

# Facilities in clinical operation

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## Facilities in clinical operation (update April 2026)

Information about technical equipment, including data about patients treated since start of operation.

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COUNTRY	WHO, WHERE	PARTICLE	S/C/SC*MAX. ENERGY (MeV)	BEAM DIRECTIONS	STARTOF TREATMENT	TOTAL PATIENTS TREATED*****	DATE OF TOTAL
Austria	<a href="#">MedAustron, Wiener Neustadt</a>	p	S 253	2 horiz., 1 vertical fixed beam**, 1 gantry** (under construction)	2016	1648	Dec-23
Austria	<a href="#">MedAustron, Wiener Neustadt</a>	C-ion	S 403/u	2 horiz., 1 verrical fixed beam**	2019	517	Dec-23
Belgium	<a href="#">PARTICLE PC, Leuven</a>	p	S 235	1 gantry**, 1 horiz. fixed beam**	2020	225	Dec-23
China	WPTC, Wanjie, Zi- Bo	p	C 230	2 gantries, 1 horiz. fixed beam	2004	2018	Dec-21
China	<a href="#">SPHIC, Shanghai</a>	p	S 250	3 horiz. fixed beams**	(2014) 2015	1840	Dec-24
China	<a href="#">SPHIC, Shanghai</a>	C-ion	S 430/u	3 horiz. fixed beams**	(2014) 2015	5763	Dec-24
China	<a href="#">Wuwei Heavy Ion Therapyt Center (WHITC), Wuwei, Gansu</a>	C-ion	S 400/u	4 horiz. fixed beams**	2019	1450	Sep-24

China	<a href="#">HIRFL Heavy Ion Therapy Center, Lanzhou, Gansu</a>	C-ion	S 400/u	4 horiz. fixed beams**	2024, restart	1st patients	2024
China	<a href="#">Ruijin Hospital, Jiao Tong University, Shanghai</a>	p	S 250	(1 gantry**), 2 horiz. fixed beams**	2021	78	Dec-23
China	<a href="#">Hefei Ion Medical Center, Hefei, Anhui</a>	p	C 250	3 gantries**, 1 horiz. fixed beam**	2024	216	Dec-24
China	<a href="#">Hong Kong Sanatorium &amp; Hospital PTC, Hong Kong</a>	p	S 220	2 gantries**	2023	1st patients	Aug-22
China	<a href="#">Proton Clinical Research Center of Shandong Cancer Hospital, Jinan</a>	p	C 250	3 gantries**, 1 horiz. fixed beam**	2023	1st patients	Dec-23
China	<a href="#">Wuhan Union Hospital Cancer Center, Wuhan</a>	p	SC 250	2 gantries**, 1 horiz. fixed beam**	2024	28	Apr-24
China	<a href="#">Zhejiang Cancer Hospital Ion Medical Center, Hangzhou</a>	C-ion	S 400/u	3 horiz. fixed beams**	2025	1st patients	Feb-25
China	<a href="#">Guangzhou Concord Cancer Center, Guangzhou</a>	p	SC 250	4 gantries**, 1 horiz. fixed beam**	2025	1st patients	Jul-25
China	<a href="#">Sichuan Cancer Hospital, Tianfu Hospital District, Sichuan</a>	p	C 230	3 gantries**, 1 horiz. fixed beam**	2025	1st patients	Aug-19
China	<a href="#">Cancer Hospital Chinese Academy of Medical Science Center, Shenzhen</a>	p	C 230	4 gantries**, 1 horiz. fixed beam**	2025	1st patients	Aug-25
Czech Republic	<a href="#">PTC Czech r.s.o., Prague</a>	p	C 230	3 gantries**, 1 horiz. fixed beam	2012	7749	Dec-21
Denmark	<a href="#">Dansk Center for Partikelterapi, Aarhus</a>	p	C 250	3 gantries**, 1 horiz. fixed beam**	2019	1034	Dec-23
France	<a href="#">CAL/IMPT, Nice</a>	p	C65, SC 235	1 fixed beam, 1 gantry**	1991, 2016	8294	Dec-23
France	<a href="#">CPO, Orsay</a>	p	SC 230	1 gantry, 2 horiz. fixed beams	1991, 2014	12897	Dec-23
France	<a href="#">CYCLHAD, Caen</a>	p	SC 230	1 gantry**	2018	849	Dec-23
Germany	<a href="#">HZB – Charité, Berlin</a>	p	C 72	1 horiz. fixed beams	1998	4855	Dec-24
Germany	<a href="#">HIT, Heidelberg</a>	p	S 250	2 horiz. fixed beams, 1 gantry**	2009, 2012	4625	Dec-24

Germany	<a href="#">HIT, Heidelberg</a>	C-ion	S 430/u	2 horiz. fixed beams, 1 gantry**	2009, 2012	5527	Dec-24
Germany	<a href="#">WPE, Essen</a>	p	C 230	4 gantries***, 1 horiz. fixed beams	2013	4905	Dec-24
Germany	<a href="#">UPDT, Dresden</a>	p	C 230	1 gantry***	2014	2200	Dec-24
Germany	<a href="#">MIT, Marburg</a>	p	S 250	3 horiz., 1 45deg. fixed beams**	2015	1677	Dec-24
Germany	<a href="#">MIT, Marburg</a>	C-ion	S 430/u	3 horiz., 1 45deg. fixed beams**	2015	1199	Dec-24
India	<a href="#">Apollo Hospitals PTC, Chennai</a>	p	C 230	2 gantries, 1 horiz. fixed beam**	2019	1400	Dec-23
India	<a href="#">Tata Memorial Center, Mumbai, Maharashtra</a>	p	C 230	3 gantries**	2023	1st patients	May-23
Italy	<a href="#">INFN-LNS, Catania</a>	p	C 60	1 horiz. fixed beam	2002	350	Dec-23
Italy	<a href="#">CNAO, Pavia</a>	p	S 250	3 horiz., 1 vertical, fixed beams	2011	2718	Dec-24
Italy	<a href="#">CNAO, Pavia</a>	C-ion	S 480/u	3 horiz., 1 vertical, fixed beams	2012	2669	Dec-24
Italy	<a href="#">APSS, Trento</a>	p	C 230	2 gantries**, 1 horiz. fixed beam	2014	1831	Dec-22
Italy	<a href="#">European Institute of Oncology (IEO), Milan</a>	p	SC 230	1 gantry**	2023	1st patient	Dec-23
Japan	<a href="#">HIMAC, OST, Chiba</a>	C-ion	S 800/u	horiz.***, vertical***, fixed beams, 1 gantry	1994, 2017	15024	Mar-23
Japan	<a href="#">NCC, Kashiwa</a>	p	C 235	2 gantries***	1998	5168	Dec-22
Japan	<a href="#">HIBMC, Hyogo</a>	p	S 230	1 gantry	2001	6854	Dec-23
Japan	<a href="#">HIBMC, Hyogo</a>	C-ion	S 320/u	horiz., vertical, fixed beams	2002	3497	Dec-23
Japan	<a href="#">PMRC 2, Tsukuba</a>	p	S 250	2 gantries***	2001	7313	Apr-23
Japan	<a href="#">Shizuoka Cancer Center</a>	p	S 235	3 gantries, 1 horiz. fixed beam	2003	3067	Dec-23
Japan	<a href="#">STPTC, Koriyama-City</a>	p	S 235	2 gantries**, 1 horiz. fixed beam	2008	6941	Mar-23
Japan	<a href="#">GHMC, Gunma</a>	C-ion	S 400/u	3 horiz., 1 vertical, fixed beams	2010	7771	Dec-24
Japan	<a href="#">Medipolis MRI, Ibusuki</a>	p	S 250	3 gantries***	2011	5601	Dec-23

Japan	<a href="#">Fukui Prefectural Hospital PTC, Fukui City</a>	p	S 235	2 gantries***, 1 horiz. fixed beam	2011	2221	Dec-24
Japan	<a href="#">Nagoya PTC, Nagoya City, Aichi</a>	p	S 250	2 gantries***, 1 horiz. fixed beam	2013	5458	Mar-20
Japan	<a href="#">SAGA-HIMAT, Tosu</a>	C-ion	S 400/u	3 horiz., vertical, 45 deg., fixed beams	2013	8361	Jun-23
Japan	<a href="#">Hokkaido Univ. Hospital PBTC, Hokkaido</a>	p	S 220	1 gantry	2014	1046	Mar-23
Japan	<a href="#">Aizawa Hospital PTC, Nagano</a>	p	C 235	1 gantry	2014	881	Mar-23
Japan	<a href="#">i-Rock Kanagawa Cancer Center, Yokohama</a>	C-ion	S 430/u	4 horiz., 2 vertical, fixed beams	2015	2675	Dec-22
Japan	<a href="#">Tsuyama Chuo Hospital, Okayama</a>	p	S 235	1 gantry	2016	689	Mar-23
Japan	<a href="#">PTC Teishinkai Hospital, Sapporo, Hokkaido</a>	p	S 230	1 gantry	2016	682	Mar-20
Japan	<a href="#">Hakuhokai Group Osaka PT Clinic, Osaka</a>	p	S 235	1 gantry**	2017	247	Mar-23
Japan	<a href="#">Kobe Proton Center, Kobe</a>	p	S 235	1 gantry**	2017	1269	Dec-23
Japan	<a href="#">Narita Memorial Proton Center, Toyohashi</a>	p	C 235	1 gantry**	2018	120	Dec-19
Japan	<a href="#">Osaka Heavy Ion Therapy Center</a>	C-ion	S 430/u	3 rooms, 6 fixed beams**	2018	3189	May-23
Japan	<a href="#">Hokkaido Ohno Memorial Hospital, Sapporo</a>	p	C 235	1 gantry**	2018	163	Mar-22
Japan	<a href="#">Takai Hospital, Tenri</a>	p	C 230	1 gantry**	2018	287	May-22
Japan	<a href="#">Nagamori Memorial Center of Innovative Cancer Therapy and Research, Kyoto</a>	p	S 220	2 gantries**	2019	955	Mar-23
Japan	<a href="#">East Japan HIC, Yamagata University Hospital, Yamagata</a>	C-ion	S 430/u	1 SC gantry**, 1 horiz. & verticla fixed beam	2021	12	Mar-21
Japan	<a href="#">Shonan Kamakura Advanced Medical Center, Kanagawa</a>	p	S 220	1 gantry**	2022	165	Jul-23
Japan	<a href="#">Central Japan International Medical Center, PTC</a>	p	S 250	1 gantry**	2024	199	Jun-25

Norway	<a href="#">Oslo University Radiumhospitalet, Oslo</a>	p	C 250	2 gantries**, 1 gantry for preclinical research	2025	1st patients	Mar-25
Norway	<a href="#">Haukeland University Hospital, Bergen</a>	p	C 250	2 gantries**, 1 gantry for preclinical research	2025	1st patients	May-25
Poland	<a href="#">IFJ PAN, Krakow</a>	p	C 230	1 horiz. fixed beam, 2 gantries	2011, 2016	1083	Dec-22
Russia	<a href="#">ITEP, Moscow</a>	p	S 250	1 horiz. fixed beam	1969	4368	Dec-20
Russia	<a href="#">JINR 2, Dubna</a>	p	C 200****	1 horiz. fixed beam	1999	1299	Dec-20
Russia	<a href="#">MIBS, Saint-Petersburg</a>	p	C 250	2 gantries**	2018	147	Dec-19
Russia	<a href="#">MRRC, Obninsk</a>	p	S 250	1 fixed beam	2016	756	Dec-22
Russia	<a href="#">FSCCRO of FMBA of Russia, Dimitrovgrad</a>	p	C 230	2 gantries**, 1 horiz, 1 horiz&60deg., fixed beams***	2019	5194	Dec-25
Saudi Arabia	<a href="#">Saudi Particle Therapy Center, Riyadh</a>	p	C 250	3 gantries**, 2 fixed beams**	2023	1st patient	Dec-23
Singapore	<a href="#">Mount Elizabeth Novena Hospital Proton Center</a>	p	C 230	1 gantry**	2023	1st patient	May-23
Singapore	<a href="#">National Cancer Center Singapore (NCCS)</a>	p	S 250	4 gantries**, 1 fixed beam	2023	1st patient	June-23
Singapore	<a href="#">Singapore Institute for Advanced Medicine</a>	p	C 230	1 gantry**	2023	1st patient	June-23
South Korea	<a href="#">KNCC, IIsan</a>	p	C 230	2 gantries, 1 horiz. fixed beam***	2007	5870	Dec-24
South Korea	<a href="#">Samsung PTC, Seoul</a>	p	C 230	2 gantries**	2016	6074	Dec-23
South Korea	<a href="#">Yonsei University Severance Hospital, Seoul</a>	C-ion	S 430/u	2 gantries, 1 horiz.fixed beam**	2023	1st patients	Apr-23
Spain	<a href="#">Quironsalud, Madrid</a>	p	SC 230	1 gantry**	2019	408	Dec-22
Spain	<a href="#">Cancer Center Clinica Universidad de Navarra, Madrid</a>	p	S 220	1 gantry**	2020	818	Dec-23
Sweden	<a href="#">The Skandion Clinic, Uppsala</a>	p	C 230	2 gantries**	2015	2451	Dec-24
Switzerland	<a href="#">CPT, PSI, Villigen</a>	p	C 250	1 horiz. fixed beam, 3 gantries**	1984, 1996, 2013, 2018	10785	Dec-24

Thailand	<a href="#">HRH Princess Maha Chakri Sinindhorn, Bangkok</a>	p	C 230	1 gantry***.	2021	728	Dec-23
Taiwan (China)	<a href="#">Chang Gung Memorial Hospital, Taipei</a>	p	C 230	4 gantries***, 1 horiz. fixed beam exp.	2015	4424	May-23
Taiwan (China)	<a href="#">Chang Gung Memorial Hospital, Kaohsiung</a>	p	C 230	3 gantries***	2018	1600	May-23
Taiwan (China)	<a href="#">Taipei Medical University Hospital, Taipei</a>	p	C 230	1 gantry***	2022	499	Dec-24
Taiwan (China)	<a href="#">Taiwan Veterans General Hospital, Taipei</a>	C-ion	S 430/u	2 vertical and 2 horiz. fixed beams***	2022	2	Sep-22
Taiwan (China)	<a href="#">PTC of China Medical University Hospital, Taichung</a>	p	C 250	2 gantries**	2024	1st patients	Apr-24
The Netherlands	<a href="#">UMC PTC, Groningen</a>	p	C 230	2 gantries**	2018	2666	Dec-24
The Netherlands	<a href="#">HollandPTC, Delft</a>	p	C 250	2 gantries**, 1 horiz. fixed beam	2018	1954	Dec-24
The Netherlands	<a href="#">ZON PTC, Maastricht</a>	p	SC 250	1 gantry**	2019	1276	Dec-24
United Kingdom	<a href="#">Clatterbridge</a>	p	C 62	1 horiz. fixed beam	1989	4128	Dec-21
United Kingdom	<a href="#">The Christie Proton Therapy Center, Manchester</a>	p	C 250	3 gantries**	2018	706	Dec-21
United Kingdom	<a href="#">NHS UCLH Proton Therapy Center, London</a>	p	C 250	3 gantries**	2021	1st patients	Dec-21
USA, CA.	<a href="#">J. Slater PTC, Loma Linda</a>	p	S 250	3 gantries, 1 horiz. fixed beam	1990	21200	Dec-19
USA, CA.	<a href="#">UCSF-CNL, San Francisco</a>	p	C 60	1 horiz. fixed beam	1994	2456	Dec-23
USA, MA.	<a href="#">MGH Francis H. Burr PTC, Boston</a>	p	C 235	2 gantries***, 1 horiz. fixed beam	2001	13023	Dec-23
USA, TX.	<a href="#">MD Anderson Cancer Center, Houston</a>	p	S 250	3 gantries***, 1 horiz. fixed beam	2006	9360	Dec-19
USA, FL.	<a href="#">UFHPTI, Jacksonville</a>	pp	C 230C 230	3 gantries***, 1 horiz. fixed beamsingle room, 1 gantry**	20062019	11883	Dec-24

USA, OK.	<a href="#">Oklahoma Proton Center, Oklahoma City</a>	p	C 230	1 gantry, 1 horiz, 2 horiz&60deg., fixed beams	2009	5002	Dec-23
USA, PA.	<a href="#">Roberts PTC, UPenn, PhiladelphiaPenn Medicine Lancaster General HealthPenn Medicine Virtua Health</a>	ppp	C 230C 250C 250	4 gantries***, 1 horiz.fixed beam1 gantry **1 gantry**	201020222023	10304	Dec-24
USA, IL.	<a href="#">Northwestern Medicine PC, Warrenville, Chicago</a>	p	C 230	1 gantry***, 1 horiz, 2 horiz&60deg., fixed beams	2010	6126	Dec-22
USA, VA.	<a href="#">HUPTI, Hampton</a>	p	C 230	4 gantries, 1 horiz.fixed beam	2010	?	Dec-20
USA, NJ.	<a href="#">ProCure Proton Therapy Center, Somerset</a>	p	C 230	4 gantries***	2012	6016	Dec-21
USA, WA.	<a href="#">Fred Hutchinson Cancer Center, Proton Therapy, Seattle</a>	p	C 230	4 gantries***	2013	5038	Dec-23
USA, MO.	<a href="#">S. Lee Kling PTC, Barnes Jewish Hospital, St. Louis</a>	p	SC 250	1 gantry	2013	1798	Dec-24
USA, TN.	<a href="#">Thompson Proton Center, Knoxville</a>	p	C 230	3 gantries**	2014	4993	Dec-24
USA, CA.	<a href="#">California Protons Cancer Therapy Center, San Diego</a>	p	C 250	3 gantries**, 2 horiz. fixed beams**	2014	?	Dec-20
USA, LA.	<a href="#">Willis Knighton Proton Therapy Cancer Center, Shreveport</a>	p	C 230	1 gantry**	2014	1091	Dec-22
USA, FL.	<a href="#">Ackerman Cancer Center, Jacksonville</a>	p	SC 250	1 gantry	2015	2000	Mar-21
USA, MN.	<a href="#">Mayo Clinic Proton Beam Therapy Center, Rochester</a>	p	S 220	4 gantries**	2015	8503	Dec-23
USA, NJ.	<a href="#">Laurie Proton Center of Robert Wood Johnson Univ. Hospital, New Brunswick</a>	p	SC 250	1 gantry	2015	?	Dec-20
USA, TX.	<a href="#">Texas Center for Proton Therapy, Irving</a>	p	C 230	2 gantries**, 1 horiz. fixed beam	2015	3000	Apr-22

USA, TN.	<a href="#">St. Jude Red Frog Events Proton Therapy Center, Memphis</a>	p	S 220	2 gantries**, 1 horiz. fixed beam	2015	300	Dec-17
USA, AZ.	<a href="#">Mayo Clinic Proton Therapy Center, Phoenix</a>	p	S 220	4 gantries**	2016	2834	Dec-21
USA, MD.	<a href="#">Maryland Proton Treatment Center, Baltimore</a>	p	C 250	4 gantries**, 1 horiz. fixed beam**	2016	2791	Dec-20
USA, FL.	<a href="#">Orlando Health PTC, Orlando</a>	p	SC 250	1 gantry	2016	591	Dec-19
USA, OH.	<a href="#">UH Sideman CC, Cleveland</a>	p	SC 250	1 gantry	2016	80	Dec-16
USA, OH.	<a href="#">Cincinnati Children's Proton Therapy Center, Cincinnati</a>	p	C 250	3 gantries**	2016	239	Dec-17
USA, MI.	<a href="#">Beaumont Health Proton Therapy Center, Royal Oak, Detroit</a>	p	C 230	1 gantry**	2017	600	Dec-20
USA, FL.	<a href="#">Baptist Hospital's Cancer Insitute PTC, Miami</a>	p	C 230	3 gantries**	2017	2276	Dec-23
USA, D.C.	<a href="#">MedStar Georgetown University Hospital PTC, Washington D.C.</a>	p	SC 250	1 gantry**	2018	first patients	Mar-18
USA, TN.	<a href="#">Provision CARES PTC, Nashville</a>	p	C 230	2 gantries**	2018	900	Oct-21
USA, GA.	<a href="#">Emory Proton Therapy Center, Atlanta</a>	p	C 250	3 gantries**, 2 horiz. fixed beams**	2018	2718	Dec-22
USA, OK.	<a href="#">Stephenson Cancer Center, Oklahoma</a>	p	SC 250	1 gantry**	2018	135	Jun-19
USA, MI.	<a href="#">McLaren PTC, Flint</a>	p	S 250/330	3 gantries**	2019	56	Dec-19
USA, NY.	<a href="#">The New York Proton Center, East Harlem, New York</a>	p	C 250	3 gantries**, 1 horiz. fixed beam**	2019	5188	Dec-24
USA, DC.	<a href="#">Johns Hopkins National Proton Center, Washington</a>	p	S 250	3 gantries**, 1 horiz. fixed beam**	2019	993	Dec-22
USA, FL.	<a href="#">South Florida Proton Therapy Institute, SFPTI, Delray Beach</a>	p	C 250	1 gantry**	2019	5	Dec-19
USA, VA.	<a href="#">Inova Schar Cancer Institute PTC, Fairfax</a>	p	C 230	2 gantries**	2020	1000	Mar-24

USA, AL.	<a href="#">Univ of Alabama PTC, Birmingham</a>	p	C 250	1 gantry**	2020	300	Nov-21
USA, FL.	<a href="#">UM Sylvester Dvoskin Proton Therapy Center, Miami</a>	p	C 250	1 gantry**	2020	772	Dec-23
USA, MA..	<a href="#">Gordon Browne Proton Cenetr. MGH, Boston</a>	p	S 250	1 gantry**	2020	80	Dec-20
USA, UT.	<a href="#">Huntsman Cancer Institute, Salt Lake City</a>	p	S 250	1 gantry**	2021	40	Dec-21
USA, MO.	<a href="#">David C. Pratt CC, Mercy Hospital, St. Louis</a>	p	C 250	1 gantry**	2022	first patients	Jul-22
USA, AR.	<a href="#">UAMS Winthrop P. Rockefeller Cancer Institute, Little Rock</a>	p	SC 230	1 gantry**	2023	first patients	Oct-23
USA, KS.	<a href="#">Kansas City Proton Institute (KCPI), Indian Creek Parkway</a>	p	SC 230	1 gantry**	2023	500	Jan-25
USA, OH.	<a href="#">OSUCCC Ohio State University Wexner Medical Center</a>	p	SC 250	1 gantry**	2024	first patients	Jan-24
USA, IL.	<a href="#">OSF Health Care Cancer Institute, Peoria</a>	p	SC 250	1 gantry**	2024	123	Dec-24
USA, NC.	<a href="#">Atrium Health Levin Cancer, Charlotte</a>	p	SC 250	1 gantry**	2024	first patients	Oct-24
USA, WI.	<a href="#">Froedtert &amp; Medical Collage of Wisconsin (MCW) Cancer Center, Milwaukee</a>	p	SC 250	1 fbeam, upright**	2026	first patients	Mar-26

\* S/C/SC = Synchrotron (S) or Cyclotron (C) or SynchroCyclotron (SC)

\*\* with pencil beam scanning

\*\*\* with spread beam and pencil beam scanning

\*\*\*\* degraded beam

\*\*\*\*\* ? means: no confirmed information available about patient treatment