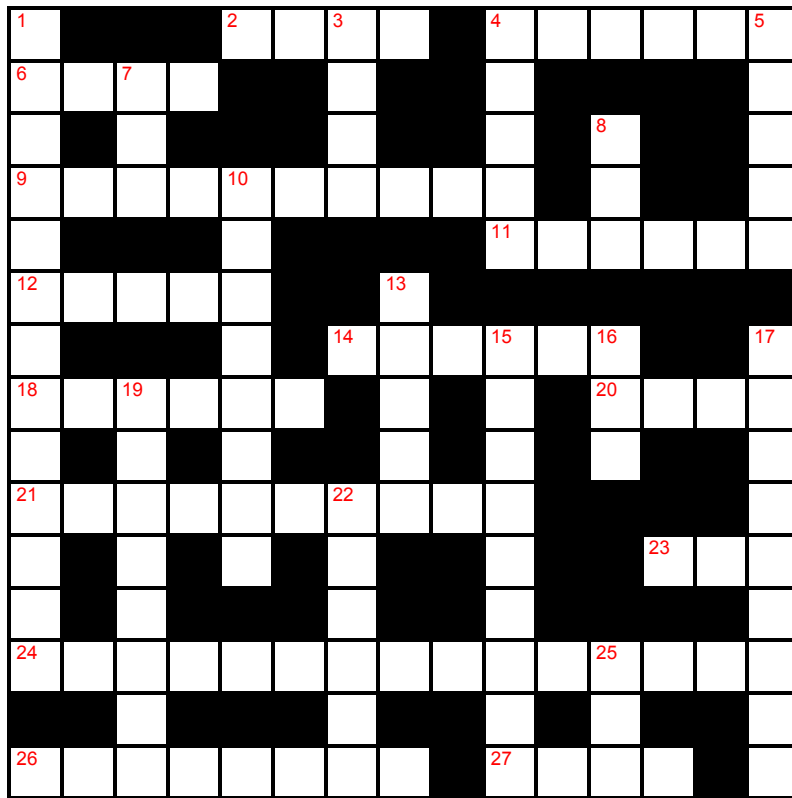


# Machines\_and\_Devices\_15x15\_2008-10-15

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## Across

- 2** A machine for lifting objects from below. A car \_\_\_\_ lifts a wheel off the ground so that the wheel can be changed. (4)
- 4** Some \_\_\_\_s are used to drive nails into surfaces. Others are used to beat the metal into shape. (6)
- 6** A machine which carries objects or people from one floor level to another. (4)
- 9** A piece of ground glass. It is thick in the middle and thin from the edges. It concentrates light passing through it onto a focal point. (6,4)
- 11** A kind of a ship. It carries large amount of a liquid cargo. (6)
- 12** A device for fastening two pieces of metal together. It is fixed in place with a hammer or \_\_\_\_ gun. It does the job of a nut and bolt. (5)
- 14** A tube running from the liquid in a vessel to a lower level outside the vessel so that atmospheric pressure forces the liquid through the tube. (6)
- 18** A device which automatically cuts off electricity or the fuel supply to a machine in predefined situations. (3,3)
- 20** An individual or group or structure or other entity regarded as a structural or functional constituent of a whole. (4)

- 21** It is an instrument for measuring the speed if the wind. (10)
- 23** A device used for cutting solid materials. (3)
- 24** An electrical device that provides a path for electrical current to flow. (8,7)
- 26** A device which uses a mixture of gases, such as neon and helium, to produce intense light energy. These are used in laser light shows. (3,5)
- 27** An inclined plane which usually connects two different levels. (4)
- cars.** These are used in garages so that mechanics can work underneath cars. (5)
- 5** The electronic equipment that transmits and receives high-frequency radio waves to detect, locate, and track distant objects. (5)
- 7** An appliance for keeping things or people cool. (3)
- 8** A device which fires objects from a tube. (3)
- 10** It forms metal, plastics or artificial fibres into long shapes. It squirts the material out of a nozzle. (8)
- heater.** It blows the warm air. (4,5)
- 16** A piece of metal with four or six sides and a hole in the middle. Inside the hole is a spiral groove called a thread. This fits with the thread on a bolt. (3)
- 17** A special kind of watch which can be started or stopped at any time. It is used to time race and other sports events. (9)

#### Down

- 1** A bundle of long wires which carry electric current. (8,5)
- 3** A shape made when a length of wire, rope or other material is wound many times in a circle. (4)
- 4** A machine for lifting large objects such as
- 13** Measuring instrument consisting of a graduated glass tube used to measure or transfer precise volumes of a liquid by drawing the liquid up into the tube. (5)
- 15** An electrical appliance containing a fan, an electric motor and a small
- 22** A machine which uses energy from fuel to perform tasks. (6)
- 25** A kind of wheel which is not circular. It is used in machines to change circular movement into up and down movement. (3)