

# BBR Stay Cables

Project References 1960 – 2012

Fifty years of excellence  
in over 400 projects

**BBR** A Global Network of Experts  
[www.bbrnetwork.com](http://www.bbrnetwork.com)

# **BBR** A Global Network of Experts

[www.bbrnetwork.com](http://www.bbrnetwork.com)

The BBR Network is recognized as the leading group of specialized engineering contractors in the field of post-tensioning, stay cable and related construction engineering. The innovation and technical excellence, brought together in 1944 by its three Swiss founders – Antonio Brandestini, Max Birkenmaier and Mirko Robin Ros – continues, more than 60 years later, in that same ethos and enterprising style.

From technical headquarters in Switzerland, the BBR Network reaches out around the globe and has at its disposal some of the most talented engineers and technicians, as well as the very latest internationally approved technology.

## **THE GLOBAL BBR NETWORK**

Within the Global BBR Network, established traditions and strong local roots are combined with the latest thinking and leading edge technology. BBR grants each local BBR Network member access to the latest technical knowledge and resources – and facilitates the exchange of information on a broad scale and within international partnering alliances. Such global alliances and co-operations create local competitive advantages in dealing with, for example, efficient tendering, availability of specialists and specialized equipment or transfer of technical know-how.

## **ACTIVITIES OF THE NETWORK**

All BBR Network members are well-respected within their local business communities and have built strong connections in their respective regions. They are all structured differently to suit the local market and offer a variety of construction services, in addition to the traditional core business of post-tensioning.

## **BBR TECHNOLOGIES**

BBR technologies have been applied to a vast array of different structures – such as bridges, buildings, cryogenic LNG tanks, dams, marine structures, nuclear power stations, retaining walls, tanks, silos, towers, tunnels, wastewater treatment plants, water reservoirs and wind farms. The BBR brands and trademarks – CONA, BBRV, HiAm, DINA, SWIF, BBR E-Trace and CONNAECT – are recognized worldwide.

The BBR Network has a track record of excellence and innovative approaches – with thousands of structures built using BBR technologies. While BBR's history goes back over 60 years, the BBR Network is focused on constructing the future – with professionalism, innovation and the very latest technology.

BBRVT International Ltd is the Technical Headquarters and Business Development Centre of the BBR Network located in Switzerland. The shareholders of BBRVT International Ltd are: BBR Holding Ltd (Switzerland), a subsidiary of the Tectus Group (Switzerland); Spennteknikk International AS (Norway), a member of the KB Group (Norway); BBR Pretensados y Tecnicas Especiales PTE, S.L. (Spain), a member of the FCC Group (Spain).



# Innovation Excellence Experience

**In 2010, BBR celebrated its golden anniversary - 50 years - in the stay cable technology arena, while the BBR Network has some 66 years at the leading edge of construction technology.**

Although BBR is mostly famous for wire stay cables, we were actually also the inventors of strand and carbon stay cables – and carried out the world's first projects using high fatigue resistant wire, strand and carbon stay cables ... we are the company who started it all!

BBR Stay Cable Technology has been applied to over 400 major structures around the world. While many cable suppliers built their first major cable supported structure in the late 1970s and early 1980s, BBR Stay Cable Technology was used for the first time in the late 1950s and, since those days, BBR has followed on with milestone-after-milestone and continues to set the standard in the field of stay cables.

Our Swiss roots are deeply embedded in technological development and, down the years, our engineers have constantly striven to produce the most advanced products and technology. Today, this combines with a strong international network – the BBR Network of Experts – who first listen, then advise and deliver best-in-class solutions to customers around the globe.

In many ways, our story is just beginning – we had the longest experience in the 20th Century ... and you can bet on us having the longest in the 21st Century too!

The members of the BBR Network have taken every care in preparing this document and in checking its content carefully. This reference list contains strand, wire and carbon stay cables for all types of application including - but not limited to - bridges, towers, stadiums, tie-downs as well as major temporary stays applications. BBR makes no warranty of any kind, expressed or implied, with regard to the information contained in this document.

© BBR VT International Ltd 2011



**#1**  
1960 – World's first wire stay cables  
Schillersteg Pedestrian Bridge, Stuttgart, Germany



**#5**  
1972 – World's first strand stay cables  
Olympic Stadium, Munich, Germany



**#197**  
1996 – World's first carbon stay cables  
Storchenbrücke, Winterthur, Switzerland



**#400**  
2008 – 400th stay cable project  
Serreria Bridge, Valencia, Spain



**#408**  
2011 – One of the next 400 BBR cable-stayed structures  
Sava Bridge, Belgrade, Serbia



#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
415	2012	Dobczyce Bridge	Europe	178	38	64
414	2012	Przemysl Bridge	Europe	229	124	36
413	2012	Bydgoszcz Tram Bridge	Europe	70	56	18
412	2012	Bydgoszcz Oginsuiego Bridge	Europe	200	109	16
411	2012	Viaduto Do Corgo	Europe	768	155	88
410	2012	Vidin-Calafat	Europe	1,391	83	208
409	2011	Arch Bridge WD-23I on A-I motorway	Europe	60	12	10
408	2011	Sava Bridge	Europe	964	372	80
407	2011	Basarab Overpass	Europe	361	158	60
406	2011	Centura Bridge	Europe	240	93	32
405	2011	Melb Water Gas Collection	Pacific	220	220	11
404	2010	Pedestrian Bridge Blackburn	Africa	160	72	16
403	2010	Footbridge Kuala Trenggaunu	Asia	45	21	9
402	2009	River Pilica Bridge in Maluszyn	Europe	56	52	16
401	2009	Laukko Bridge	Europe	145	88	25

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
400	2008	Serreria Bridge	Europe	292	250	33
399	2008	Newman Hub Conveyor	Pacific	–	44	4
398	2008	Footbridge Murckowska	Europe	50	45	8
397	2008	Donaustadtbrücke Vienna	Europe	326	140	20
396	2008	Dunajec River Bridge	Europe	301	58	24
395	2008	Rio Seco Bridge	Europe	105	100	20
394	2008	Vabaduse Tartu	Europe	80	30	4
393	2008	Ormiston Road Bridge	Pacific	70	30	26
392	2008	Footbridge, Fort Hatry	Europe	36	35	8
391	2007	Draubridge Ptuj	Europe	430	88	40
390	2007	Parvati River Bridge	Asia	120	20	9
389	2007	Motorway Bridge Letenye	Europe	114	125	6
388	2007	Chiraiyatand Cable Stayed Bridge	Asia	110	65	42
387	2006	Eleanor Schonell Bridge	Pacific	520	100	64
386	2006	Wolgabridge Kimry	Asia	416	48	24
385	2006	Dolphin Quay Footbridge	Pacific	182	52	8
384	2006	Shindentoshima Bridge	Asia	105	8	36
383	2006	Bunting Island, Kedah-Arch Bridge	Asia	80	22	26
382	2006	Footbridge KP-15, Ruda Slaska	Europe	67	56	28
381	2006	Footbridge, Srednicowa	Europe	63	14	9
380	2006	Plock Amphitheatre Roof	Europe	50	68	71
379	2006	Mulhouse - La Fonderie	Europe	25	31	6
378	2006	Jyogashima Floating Artificial Fish Reef	Asia	–	223	3
377	2005	Suzuka Circuit Roof	Asia	–	8	30
376	2005	Minato (No.1) Bridge	Asia	980	25	16
375	2005	Minato (No.2) Bridge	Asia	980	14	8
374	2005	Sloboda Bridge	Europe	591	162	48
373	2005	Ritto B Bridge	Asia	555	109	60
372	2005	Higashi Miyoshi Bridge	Asia	374	39	20
371	2005	Viaducto Rio Navia	Europe	320	35	68

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
370	2005	Kamisaki Bridge	Asia	198	35	64
369	2005	Shin Sakuranomiya Bridge	Asia	150	13	132
368	2005	Tama Bridge	Asia	150	25	22
367	2005	Shin Gokase Bridge	Asia	122	22	48
366	2005	Joto Bridge	Asia	122	24	44
365	2005	2nd Mizutori Bridge	Asia	110	20	40
364	2005	Higashi-Fukagawa Water Pipe Bridge	Asia	51	4	10
363	2004	Mito Digital Television Transmission Tower	Asia	–	41	9
362	2004	NTT Docomo Tower	Asia	–	66	8
361	2004	Millennium Bridge	Europe	971	75	56
360	2004	Megami Bridge	Asia	880	243	26
359	2004	Yahagigawa Bridge	Asia	820	194	128
358	2004	Naini Bridge across River Yamuna	Asia	630	130	104
357	2004	Binh Bridge	Asia	460	138	88
356	2004	2nd Daishi	Asia	300	147	28
355	2004	Usk River Bridge	Europe	190	30	34
354	2004	Valencia By-Pass	Europe	125	57	24
353	2004	Gunung Machincang Bridge, Langkawi, Kedah	Asia	125	28	10
352	2004	Tokyo Airport East Bridge	Asia	66	3	6
351	2004	Tokyo Airport West Bridge	Asia	66	54	4
350	2003	Kuji Gym	Asia	---	29	16
349	2003	Nippori-Toneri No.2 Bridge	Asia	618	2	4
348	2003	Ritto A Bridge	Asia	495	105	56
347	2003	Himiyume Bridge	Asia	365	77	36
346	2003	Daini Saikai Bridge	Asia	300	16	22
345	2003	Shima Bridge	Asia	234	38	68
344	2003	Preston Street Footbridge	Pacific	210	57	8
343	2003	Karolin Suspension Technological Bridge	Europe	120	125	2
342	2003	3rd Niga Dam Bridge	Asia	114	50	12
341	2003	1st Mizutori Bridge	Asia	108	20	40

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
340	2003	Dolphin Quays Footbridge	Pacific	100	40	8
339	2003	Rockodromo	Europe	–	48	24
338	2003	Shidobuchigawa Bridge	Asia	90	15	22
337	2003	Nibong Tebal Bridge, Penang-Arch Bridge	Asia	84	14	92
336	2003	Valencia Footbridge	Europe	80	34	16
335	2003	5th Nishisonogi Bridge	Asia	70	73	4
334	2003	Footbridge Wrzosowa	Europe	56	30	10
333	2003	Footbridge Slodowa	Europe	49	15	20
332	2003	Valdor Bridge, Penang-Arch Bridge	Asia	48	9	52
331	2003	Ist Seisika Root Bridge	Asia	43	43	6
330	2003	Footbridge Pszczyna	Europe	30	20	8
329	2002	Hanshin Silo Building	Asia	–	37	1
328	2002	Railway Bridge at Terneuzen	Europe	215	11	12
327	2002	Nippori-Toneri No.1 Bridge	Asia	618	2	16
326	2002	Siekierkowski Bridge	Europe	500	131	56
325	2002	Rama VIII Bridge	Asia	475	312	84
324	2002	Chitose Bridge	Asia	260	30	50
323	2002	Tempisque Bridge	Americas	260	148	18
322	2002	Asidagawa Bridge	Asia	254	135	18
321	2002	Krishnarajapuram Bridge	Asia	230	113	162
320	2002	Puttesund Bridge	Europe	206	74	30
319	2002	Communication Tower Lopik	Europe	200	308	3
318	2002	Mizunasigawa Shido Bridge	Asia	185	34	72
317	2002	Klasnice Bridge	Europe	148	75	24
316	2002	Nakadai Bridge	Asia	127	24	40
315	2002	2nd C290 Sadagawa Bridge	Asia	105	18	32
314	2002	Iya Roman Bridge	Asia	82	8	4
313	2001	Rio Ozama Bridge	Americas	847	160	96
312	2001	Hiroshima West Bridge	Asia	480	38	24
311	2001	Bando Bridge	Asia	382	103	64



#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
310	2001	Rio Ebro Bridge	Europe	280	17	26
309	2001	Da Chi Bridge	Asia	222	99	22
308	2001	Morino Waku Waku Bridge	Asia	165	143	2
307	2001	Claisebrook Footbridge	Pacific	150	45	8
306	2001	Ist Naeburi Bridge	Asia	132	26	48
305	2001	Ainoura Bridge	Asia	127	55	6
304	2001	Kamoike Bridge	Asia	122	21	44
303	2001	Tosima Bridge	Asia	104	19	18
302	2001	Yotuzawa Bridge	Asia	100	17	36
301	2001	Hinode Bridge	Asia	96	11	18
300	2001	Wloclawek Sport Hall Roof	Europe	81	81	35
299	2001	Niigata Convention	Asia	78	67	20
298	2001	Footbridge over Zrodlowa Street, Kielce	Europe	39	30	10
297	2001	Yokezawagawa Bridge	Asia	30	11	6
296	2000	Tokyo Stadium	Asia	–	15	246
295	2000	Kashima Stadium	Asia	–	31	172
294	2000	Yamaguchi Dome	Asia	–	38	4
293	2000	Ibigawa East Bridge	Asia	1,400	67	136
292	2000	Ibigawa West Bridge	Asia	1,400	67	92
291	2000	Kisogawa East Bridge	Asia	1,145	63	96
290	2000	Kisogawa West Bridge	Asia	1,145	63	96
289	2000	Swietokrzyski Bridge	Europe	448	180	48
288	2000	Sun Set Bridge	Asia	344	94	72
287	2000	Dintelhavenbrug	Europe	358	75	2
286	2000	Seri Saujana Bridge (BR8), Putrajaya	Asia	300	175	84
285	2000	Satunai Seiryu Bridge	Asia	230	104	22
284	2000	Sanbara Bridge	Asia	182	31	52
283	2000	Sunahara Bridge	Asia	131	22	52
282	2000	Funakoya Bridge	Asia	100	15	60
281	2000	Ohmiya Kohosugi Bridge	Asia	95	14	30

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
280	2000	Oze Kochu Bridge	Asia	82	32	6
279	2000	2nd Imai Bridge	Asia	70	10	12
278	2000	Akan Cho Bridge	Asia	68	18	10
277	2000	Musashiurawaeki Bridge	Asia	27	14	4
276	1999	Hida Takayama Gym	Asia	–	25	15
275	1999	Sapporo Dome	Asia	–	90	4
274	1999	Saitama Super Arena	Asia	–	125	3
273	1999	Kao Ping Hsi Bridge	Asia	510	330	60
272	1999	Kushimoto Bridge	Asia	290	16	56
271	1999	Motokawa Bridge	Asia	185	36	64
270	1999	Nishikata Bridge	Asia	185	68	16
269	1999	2nd Iris Bridge	Asia	176	41	20
268	1999	Uenoda Bridge	Asia	147	26	48
267	1999	Uminonakadoh Bridge	Asia	140	13	20
266	1999	Shinshima Bridge	Asia	136	86	20
265	1999	Nagojo Bridge	Asia	112	23	36
264	1999	Himinoe Bridge	Asia	112	131	32
263	1999	1st Iris Bridge	Asia	111	41	20
262	1999	Vilsbrücke Reutte	Europe	80	44	8
261	1999	Sakura Bridge	Asia	60	8	18
260	1999	Nishijuku Deck Bridge	Asia	54	34	6
259	1998	Universal Studio Station	Asia	–	171	2
258	1998	Ohshima Bridge	Asia	690	179	80
257	1998	Maizuru Crane Bridge	Asia	670	169	48
256	1998	Bridges (1) over the River Aare, Arch	Europe	366	47	24
255	1998	Bridges (2) over the River Aare, Arch	Europe	366	47	24
254	1998	Tuneyoshi Bridge	Asia	339	215	24
253	1998	1st Katsuyama Bridge	Asia	182	10	18
252	1998	Motorola Interchange (LDP), Selangor	Asia	160	42	20
251	1998	1st Osaka Bridge	Asia	148	30	56

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
250	1998	2nd Osaka Bridge	Asia	148	30	56
249	1998	Hakkei Jima Bridge	Asia	147	34	6
248	1998	Mizunashi Bridge	Asia	145	27	52
247	1998	Morinaga Bridge	Asia	111	50	12
246	1998	Ochiai Bridge	Asia	91	15	30
245	1998	2nd Katsuyama Bridge	Asia	91	10	18
244	1998	Memorial Hall Bridge	Asia	90	102	3
243	1998	Bridge over the River Thur	Europe	88	41	28
242	1998	View Bridge	Asia	77	74	16
241	1998	1st Imai Bridge	Asia	70	11	12
240	1998	Minamino Bridge	Asia	70	11	4
239	1998	Tomoji Bridge	Asia	64	11	10
238	1998	Bridge over the River Kleine Emme (CFRP)	Europe	47	47	2
237	1997	Kumamoto Stadium	Asia	–	187	48
236	1997	Tiwest Cataby Dredge	Pacific	–	38	4
235	1997	Third Godavari Bridge	Asia	2,732	20	180
234	1997	Tatara Bridge	Asia	1,480	460	84
233	1997	Raippaluoto Bridge	Europe	1,045	237	56
232	1997	Sunniberg Bridge	Europe	526	70	148
231	1997	Shin Inagawa Bridge	Asia	398	207	56
230	1997	Shin Dong Bridge	Asia	326	109	34
229	1997	Arita Chuou Bridge	Asia	284	147	28
228	1997	Nakanoseto Bridge	Asia	193	35	60
227	1997	Nisizawa Bridge	Asia	149	26	52
226	1997	Shinanoiri Bridge	Asia	142	35	40
225	1997	Gnosca Pedestrian Bridge	Europe	136	52	16
224	1997	Takahara Bridge	Asia	133	27	48
223	1997	Shiki Bridge	Asia	112	17	40
222	1997	Ljubljana Bridge	Europe	86	39	24
221	1997	Aijima Bridge	Asia	84	21	24

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
220	1997	Agon Bridge	Asia	82	20	36
219	1997	Housei University Bridge	Asia	81	33	8
218	1997	Nishigawara Bridge	Asia	80	8	32
217	1997	Shiokaze Bridge	Asia	76	48	6
216	1997	Nada Ekimae Bridge	Asia	60	19	4
215	1997	Penang Indoor Stadium	Asia	48	26	36
214	1997	Bridge over A19, Sens	Europe	42	18	6
213	1997	Hamasuga Bridge	Asia	41	33	6
212	1997	Sankaku Bridge	Asia	41	8	2
211	1997	Oda Bridge	Asia	27	27	8
210	1996	Makuhari Messe N-Hall	Asia	–	46	49
209	1996	Fushimi Arcade	Asia	–	96	8
208	1996	Second Severn Crossing Bridge	Europe	948	25	32
207	1996	Meikou East Bridge	Asia	700	210	96
206	1996	Shonan Ginga Bridge	Asia	458	116	36
205	1996	Hucyu Yotsuya Bridge	Asia	446	129	56
204	1996	Maslenica Bridge	Europe	380	102	68
203	1996	Donaustadt Brücke	Europe	326	140	20
202	1996	Helsinginkoski Bridge	Europe	312	102	36
201	1996	Ist Daishi Bridge	Asia	295	148	28
200	1996	Kogaigawa Bridge	Asia	266	14	144
199	1996	Chabowwce	Europe	206	19	20
198	1996	Takimi Bridge	Asia	148	25	56
197	1996	Storchenbrücke	Europe	124	58	24
196	1996	Turumigawa Bridge	Asia	118	21	36
195	1996	Tomioka Lake Wood Bridge	Asia	106	51	10
194	1996	Nakajima Bridge	Asia	100	18	20
193	1996	Totui Bridge	Asia	94	17	32
192	1996	Izuminosen Bridge	Asia	57	13	12
191	1995	Ohshiba Bridge	Asia	410	112	112

## BBR Network Project References

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
190	1995	Donaubrücke Tulln West	Europe	279	145	60
189	1995	Nakajima Bridge	Asia	252	100	28
188	1995	Bridge over the River Rhine at Schaffhausen	Europe	238	104	32
187	1995	Ostroleka Bridge over Narew River	Europe	206	19	20
186	1995	Railway Bridge, Woerden	Europe	167	12	6
185	1995	1st Toyota Bridge	Asia	140	29	58
184	1995	Tsemu Bridge	Asia	136	114	8
183	1995	Takahama Bridge	Asia	134	73	28
182	1995	Momorupe Bridge	Asia	109	50	6
181	1995	1st Osaka Monorail Bridge	Asia	87	16	28
180	1995	5th Osaka Monorail Bridge	Asia	87	16	28
179	1995	2nd Chuou Bridge	Asia	84	49	16
178	1995	Inari Bridge	Asia	64	37	14
177	1995	2nd Coral Bridge	Asia	54	10	16
176	1995	Hitoai Bridge	Asia	32	9	4
175	1995	Montpellier Olympique swimming pool	Europe	26	30	24
174	1994	Global Tower	Asia	–	28	30
173	1994	Second Hooghly Bridge	Asia	821	210	120
172	1994	Stay Cable Bridge No. I	Asia	456	123	128
171	1994	Nakagawa Bridge	Asia	323	58	28
170	1994	Dainichikumagawa Bridge	Asia	270	140	44
169	1994	Sky Way Bridge Bridge	Asia	217	159	14
168	1994	Shin Ui Bridge	Asia	197	34	64
167	1994	Okamura Bridge	Asia	184	33	60
166	1994	Oto Bridge	Asia	170	27	64
165	1994	Tubokawa Bridge	Asia	162	27	56
164	1994	Goshiki Sakura Bridge	Asia	144	37	92
163	1994	2nd Toyota Bridge	Asia	140	29	58
162	1994	2nd Osaka Monorail Bridge	Asia	130	23	36
161	1994	4th Osaka Monorail Bridge	Asia	130	23	36

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
160	1994	Dainiyuragawa Bridge	Asia	127	22	40
159	1994	Bridge over the River Thur, Altikon	Europe	122	71	24
158	1994	Bridge Diedensteg	Europe	118	46	36
157	1994	2nd Ayumi Bridge	Asia	118	23	48
156	1994	Pont de Lorette, St. Ursanne	Europe	111	56	32
155	1994	Fureai-4 Bridge	Asia	111	43	12
154	1994	Heira Bridge	Asia	98	97	42
153	1994	Shinrin Koen Bridge	Asia	96	30	6
152	1994	Maeda Shinrin Koen Bridge	Asia	96	30	6
151	1994	Deai Bridge	Asia	74	57	16
150	1994	Ohosu Bridge	Asia	60	27	4
149	1994	1st Coral Bridge	Asia	54	10	16
148	1994	Koniya Gyoko Bridge Bridge	Asia	54	10	16
147	1993	Salhus Floating Bridge	Europe	1,246	158	199
146	1993	Tahtiniemi Bridge	Europe	901	163	54
145	1993	Tajiri Sky Bridge	Asia	334	197	60
144	1993	Utsjoki Bridge	Europe	312	139	48
143	1993	Chientan MRT Station	Asia	278	191	70
142	1993	Okutama Bridge	Asia	265	115	24
141	1993	Kishiwada Bridge	Asia	255	37	30
140	1993	Nishinomiya Hama Bridge	Asia	252	31	72
139	1993	Shinkizugawa Bridge	Asia	210	31	56
138	1993	3rd. Osaka Monorail Bridge	Asia	197	35	52
137	1993	Uchu Bridge	Asia	180	32	60
136	1993	Gounoura Bridge	Asia	165	28	56
135	1993	Miyamoto Bridge	Asia	154	80	20
134	1993	Donaukanalbrücke U6/12	Europe	126	57	32
133	1993	1st Ayumi Bridge	Asia	118	23	48
132	1993	Rhone Bridge from Riddes to Leytron	Europe	101	37	52
131	1993	Kumaidaisan Bridge	Asia	100	19	44

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
130	1993	Century Bridge	Asia	100	90	5
129	1993	Kitakawauchi Bridge	Asia	93	48	16
128	1993	Ryogun Bridge	Asia	81	72	18
127	1993	Fureai-3 Bridge	Asia	60	54	15
126	1993	Oshiroike Bridge	Asia	51	45	6
125	1993	Seseragi Bridge	Asia	40	33	8
124	1993	Kawaju-Wakamatsu Bridge	Asia	–	74	2
123	1992	Higashi Kobe Bridge	Asia	885	220	96
122	1992	Oxford St. Footbridge	Pacific	267	47	8
121	1992	Siba Kouro Bridge	Asia	261	104	16
120	1992	Iberia Hangar	Europe	240	45	24
119	1992	Chuoh Bridge	Asia	220	102	32
118	1992	Gledalough Footbridge	Pacific	177	43	8
117	1992	Brittania Road Footbridge	Pacific	170	38	8
116	1992	Rumlang Bridge	Europe	106	35	8
115	1992	Taishou Bridge	Asia	95	19	32
114	1992	Deai Bridge	Asia	60	28	4
113	1991	Helgeland Bridge	Europe	1,065	225	128
112	1991	Ikuchi Bridge	Asia	790	245	56
111	1991	Sun at Wakayama Bridge	Asia	406	193	40
110	1991	Kinugawa Bridge	Asia	360	12	168
109	1991	Kita Bridge	Asia	337	159	60
108	1991	Sanuki Huchuko Bridge	Asia	195	105	14
107	1991	Haneda Access Bridge	Asia	178	66	12
106	1991	Okuwaka Bridge	Asia	165	70	12
105	1991	Tubasa Bridge	Asia	84	14	32
104	1990	Yishun Stadium Roofs	Asia	–	37	36
103	1990	Tomei Ashigara Bridge	Asia	390	100	80
102	1990	Bannaguro Bridge	Asia	227	92	22
101	1990	Karauko Bridge	Asia	178	94	16

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
100	1990	Gilly Bridge Over River Isere	Europe	160	103	46
99	1990	Pedestrian Bridge over the A75, Dumfries	Europe	110	37	12
98	1990	Shiroishi Bridge	Asia	68	38	5
97	1989	Sakitama Bridge	Asia	381	199	28
96	1989	2e Brienoord Bridge over the Maas, Rotterdam	Europe	295	42	56
95	1989	Bridge over the River Rhone, Chandoline	Europe	284	73	58
94	1989	Bridge over the Maas, Heusden	Europe	232	118	44
93	1989	Bridge over the Railway, Milan	Europe	189	45	32
92	1989	Nakayoi Bridge	Asia	110	47	12
91	1989	Swing Bridge, London Harbour	Europe	80	38	8
90	1989	Momijitani Bridge	Asia	50	23	6
89	1988	Tenpouzan Bridge	Asia	690	187	72
88	1988	Sugawara Sirokita Bridge	Asia	476	113	44
87	1988	Tokachi Chuou Bridge	Asia	450	120	56
86	1988	Ohura Bridge Bridge	Asia	148	25	52
85	1988	Hardwar Bridge	Asia	130	60	28
84	1988	Sadagawa Bridge	Asia	108	18	32
83	1988	Serizawa Bridge	Asia	90	17	18
82	1988	Hudoukutu Bridge	Asia	75	31	8
81	1988	Amakawa Hodou Bridge	Asia	61	22	8
80	1988	Kitano Fureai Bridge	Asia	58	22	8
79	1987	ALRT Sky Bridge	Americas	616	183	124
78	1987	Konohana Bridge	Asia	540	53	92
77	1987	Aratsu Bridge	Asia	343	166	26
76	1987	Ban - Naguro Bridge, Sapporo	Asia	230	93	22
75	1987	Mitsuya Bridge	Asia	88	44	16
74	1987	Fureai-2 Bridge	Asia	65	32	6
73	1987	Pedestrian Bridge, Pforzheim	Europe	63	14	8
72	1986	Hitsuishi Jima Bridge	Asia	790	192	176
71	1986	Bridge over the River Paraná	Americas	560	181	128



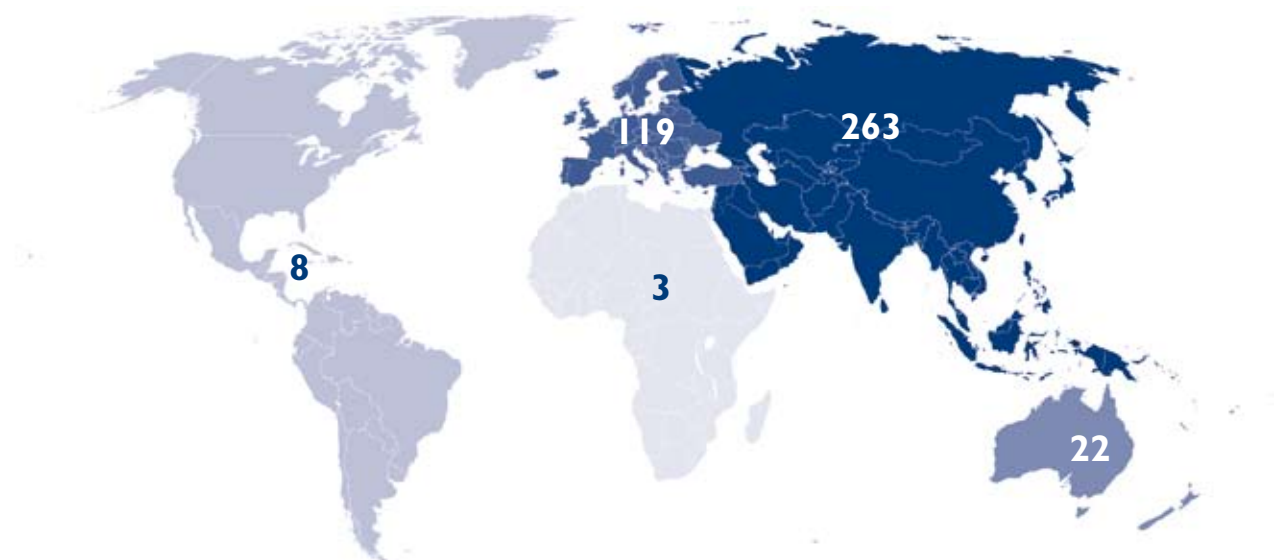
#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
70	1986	Hokko Bridge, Osaka	Asia	540	348	97
69	1986	Yasaka Bridge	Asia	420	108	32
68	1986	Katsushika Harp Bridge	Asia	414	142	48
67	1986	Torikai Niwaji Bridge	Asia	324	127	16
66	1986	Tsukuhara Bridge	Asia	174	95	44
65	1986	Bridge over the Crotta Valley	Europe	145	42	36
64	1986	Kamome Bridge	Asia	135	75	20
63	1986	Twin Bridges (-1) over Rhone River, St. Maurice	Europe	124	76	10
62	1986	Twin Bridges (-2) over Rhone River, St. Maurice	Europe	124	76	10
61	1986	Bridge over the North Holland Channel	Europe	109	23	32
60	1986	Kawashima Bridge	Asia	92	12	32
59	1986	Pedestrian Overpass, Canberra	Pacific	90	20	24
58	1986	Fureai-I Bridge	Asia	69	30	8
57	1985	Iwakuro Jima Bridge	Asia	790	192	176
56	1985	Faro Bridge	Europe	530	156	44
55	1985	Ohio River Bridge, East Huntington	Americas	460	232	62
54	1985	Kirumi Bridge	Africa	392	104	84
53	1985	Road Bridge over the Rhine, Diepoldsau	Europe	178	51	56
52	1984	Meiko Nishi Bridge	Asia	755	200	96
51	1984	Bridge over Ijssel Kampen	Europe	375	133	48
50	1984	Chichibu Bridge	Asia	193	113	16
49	1984	Takanshi Bridge	Asia	158	74	24
48	1984	Nakayosi Bridge	Asia	94	52	5
47	1983	Mt. Henry Bridge Erection Truss	Pacific	650	70	8
46	1983	Albert Canal Bridge	Europe	232	180	30
45	1982	National Day Parade Grandstand, Abu Dhabi	Asia	–	25	32
44	1982	Stadium Zuchwil	Europe	–	37	24
43	1982	Velodrome, Tripolis	Africa	–	49	48
42	1982	Uotsuri Bridge	Asia	119	47	4
41	1982	Yamanobe Bridge	Asia	80	34	6

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
40	1982	Pedestrian Overpass at Sydney	Pacific	67	43	6
39	1981	Rugby Football Union Grandstand, Twickenham	Europe	–	27	32
38	1981	Wind Power Plant Growian 2, Bremerhaven	Europe	–	43	6
37	1981	National Indoor Sports Centre Canberra	Pacific	–	55	60
36	1981	Highway Bridge Sloboda, Novi Sad	Europe	591	162	48
35	1981	Yasuragi Bridge	Asia	64	66	8
34	1980	Goodwood Stadium Grandstand	Europe	–	28	34
33	1979	Sports Stadium Roof, Split	Europe	–	33	28
32	1979	Athletics Centre Canberra	Pacific	–	60	55
31	1979	Highway Bridge over the River Hooghly	Asia	823	244	148
30	1979	Save River Bridge, Belgrade	Europe	354	118	64
29	1979	Hinoura Bridge	Asia	190	98	12
28	1979	Fujito Bridge	Asia	150	98	12
27	1979	Lyne Railroad Bridge	Europe	110	39	28
26	1979	Kawahara Pedestrian Bridge	Asia	73	30	8
25	1978	Centrepont Tower Sydney	Pacific	–	190	56
24	1978	Tarong B Powerstation Crane Stays	Pacific	–	56	4
23	1978	Columbia River Bridge	Americas	547	160	144
22	1977	Paraná de las Palmas	Americas	550	169	144
21	1977	Paraná de Guazú	Americas	550	169	144
20	1977	Arno River Bridge	Europe	347	114	28
19	1977	Jaba River Bridge Bougainville	Pacific	128	24	8
18	1976	Iron Ore Bucket Wheel Excavator	Pacific	–	40	8
17	1976	Wharf Crane Restraint Cables Fremantle	Pacific	–	28	4
16	1976	Pedestrian Bridge over NI, Wallisellen	Europe	66	15	8
15	1975	Pedestrian Bridge over the Neckar, Mannheim	Europe	253	75	56
14	1975	Pedestrian Bridge at Tilff	Europe	72	33	28
13	1975	Pedestrian Bridge at Obourg	Europe	64	27	12
12	1974	Donaukanalbrücke	Europe	231	112	32
11	1974	Pipeline Bridge, Bremgarten	Europe	84	31	16

#	Year	Name	Region	Total Span [ m ]	Max. Cable Length [ m ]	Cable Quantity [ nos ]
10	1974	Pedestrian Bridge, Diekirch	Europe	65	28	8
9	1973	Ice Rink Roof, Wetzikon	Europe	–	29	28
8	1973	Pedestrian Bridge, Villingen	Europe	98	26	12
7	1973	Bridge near Schwanden	Europe	68	37	28
6	1972	Rest house over the Motorway N1, Würenlos	Europe	–	25	24
5	1972	Olympic Stadium, Munich	Europe	–	136	488
4	1971	Highway Bridge Mannheim to Ludwigshafen	Europe	433	97	36
3	1970	Parking Deck, Zurich	Europe	–	19	28
2	1962	Pedestrian Bridge over the Birs, Basel	Europe	68	29	6
1	1960	Schillersteg Pedestrian Bridge, Stuttgart	Europe	93	50	10
Total				97,036		16,017
Maximum				2,732	460	488
Average				234	70	39

### Number of projects per region

Total	Asia	Europe	Pacific	Americas	Africa
415	263	119	22	8	3



### Projects in the following countries

Argentina, Australia, Austria, Belgium, Bosnia Herzegovina, Bulgaria, Canada, Costa Rica, Croatia, Denmark, Dominican Republic, Estonia, Finland, France, Germany, Hungary, India, Italy, Japan, Luxemburg, Lybia, Malaysia, Netherlands, New Zealand, North Korea, Norway, Poland, Portugal, Romania, Russia, Serbia, Singapore, Slovenia, South Africa, Spain, Switzerland, Taiwan, Tanzania, Thailand, United Arab Emirates, United Kingdom, United States, Vietnam

# Our commitment



Having reached this page, you can certainly be in no doubt as to our commitment to the finest technology and our enthusiasm for delivering our projects.

Our six decades of experience have resulted in BBR stay cable technology being applied to over 400 cable supported structures in the last 50 years and, in the process, we have continued to refine and enhance our range.

Technology does not however develop by itself – all through the years, we have been fortunate enough to have attracted some of the best engineers in the business. It is their dedication which has maintained the BBR reputation – and continues to do so today.

Our well-established worldwide network is supported in the development of cable-stayed structures by our Special Projects Team who will help to specify and procure the systems required. So, local knowledge synchronises with international know-how to realise projects – some large, some smaller, but always technically excellent and dramatically beautiful!



# #234

1997 – Longest cable-stayed bridge built in the 20<sup>th</sup> century  
Tatara Bridge, Ikuchi/Ohmishima, Japan

*“By far the best proof is experience.”*

Sir Francis Bacon

English author, courtier & philosopher  
1561 – 1626



**BBR VT International Ltd**  
Bahnstrasse 23  
8603 Schwerzenbach (ZH)  
Switzerland

Tel +41 44 806 80 60  
Fax +41 44 806 80 50

[www.bbrnetwork.com](http://www.bbrnetwork.com)  
[info@bbrnetwork.com](mailto:info@bbrnetwork.com)

**BBR VT International Ltd**  
Technical Headquarters and Business Development Centre  
Switzerland