



艾瑞特电气

X-Ray Technology

美国瓦里安工业X射线管

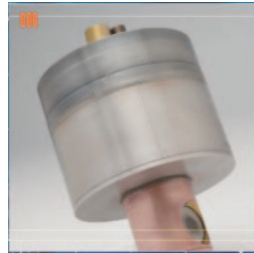
Varian Industrial X-Ray Tube

VARIAN
medical systems
美国瓦里安公司

- NDI Series
- HPX Series

应用范围:

- 无损检测;
- X射线检查;
- X射线安检;
- 化学分析;
- 厚度测量;



Application:

- Non-Destructive Testing.
- X-ray Inspection.
- X-Ray Baggage Screening.
- Chemical Analysis.
- Thickness Gauging.



丹东艾瑞特电气有限公司

Dandong X-Ray Technology Co., Ltd

瓦里安的金属陶瓷单极和双极型X射线管

Metal Ceramic Unipolar And Bipolar X-Ray Tubes

工业X射线管

瓦里安的金属陶瓷单极和双极型X射线管是专为工业应用所设计，包括：无损检测，厚度测量和食品检查。除了工业应用，瓦里安还提供安全应用的定制设计。

瓦里安提供的不同焦点和靶角的金属陶瓷X射线管，旨在满足即使是最苛刻应用。瓦里安的NDI的产品系列，采用100KV-450kV水冷单极设计和油冷双极设计。

Industrial X-ray Tubes

Varian's line of metal ceramic unipolar and bipolar x-ray tubes are designed for use in industrial applications including: Non-Destructive Testing, Thickness Gauging and Food Inspection. In addition to industrial applications Varian also provides custom designs for Security applications.

Varian is pleased to offer a full range of metal ceramic x-ray tubes with various focal spot and target angle combinations that are designed to meet even the most demanding applications. Our NDI product range features both water-cooled unipolar designs along with oil cooled bipolar designs from 100kV up to 450kV.



NDI 160/20, NDI 160/21,
NDI 160/22, NDI 161,
NDI 225/20, NDI 225/21,
NDI 225/22, NDI 226,
NDI 225 FB



NDI 320/23, NDI 320/26,
NDI 321, NDI 350/23,
NDI 350/26, NDI 322



HPX 160/20, HPX 160/11,
HPX 225/11, HPX 225/20,
HPX 320/11, HPX 350/11,
HPX 420/11, HPX 450/11



NDI 420, NDI 451, NDI 452

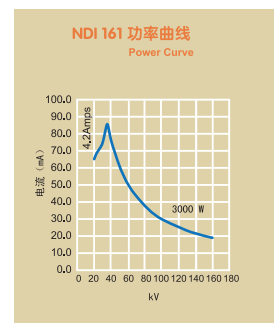
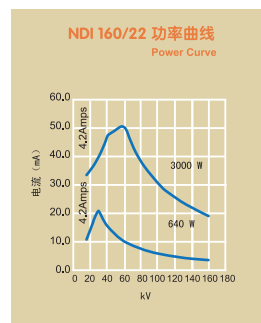
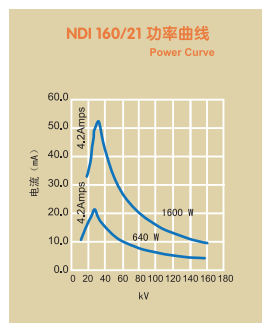
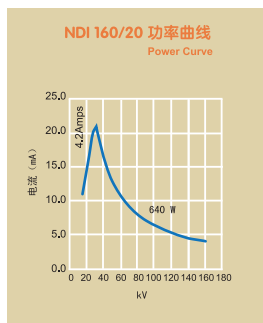
单极X射线管

Unipolar X-ray Tubes



- 额定电压 Nominal Voltage
- 连续功率 Continuous Rating
- 小焦点 Small Focus
- 大焦点 Large Focus
- 靶材料 Target Material
- 靶角 Target Angle
- 辐射角 Coverage
- 最大mA @最大KV Maximum mA@ max kV
- 小焦点 Small Focus
- 大焦点 Large Focus
- 固有滤波 Filtration
- 焦点尺寸 Focal Spot Size
- EN 12543 EN 12543
- IEC 336 Nominal
- 灯丝电流 Filament Current
- 小焦点 (最大) Small Max
- 大焦点 (最大) Large Max
- 冷却介质 Cooling Medium
- 冷却流量 (最小) Cooling Flow, Min
- 重量 Weight
- 公斤 Kg
- 电缆类型 Socket Type

NDI 160/20	NDI 160/21	NDI 160/22	NDI 161
160kV	160kV	160kV	160kV
640 W	640 W	640 W	
640 W	1600 W	3000 W	3000 W
Tungsten	Tungsten	Tungsten	Tungsten
20°	20°	20°	30°
40°	40°	40°	40°
4.0mA	4.0mA	4.0mA	
4.0mA	10mA	19mA	19mA
0.8mm Be	0.8mm Be	0.8mm Be	0.8mm Be
1.0 × 1.0mm	1.0 × 3.0mm	1.0 × 5.5mm	7.5mm
0.4 × 0.4mm	0.4 × 1.5mm	0.4 × 3.0mm	
4.1 A	4.1A	4.1A	
4.1 A	4.2 A	4.2 A	4.2 A
Water	Water	Water	Water
4 L/min	4 L/min	4 L/min	4 L/min
8kg	8kg	8kg	8kg
R24	R24	R24	R24



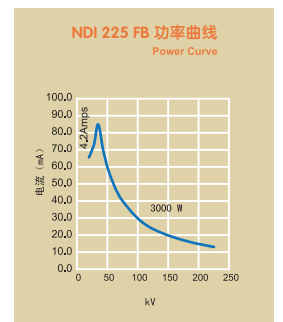
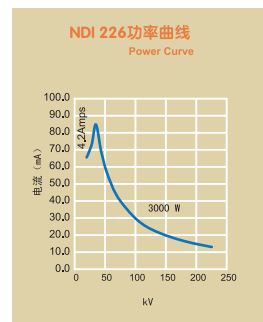
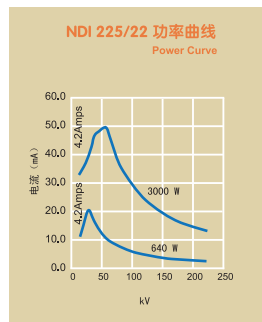
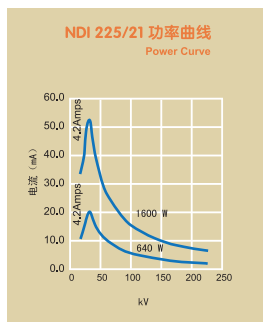
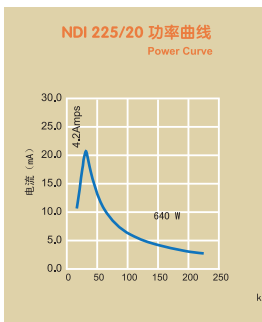
单极X射线管

Unipolar X-ray Tubes



- 额定电压 **Nominal Voltage**
- 连续功率 **Continuous Rating**
- 小焦点 **Small Focus**
- 大焦点 **Large Focus**
- 靶材料 **Target Material**
- 靶角 **Target Angle**
- 辐射角 **Coverage**
- 最大mA @最大KV **Maximum mA@ max kV**
- 小焦点 **Small Focus**
- 大焦点 **Large Focus**
- 固有滤波 **Filtration**
- 焦点尺寸 **Focal Spot Size**
- EN 12543 **EN 12543**
- IEC 336 **Nominal**
- 灯丝电流 **Filament Current**
- 小焦点 (最大) **Small Max**
- 大焦点 (最大) **Large Max**
- 冷却介质 **Cooling Medium**
- 冷却流量 (最小) **Cooling Flow, Min**
- 重量 **Weight**
- 公斤 **Kg**
- 电缆类型 **Socket Type**

NDI 225/20	NDI 225/21	NDI 225/22	NDI 226	NDI 225 FB
225kV	225kV	225kV	225kV	225kV
640 W	640 W	640 W		
640 W	1600 W	3000 W	3000 W	3000 W
Tungsten	Tungsten	Tungsten	Tungsten	Tungsten
20°	20°	20°	30°	30°
40°	40°	40°	40°	90°
2.5mA	2.5mA	2.5mA		
2.5mA	7mA	13mA	13mA	13mA
0.8mm Be	0.8mm Be	0.8mm Be	0.8mm Be	1.0mm Cu
1.0 × 1.0mm	1.0 × 3.0mm	1.0 × 5.5mm	7.5mm	7.5mm
0.4 × 0.4mm	0.4 × 1.5mm	0.4 × 3.0mm		
4.1 A	4.1 A	4.1 A		
4.1 A	4.2 A	4.2 A	4.2 A	4.2 A
Water	Water	Water	Water	Water
4 L/min	4 L/min	4 L/min	4 L/min	4 L/min
11kg	11kg	11kg	11 kg	11kg
R24	R24	R24	R24	R24



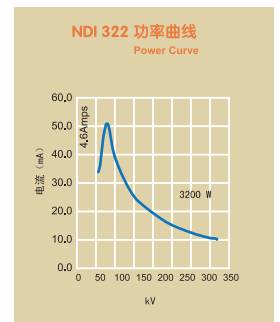
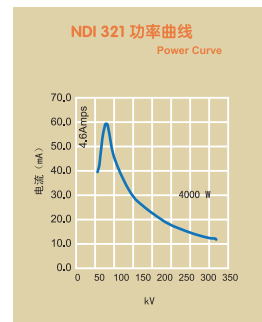
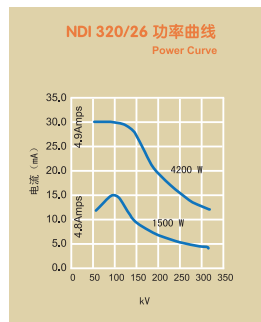
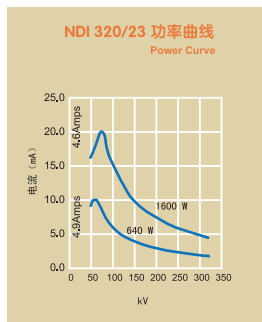
双极X射线管

Bipolar X-ray Tubes



- 额定电压 **Nominal Voltage**
- 连续功率 **Continuous Rating**
- 小焦点 **Small Focus**
- 大焦点 **Large Focus**
- 靶材料 **Target Material**
- 靶角 **Target Angle**
- 辐射角 **Coverage**
- 最大mA @最大KV **Maximum mA@ max kV**
- 小焦点 **Small Focus**
- 大焦点 **Large Focus**
- 固有滤波 **Filtration**
- 焦点尺寸 **Focal Spot Size**
- EN 12543 **EN 12543**
- IEC 336 **Nominal**
- 灯丝电流 **Filament Current**
- 小焦点 (最大) **Small Max**
- 大焦点 (最大) **Large Max**
- 冷却介质 **Cooling Medium**
- 冷却流量 (最小) **Cooling Flow, Min**
- 重量 **Weight**
- 公斤 **Kg**
- 电缆类型 **Socket Type**

NDI 320/23	NDI 320/26	NDI 321	NDI 322
320kV	320kV	320kV	320kV
640 W	1500 W		
1600 W	4200 W	4000 W	3200 W
Tungsten	Tungsten	Tungsten	Tungsten
20°	20°	30°	20°
40°	40°	40°	80°x 8°
2mA	5mA		
5mA	13mA	12.5mA	10mA
3.0mm Be	3.0mm Be	3.0mm Be	0.2 Cu + 0.4 Fe
1.9 × 3.6mm	3.0 × 5.5mm	8.0mm	4.5mm
0.8 × 1.8mm	1.5 × 4.0mm		
4.9 A	4.9 A		
4.6 A	4.6 A	4.6 A	4.6 A
Oil	Oil	Oil	Oil
14L/min	14 L/min	14 L/min	14 L/min
40kg	40kg	40kg	40kg
R24	R24	R24	R24



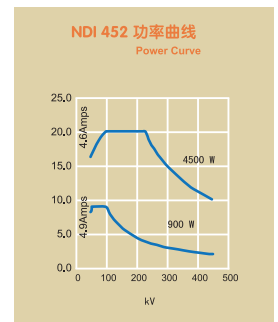
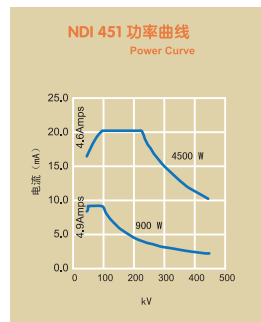
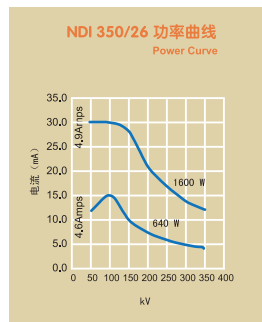
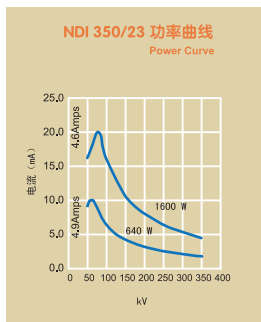
双极X射线管

Bipolar X-ray Tubes



- 额定电压 **Nominal Voltage**
- 连续功率 **Continuous Rating**
- 小焦点 **Small Focus**
- 大焦点 **Large Focus**
- 靶材料 **Target Material**
- 靶角 **Target Angle**
- 辐射角 **Coverage**
- 最大mA @最大KV **Maximum mA@ max kV**
- 小焦点 **Small Focus**
- 大焦点 **Large Focus**
- 固有滤波 **Filtration**
- 焦点尺寸 **Focal Spot Size**
- EN 12543 **EN 12543**
- IEC 336 **Nominal**
- 灯丝电流 **Filament Current**
- 小焦点 (最大) **Small Max**
- 大焦点 (最大) **Large Max**
- 冷却介质 **Cooling Medium**
- 冷却流量 (最小) **Cooling Flow, Min**
- 重量 **Weight**
- 公斤 **Kg**
- 电缆类型 **Socket Type**

NDI 350/23	NDI 350/26	NDI 451	NDI 452
350kV	350kV	450kV	450kV
640 W	1500 W	900 W	900 W
1600 W	4200 W	4500 W	4500 W
Tungsten	Tungsten	Tungsten	Tungsten
20°	20°	30°	30°
40°	40°	40°	90° x 20°
1.8mA		2mA	2mA
4.6mA	4.3mA	10mA	10mA
3.0mm Be	3.0mm Be	5 Fe + 1.0 Cu	2.3 Fe + 1.0 Cu
1.9 × 3.6mm	3.0 × 5.5mm	2.5 × 5.5mm	2.5 × 5.5mm
0.8 × 1.8mm	1.5 × 4.0mm	1.5 × 4.0mm	1.5 × 4.0mm
4.9 A	4.9 A	4.9 A	4.9 A
4.6 A	4.6 A	4.6 A	4.6 A
Oil	Oil	Oil	Oil
14 L/min	14 L/min	14 L/min	14 L/min
40kg	40kg	95kg	95kg
R24	R24	R28	R28



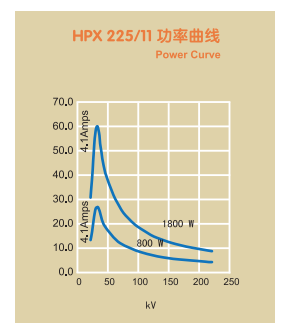
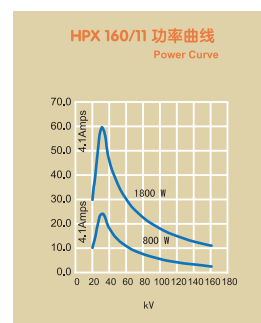
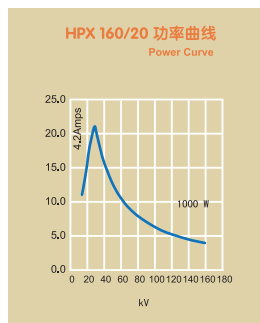
HPX 系列X射线管

HPX Series X-ray Tubes



- 额定电压 Nominal Voltage
- 连续功率 Continuous Rating
- 小焦点 Small Focus
- 大焦点 Large Focus
- 靶材料 Target Material
- 靶角 Target Angle
- 辐射角 Coverage
- 最大mA @最大KV Maximum mA@ max kV
- 小焦点 Small Focus
- 大焦点 Large Focus
- 固有滤波 Filtration
- 焦点尺寸 Focal Spot Size
- EN 12543 EN 12543
- IEC 336 Nominal
- 灯丝电流 Filament Current
- 小焦点 (最大) Small Max
- 大焦点 (最大) Large Max
- 冷却介质 Cooling Medium
- 冷却流量 (最小) Cooling Flow, Min
- 重量 Weight
- 公斤 Kg
- 电缆类型 Socket Type

HPX 160/20	HPX 160/11	HPX 225/11	HPX 225/20
160kV	160kV	225 kV	225 kV
1000 W	800 W	800 W	1000 W
1000 W	1800 W	1800 W	1000 W
Tungsten	Tungsten	Tungsten	Tungsten
20°	11°	11°	20°
40°	40° x 30°	40° x 30°	40°
6.25 mA	5.0 mA	3.5 mA	4.4 mA
6.25 mA	11.25 mA	8.0 mA	4.4 mA
0.8 mm Be	0.8 mm Be	0.8 mm Be	0.8 mm Be
1.0 × 1.0 mm	0.4 × 1.0 mm	0.4 × 1.0 mm	1.0 × 1.0 mm
4.1 A	4.1 A	4.1 A	4.1 A
4.1 A	4.1 A	4.1 A	4.1 A
Water	Water	Water	Water
4 L/min	4 L/min	4 L/min	4 L/min
8 kg	8 kg	11 kg	11 kg
R24	R24	R24	R24



HPX 系列X射线管

HPX Series X-ray Tubes



额定电压
 连续功率
 小焦点
 大焦点
 靶材料
 靶角
 辐射角
 最大mA @最大KV
 小焦点
 大焦点
 固有滤波
 焦点尺寸
 EN 12543
 IEC 336
 灯丝电流
 小焦点 (最大)
 大焦点 (最大)
 冷却介质
 冷却流量 (最小)
 重量
 公斤
 电缆类型

Nominal Voltage
 Continuous Rating
 Small Focus
 Large Focus
 Target Material
 Target Angle
 Coverage
 Maximum mA@ max kV
 Small Focus
 Large Focus
 Filtration
 Focal Spot Size
 EN 12543
 Nominal
 Filament Current
 Small Max
 Large Max
 Cooling Medium
 Cooling Flow, Min
 Weight
 Kg
 Socket Type

HPX 320/11	HPX 350/11	HPX 420/11	HPX 450/11
320kV	350kV	420kV	450kV
800 W	800 W	700 W	700 W
1800 W	1800 W	1500 W	1500 W
Tungsten	Tungsten	Tungsten	Tungsten
11°	11°	11°	11°
40° x 30°	40° x 30°	40° x 30°	40° x 30°
2.5 mA	2.2 mA	1.7 mA	1.5 mA
5.6 mA	5.1 mA	3.6 mA	3.3 mA
3.0 mm Be	4.0 mm Be	5.0 mm Be	5.0 mm Be
0.4 × 1.0 mm	0.4 × 1.0 mm	0.4 × 1.0 mm	0.4 × 1.0 mm
4.1 A	4.1 A	4.0 A	4.1 A
4.6 A	4.6 A	4.6 A	4.6 A
Oil	Oil	Oil	Oil
14 L/min	14 L/min	14 L/min	14 L/min
40 kg	40 kg	40 kg	95 kg
R24	R24	R28	R28

