

References ZBE Systems

Location	Project	Length (m)	Diameter	Year	Application
Belgium	blind shaft	191	8 ½"	1984	mining
Germany	blind shaft	243	8 ½"	1984	mining
Germany	blind shaft	147	8 ½"	1984/85	mining
Germany	Bunker/ drop hole	150	8 ½"	1985	mining
Germany	shaft	186	8 ½"	1985	mining
Germany	Bunker/ drop hole	128	8 ½"	1985	mining
Germany	shaft	377	8 ½"	1985	mining
Germany	Bunker/ drop hole	128	8 ½"	1985	mining
Belgium	blind shaft	191	8 ½"	1985	mining
Germany	ventilation hole	181	8 ½"	1985	mining
Germany	blind shaft	258	8 ½"	1985	mining
Germany	blind shaft	74	8 ½"	1986	mining
Germany	ventilation hole	177	8 ½"	1986	mining
Germany	shaft	75	8 ½"	1986	mining
Germany	ventilation hole	86	8 ½"	1986	mining
Germany	ventilation hole	233	8 ½"	1986	mining
Germany	blind shaft	175	8 ½"	1986	mining
Germany	blind shaft	115	8 ½"	1986	mining
Germany	drainage bore hole	130	8 ½"	1986	mining
Germany	ventilation hole	117	8 ½"	1986	mining
Germany	ventilation hole	247	8 ½"	1986	mining
Germany	ventilation hole	237	8 ½"	1986	mining
Germany	blind shaft	144	8 ½"	1987	mining
Germany	ventilation hole	95	8 ½"	1987	mining
Germany	blind shaft	111	8 ½"	1987	mining
Germany	blind shaft	224	8 ½"	1987	mining
Germany	blind shaft	307	8 ½"	1987	mining
Germany	blind shaft	400	8 ½"	1987	mining
Germany	ventilation hole	110	8 ½"	1987	mining
Germany	blind shaft	150	8 ½"	1987	mining
Germany	blind shaft	150	8 ½"	1987	mining
Germany	shaft	138	8 ½"	1987	mining
France	ventilation hole	88	8 ½"	1988	mining
Austria	plumb shaft	584	8 ½"	1988	civil field
Germany	ventilation hole	150	8 ½"	1988	mining
Germany	ventilation hole	105	8 ½"	1988	mining
Germany	shaft	87	8 ½"	1988	mining
Germany	blind shaft	245	8 ½"	1988	mining

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Germany	blind shaft	234	8 ½"	1988	mining
Germany	blind shaft	232	8 ½"	1988	mining
France	shaft	173	8 ½"	1988	mining
Sweden	utility gallery	98	8 ½"	1988	civil field
France	blind shaft	216	8 ½"	1988	mining
Germany	ventilation hole	113	8 ½"	1989	mining
France	shaft	248	8 ½"	1989	mining
Canada	blind shaft	137	8 ½"	1989	mining
Germany	ventilation hole	131	8 ½"	1989	mining
Austria	shaft	230	8 ½"/12 ¼"	1989	mining
Austria	dam project	44	8 ½"	1989	civil field
Austria	dam project	54	8 ½"	1989	civil field
Austria	dam project	29	8 ½"	1989	civil field
Germany	Bunker/ drop hole	130	8 ½"	1989	mining
Germany	utility gallery	185	8 ½"	1990	mining
Malaysia	shaft	321	8 ½"/12 ¼"	1990	mining
Malaysia	shaft	222	8 ½"/12 ¼"	1990	mining
Malaysia	shaft	352	12 ¼"	1990	mining
Austria	step shaft of dam	50	11"	1990	civil field
Austria	step shaft of dam	55	11"	1990	civil field
Germany	ventilation hole	388	8 ½"	1990	mining
France	blind shaft	220	8 ½"	1990	mining
Germany	ventilation hole	240	8 ½"	1990	mining
Germany	blind shaft	177	8 ½"	1990	mining
France	blind shaft	215	8 ½"	1990	mining
Germany	continental	3000	17 ½"/14 ¾"	1990/91	deep drilling project
Germany	pressure shaft	150	8 ½"	1991	mining
Austria	plant shaft	45	8 ½"	1991	civil field
Switzerland	ventilation shaft	310	8 ½"	1991	civil field
Germany	ventilation shaft	482	8 ½"	1991	mining
Italy	ventilation shaft	301	8 ½"	1992	civil field
Italy	ventilation shaft	253	8 ½"	1992	civil field
Italy	ventilation shaft	302	8 ½"	1992	civil field
Italy	ventilation shaft	307	8 ½"	1992	civil field
Germany	ventilation hole	175	8 ½"	1992	mining
Germany	blind shaft	173	8 ½"	1992	mining
Germany	shaft	285	8 ½"	1992	mining
Germany	shaft	154	8 ½"	1992	mining
Germany	gas cavern	470-1050	16"	1992	gas field
Germany	ventilation hole	114	8 ½"	1993	mining
Utah (USA)	water supply shaft	193	9"	1993	civil field

Location	Project	Length (m)	Diameter	Year	Application
Germany	flushing bore hole	712	17 1/2''/8 1/2''	1993	mining
Germany	pilot bore hole	140	8 1/2''	1994	mining
Norway	pilot bore hole	230	12 1/4''	1994	oil field
Switzerland	pilot bore hole	210	8 1/2''	1994	civil field
Italy	pilot bore hole inclination 45°	226	12 1/4''	1995	civil field
Germany	pilot bore hole	152	8 1/2''	1995	mining
Germany	pilot bore hole	52	8 1/2''	1995	mining
Germany	pilot bore hole	48	8 1/2''	1996	mining
Germany	pilot bore hole	70	8 1/2''	1996	mining
Germany	pilot bore hole	150	8 1/2''	1996	mining
Norway	planned deviated hole	140	12 1/4''	1996	oil field
Germany	pilot bore hole	360	8 1/2''	1996	mining
Southafrica	pilot bore hole	418,5	15''	1996	civil field
Germany	pilot bore hole	151,5	8 1/2''	1997	mining
Germany	pilot bore hole	100	8 1/2''	1997	mining
Germany	pilot bore hole	150	8 1/2''	1997	mining
Austria	pilot bore hole	60	8 1/2''	1997	civil field
Germany	cavern bore hole	440	12 1/4''	1997	gas field
Germany	cavern bore hole	805	12 1/4''/17 1/2''	1997	gas field
Germany	cavern bore hole	440	17 1/2''	1997	gas filed
Italy	pilot bore hole inclination 42°	250	12 1/4''	1998	civil field
Germany	pilot bore hole	90	8 1/2''	1998	mining
Germany	pilot bore hole	88	8 1/2''	1998	mining
Germany	pilot bore hole	75	8 1/2''	1998	mining
Germany	pilot bore hole	75	8 1/2''	1998	mining
Germany	pilot bore hole	187	8 1/2''	1998	mining
Italy	oil	228	17 1/2''	1998	oil field
Germany	pilot bore hole	215 x 25m	8 1/2''	1999	mining
Germany	pilot bore hole	100	8 1/2''	1999	mining
Germany	pilot bore hole	144	8 1/2''	1999	mining
Italy	oil	480	16''	1999	oil field
Canada	oil	700	8 1/2''	1999	oil field
Canada	oil	700	8 1/2''	1999	oil field
Italy	pilot bore hole	290	12 1/4''	1999	civil field
Italy	pilot bore hole	280	8 1/2''	1999	civil field
Germany	pilot bore hole 70° inclination	140	8 1/2''	2000	mining
Germany	pilot bore hole	60	8 1/2''	2000	mining

Location	Project	Length (m)	Diameter	Year	Tool	Application
Germany	pilot bore hole 72° inclination	100	8 ½"	2000		mining
Germany	pilot bore hole	140	8 ½"	2000		mining
Germany	pilot bore hole 72° inclination	100	8 ½"	2000		mining
Germany	pilot bore hole	100	8 ½"	2001		mining
Germany	pilot bore hole	1.254	13 ¾"	2001		mining
Germany	pilot bore hole	75	8 ½"	2002		mining
Germany	pilot bore hole	75	8 ½"	2002		mining
Germany	pilot bore hole	45	8 ½"	2002		mining
Germany	pilot bore hole	45	8 ½"	2002		mining
UK	field test RSS 4 ½"		6"	2002		oil/gas
USA	field test RSS 4 ½"		6"	2002		oil/gas
Germany	field test RSS 4 ½"		6"	2003		oil/gas
UAE	field test RSS 4 ½"		6"	2003		oil/gas
UAE	field test RSS 4 ½"		6"	2004		oil/gas
Syria	field test RSS 4 ½"		6"	2004		oil/gas
Germany	pilot bore hole	531	8 ½"	2004		gas
Sweden	pilot bore hole RSS 4 ½", 90° inclination	100	6"	2004		mining
Germany	field test		6"	2005	SCOUT 2000	oil/gas
Germany	pilot bore hole	72	8 ½"	2005	ZBE 3000	mining
Germany	pilot bore hole	305	8 ½"	2005	ZBE 3000	gas
Germany	pilot bore hole	180	8 ½"	2005	ZBE 3000	mining
Germany		580	6"	2005	ZBE 2000	gas
Germany	pilot bore hole	200	8 ½"	2005	ZBE 3000	mining
Poland		700	6"	2005	ZBE 2000	mining
Poland	build up section	100	6"	2005	SCOUT 2000	mining
USA		500	6"	2005	ZBE 2000	oil/gas
USA	field test		6"	2005	ZBE 2000	oil/gas
Germany	pilot bore hole	85	8 ½"	2005	ZBE 3000	mining
Poland	pilot bore hole	460	6"	2005	ZBE 2000	mining
	pilot bore hole	110	6"	2005	Scout 2000	mining
Germany	pilot bore hole	220	8 ½"	2005	ZBE 3000	mining
China		1.600	17 ½"	2006	ZBE 5000	gas
Germany	pilot bore hole	220	6"	2006	Scout 2000	mining
Germany		170	12 ¼"	2006	ZBE 4000	gas

Location	Length (m)	Diameter	Year	Tool	Application
Germany	460	6"	2006	ZBE 2000	gas
Poland	290	8 1/2"	2006	ZBE 3000	civil
	290	8 1/2"	2006	ZBE 3000	engineering
The Netherlands	490	6"	2006	ZBE 2000	geothermic
	410	12 1/4"	2006	ZBE 4000	geothermic
	580	12 1/4"	2006	ZBE 4000	geothermic
Germany	460	6"	2006	ZBE 2000	gas
USA	120	8 1/2"	2006	ZBE 3000	oil/gas
	300	8 1/2"	2006	ZBE 3000	oil/gas
	70	6"	2006	ZBE 2000	oil/gas
	100	6"	2006	ZBE 2000	oil/gas
	150	6"	2006	ZBE 2000	oil/gas
	40	6"	2006	ZBE 2000	oil/gas
Germany	80	12 1/4"	2007	ZBE 4000	mining
Germany	200	12 1/4"	2007	ZBE 4000	mining
China	1.600	17 1/2"	2007	ZBE 5000	gas
Germany	682	6"	2007	ZBE 2000	mining
Germany	363	12 1/4"	2007	ZBE 4000	mining
Germany	304	12 1/4"	2007	ZBE 4000	gas
Germany	169	8 1/2"	2007	ZBE 3000	mining
The Netherlands	250	12 1/4"	2007	ZBE 4000	geothermic
The Netherlands	250	12 1/4"	2007	ZBE 4000	geothermic
The Netherlands	415	12 1/4"	2007	ZBE 4000	geothermic
Germany	49	12 1/4"	2007	ZBE 4000	water
China	801	17 1/2"	2008	ZBE 5000	gas
Germany	28	12 1/4"	2009	ZBE 4000	water