

High speed Vacuum Capacitor drive systems Lifetime up to 100 million turns

Ultra Life

Increase the reliability and useful lifetime of your impedance matching network with the best choice of vacuum capacitors along with the latest drive system technology.

The expected lifetime of a vacuum capacitor is determined by the drive system and bellows design. Comet's field proven bellows has been recognized as the leading design for RF stability and lifetime. With the introduction of Ultra Life, the drive system components now last at least three times longer.

Avoid system breakdowns

Friction in the drive system may cause particle formations, increased torque, leading to binding and finally result in failure.

Comet Ultra Life drive systems increase capacitor and matching network lifetime by three or more times over existing products.

Comet improvements ensure trouble free operation and lifetime up to 100 million turns.

Benefits

- Designed for 1200 RPM for fast match tuning
- Lifetime up to
 100 million turns
- RoHS compliant
- Available for most Comet capacitors
- Customized types available





Comet high performance Vacuum Capacitors

Comet offers the broadest selection of capacitance, voltage and current combinations in the market. Our high performance vacuum capacitors are produced with the finest materials, fabrication processes and quality standards, to meet the needs of challenging semiconductor processes.

The optional Ultra Life drive system is available on request for most Comet vacuum capacitors traditionally used in semiconductor applications:

- Basic-Con
- Power-Con
- Hiper-Con

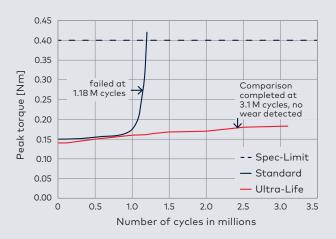
- Uni-Select
- Hexa-Con
- Supra-Con

- Uni-Con
- Maxi-Con



The results of specific life cycle tests with different drive-systems are available on request. Please contact your local Comet experts for more information.

Drive system lifetime comparison (Hexa-Con series)



Post test component comparison



Standard versionAfter 1.21 M cycles /
14.52 M turns



Ultra Life drive system After 3.1 M cycles / 37.2 M turns





Standard lead screw The screw still

The screw still functions but residue is clearly visible

Ultra Life lead screw

The screw is still in perfect condition visually and when tested with the go / no-go gauge

Switzerland (Head Office)

Comet AG Flamatt

Germany

YXLON International GmbH Aachen

United States

Comet Technologies USA, Inc. San Jose/CA

China

Comet Mechanical Equipment (Shanghai) Co. Ltd., Shanghai

Korea (South)

Comet Technologies Korea Co., Ltd., Suwon-si

Malaysia

Comet Technologies Malaysia Sdn Bhd, Penang

Taiwan

Comet Solutions Taiwan Ltd. Hsinchu

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Technical information can be found in Service Bulletin SB-56:

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