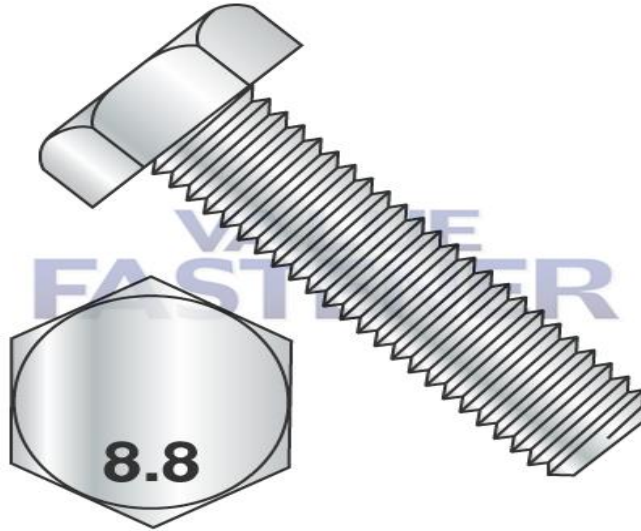
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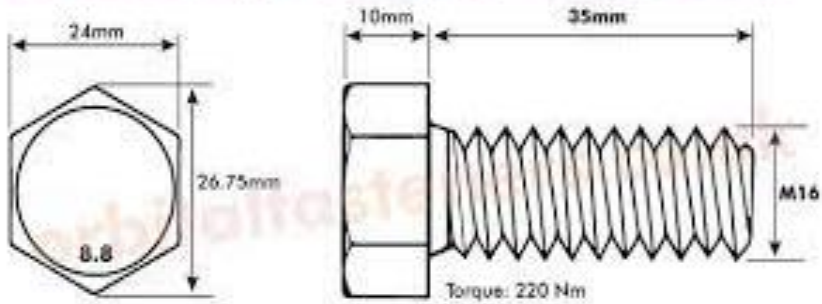
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Screw M16X35



The dimensional data we supply is for guidance only and you are advised to verify the information.



M16x35 High Tensile Hexagon Head Set Screw / Fully Threaded / Grade 8.8 / Bright Zinc Plated / DIN 933

w. www.orbitalfasteners.co.uk t. 01923 777 777 e. sales@orbitalfasteners.co.uk





Screw M10X25

M10



Screw M20X40



corridor fenc







Heat exchanger

Heat exchangers, metal shells and tubes, work by transferring heat from one place to another. ... The hot flue gas heats the metal as the gas makes its way to the exhaust outlet of the furnace. As this is happening, the hot metal heats the air circulating over the exterior of the heat exchanger





Press structure

