



# Uninterruptible motor drives for turbines – UMD



**KRAFT**

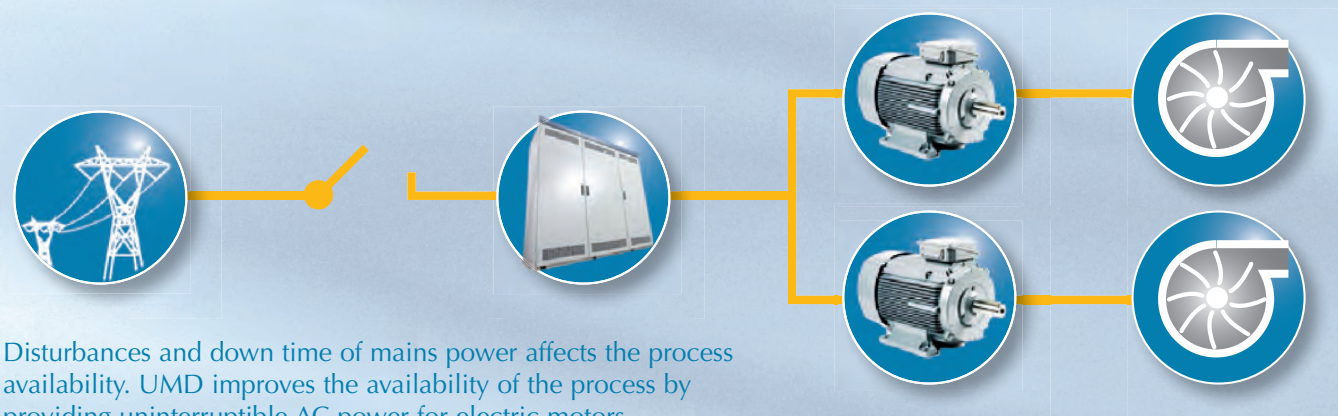
Reliable power supply – everywhere

# New standard for Uninterruptible Motor Drives – UMD



UMD provides uninterruptible power for standard 3-phase AC motors by built-in battery backup. The UMD is a pre-engineered system which saves space for easy installation and ready to use. Supplied as one complete MCC-unit, requires only one AC-feeder and contains the required numbers of drivers output.

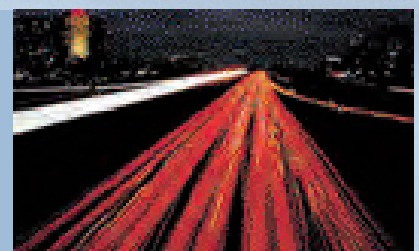
Built on well-proven VFD technology, a complete system including bus-bars, breakers and factory tested.



Disturbances and down time of mains power affects the process availability. UMD improves the availability of the process by providing uninterruptible AC power for electric motors.

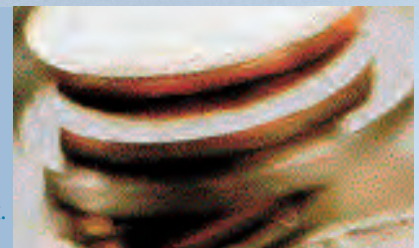
## 1. Availability

The UMD ensures continuous operation of the ordinary drive system and eliminates the need of a separate standby system. Consequently the UMD supplies full power all the time needed by the process. Transfer from mains supply to battery supply is seamless.



## 2. Cost efficiency

The UMD consists of standardized modules that reduce costs and facilitate engineering and purchasing work. The UMD shortens the lead time for system design, purchasing and installation. The need for maintenance is considerably reduced as a result of standardization and the elimination of redundant equipment.



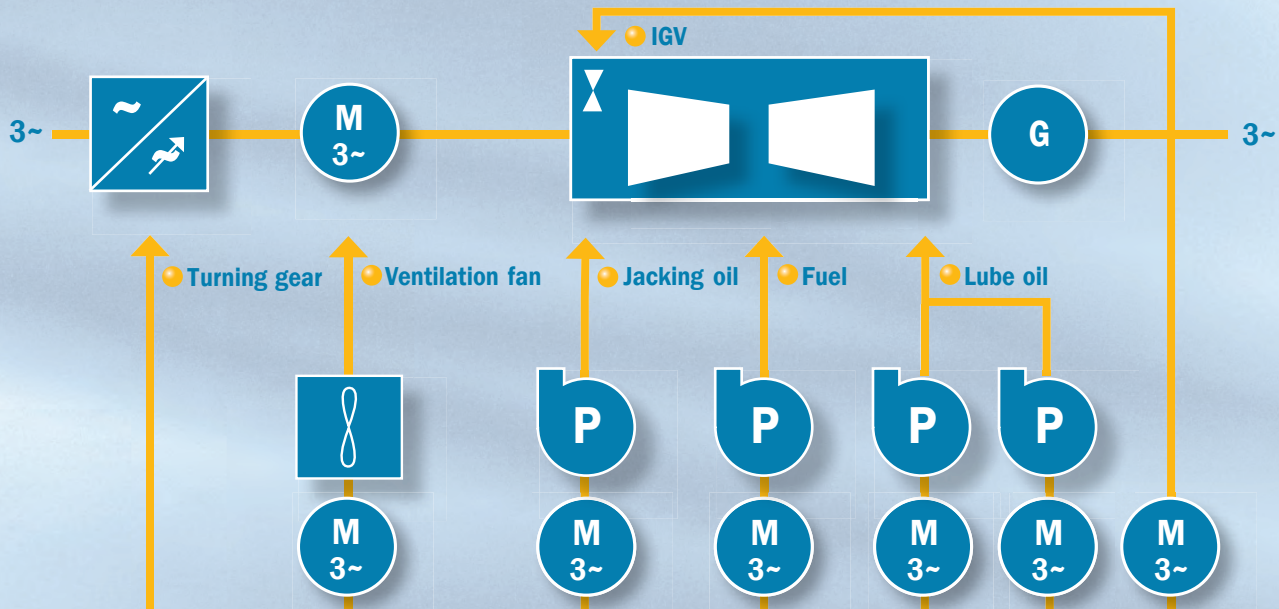
## 3. Professional assistance

Kraftelektronik is a solution provider with application knowledge, converter development, system design and a customer order driven manufacturing. Our engineered construction and joint product development is the keystone for building a profitable and long-term relationship with our partners.



## The UMD improves the availability of turbines and compressors

The mains disturbances and down time are eliminated by UMD which provides uninterruptible power to the critical drives. Typical loads are lube oil pumps, oil mist fan, turning gear with jacking oil, ventilation fan, servo drives and control equipment. Highest availability is achieved by multiple outputs for supplying redundant functions.



### Uninterruptible Motor Drive – UMD

## Product range of UMD

The UMD standard drive modules cover motor power from 2,2kW to 315kW. The complete package S400 and S400R includes a battery system and is supplied by AC-feeder as a complete MCC-unit. The converter series C100 and C200 are supplied by DC-feeder from an external battery system.

The UMD range has optional modules for auxiliary power to critical AC and DC loads. The pre-engineered UMD enclosure has options for a high degree of protection (IP54) including solutions for hazardous areas (Eex).

	DC/AC converter		AC/AC system	
Battery voltage	110/125/ 220VDC	220/440VDC	440VDC	
AC motor power				
2,2-30 kW, 3-40 Hp	C100	C200	S400	S400R
30-200 kW, 40-270 Hp				
200-220 kW, 270-430 Hp DC mode <60%, max 200kW				
Charging rectifier and battery	Option (seperate enclosure)		Standard	
AC-input	Option		Standard	
Optional auxiliary power				
DC-UPS 24VDC output	5 / 10/ 20 A		2,0 / 12 A	
AC-UPS output 3-ph TN 3X400/440-480V AC 50-60 Hz	1,5/5 kW		1,5 / 5 / 7,5 / 10 kW	
AC-UPS output 1-ph 120/230V AC 50-60 Hz	0,4 / 0,8 / 1,6 / 3,2 kW			

Motor voltage 3X380-415/440-480/600V AC 50-60 Hz



## Kraftelektronik – a powerful partner

For 75 years Kraftelektronik has been one of the leading manufacturers of static converters in demanding industrial applications. Our mission is to offer concepts and products that deliver unique customer value through practical solutions that secure high operational reliability for the end user. We are the preferred supplier of many leading industrial companies.

### **Kraftelektronik is organized into three business areas:**

**UPS systems division for failure-free power –** supplying systems to partners in the engineering industry as well as nuclear power plants, hydroelectric power stations and other companies that need failure-free power. The UMD product is found under this business area. Our customers include ABB, Alstom Power, GE Power Systems, Siemens, Fortum, EON and Vattenfall.

### **Power supplies for electrostatic precipitators –**

Kraftelektronik is a globally leading company having in-house development and manufacturing of high-voltage power supplies and controls for electrostatic precipitators. We work closely with our customers and have over 12000 successful installations in different application areas all over the world. We have delivered power supplies for electrostatic precipitators since 1955 and are regarded as a high-class reliable and capable partner. During the years we have established many long-term and stable business relationships.

**Power supplies for electrochemical processes –** supplying rectifiers for electrochemical processes, e.g. metal finishing, anodizing and PCB plating. Our customers demanding industrial companies, such as Bosch, BMW, SAAB, Volvo, British Aerospace, Motorola and Sanmina. Kraftelektronik creates customer benefit through offering smart functional solutions and reliable products.

Our solutions improve project efficiency for engineering companies and increase process productivity for production companies. This leads to higher efficiency, cost reductions and an overall improvement in the reliability of systems and projects for our clients.

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Kraftelektronik AB headquarters and main facility are located about 15 km north of Gothenburg, Sweden. The UPS systems division is located in Växjö, in southern Sweden. We also have sales and service offices in Portsmouth UK, Hong Kong and Shanghai. The company employs 100 people.



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