- 2-D [ABBREV-U9] If an image is 2-D (two-dimensional), it is displayed as a flat image on a page. dwuwymiarowy
- **3-D** [ABBREV-U9] If an image is **3-D** (three-dimensional), it is displayed in space with height, width, and depth. trójwymiarowy
- actuator [N-COUNT-U11] An actuator is a device that supplies power to a robotic manipulator. urządzenie uruchamiające, siłownik
- **angle** θ [N-UNCOUNT-U6] **Angle** θ is a measure of the difference in direction between two lines that meet at a point. kąt (pomiędzy dwiema półprostymi)
- angular velocity [N-COUNT-U6] An angular velocity is a measure of something's degree of rotation over a particular amount of time. prędkość kątowa
- arc length [N-COUNT-U6] An arc length is the distance between two points on the edge of a circle. długość łuku
- arch [N-COUNT-U12] An arch is a curved structure with straight sides that supports the weight of something. łuk
- artificial organ [N-COUNT-U15] An artificial organ is a self-contained device that is surgically placed inside a human body to replace a natural organ. sztuczny organ
- automation [N-UNCOUNT-U11] Automation is a process in which mechanical or electronic devices replace human interactions in a process. automatyzacja
- **balanced geartrain** [N-COUNT-U8] A **balanced geartrain** is a planetary geartrain in which forces are evenly distributed among multiple planet gears. pełnowartościowy układ kinetyczny sił zębatych
- beam [N-COUNT-U12] A beam is a long, heavy piece of wood or metal that supports a roof or forms part of a structure. belka
- **biomechanics** [N-UNCOUNT-U15] **Biomechanics** is the science that studies biological systems and organisms from a mechanical standpoint, often for medical applications. biomechanika
- **BioMEMS** [ABBREV-U15] **BioMEMS** (biological microelectromechanical systems) is a MEMS device that is used to analyze or manipulate biological matter. technologia biomems
- **bottom-up design** [N-UNCOUNT-U10] **Bottom-up design** is a product development technique that focuses on implementing existing technology to solve a problem. projektowanie od dołu, projektowanie oddolne
- **B-rep** [ABBREV-U9] A **B-rep** (boundary representation) is an image that is defined by its bordered surfaces. modelowanie brylowe
- brittle failure [N-COUNT-U13] A brittle failure, also called a fracture, is a material failure in which no bending or other deformation occurs before breakage. złamanie
- **BTU** [ABBREV-U2] A **BTU** (British thermal unit) is a unit of measurement for heat energy, equal to the heat required to raise the temperature of 1 lb. of water by 1° F. brytyjska jednostka ciepła
- buckle [V-I-U13] To buckle is to suddenly bend and collapse under stress. odkształcać
- burn [V-I-U2] To burn is to combust or catch fire. palić się, płonąć
- burn out [V-I-U4] To burn out is to cause damage or failure from overheating. wypalić się
- **CAD** [ABBREV-U9] **CAD** (computer-aided design) is a form of industrial art that involves using a computer to create technical designs. projektowanie wspierane komputerowo
- carbon fiber [N-UNCOUNT-U15] Carbon fiber is a strong woven material that is made of small strands of carbon atoms. włókno węglowe
- carrier [N-COUNT-U8] A carrier is a link that connects the center of a sun gear to the center of a planetary gear. nośnik
- catenary [N-COUNT-U12] A catenary is the curve assumed approximately by a heavy uniform cord or chain hanging freely from two points. krzywa łańcuchowa
- center of rotation [N-COUNT-U6] A center of rotation is the central point that an object moves around when it rotates. środek obrotu
- chemical energy [N-UNCOUNT-U1] Chemical energy is energy that is released by the interaction of chemical substances. energia chemiczna

- **column** [N-COUNT-U12] A **column** is a tall, thick post that supports a building's roof, or may be used for decoration. kolumna
- **combustion** [N-UNCOUNT-U2] **Combustion** is the rapid conversion of fuel into heat and light through a chemical reaction. spalanie
- **combustion chamber** [N-COUNT-U3] A **combustion chamber** is an enclosed space where fuel ignites and burns. komora spalania
- **composite** [N-COUNT-U15] A **composite** is a material that consists of multiple other materials, each of which has drastically different properties. kompozyt
- **compound geartrain** [N-COUNT-U8] A **compound geartrain** is a chain of multiple gears in which at least one shaft contains more than one gear. koło zębate wielowieńcowe
- compress [V-T-U4] To compress something is to reduce its volume by pressing or squeezing it. sprężać
- **compression stroke** [N-COUNT-U5] The **compression stroke** is a stage in the four-stroke cycle in which the piston moves to the top of the cylinder to compress the mixture of fuel and air. suw sprężania
- **concurrent engineering** [N-UNCOUNT-U10] **Concurrent engineering** is a product development technique in which multiple stages of development occur simultaneously. projektowanie współbieżne
- **conduction** [N-UNCOUNT-U2] **Conduction** is the process of transferring heat between substances that are in contact with each other. przewodnictwo, kondukcja
- **connecting rod** [N-COUNT-U3] A **connecting rod** is a piece that connects a piston to a crankshaft, transferring motion as the piston moves up and down. korbowód
- **conserve** [V-T-U1] To **conserve** something is to use little or none of it so that it will be available at a later time. oszczędzać
- **convection** [N-UNCOUNT-U2] **Convection** is the transfer of heat by the circulation of molecular currents within a fluid such as air or water. konwekcja
- convert [V-T-U1] To convert something is to change it into a different form or system. zmieniać, przekształcać
- corrosion [N-UNCOUNT-U13] Corrosion is chemical damage to a metal object that causes it to disintegrate gradually over time. korozja, korodowanie
- crankcase [N-COUNT-U3] A crankcase is a structural component below an engine's cylinders that houses the crankshaft. skrzynia korbowa
- crankshaft [N-COUNT-U3] A crankshaft is the main shaft in an engine, and is moved by connecting rods. wał korbowy
- crash test [N-COUNT-U14] A crash test is a destructive test that is used to determine the safety of a vehicle in a crash situation. test zderzeniowy
- **creep** [N-UNCOUNT-U13] **Creep** is the tendency of objects to slowly bend, deform, or move under constant stress. odkształcenie
- CSG [ABBREV-U9] CSG (constructive solid geometry) is a method of using primitive shapes to show volume within 3-D models. technika trójwymiarowego modelowania brył z wykorzystaniem prostych figur geometrycznych
- cycle [N-COUNT-U4] A cycle is a process of performing a series of steps in a particular order repeatedly. cykl
- cylinder [N-COUNT-U3] A cylinder is a round working part in an engine, inside which the piston moves. cylinder
- cylinder head [N-COUNT-U5] A cylinder head is the part of a four-stroke engine that houses the valves and often contains vents for channeling excess heat away from the engine. głowica cylindra
- deform [V-I-U13] To deform is to bend or change shape. deformować, zniekształcać
- degree [N-COUNT-U6] A degree (°) is a unit that measures angles, and is equal to 1/360 of a complete circle. stopień
- **design strategy** [N-COUNT-U10] A **design strategy** is a plan that guides individuals or firms when designing products. strategia projektowania
- **dexterity** [N-UNCOUNT-U11] **Dexterity** is the ability to manipulate something with hands or hand-like components. sprawność, zręczność (manualna)

- diesel [N-UNCOUNT-U3] Diesel is a dense liquid fossil fuel that becomes more viscous in cold temperatures. olej napędowy
- **direction** [N-COUNT-U8] A **direction** is the angle or course along which something is facing, moving, or preparing to move. kierunek
- **drafting** [N-UNCOUNT-U9] **Drafting** is the process of drawing designs and diagrams for industries like engineering, architecture, and manufacturing. przygotowywanie wstępnej wersji/ szkicu
- **DT (Destructive Testing)** [ABBREV-U14] **DT (Destructive Testing)** is a category of materials analysis that assesses the properties of materials by increasing the intensity of the test until the material fails. badania niszczące
- **ductile failure** [N-COUNT-U13] A **ductile failure**, also called a yield, is a material failure in which some measure of bending or deformation occurs before breakage. zniszczenie ciągliwe
- elastic potential energy [N-UNCOUNT-U1] Elastic potential energy is the energy stored in an object as it is stretched or bent and is released as the object returns to its original shape. energia sprężystości
- elasticity theory [N-UNCOUNT-U12] Elasticity theory is an approach to structural analysis that focuses on the way objects deform under loads. teoria sprężystości
- element [N-COUNT-U12] An element is an important, basic part of something. część, składnik
- **enabling device** [N-COUNT-U11] An **enabling device** is a manually activated mechanism that allows motion when engaged and immediately stops motion when disengaged. urządzenie uaktywniające, urządzenie uruchamiające
- end-effector [N-COUNT-U11] An end-effector is a gripping tool or other device at the end of a manipulator. chwytak
- energy efficiency [N-UNCOUNT-U1] Energy efficiency is the ratio between the amount of energy used and the useful output of that energy. wydajność energetyczna
- energy quality [N-UNCOUNT-U1] Energy quality is the contrast between different forms of energy and their ability to perform useful work. jakość energii
- engine block [N-COUNT-U3] An engine block is the main structural component of an engine, and contains its cylinders. kadłub silnika
- exhaust [N-UNCOUNT-U4] Exhaust is the escaping gas or vapor that is emitted from fuel combustion. spaliny
- **exhaust stroke** [N-COUNT-U5] The **exhaust stroke** is a stage in the four-stroke cycle in which the piston returns to the top of the cylinder and forces the mixture of fuel and air out through the open exhaust valve. suw wydechu
- exhaust valve [N-COUNT-U5] An exhaust valve is an opening in an engine that releases exhaust from the cylinder after ignition. zawór wylotowy
- **exploded view** [N-COUNT-U9] An **exploded view** is a diagram that shows the parts of something slightly separated from each other so that each component is displayed clearly. widok zespołu rozebranego (ukazuje wzajemne położenie części)
- extensometer [N-COUNT-U14] An extensometer is a sensor in a materials testing machine that measures how much a sample stretches under tension. ekstensometr
- failure analysis [N-UNCOUNT-U13] Failure analysis is the process of collecting information in order to determine the cause of a failure. analiza uszkodzeń
- failure rate [N-COUNT-U13] A failure rate is a measure of how frequently a mechanical system or component will fail. wskaźnik awaryjności
- failure theory [N-UNCOUNT-U13] Failure theory is the science of predicting the circumstances under which solid materials fail. teoria uszkodzeń materiałów
- fatigue [N-UNCOUNT-U13] Fatigue is the progressive weakening or damage of a material under repeated forces. zmęczenie materiału
- finite element method [N-COUNT-U12] The finite element method is an approach to structural analysis that focuses on numerical analysis and probabilities. metoda elementów skróconych
- fire [V-T-U4] To fire something is to create a spark which ignites fuel in an engine. zapalać

- flow line [N-COUNT-U11] A flow line is a sequence of machines that are arranged to perform a series of operations in a particular order. linia przepływowa
- **force deflection** [N-UNCOUNT-U14] **Force deflection** is a measure of the temporary deformation of a structural component when a load is applied. siła ugięcia
- **four-stroke engine** [N-COUNT-U5] A **four-stroke engine** is a type of internal combustion engine that uses four piston strokes to complete a power cycle, and is commonly used in automobiles and aircraft. silnik czterosuwowy
- **fracture** [N-COUNT-U13] A **fracture**, also called a brittle failure, is a material failure in which no bending or other deformation occurs before breakage. złamanie
- frictional loss [N-UNCOUNT-U7] Frictional loss is the amount of power that is lost while overcoming the friction between two surfaces. straty energii spowodowane tarciem
- **FSW (friction stir welding)** [ABBREV-U15] **FSW (friction stir welding)** is a metal-joining technique that fuses the two metals with pressure instead of melting them. zgrzewanie tarciowe z przemieszaniem
- fuel [N-UNCOUNT-U4] Fuel is any material that is used to produce energy, usually by burning it. paliwo
- fuel injection pump [N-COUNT-U3] A fuel injection pump is a device that feeds fuel into the combustion chamber of a diesel engine. pompa wtryskowa
- fuel-to-oil ratio [N-COUNT-U4] A fuel-to-oil ratio is the relationship between the amounts of oil and fuel that are used in an engine. proporcja benzyny do oleju w silniku dwusuwowym
- gasoline [N-UNCOUNT-U3] Gasoline is a liquid fossil fuel that is highly volatile and does not become more viscous in cold temperatures. benzyna
- gearset [N-COUNT-U7] A gearset is a pair of gears that fit together. zespół kół zębatych
- glow plug [N-COUNT-U3] A glow plug is a device that aids combustion in diesel engines by heating cylinders. świeca żarowa
- gravitational potential energy [N-UNCOUNT-U1] Gravitational potential energy is the energy stored in an object relative to its elevation and is released as the object falls to Earth. energia potencjalna
- grind [V-I-U7] To grind is to rub against something else roughly. trzeć
- hardness test [N-COUNT-U14] A hardness test is a destructive test that is used to determine a material's resistance to permanent deformities, such as scratches and indentations. próba twardości (materiału)
- head [N-COUNT-U3] A head is a structural component at the top of an engine that covers the tops of the cylinders, holds the spark plugs, and often contains valves. głowica
- head gasket [N-COUNT-U5] A head gasket is a ring that seals an engine's cylinder head to maintain the proper interior pressure and prevent substances from leaking in or out. uszczelka głowicy
- heat [N-UNCOUNT-U2] Heat is a form of energy that produces high temperatures and occurs during the release of kinetic energy. ciepło
- **hydraulic** [ADJ-U11] If something is **hydraulic**, it creates power through the movement of a fluid, such as water. hydrauliczny
- idler gear [N-COUNT-U8] An idler gear is a gear in a geartrain that does not change the speed or torque of the geartrain as a whole. koło zębate pośrednie
- **IGES** [ABBREV-U9] The **IGES** (Initial Graphics Exchange Standard) is an intermediate data exchange design system that represents 3-D analytical geometry, and uses particular formats for annotations and graphics-related data. wstępna specyfikacja wymiany danych graficznych
- ignite [V-T-U5] To ignite something is to cause something to burn. powodować zapłon
- inlet [N-UNCOUNT-U4] An inlet is a valve where air, fuel, and oil enter a combustion chamber. wlot, otwór wlotowy
- **input torque** [N-UNCOUNT-U7] **Input torque** is the amount of torque that a gear receives from an outside source, such as a motor. moment wejściowy

- intake stroke [N-COUNT-U5] The intake stroke is a stage in the four-stroke cycle in which the piston moves to the bottom of the cylinder, drawing fuel and air into the combustion chamber. suw ssania
- intake valve [N-COUNT-U5] An intake valve is an opening that allows air and fuel to enter an engine's cylinder. zawór wlotowy
- joint [N-COUNT-U11] A joint is a place where two things are joined together in a way that allows movement. przegub, złącze
- kinetic energy [N-UNCOUNT-U1] Kinetic energy is energy that is active or moving. energia kinetyczna
- **lab-on-a-chip** [N-COUNT-U15] A **lab-on-a-chip** is an integrated circuit that is designed to perform one or more laboratory fluid-handling functions. laboratorium chipowe
- **laws of thermodynamics** [N-PHRASE-U2] The **laws of thermodynamics** are four rules explaining the natural behavior of heat energy. zasady termodynamiki
- **lifecycle assessment** [N-COUNT-U10] A **lifecycle assessment** is a way of evaluating the total environmental impact of a product or service. ocena wpływu produktu lub usługi na środowisko naturalne
- macroscopic failure [N-UNCOUNT-U13] Macroscopic failure is a failure that is caused by a change in a material's ability to support weight or store energy. usterka makroskopowa
- manifold model [N-COUNT-U9] A manifold model is a 3-D solid model that maintains the dimensions of an object by including only bordered surfaces. model 3D, który zachowuje wymiary obiektu, uwzględniając wyłącznie powierzchnie graniczne
- manipulator [N-COUNT-U11] A manipulator is a part of a robot that acts as an arm and controls the movement of something. manipulator robotyczny
- manufacturing process management [N-UNCOUNT-U10] Manufacturing process management is an area of product lifecycle management that focuses on determining how products will be made. zarządzanie procesem produkcji
- material intensiveness [N-UNCOUNT-U10] Material intensiveness is a measure of the toxicity and amount of a material required to make a product. intensywność materiału (miara określająca ilość danego materiału, niezbędną do wytworzenia określonego produktu oraz substancji toksycznych, które powstaną w trakcie jego produkcji)
- material life extension [N-UNCOUNT-U10] Material life extension is the act of ensuring that a product's materials are still useful after the product is worn out. przedłużenie życia materiału (zapewnienie, że materiał, z którego został wykonany produkt będą nadal użyteczne po jego zużyciu)
- material selection [N-UNCOUNT-U10] Material selection is the stage of product development in which a designer decides what materials to make a product with. dobór materiału
- materials testing machine [N-COUNT-U14] A materials testing machine is a device for testing the force deflection and stress-strain relationship of a particular material. urządzenie do badania wytrzymałości materiałów
- mechanical energy [N-UNCOUNT-U1] Mechanical energy is the combination of kinetic and potential energy in a machine. energia mechaniczna
- mechanics of materials [N-UNCOUNT-U12] Mechanics of materials is an approach to structural analysis that focuses on the way the materials behave under stress. wytrzymałość materiałów (dziedzina wiedzy inżynierskiej)
- mechanosynthesis [N-UNCOUNT-U15] Mechanosynthesis is a type of chemical synthesis in which the outcome is controlled by mechanical intervention. mechanosynteza
- mechatronics [N-UNCOUNT-U15] Mechatronics is an engineering field that combines principles from mechanical, electrical, computer, and software engineering to develop useful new products and technologies. mechatronika
- **MEMS** [ABBREV-U15] A **MEMS** (microelectromechanical system) is a very small mechanical component that is used in electronic devices. mikroukład elektromechaniczny
- mesh point [N-COUNT-U8] A mesh point is the point at which two gears come together. punkt zazębienia
- metallographic test [N-COUNT-U14] A metallographic test is a non-destructive test that is used to examine the properties of metal by studying samples under a microscope. badania metalograficzne

- **metallurgical failure analysis** [N-UNCOUNT-U13] **Metallurgical failure analysis** is the study of a mechanical system to determine the cause of failure of a metal part. analiza uszkodzeń mechanicznych metalu
- microscopic failure [N-UNCOUNT-U13] Microscopic failure is a failure that is caused by the presence of visible or microscopic cracks in a material. mikropęknięcie (defekt materiału spowodowany uszkodzeniami widocznymi gołym okiem lub przy pomocy mikroskopu)
- mix [V-T-U4] To mix two or more things is to combine them. łączyć, mieszać
- **model** [N-COUNT-U9] A **model** is a small or non-functional version of something that has the same features and scaling as the regular version. model (czegoś)
- **nanotechnology** [N-UNCOUNT-U15] **Nanotechnology** is a branch of mechanical engineering that involves microscopic devices. nanotechnologia
- **NDT (Non-Destructive Testing)** [ABBREV-U14] **NDT (Non-Destructive Testing)** is a category of materials analysis that assesses the properties of materials without damaging them. próba nieniszcząca
- NFF (No Fault Found) [ABBREV-U14] NFF (No Fault Found) is a situation in failure analysis in which the cause of failure cannot be determined. nie znaleziono przyczyny usterki (sytuacja, w której analiza usterki nie doprowadziła do ustalenia jej przyczyny)
- **nonbuilding structure** [N-COUNT-U12] A **nonbuilding structure** is a load-bearing structure that is not intended for human occupancy. konstrukcja nośna, która nie jest częścią budynku mieszkalnego
- **non-manifold model** [N-COUNT-U9] A **non-manifold model** provides detailed surfaces and edges within a solid model, in addition to the bordered surfaces. model z szczegółowym zarysem powierzchni i kątów wraz z granicami powierzchni
- **output torque** [N-UNCOUNT-U7] **Output torque** is the amount of torque that a gear receives from the machine's load. wyjściowy moment obrotowy
- packaging [N-UNCOUNT-U10] Packaging is the act of putting products in wrappers or containers, or the wrappers or containers themselves. opakowanie, pakowanie
- payload [N-COUNT-U11] A payload is the size or weight of something that a robot is capable of manipulating. ładunek
- **PDES** [ABBREV-U9] **PDES** (Product Description Exchange for STEP) is a data exchange format that contains geometry, functions, and process plans for a product. wymiana danych o produkcie za pomocą systemu STEP
- **pendant** [N-COUNT-U11] A **pendant** is a mobile input device that is connected to a robot's control system, and may be used to control the robot from some distance away. kaseta sterownicza
- photorealistic rendering [N-COUNT-U9] A photorealistic rendering is a still or moving image that shows very realistic representations of objects and processes. renderowanie realistyczne
- piston [N-COUNT-U3] A piston is a cylindrical plug that moves up and down in a cylinder during engine operation. tlok
- **piston ring** [N-COUNT-U3] A **piston ring** is a metal ring that fills the space between a piston and a cylinder wall, so that fuel cannot pass through the gap. pierścień tłokowy
- **pitch** [N-COUNT-U7] A **pitch** is the distance between a point on one tooth of a gear and the same point on the next tooth. tu: odstęp między zębami w kole zębatym
- pitch circle [N-COUNT-U7] A pitch circle is an imaginary circle that passes through a gear's mesh points. koło podziałowe
- pitch radius [N-COUNT-U7] A pitch radius is the distance from the center of a gear to the edge of its pitch circle. promień skoku koła zębatego
- pivot point [N-COUNT-U6] A pivot point is a point on a mechanism around which something turns. punkt obrotu
- planet gear [N-COUNT-U8] A planet gear is a gear that travels around the sun gear in a planetary geartrain. koło zębate przekładni planetarnej (obiegowej)
- planetary geartrain [N-COUNT-U8] A planetary geartrain is a system of connected gears in which one or more gears travel around a central stationary gear, similar to the motion of planets around a star. przekładnia planetarna; przekłania obiegowa

planned obsolescence [N-UNCOUNT-U10] Planned obsolescence is the process of producing products that require frequent replacement. planowane postarzanie produktu

plate [N-COUNT-U12] A plate is a flat element that is used in construction. plyta

- pneumatic [ADJ-U11] If machinery is pneumatic, it uses pressurized gas to control mechanical motion. pneumatyczny
- power [N-UNCOUNT-U1] Power is a quantity indicating the rate at which energy is consumed or transferred. moc
- **power stroke** [N-COUNT-U5] The **power stroke** is a stage in the four-stroke cycle in which heat ignites the compressed fuel and air, forcing the piston downward. suw rozprężania
- pressure [N-UNCOUNT-U5] Pressure is force that is produced when something pushes or squeezes something else. ciśnienie
- product data management [N-UNCOUNT-U10] Product data management is an area of product lifecycle management that focuses on maintaining and organizing product information throughout the development process and into the product's useful life. zarządzanie danymi produktu
- product lifecycle extension [N-UNCOUNT-U10] Product lifecycle extension is the act of making a product last longer so it does not have to be replaced. wydłużenie cyklu czasu życia produktu
- product management [N-UNCOUNT-U10] Product management is an area of product lifecycle management that focuses on planning, marketing, and predicting market success of a product. zarządzanie produktem
- prosthetic [N-COUNT-U15] A prosthetic is an artificial body part that is designed to take the place of a missing body part, such as an arm or a leg. protetyczny
- radian [N-COUNT-U6] A radian is a unit that measures angles, and represents the angle formed by an arc length that equals the circle's radius. radian
- radiation [N-UNCOUNT-U2] Radiation is energy emission in the form of a wave of particles. promieniowanie
- radius [N-COUNT-U6] A radius is the distance between the center of a circle or sphere and its outer edge. promień
- **revolution** [N-COUNT-U4] A **revolution** is a complete 360° rotation that returns something to its starting position or orientation. tu: obrót (np. wału korbowego)
- **revolution** [N-COUNT-U6] A **revolution** is a full rotation of something, so that a point along the edge completes a circle and returns to its starting location. pełny obrót
- rigidity [N-UNCOUNT-U15] Rigidity is a material's stiffness or resistance to deformation. sztywność, twardość
- ring gear [N-COUNT-U8] A ring gear is a fixed internal gear that encircles a planetary geartrain. zębatka pierścieniowa
- **rivet** [N-COUNT-U15] A **rivet** is a permanent metal fastening device that works by deforming and expanding during installation, preventing removal. nit
- robotics [N-UNCOUNT-U11] Robotics is the science of designing and manufacturing robots. robotyka
- rotational motion [N-UNCOUNT-U6] Rotational motion is the movement of an object in a circle around its center. ruch obrotowy
- **RPM** [ABBREV-U6] **RPM** (revolutions per minute) are the number of complete rotations around an axis that something can complete in one minute. obroty na minute
- **RPS** [ABBREV-U6] **RPS** (revolutions per second) are the number of complete rotations around an axis that something can complete in one second. obroty na sekundę
- serial [ADJ-U8] If something is serial, it is part of a series or collection. seryjny
- serial robot [N-COUNT-U11] A serial robot is a robot that consists of a linear series of parts connected by joints. manipulator szeregowy (rodzaj robota)
- shell [N-COUNT-U12] A shell is a strong, curved element that is used in construction. tu: obudowa

shift fork [N-COUNT-U7] A shift fork is a mechanism that slides a gear along a splined shaft. widełki przesuwne

simple geartrain [N-COUNT-U8] A simple geartrain is a chain of three or more gears in which each shaft bears only one gear. prosta przekładnia zębata

slip [V-I-U7] To slip is to move accidentally from a location. zsuwać się

spark plug [N-COUNT-U3] A spark plug is a device that creates an electrical spark to ignite fuel. świeca zapłonowa

- specific heat [N-UNCOUNT-U2] Specific heat is the amount of heat required to raise the temperature of a particular material. ciepło właściwe
- speed [N-UNCOUNT-U7] Speed is the rate at which something moves. szybkość, prędkość
- spider [N-COUNT-U8] A spider is a carrier that is specially designed to accommodate multiple planet gears. ramię w przekładni obiegowej (planetarnej); również: carrier, arm
- stress test [N-COUNT-U14] A stress test is a destructive test that determines a material's strength under different types of stress. próba obciążeniowa
- stress-strain curve [N-COUNT-U14] A stress-strain curve is the relationship between the amount of force applied to a material and its corresponding deformation. krzywa naprężenia
- structural analysis [N-UNCOUNT-U12] Structural analysis is the study and assessment of structures and their ability to bear loads. analiza strukturalna
- structural load [N-COUNT-U12] A structural load is the amount of weight or pressure that a structure supports. obciążenie
- sump [N-COUNT-U3] A sump is a reservoir that collects oil at the bottom of an engine. misa olejowa
- sun gear [N-COUNT-U8] A sun gear is a stationary central gear in a planetary geartrain that transfers rotation to the rest of the machine. koło centralne, koło główne w przekładni obiegowej
- support [V-T-U12] To support something is to bear its weight or prevent it from collapsing. podpierać
- systems engineering [N-UNCOUNT-U10] Systems engineering is an area of product lifecycle management that focuses on meeting consumer needs and requirements and coordinating relevant disciplines in a project. projektowanie systemowe
- technical drawing [N-COUNT-U9] A technical drawing is a precise, realistic drawing of something. rysunek techniczny
- thermal conductivity [N-UNCOUNT-U2] Thermal conductivity is the relative ability of a material to transfer heat. przewodność cieplna
- thermal energy [N-UNCOUNT-U1] Thermal energy is energy that is released by the movement or vibration of a material's atoms or molecules. energia termiczna
- thermal shock [N-UNCOUNT-U13] Thermal shock is a common cause of material failure that occurs when an object is subjected to sudden changes in temperature. szok termiczny
- thermodynamics [N-UNCOUNT-U2] Thermodynamics is the science of heat energy and its application for performing work. termodynamika
- **top-down design** [N-UNCOUNT-U10] **Top-down design** is a product development technique that focuses on the ideal function of a product rather than the use of existing technology. projektowanie oddolne
- torque [N-UNCOUNT-U7] Torque is the force that causes an object to turn around a point. moment obrotowy
- **torque ratio** [N-COUNT-U7] A **torque ratio** is the relationship between a gearset's output torque and its input torque. stosunek między wyjściowym momentem obrotowym a momentem wejściowym
- **two-stroke engine** [N-COUNT-U4] A **two-stroke engine** is an internal combustion engine that only requires one revolution of the crankshaft to complete a power cycle. silnik dwusuwowy
- two-stroke oil [N-UNCOUNT-U4] Two-stroke oil is an oil added to the fuel of a two-stroke engine to provide extra lubrication. olej do silników dwusuwowych
- valve [N-COUNT-U3] A valve is a device that controls the flow of fluid by opening and closing. zawór
- velocity ratio [N-COUNT-U7] A velocity ratio is the relationship between a gearset's output speed and its input speed. stosunek prędkości wejściowej do prędkości wyjściowej w przekładni obiegowej
- weld verification [N-UNCOUNT-U14] Weld verification is an NDT technique that is used to confirm the strength and integrity of a weld. badanie spoin (np. spawów)
- work [N-UNCOUNT-U1] Work is a quantity that indicates the transfer of energy, measured by multiplying force by the distance the energy travels. praca

- **work** [N-UNCOUNT-U1] **Work** is a quantity that indicates the transfer of energy, measured by multiplying force by the distance the energy travels. praca
- **work envelope** [N-COUNT-U11] A **work envelope** is the area that can be reached by a robot's end-effector. obszar zasięgu robota ?
- **yield** [N-COUNT-U13] A **yield**, also called a ductile failure, is a material failure in which some measure of bending or deformation occurs before breakage. uszkodzenie materiału ?