

## An early X-ray tube with original tweaks to improve handling

Registration No.	Number 00252		
Registration Date	August 28, 2018	Registration Category	Category 1

Name (Model, etc.)	Coolidge U-Type X-Ray Tube		
Location	Fukuoka-shi, Fukuoka		
	Kyushu University		
Owner (Custodian)	Kyushu University		
Manufacturer (Company)	Tokyo Electric Company (now Toshiba Electron Tubes & Devices Co., Ltd. )		
Year Manufactured	In around 1925		
Year first appeared	1920		
Reason For Selection	<p>This is the first hot cathode Coolidge X-ray tube produced in Japan, and the size (<math>\varnothing 18 \text{ cm} \times 55 \text{ cm}</math>) and the form are almost identical to those of the products from General Electric Company. However, the exhaust vent (tip) at the bulb center is enclosed in the socket on the cathode side, preventing careless breakage for easier handling. In this aspect, it is more advanced than General Electric's early U-Types. In contrast with gas X-ray tubes, the structure is simple. The diameter of the focal spot is somewhat large, at 8.5 millimeters, and it was used for radiosopic diagnosis and radiation therapy on the body surface. It is vital as one of the earliest Coolidge tubes made in Japan.</p>		
Registration Standard	1-A (Show an important aspect or stage of the development of science and technology. )		

Open/Closed to Public	Open to Public
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Other useful information	<p>Serial number: T5224F 8.5 mm circular focal spot 100 kV / 60 mA / 1s 140 kV Max.</p>
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