

YXLON SYSTEM	MG103/4.5	MG165/2.25	MG165/4.5	MG226/2.25	MG226/4.5
Max. Power:	4,500 W	2,250 W	4,500 W	2,250 W	4,500 W
High voltage:					
Adjustment range (four-digit LED display)	5-100 kV	7.5-160 kV	7.5-160 kV	10-225 kV	10-225 kV
Adjustment increments (minimum step)	0.1 kV / step				
Accuracy	± 1 % of demand value ± 0.1 kV				
Reproducibility	± 0.01 % of maximum kV-value at a constant temperature				
H.V. ripple (with 10 m H.V. cable)	5 V/mA, min. 15 V	5 V/mA, min. 20 V	5 V/mA, min. 20 V	5 V/mA, min. 20 V	5 V/mA, min. 20 V
Temperature induced drift with compensation*	80 ppm/°C based on demand value 40 ppm/°C based on demand value (on request 30 ppm/°C possible)				
Tube current:					
Adjustment range (four-digit LED display)	0.5-60 mA	0-22.5 mA	0-45 mA	0-15 mA	0-30 mA
Adjustment: Standard range	in 0.1 mA steps from 0.5 mA to maximum value	in 0.05 mA steps from 0.5 mA to maximum value	in 0.05 mA steps from 0.5 mA to maximum value	in 0.05 mA steps from 0.5 mA to maximum value	in 0.05 mA steps from 0.5 mA to maximum value
High resolution range (recommended)	not available	in 0.01 mA steps from 0.0 mA to maximum value	in 0.01 mA steps from 0.0 mA to maximum value	in 0.01 mA steps from 0.0 mA to maximum value	in 0.01 mA steps from 0.0 mA to maximum value
Accuracy (at constant temperature)	± 0.2 % of demand value ± 0.01 mA				
Reproducibility (at constant temperature)	± 2 µA				
Temperature drift	50 ppm/°C of demand value (on request: 30 ppm/°C possible)				
Focal spot selection:	Keypad selected: selection indicated by large and small symbols on display panel				
Individual components:					
Control unit: Dimensions (WxHxD); Weight	MGC41: 483 mm x 133 mm x 300 mm; 12.5 kg				
Power supply: Dimensions (WxHxD); Weight	MGP41: 340 mm x 350 mm x 628 mm; 45 kg	MGP40: 340 mm x 200 mm x 628 mm; 26 kg	MGP41: 340 mm x 350 mm x 628 mm; 45 kg	MGP40: 340 mm x 200 mm x 628 mm; 26 kg	MGP41: 340 mm x 350 mm x 628 mm; 45 kg
H.V. generator (oil insulated) Dimensions (WxHxD) Weight	MGG40: 375 mm x 335 mm x 625 mm 80 kg	MGG42: 375 mm x 335 mm x 625 mm 80 kg	MGG42: 375 mm x 335 mm x 625 mm 80 kg	MGG46: 514 mm x 364 mm x 624 mm 125 kg	MGG46: 514 mm x 364 mm x 624 mm 125 kg
Metal-ceramic tube head (recommended)	Y.TU/160-D02	Y.TU/160-D04	Y.TU/160-D02	Y.TU/225-D01	Y.TU/225-D02
Additional components	H.V. cable: standard: 5 m, optional 10 m / 15 m / 20 m · water flow valve/monitor (with 10 m cable) · coolant lines (specify length)				
Options	Water to air cooler, water to water cooler, cooling block 50/60 Hz, all single-ended X-ray tubes				
*optional					

Operation

Constant potential with Isowatt-feature – fully automated monitoring of power limits and tube head specifications

Menu-driven system information input

- Language selection: English, German, French, Spanish
- Serial interface
- Prewarning time
- Hour counter
- History register (last 99 cycles)
- Tube head selection
- Display contrast
- Service menu

Mains supply (single-phase)

- 230 V +10%-15%, 50/60 Hz
- Protection MGP 40: 25 A
- Protection MGP 41: 50 A

Exposure timer (four-digit LED display)

- Input range
- Special ∞ setting for radiosopic application
 - In 1 second steps up to 10 minutes
 - In 10 second steps up to 99 minutes and 50 seconds

Pre-warning

- Adjustable from 1 to 30 seconds
- Menu-driven selection
- Input through touch keypad

Tube head selection

- Menu-driven through keypad entry (see above for recommended tube head)

Programmed operation

- 100 technique capacity (kV, mA, time, focal spot, programmable through numeric keypad)
- 3-level program for automated tube conditioning

Environment

- Duty cycle: 100 % at +40 °C max. ambient temperature in non-convective air
- Operation temperature: 0 °C to +40 °C, relative humidity 90 % at +40 °C, non-condensing
- Storage temperature: -25 °C to +70 °C, relative humidity 95 % at +40 °C, non-condensing

Compliance

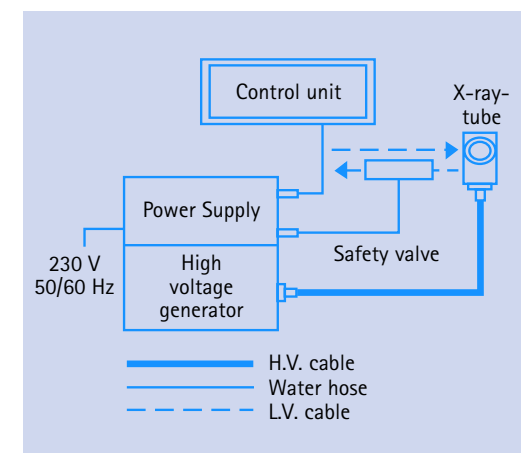
YXLON International products are manufactured according to strict safety and quality standards and in compliance with the following standards:

- DIN 54113 (radiation shielding and safety circuits)
- EN 12543 (focal spot measurement standards)
- German radiation regulations of 2002
- DIN EN 60204/DIN EN 50178
- EN 50082-2/EN 55011
- USA: 21 CFR § 1020.40
47 CFR § 15 (FCC)

The quality management system of YXLON International X-Ray GmbH is certified to DIN EN ISO 9001.

Additional components

- RS232C serial port for MGC41
- MGC41 PC-Software
- Mobile tripod
- Beam centering device
- Tube mount
- Additional options available on request



Block diagram of unipolar stationary systems