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Ballastless track systems of RHEDA type for Long-distance transport

System	Project	Length [m]	Year
RHEDA 2000®	Tunnel Pforzheim (incl. mass-spring-system)	2,200	2017-18
	Sliding platform Hamburg port	250	2017
	Israel, Line A1	2,462	2016-17
	Hanau – Nantenbach (Germany)	2 x 6,000	2016-17
	Tithorea - Domokos Transition Sleeper (Greece)	732	2016
	Othrys / Kallidromos	33,000	2015-16
	Kaiser Wilhelm Tunnel (Germany)	4,000	2015-16
	Old Bebenroth Tunnel (Germany)	1,000	2015
	Acton Diveunder London (Great Britain)	2 x 370	2014-15
	RWE track scale (Germany)	5 x 45	2014-15
	Borders Railway Bowshank Tunnel (Great Britain)	2 x 226	2014
	Riyadh Metro (Saudi-Arabia)	8,750	2013-18
	Berlin-Munich, Ebensfeld-Erfurt – Leipzig / Halle (VDE 8.1 und 8.2) (Germany)	44,800 lin. M.	2012-14
	Mekka-Medina, named Haramain-line (Saudi-Arabia)	2 x 80,000	2012-18
	Seoul – Mokpo, between Osong – Mokpo, named Honam-Linie (Southkorea)	2 x 230,000 6,730 lin. M.	2012-14
	Old Schluechterner Tunnel / between Frankfurt – Göttingen (Germany)	3,600	2012-13
	Bebenroth Tunnel between Goettingen – Bebra (Germany)	1,074	2012
	Tunnel Turecký from Nove Mesto nad Vahom – Púchov (Slovakia)	2 x 2,280	2011-12
	Bush Tunnel Aachen (Germany)	2 x 700	2011
	ESAP Metro Athens (Greece)	33,000	2009-11
Leipzig City Tunnel (Germany)	2 x 4,000	2009-10	

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System	Project	Length [m]	Year
RHEDA 2000® (continuation)	Southampton Tunnel (Great Britain)	2 x 550	2009-10
	Railway Connection Eje Atlántico, different tunnel projects (Spain):		
	Meirama Bregua	2 x 1,800	2009
	Cerceda Meirama	2 x 3,000	2009
	Several tunnel projects on the High Speed Line Madrid – Valencia (Spain):		
	Hoyo de Roda	2 x 2,000	2009
	Umbria de los molinos	2 x 1,500	2009
	Villalgordo del Cabriel	2 x 3,300	2009
	Cabrera	2 x 7,200	2009
	Buñol	2 x 1,900	2009
	Torrent	2 x 3,000	2009
	Hampstead Heath Tunnel (Great Britain)	2 x 1,044	2008
	High Speed Line Seoul – Busan, 2 nd Section (Kyungbu-Line, 2 nd stage), Korea	2 x 110,500	2007-10
	High Speed Line Wuhan – Guangzhou, Passenger Dedicated Line (China)	2 x 980,000	2007-10
	Perpignan – Figueras (France / Spain)	2 x 4,500	2007-08
	Railway Connection Udampur – Katra (India)	10,000	2007-08
	Cologne, Mühlheim-Deutz (Germany)	2 x 300	2007
	Madrid – Barcelona, Tunnel Sant Joan Despí (Spain)	2 x 15,000	2007
	Madrid – Valladolid, Tunnel San Pedro (Spain)	2 x 12,000	2007
	Wuhan – Guangzhou, Pilot Track (China)	2 x 10,000	2007
Eje Atlántico, different tunnel projects (Spain)	2 x 8,000	2006-07	
Guadarrama Tunnel (Spain)	2 x 30,000	2006-07	
Rudoltice - Trebovice (Czech Republic)	2 x 444	2005	
City railroad tunnel Unterfoehring/Munich (Germany)	2 x 1,400	2005	
Taipei - Kaohsiung (Taiwan)	88,000	2004-06	
North-South Link (Germany)	9,800	2004-05	

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System	Project	Length [m]	Year
RHEDA 2000® (continuation)	Nuremberg - Ingolstadt (Germany)	2 x 36,000	2004-05
	Esslingerberg Tunnel (Germany)	2 x 13	2004
	Railway Bridge Ul. Wielicka Krakow – Tarnow-Line (Poland)	2 x 18	2003
	Side Connection with the High Speed line Nuremberg – Ingolstadt, Section Fischbach/Feucht (Germany)	2 x 2,100	2003
	Hibel Road Tunnel (Great Britain)	2 x 350	2003
	Prestbury Tunnel (Great Britain)	2 x 513	2003
	Amsterdam – Brussels (HSL Zuid / Netherlands)	2 x 80,000	2002-06
	Lehrter Bahnhof / New Berlin Main Station (Germany)	4 Turnouts	2002
	New Line between Las Palmas – Ourepesa (Spain)	2 x 430	2002
	New Connection between Erfurt-Halle / Leipzig – Section Grosskugel (Germany)	2 x 3,000	2001
RHEDA-BERLIN	New Line between Erfurt – Halle / Leipzig – Section Schkeudiz (Germany)	2 x 500	2000
	High Speed Line Cologne – Frankfurt Airport, Lot B (Germany)	2 x 95,000	1999-02
	Railway Connection Erfurt – Leipzig / Halle, Section Schkeuditz (Germany)	2 x 13,000	1999-00
	Upgraded Railway Connection Leipzig – Erfurt, Section Leislingen – Naumburg (Germany)	2 x 1,260	1997
RHEDA-Rathenow	High Speed Line Hanover – Berlin, Section Zoo-Berlin Main Station (Germany)	4 x 8,000	1995-97
	High Speed Connection Berlin – Hanover, Section Rathenow (Germany)	2 x 800	1998

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Asphalt-based ballastless track systems for Long-distance transport

System	Project	Length [m]	Year
ATD	New Line between Las Palmas – Ourepesa (Spain)	2 x 435	2002
	High Speed Connection Berlin – Hanover, Section Haemerten (Germany)	2 x 5,500	1996-97
	Railway Connection Halle/S – Gunthershausen, Section Gotha Leinakanal (Germany)	2 x 1,490	1994
	Railway Connection Wuerzburg – Frankfurt/M., Section Nantenbach Curve (Germany)	2 x 7,240	1993
GETRAC® A1	Nuremberg port	366	2010
	Railway Project Wengi – Frutigen (Switzerland)	700	2004
	Lossetalbahn / Kassel (Germany)	650	2003
	New Line between Las Palmas – Ourepesa (Spain)	2 x 435	2002
	Railway Connection Hanover – Berlin, Section Berlin-Westkreuz-Ruhleben (Germany)	2 x 3,515	1994-95
GETRAC® A3	Railway Connection Hohenturm – Peißen (Germany)	4,698	2016-17
	Railway Connection Lehmsief, Line Stolberg – Herzogenrath (Germany)	280	2015-16
	New Schlüchterner Tunnel with trafficability (Germany)	4,080	2014-15
	Railway Project Old Mainz Tunnels (Germany)	2 x 900	2009
	Railway Project Schlulechterner Tunnel / Railway Line Frankfurt – Goettingen (Germany)	7,571	2008-10
	Railway Project Brandleite Tunnel / Railway Line Erfurt – Wuerzburg (Germany)	2 x 3,600	2005
	Railway Project Esslingerberg-Tunnel / Treuchtlingen (Germany)	2 x 700	2004
	Railway Project Heiligenberg Tunnel (Germany)	2 x 1,300	2001-02
	Railway Project Kehretunnel (Germany)	2 x 300	2001

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System	Project	Length [m]	Year
RHEDA CITY (installed flush with the street surface)	Weinheim (Germany)	643	2018-19
	Bern (Switzerland)	388	2018-19
	Poznan (Poland)	80	2018
	Gera (Germany)	225	2018
	Tampere (Finland)	5,900	2017-19
	Palembang (Indonesien)	23,400	2017-18
	Ratingen (Germany)	653	2017
	Dessau (Germany)	1,671	2017
	Bad Duerkheim (Germany)	30	2017
	Chemnitz (Germany)	2,910	2015-18
	Bergen (Norway)	619	2015
	Bochum (Germany)	205	2015
	Doha (Qatar)	16,959	2014-18
	Mainz (Germany)	744	2014-17
	Basel (Switzerland)	303	2014
	Birmingham (Great Britain)	427	2013-14
	Sosnowiec (Poland)	2,253	2013-14
	Champocologno (Switzerland)	113	2013
	Utrecht (The Netherlands)	5,256	2012-17
	Augsburg (Germany)	3,523	2012-14
Heilbronn (Germany)	2,819	2012-13	
Radebeul (Germany)	1,663	2012	

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System	Project	Length [m]	Year
RHEDA CITY (installed flush with the street surface; continuation)	Stuttgart (Germany), industrial tracks	97	2012
	Dublin (Ireland), industrial tracks	1,906	2011-13
	Pilsen (Czech Republic)	372	2011-12
	Prague (Czech Republic)	120	2011
	Samedan (Switzerland)	273	2011
	Tirano (Italy)	144	2011
	Ruedersdorf/ Schoeneiche (Germany)	1,059	2010-18
	Woltersdorf (Germany)	1,597	2010-19
	Runkel (Germany), industrial tracks	517	2010
	Schoeneiche (Germany)	105	2010
	Frankfurt (Germany)	2,408	2009-17
	Dublin (Ireland)	9,665	2009-17
	Arlesheim / Dornach (Switzerland)	150	2009
	Neuss (Germany)	60	2009
	Reinach (Switzerland)	615	2009
	Sevilla (Spain)	16,968	2009
	Leipzig (Germany)	6,702	2008-18
	Edinburgh (Great Britain)	8,454	2008-13
	Potsdam (Germany)	3,709	2008-17
	Wuerzburg (Germany)	135	2008-11
Munich (Germany)	3,130	2008-09	
Warsaw (Poland)	33,230	2007-15	
Kassel (Germany)	881	2007-12	

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System	Project	Length [m]	Year
RHEDA CITY (installed flush with the street surface; continuation)	Croydon (Great Britain)	142	2007-09
	Bonn (Germany)	328	2007-08
	Schwerin (Germany)	1,109	2006-17
	Bucharest (Rumania)	12,480	2006-07
	The Hague (The Netherlands)	2,335	2006-07
	Chur (Switzerland)	1,700	2005-10
	Saarbruecken (Germany)	3,820	2005-07
	Heidelberg (Germany)	10,558	2004-18
	Magdeburg (Germany)	3,880	2004-19
	Nantes (France)	1,440	2004-05
	Karlsruhe (Germany)	10,319	2003-19
	Cologne (Germany)	5,875	2003-19
	Schriesheim (Germany)	371	2003-12
	Ludwigshafen (Germany)	3,455	2002-17
	Mannheim (Germany)	21,659	2002-18
	Nuremberg (Germany)	22,091	2002-18
	Aken (Germany), port track for inland port	610	2002-03
Dusseldorf (Germany)	1,454	2002	
Essen (Germany)	235	2002	
Bremen (Germany)	910	2001	
Braunschweig (Germany)	3,404	2000-18	

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System	Project	Length [m]	Year
RHEDA CITY "Green"	Hanover (Germany)	5,424	1999-18
	Berlin (Germany)	78,504	1998-19
	Dresden (Germany)	71,776	1998-19
	Amsterdam (The Netherlands)	3,700	2018-19
	Tampere (Finland)	5,300	2018-19
	Magdeburg (Germany)	1,919	2018
	Weinheim (Germany)	1,381	2018
	Stuttgart (Germany)	26	2017
	Ratingen (Germany)	49	2017
	Utrecht (The Netherlands)	2,930	2017
	Nuremberg (Germany)	145	2016
	Hanover (Germany)	959	2016-17
	Heidelberg (Germany)	5,685	2016-18
	Doha (Qatar)	1,076	2014-17
	Frankfurt (Germany)	512	2014
RHEDA CITY "Green" (continuation)	Chemnitz (Germany)	153	2014-15
	Warsaw (Poland)	10,107	2011-15
	Edinburgh (Great Britain)	10,588	2009-14
	Reinach (Schweizerland)	840	2009
	Ludwigshafen (Germany)	536	2009
The Hague (The Netherlands)	1,135	2006-07	
Mannheim (Germany)	13,516	2005-18	

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System	Project	Length [m]	Year
RHEDA MRT	Berlin (Germany)	42,002	2004-19
	Karlsruhe (Germany)	14,460	2003-19
	Cologne (Germany)	4,010	2001-02
	Seoul, Extension of the Metro line 3 (Korea)	2 x 3,000	2008-09
	Madrid, Metro Line 7, Station San Blas – Simancas (Spain)	190	2005
	Project underground transit system Circle Line CCL (Singapore)	20,000	2004-08
	Project Franz-Mett-Strasse in Berlin (Germany)	120	2002
	Project Underground Berlin / Line 2 (Germany)	195	2001
RHEDA RX	Renewal of Track on the Berlin City Railways (Germany)	4 x 8,800	1996-97
	Granada (Spain)	4,669	2013-14
	Berlin (Germany)	219	2013