

## High-Frequency X-Ray Generator

# GENESIS DT



| Type and Model<br>Fluoroscopy: "F" is added<br>HSS: "H" is added | GENESIS 30 DT                             |                | GENESIS 40 DT |                               | GENESIS 50 DT |                                     | GENESIS 65 DT                 |                   | GENESIS 80 DTH |                               |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
|------------------------------------------------------------------|-------------------------------------------|----------------|---------------|-------------------------------|---------------|-------------------------------------|-------------------------------|-------------------|----------------|-------------------------------|-------------------------------------|------------------------------------------------|-------------------------------|--|--|-------------------------------------|--|--|--|--|--|--|
| Power                                                            | 30 kW                                     |                | 40 kW         |                               | 50 kW         |                                     | 65 kW                         |                   | 80 kW          |                               |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
| Highspeed Starter (HSS)                                          | No                                        |                | No            |                               | No            |                                     | Optional                      |                   | Yes            |                               |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
| mA/kW at                                                         | 50 kV                                     | 400 mA / 20 kW |               | 650 mA / 32.5 kW              |               | 650 mA / 32.5 kW                    |                               | 800 mA / 40 kW    |                | 800 mA / 40 kW                |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  | 75 kV                                     | 400 mA / 30 kW |               | 650 mA / 48.75 kW             |               | 650 mA / 48.75 kW                   |                               | 800 mA / 60 kW    |                | 800 mA / 60 kW                |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  | 100 kV                                    | 300 mA / 30 kW |               | 400 mA / 40 kW                |               | 500 mA / 50 kW                      |                               | 650 mA / 65 kW    |                | 800 mA / 80 kW                |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  | 125 kV                                    | 250 mA / 30 kW |               | 300 mA / 37.5 kW              |               | 400 mA / 50 kW                      |                               | 500 mA / 62.50 kW |                | 600 mA / 75 kW                |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  | 150 kV                                    | 200 mA / 30 kW |               | 250 mA / 37.5 kW              |               | 300 mA / 45 kW                      |                               | 400 mA / 60 kW    |                | 450 mA / 67.5 kW              |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
| Inverter frequency                                               | 120 kHz                                   |                |               |                               |               |                                     |                               |                   |                |                               |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
| kV – voltage range<br>in steps of                                | 40 ... 125 kV (150kV as an option)<br>1kV |                |               |                               |               |                                     |                               |                   |                |                               |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
| mA – current range<br>in steps of                                | 0.5 ... 650 mA                            |                |               |                               |               |                                     |                               |                   |                |                               |                                     | 0.5 ... 800 mA                                 |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  | Range 0.5 ... 10mA / 0.5mA Step           |                |               |                               |               |                                     |                               |                   |                |                               | Range 0.5 ... 10mA / 0.5mA Step     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  | Range 10.0 ... 100mA / 1.0mA Step         |                |               |                               |               |                                     |                               |                   |                |                               | Range 10.0 ... 100mA / 1.0mA Step   |                                                |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  | Range 100.0 ... 500mA / 1.0mA Step        |                |               |                               |               |                                     |                               |                   |                |                               | Range 100.0 ... 500mA / 1.0mA Step  |                                                |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  | Range 500.0 ... 600mA / 10.0mA Step       |                |               |                               |               |                                     |                               |                   |                |                               | Range 500.0 ... 800mA / 10.0mA Step |                                                |                               |  |  |                                     |  |  |  |  |  |  |
| ms – exposure time<br>in steps of                                |                                           |                |               |                               |               |                                     |                               |                   |                |                               |                                     | 1ms ... 6.3 s                                  |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  |                                           |                |               |                               |               | Range 1 ... 100ms / 1ms Step        |                               |                   |                |                               |                                     |                                                |                               |  |  | Range 1 ... 100ms / 1ms Step        |  |  |  |  |  |  |
|                                                                  |                                           |                |               |                               |               | Range 100 ... 500ms / 5ms Step      |                               |                   |                |                               |                                     |                                                |                               |  |  | Range 100 ... 500ms / 5ms Step      |  |  |  |  |  |  |
|                                                                  |                                           |                |               |                               |               | Range 500 ... 1000ms / 10ms Step    |                               |                   |                |                               |                                     |                                                |                               |  |  | Range 500 ... 1000ms / 10ms Step    |  |  |  |  |  |  |
|                                                                  |                                           |                |               |                               |               | Range 1000 ... 6300ms / 50ms Step   |                               |                   |                |                               |                                     |                                                |                               |  |  | Range 1000 ... 6300ms / 50ms Step   |  |  |  |  |  |  |
| mAs – area dose<br>in steps of                                   |                                           |                |               |                               |               |                                     |                               |                   |                |                               |                                     | 0.5 ... 600 mAs                                |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  |                                           |                |               |                               |               | Range 0.5 ... 10mAs / 0.5mAs Step   |                               |                   |                |                               |                                     |                                                |                               |  |  | Range 0.5 ... 10mAs / 0.5mAs Step   |  |  |  |  |  |  |
|                                                                  |                                           |                |               |                               |               | Range 10 ... 100mAs / 1.0mAs Step   |                               |                   |                |                               |                                     |                                                |                               |  |  | Range 10 ... 100mAs / 1.0mAs Step   |  |  |  |  |  |  |
|                                                                  |                                           |                |               |                               |               | Range 100 ... 500mAs / 5.0mAs Step  |                               |                   |                |                               |                                     |                                                |                               |  |  | Range 100 ... 500mAs / 5.0mAs Step  |  |  |  |  |  |  |
|                                                                  |                                           |                |               |                               |               | Range 500 ... 600mAs / 10.0mAs Step |                               |                   |                |                               |                                     |                                                |                               |  |  | Range 500 ... 600mAs / 10.0mAs Step |  |  |  |  |  |  |
| kV – with fluoroscopy<br>in steps of                             |                                           |                |               |                               |               |                                     |                               |                   |                |                               |                                     | 40 .... 120 kV<br>1kV                          |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  |                                           |                |               |                               |               |                                     |                               |                   |                |                               |                                     |                                                |                               |  |  |                                     |  |  |  |  |  |  |
| mA – with fluoroscopy                                            |                                           |                |               |                               |               |                                     |                               |                   |                |                               |                                     | normal<br>High current<br>pulsed               |                               |  |  |                                     |  |  |  |  |  |  |
|                                                                  |                                           |                |               |                               |               |                                     |                               |                   |                |                               |                                     | 1 - 5 mA<br>5 - 20 mA<br>10 - 200 mA           |                               |  |  |                                     |  |  |  |  |  |  |
| Imaging sequence<br>(max. pulses/sec.)                           |                                           |                |               |                               |               |                                     |                               |                   |                |                               |                                     | 30                                             |                               |  |  |                                     |  |  |  |  |  |  |
| Power supply<br>Frequency<br>Phase number                        |                                           |                |               |                               |               |                                     |                               |                   |                |                               |                                     | 3 x 400 VAC<br>50/60 Hz<br>3LNPE (symmetrical) |                               |  |  |                                     |  |  |  |  |  |  |
| Fuses                                                            | 3 x 30 A <sub>slow-blow</sub>             |                |               | 3 x 35 A <sub>slow-blow</sub> |               |                                     | 3 x 40 A <sub>slow-blow</sub> |                   |                | 3 x 50 A <sub>slow-blow</sub> |                                     |                                                | 3 x 63 A <sub>slow-blow</sub> |  |  |                                     |  |  |  |  |  |  |
| Peak current (full load)                                         | 65 A <sub>peak</sub>                      |                |               | 85 A <sub>peak</sub>          |               |                                     | 105 A <sub>peak</sub>         |                   |                | 136 A <sub>peak</sub>         |                                     |                                                | 168 A <sub>peak</sub>         |  |  |                                     |  |  |  |  |  |  |
| Nominal connection value                                         | 21 kVA                                    |                |               | 24 kVA                        |               |                                     | 28 kVA                        |                   |                | 35 kVA                        |                                     |                                                | 44 kVA                        |  |  |                                     |  |  |  |  |  |  |
| Resistance per phase                                             | 0.35 Ω max.                               |                |               | 0.27 Ω max.                   |               |                                     | 0.22 Ω max.                   |                   |                | 0.17 Ω max.                   |                                     |                                                | 0.14 Ω max.                   |  |  |                                     |  |  |  |  |  |  |



|              | Weight |
|--------------|--------|
| Generator    | 89 kg  |
| User Console | 3.5 kg |