

OWECON

Optimum Web Control

OWECON – committed to high
quality and close cooperation



Our production processes are characterized by limited vertical integration. We increase our efficiency by cooperating closely with competent partners. Thus, we are able to continuously provide the latest and best technology to our customers. OWECON also cooperates in sales with selected partners which have a proven track record in handling complex issues.

Optimum Web Control

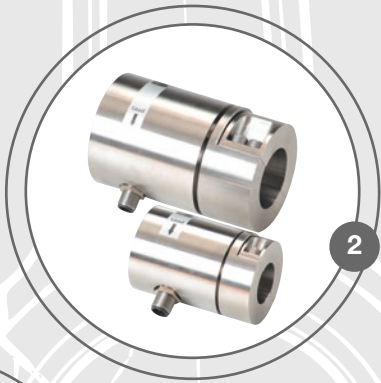
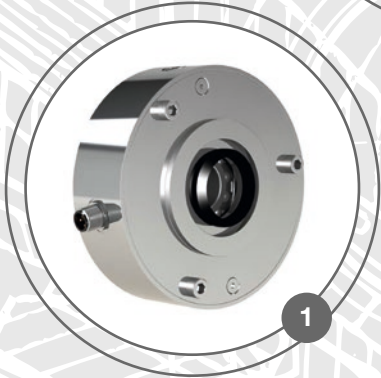
Only continuously perfect web tension will result in top-quality end products in the web processing industry: whether it is about film/foil, paper, paperboard or other material – OWECON stands for user-friendly technology and an excellent price/performance ratio; our extensive application know-how guarantees optimal solutions tailored to individual needs. The individual products complement each other and are also compatible with the products of other manufacturers.

OWECON is a modern manufacturing and engineering company which cooperates with selected suppliers all over the world. This enables OWECON to offer a wide range of world-class products, standard communication interfaces and services.

Product development is regarded as a dynamic process in which the special requirements of our customers, in addition to our existing product program, are considered to be an innovative challenge – each inquiry will be considered carefully. All product development tasks of OWECON are focused on performance, ease of use and compactness. For instance, we have developed very user-friendly drive systems with touch panel and teach function, to name just one example.

The entire team at OWECON has several years of experience in the industry. Due to the extensive expertise of its staff, OWECON is able to provide professional support to companies which aim at keeping their downtimes as low as possible, thus ensuring efficient production processes. The name OWECON stands for Optimum Web Control. Our product range and services are tailored to the needs of machine builders as well as to the needs of end users in the industry.





Load cells

Load cells of the OWL series of OWECON have recently been developed for state-of-the-art processing machines of the web processing industry. Their unique engineering guarantees a long service life. Customers may choose between different load ranges and sizes.

The compact, top-quality design is available in aluminum and stainless steel and can be installed rapidly and easily. The so-called “double bending beam principle” guarantees an accurate measuring result, high repeat accuracy as well as a long service life; overload protection ensures high operational reliability.

OWECON produces load cells, force measuring bearings and blocks for

- application in connection with stationary or rotating tension sensing rollers,
- installation of different pillow block bearings
- as well as for special models to measure the tension of wire, tape and thread.

1

Load Cell OWL100

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Load cells OWL200

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Load Cell OWL205T for wire and ribbon

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Load Cell OWL300 for Pillow blok

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Tension sensing roller OWL400 – cantilevered

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Tension sensing roller OWL4035N cantilevered for narrow web

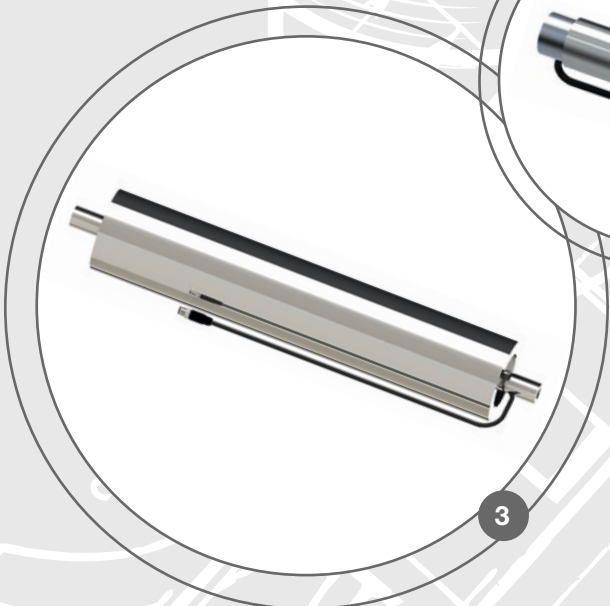
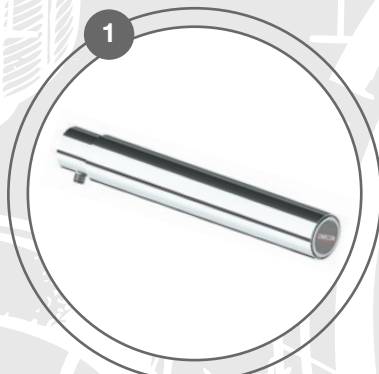
3

Tension sensing roller OWL500 – supported on both ends

Tension sensing rollers

Tension sensing rollers of OWECON can be installed rapidly and easily. The “double bending beam principle” guarantees an accurate measuring result, high repeat accuracy as well as a long service life; overload protection ensures high operational reliability.

Shafts made of stainless steel will be furnished with an aluminum roll body and low friction bearings and can be supplied with different roller surfaces such as non-stick coating, for instance. Excellent linearity and low hysteresis are characteristic features of the tension sensing rollers of OWECON. Customers may choose between different load ranges and sizes; special models are available upon request.



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Load cell controller OWC334

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Dancer controller OWC320

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Open loop controller OWC310 for laser, tilt and Ultrasonic sensor

4

Ultrasonic web tension controller OWC110

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Analog Amplifier module OWA124/134

6

Digital amplifier OWA200

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Pneumatic interface OWP200



2



3

Web tension control systems

OWECON developed several series of web tension controllers representing state-of-the-art technology, for instance a high-performance 32 bit web tension controller with casing or its panel-mount version (printed circuit board) or the ultrasonic web tension control system to control web tension by means of open loop controller.

Flexible and high-performance solutions for mechanical engineers and end users provide interfaces for easy integration into existing programmable logic controllers (PLC). Moreover, they comply with CE and UL standards. The web tension control technology is easy to operate by means of color screen with touch panel.

OWECON provides universal load cell amplifiers for all common load cells of the web processing industry. They enhance the load cell signal and visualize the web tension by means of a display or a connection to a drive system. The measuring bridge may also be supplied by means of constant current.

Pneumatic interfaces of OWECON control pneumatic brakes and clutches in a logical and accurate way. The output pressure can be read by means of I/P converter and integrated digital manometer; optional solenoid valves control individual friction modules at brakes and clutches. The interfaces can be used broadly, are easy to install, have very short response times and enable a high air flow rate.



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Drive system OWD300

Drive systems

OWECON is a renowned manufacturer of drive systems in the web processing industry. We developed digital drive systems representing state-of-the-art technology. These systems are very user-friendly due to the integrated touch panel and teach function. The flexible high-performance system for machine builders and end users provides interfaces for easy integration into existing programmable logic controllers (PLC) – our extensive application know-how guarantees optimal solutions

tailored to individual requirements. The drive systems are easy to operate by means of color screen and touch panel. AC standard motors or servomotors with power ratings from 0.55 to 35 kW drive unwind, rewind as well as nip/pull roll stations. Drive systems developed by OWECON stand for performance, ease of use and compactness.

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Brakes and clutches

Pneumatic single disc brakes, compact double disc brakes or caliper brakes – brakes and clutches of OWECON can be used within the scope of special and demanding applications to unwind various material due to their very high performance. They can be mounted to all common safety chucks and machines frames due to their special engineering, they possess excellent heat dissipation due to an integrated fan as well as a high braking torque.

Their compact, modular structure enables a large scope of application. They can easily be integrated into various unwinding systems. Installation as well as maintenance is user-friendly. Friction pads (Teflon, Kevlar, amongst others) will be available on request.

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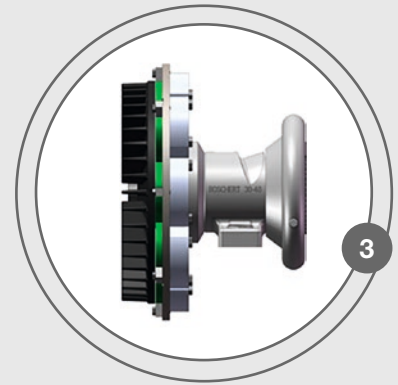


Safety chucks

Safety chucks supplied by OWECON are available as flange bearings and pillow block bearings (both also as sliding chucks) – as traditional normal bearings as well as with

replaceable wearing parts. The modular design is highly flexible: some measures can be selected freely, concrete requirements of customers will be implemented rapidly in an uncomplicated way; special solutions are available upon request.

Sliding chucks represent a simple and low-cost solution for axial adjustment of the roll. They provide an interesting application add-on compared to standard safety chucks.



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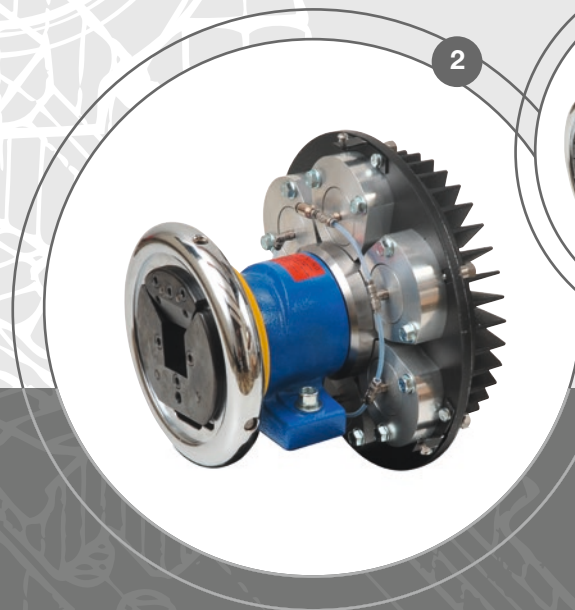
Safety chuck as pillow block with brake and cover

2

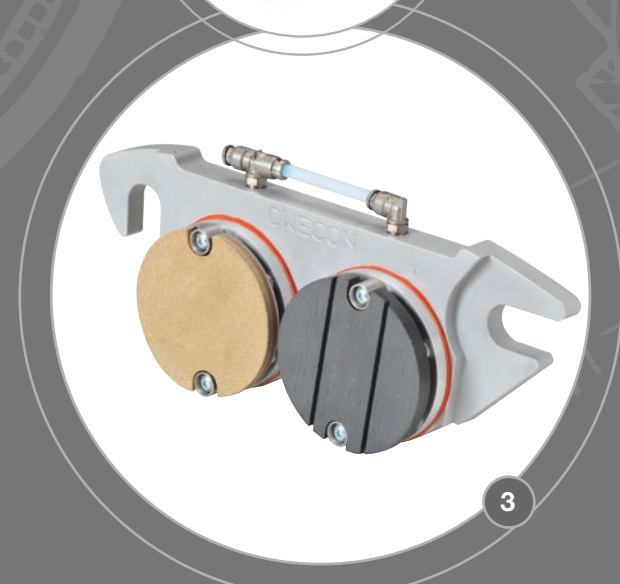
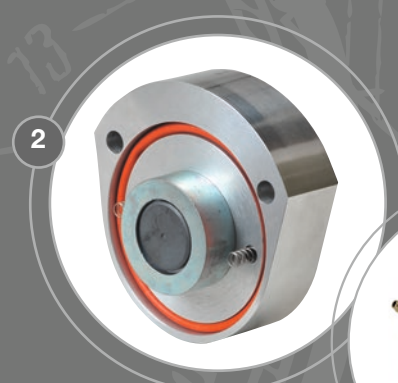
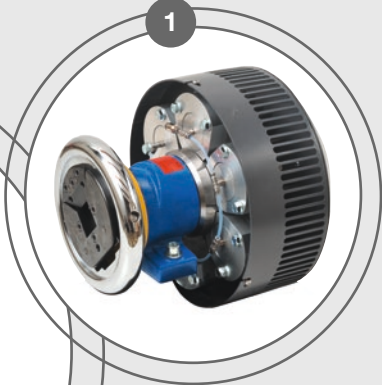
Safety chuck as pillow block with brake

3

Safety chuck with brake, side view



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Pneumatic clutches OWB142C and OWB186C

2

Friction module P1

3

Friction module T4

4

Friction module R1

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