

TUBEHEADS.

Monopolar tubeheads for Balteau generators and OEM systems

Monopolar tubes are giving the user the required flexibility for fixed or mobile installations. These tubes are made out of an insert into a shielded housing with a ceramic HV cone to connect the generator.

Inside the housing the cooling circuit is made of a serpentine tube in which the coolant fluid (water and eventual additive for cold countries) which will remove calories at the very heart of the anode. This ensures a very good and efficient protection of the anode and the target improving also the lifetime of the tube. Connections are quick connectors with direction identification.

The HV connection end can be equipped with a fixed or a quick flange allowing a quick tube change when more than one irradiation techniques are used in the same application.

PANORAMIC TUBEHEADS

TSC200

- Max. high voltage: **200 kV**
- Max current: **10 mA**
- Nominal power: **600 W**
- Focal spot size*: **4 x 0,4**
- Anode cooling type: **Water**
- Weight: **13 kg**



TSC160

- Max. high voltage: **160 kV**
- Max current: **12 mA**
- Nominal power: **1000 W**
- Focal spot size*: **4 x 0,4**
- Anode cooling type: **Water**
- Weight: **8 kg**



DIRECTIONAL TUBEHEADS

TSD225-0

	S. focal	L. focal
• Max. high voltage:	225 kV	225 kV
• Max current:	15 mA	30 mA
• Nominal power:	640 W	3000 W
• Focal spot size*:	1	5,5
• Anode cooling type:	Water	Water
• Weight:	13 kg	13 kg

TSD225-1

	S. focal	L. focal
• Max. high voltage:	225 kV	225 kV
• Max current:	15 mA	30 mA
• Nominal power:	640 W	1600 W
• Focal spot size*:	1	3
• Anode cooling type:	Water	Water
• Weight:	11 kg	11 kg

TSD225-3

	S. focal	L. focal
• Max. high voltage:	225 kV	225 kV
• Max current:	14,5 mA	30 mA
• Nominal power:	800 W	1800 W
• Focal spot size*:	0,4**	1
• Anode cooling type:	Water	Water
• Weight:	11 kg	11 kg



TSD160-0

	S. focal	L. focal
• Max. high voltage:	160 kV	160 kV
• Max current:	15 mA	40 mA
• Nominal power:	640 W	3000 W
• Focal spot size*:	1	5,5
• Anode cooling type:	Water	Water
• Weight:	8 kg	8 kg

TSD160-1

	S. focal	L. focal
• Max. high voltage:	160 kV	160 kV
• Max current:	15 mA	40 mA
• Nominal power:	640 W	1600 W
• Focal spot size*:	1	3
• Anode cooling type:	Water	Water
• Weight:	8 kg	8 kg

TSD160-3

	S. focal	L. focal
• Max. high voltage:	160 kV	160 kV
• Max current:	15 mA	15 mA
• Nominal power:	640 W	640 W
• Focal spot size*:	1	1
• Anode cooling type:	Water	Water
• Weight:	8 kg	8 kg

TSD160-5

	S. focal	L. focal
• Max. high voltage:	160 kV	160 kV
• Max current:	20 mA	40 mA
• Nominal power:	800 W	1800 W
• Focal spot size*:	0,4**	1
• Anode cooling type:	Water	Water
• Weight:	8 kg	8 kg



TSD100-1

	S. focal	L. focal
• Max. high voltage:	100 kV	100 kV
• Max current:	24 mA	24 mA
• Nominal power:	1000 W	1000 W
• Focal spot size*:	3	3
• Anode cooling type:	Water	Water
• Weight:	3,5 kg	3,5 kg



* Measurement method of focal spot size EN12543

** 30% Threshold

TUBEHEADS.

Bipolar tubeheads for Balteau generators and OEM systems

When HV increases, the dielectric strength of even advanced materials is very often not sufficient to provide a good electrical insulation. This is the basic reason for building Bipolar tubes when more than 225kV is expected. These tubes are easily recognizable by the fact that two HV ends are present with a specific Anodic and Cathodic identification. Due to the high difference of potential, the cooling media is always dielectric oil.

Balteau is also proposing a wide variety of robust and handfull stands and holders to carry these tubes that are heavy and therefore sometimes hard to handle manually. See our specialists.

DIRECTIONAL TUBEHEADS



TSD450-0C

	S. focal	L. focal
• Max. high voltage:	450 kV	450 kV
• Max current:	20 mA	30 mA
• Nominal power:	1500 W	4500 W
• Focal spot size*:	2,5	5,5
• Anode cooling type:	Oil	Oil
• Weight:	116 kg	116 kg

TSD450-0

	S. focal	L. focal
• Max. high voltage:	450 kV	450 kV
• Max current:	10 mA	24 mA
• Nominal power:	900 W	4500 W
• Focal spot size*:	2,5	5,5
• Anode cooling type:	Oil	Oil
• Weight:	95 kg	95 kg

TSD450-2

	S. focal	L. focal
• Max. high voltage:	450 kV	450 kV
• Max current:	6 mA	14 mA
• Nominal power:	700 W	1500 W
• Focal spot size*:	0,4**	1
• Anode cooling type:	Oil	Oil
• Weight:	95 kg	95 kg



TSD420-0A

	S. focal	L. focal
• Max. high voltage:	420 kV	420 kV
• Max current:	10 mA	30 mA
• Nominal power:	900 W	4500 W
• Focal spot size*:	2,5	5,5
• Anode cooling type:	Oil	Oil
• Weight:	95 kg	95 kg

* Measurement method of focal spot size EN12543

** 25% Threshold



TSD320-0

	S. focal	L. focal
• Max. high voltage:	320 kV	320 kV
• Max current:	15 mA	30 mA
• Nominal power:	1500 W	4200 W
• Focal spot size*:	3	5,5
• Anode cooling type:	Oil	Oil
• Weight:	41 kg	41 kg

TSD320-2

	S. focal	L. focal
• Max. high voltage:	320 kV	320 kV
• Max current:	9 mA	20 mA
• Nominal power:	640 W	1600 W
• Focal spot size*:	1,9	3,6
• Anode cooling type:	Oil	Oil
• Weight:	40 kg	40 kg

TSD320-3

	S. focal	L. focal
• Max. high voltage:	320 kV	320 kV
• Max current:	11 mA	25 mA
• Nominal power:	800 W	1800 W
• Focal spot size*:	0,4**	1
• Anode cooling type:	Oil	Oil
• Weight:	40 kg	40 kg

TSD320-5

	S. focal	L. focal
• Max. high voltage:	320 kV	320 kV
• Max current:	15 mA	35 mA
• Nominal power:	1500 W	4200 W
• Focal spot size*:	3	5,5
• Anode cooling type:	Oil	Oil
• Weight:	40 kg	40 kg

YOU DIDN'T FIND WHAT YOU WERE LOOKING FOR ?...

ONLY A FEW OF OUR AVAILABLE TUBEHEADS ARE PRESENT IN THIS BROCHURE, WE MAY ALREADY HAVE WHAT YOU REQUIRE. AND IF WE DON'T HAVE IT, WE HAVE THE ABILITY TO DESIGN IT FOR YOU ACCORDING TO YOUR OWN TECHNICAL REQUIREMENT.

DO NOT HESITATE AND CONTACT US NOW TO SALES@BALTEAU-NDT.COM