

REFERENCE LIST as of 02 August 2010

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Algeria	Alger	OUED M KACEL	Sewage	BESSAC	EPB	4,60	4 350
Argentina	Buenos-Aires	AGUAS ARGENTINA	Sewage	LOVAT	EPB	5,50	2 000
Argentina	Buenos-Aires	RIO SUBTERRANEO	Sewage	HERRENKNECHT (2)	EPB	4,35	15 350
Argentina	Buenos-Aires	ARROYO MALDONADO	Sewage	LOVAT (2)	EPB	7,94	14 460
Australia	Brisbane	BRISBANE	Sewage	ROBBINS	ROCK	2,70	1 000
Australia	Gold Coast	Gold Coast Desalination Project	Water	HERRENKNECHT	Slurry	3,50	2 100
Australia	Gold Coast	Gold Coast Desalination Project	Water	HERRENKNECHT	Slurry	3,50	2 100
Australia	Melbourne	MELBOURNE SEWAGES	Sewage	LOVAT	EPB	3,50	8 000
Australia	Melbourne	NSPM	Sewage	HERRENKNECHT	EPB	4,00	4 738
Australia	Melbourne	NSPM	Sewage	HERRENKNECHT	EPB	3,00	2 839
Australia	Perth	PERTH	Sewage	LOVAT	EPB	3,00	3 000
Australia	Perth	PERTH METRO RAIL NEW CITY PROJECT	Train	MITSUBISHI	EPB	7,20	1 500
Australia	Port Hedland	PORT HEDLAND HARBOUR	Iron ore	LOVAT	EPB	5,00	1 100
Australia	Sydney	SYDNEY AIRPORT LINK	Subway	HERRENKNECHT	SLURRY	10,70	6 000
Austria	Brixlegg	ARGE H3-4 Münster/Wiesing	Railway	HERRENKNECHT	SLURRY	13,00	5 800
Austria	Chorherrn	TUNNEL WIENERWALD	Railway	HERRENKNECHT (2)	ROCK	10,70	21 400
Austria	Jenbach	ARGE H8 Wiesing/Jenbach	Railway	HERRENKNECHT	SLURRY	13,00	3 500
Austria	Jenbach	ARGE H8 Wiesing/Jenbach	Railway	HERRENKNECHT	ROCK	12,00	6 500
Austria	Wien	METRO U1	Subway	HERRENKNECHT	SLURRY	6,80	840
Austria	Wien	METRO U2	Subway	HERRENKNECHT	SLURRY	6,80	1 750
Austria	Wien	STEINSPORN	Sewage	HERRENKNECHT	PIPE JACKING	3,20	3 200
Austria	Wien	WIENER VORPRESSUNG NORDWEST	Sewage	HERRENKNECHT	PIPE JACKING	3,00	?

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Austria	Wien	WSKE	Sewage	HERRENKNECHT	EPB	8,50	2 500
Austria	Wien	Metro Line 3	METRO				
Austria	Bregenz	Pfändertunnel	Highway	HERRENKNECHT	ROCK	11,90	6 500
Belgium	Antwerp		Subway				
Belgium	Antwerpen	NORD-ZUID VERBINDUNG	Railway	HERRENKNECHT	SLURRY	8,27	2 460
Belgium	Brussels		Subway				
Belgium	Brussels	DIABOLO	Train	HERRENKNECHT	SLURRY	8,27	2 200
Belgium	Vise	DISTRIBORG GAS	Gas	HERRENKNECHT	SLURRY	3,80	1 200
Brasil	Brasilia	BRASILIA	Sewage	HERRENKNECHT	EPB	3,50	2 000
Brasil	Sao Paulo	Linha Amarela	Metro	HERRENKNECHT	EPB	9,43	7 900
Brasil	Sao Paulo	Gasoduto Gaguatatuba	Gaz	WIRTH	ROCK	6,18	5 000
Canada	Bathurst	TORONTO	Sewage	LOVAT (3)	EPB	3,00	4 100
Canada	Brunswick	EDMONTON LRT	Subway	LOVAT	EPB	6,50	600
Canada	Edmonton	EDMONTON	Sewage	LOVAT	EPB	2,40	3 500
Canada	Saint Clair river	SAINT CLAIR TUNNEL	Railway	LOVAT	EPB	10,00	2 000
Canada	Saskatoon	CIGAR LAKE	storage	VOEST ALPINE	OPEN	5,00	1 000
Canada	Toronto	TORONTO METRO	Subway	LOVAT (2)	EPB	6,00	1 400
Canada	Toronto	COXWELL BYPASS	Sewage	LOVAT	EPB	3,30	510
Canada	Vancouver	R.A.V.	Subway	LOVAT	EPB	6,50	4 500
China	Beijing	BEIJING Line 10	Subway	HERRENKNECHT(1) IHI(1)	EPB	6,25	6 000
China	Beijing	BEIJING Line 3	Subway	HERRENKNECHT(1)	EPB	6,25	2 000
China	Beijing	BEIJING Line 4	Subway	HERRENKNECHT(3)	EPB	6,25	6 000
China	Beijing	BEIJING Line 5	Subway	HERRENKNECHT(4) HITACHI(2) KOMATSU(1)	EPB	6,25	6 000
China	Chengdu	metro line1	Subway	HERRENKNECHT(4)	EPB	6,30	8 000
China	Chongqin	CHONGQIN	Sewage	HERRENKNECHT	SLURRY	6,20	1 000
China	Chongqin	CHONGQIN	Sewage	HERRENKNECHT	SLURRY	6,20	1 000
China	Guangzhou	GUANGZHOU Line 1	Subway	HERRENKNECHT(6)	EPB	6,40	12 000

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Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
				MITSUBISHI(2)			
China	Guangzhou	GUANGZHOU Line 2	Subway	NFM (2)	EPB	6,40	12 000
China	Guangzhou	GUANGZHOU Line 2	Subway	HERRENKNECHT(6) MITSUBISHI(2)	EPB	6,40	10 000
China	Guangzhou	GUANGZHOU Line 3	Subway	HERRENKNECHT(6) NFM (2) MITSUBISHI(4)	EPB	6,40	16 000
China	Guangzhou	GUANGZHOU Line 4	Subway	HERRENKNECHT(6) NFM(2) MITSUBISHI (6)	EPB	6,40	16 000
China	Guangzhou	LNG	Gas	HERRENKNECHT(2)	SLURRY	3,10	1 200
China	Nanjing	NANJING Line 1	Subway	HERRENKNECHT(3) MITSUBISHI(2)	EPB	6,40	9 000
China	Nanjing	Nanjing Yantze River	Road Tunnel	HERRENKNECHT(2)	SLURRY	15,32	
China	Shanghai	SHANGHAI	Road Tunnel	MITSUBISHI (3)	SLURRY	11,30	4 000
China	Shanghai	SHANGHAI CHONGMING PROJECT	Road Tunnel,Subway	HERRENKNECHT(2)	SLURRY	15,32	15 000
China	Shanghai	SHANGHAI DALIAN ROAD TUNNEL	Road Tunnel	MITSUBISHI(2)	SLURRY	11,30	2 000
China	Shanghai	SHANGHAI FUXING ROAD TUNNEL	Road Tunnel	MITSUBISHI(2)	SLURRY	11,30	2 000
China	Shanghai	SHANGHAI Line 1	Subway	FCB(7) NFM(2)	EPB	6,35	17 000
China	Shanghai	SHANGHAI Line 2	Subway	FCB(7) NFM(2)	EPB	6,35	24 000
China	Shanghai	SHANGHAI Line 2 West Extension	Subway	MITSUBISHI (1) STEC(1) KOMATSU(6) HERRENKNECHT(1)	EPB	6,35	10 000
China	Shanghai	SHANGHAI Line 4	Subway	FCB(7) NFM(2) MITSUBISHI(4)	EPB	6,35	22 000
China	Shanghai	SHANGHAI Line 6	Subway	FCB(7) NFM(2) MITSUBISHI(8) KOMATSU(3) IHI(3 ) HERRENKNECHT(1)	EPB	6,35	25 000
China	Shanghai	SHANGHAI Line 8	Subway	FCB(7) NFM(2) MITSUBISHI(8) KOMATSU(3) IHI(1)	EPB	6,35	33 000
China	Shanghai	SHANGHAI Line 9 (phase I)	Subway	KOMATSU(2) MITSUBISHI(4) STEC(1) HERRENKNECHT(1)	EPB	6,35	10 000

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Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
China	Shanghai	SHANGHAI Metro	Subway	NFM(2) MITSUBISHI (2) FCB(7)	EPB	6,35	55 000
China	Shanghai	SHANGHAI XIANGYING ROAD TUNNEL	Road Tunnel	MITSUBISHI(2)	SLURRY	11,30	2 000
China	Shanghai	SHANGHAI YANAN ROAD TUNNEL	Road Tunnel	MITSUBISHI(2)	SLURRY	11,30	2 000
China	Shanghai	SHANGHAI CHONGMING PROJECT	Water	HERRENKNECHT(2)	SLURRY	15,32	6 000
China	Shenyang	Water Supply	Water	WIRTH	ROCK	8,00	15 000
China	Shenyang	MetroLine1	Subway	KOMATSU(2)NFM(3) HERRENKNECHT(3)IHI(2)	EPN	6,35	
China	Shenzhen	SHENZHEN Line 1	Subway	HERRENKNECHT(3) KOMATSU(1) MITSUBISHI(1)	EPB	6,30	8 000
China	Shuozhou	YELLOW RIVER	Water	ROBBINS (2)	ROCK	6,10	?
China	Tianjin	TIANJIN Line 1	Subway	HERRENKNECHT(2)	EPB	6,40	2 600
China	Wuhan	road	Road Tunnel	NFM	Slurry	14,00	5 000
China	Xining	Water Supply	Water	WIRTH	ROCK	8,00	20 000
China	Yichang	LNG	Gas	HERRENKNECHT(1)	SLURRY	3,10	1 000
China	Zhengzhou	Yellow river	Water	HERRENKNECHT(2)	SLURRY	9,20	8 400
Colombia	Bogota	Interceptor Rio Bogota Fucha Tunjuelo (IFT)	Sewage	Herrenknecht	EPB	5,00	9 500
Colombia	Bogota	Interceptor ITB	Sewage	Herrenknecht	EPB	2,98	9 200
Colombia	Guavio	Guavio Hydraulic Gallery					
Denmark	Copenhagen	KOBENHAVNS FJERNVARME TUNNEL	Heating	HERRENKNECHT	EPB	5,10	3 900
Denmark	Copenhagen	COPENHAGEN Metro	Metro	NFM (2)	EPB	5,70	14 500
Denmark	Korsor	STOREBAELT	Railway	HOWDEN WIRTH (4)	EPB	8,90	8 000
Egypt	Cairo	CAIRO SEWAGES	Sewage	LOVAT / MARKHAM	EPB	3,80	5 000
Egypt	Cairo	EL AZHAR ROAD TUNNEL	Road Tunnel	HERRENKNECHT	SLURRY	9,40	5 400
Egypt	Cairo	GREATER CAIRO METRO	Metro	HERRENKNECHT	SLURRY	9,40	3 200

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Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Egypt	Cairo	LINE 2 Metro TBM dia 9.3	Shaft in water saturated sand	BOUYGUES			
Egypt	Cairo	TBM dia 3.3	Water saturated sand	C.W.C.			
Egypt	Cairo	GREATER CAIRO METRO LINE 3	Metro	HERRENKNECHT	SLURRY	9,45	4 280
Egypt	Nil	NIL SYPHOON	Sewage	LOVAT	EPB	3,80	5 000
Egypt	Suez	EL SAALAM TYPHON	Sewage	HERRENKNECHT	SLURRY	6,56	3 200
France	Annecy	Renforcement du Collecteur Rive Gauche du Lac d'Annecy	Sewage	BESSAC	BACK ACTOR	2,84	1 540
France	Bordeaux	BORDEAUX	Sewage	BESSAC	BACK ACTOR	2,80	990
France	Boulogne Billancourt		Ground stabilisation for underground parking	Les toits de Boulogne, Virginia, Créteil			
France	Boulogne Billancourt	Les toits de Boulogne 2	Ground stabilisation for underground parking	Sotraisol			
France	Bourg la Reine	BLAGIS CACHAN	Sewage	BESSAC	BACK ACTOR	3,54	3 500
France	Cachan	CACHAN CHARENTON Lot 1 & 2	Sewage	LOVAT	EPB	7,08	4 200
France	Cachan	CACHAN SOFOR	Sewage	BESSAC	BACK ACTOR	3,00	300
France	Cachan	CACHAN n°444	Sewage	BESSAC	BACK ACTOR	3,00	300
France	Champigny	NCSM	Sewage	HERRENKNECHT	EPB	2,00	1 100
France	Charenton Le Pont	VL9	Sewage	Charenton			
France	Charenton Le Pont	VL9	Sewage	BESSAC	EPB	3,10	1 100
France	Chevilly la Rue	CHEVILLY LA RUE	Sewage	BESSAC	BACK ACTOR	2,40	340

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Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
France	Chouilly	Gallerie de Chouilly	Sewage	BESSAC	BACK ACTOR	2,88	2 300
France	Colombes	LA GARENNE COLOMBE	Sewage	HERRENKNECHT	SLURRY	4,60	3 300
France	Cormailles	CORMAILLES	Sewage	BESSAC	BACK ACTOR	3,54	1 200
France	Corsica	Galerie du Rizzanese	Water	HERRENKNECHT	ROCK	3,90	5 800
France	Créteil	Construction immeubles	Ground consolidation	Sefi Intrafor			
France	Eaubonne	EAUBONNE	Sewage	BESSAC	BACK ACTOR	2,14	315
France	Ermont	ERMONT	Sewage	LOVAT	EPB	2,00	1 100
France	Flamanville	Centrale EDF EPR3	Cooling Water	HERRENKNECHT	SLURRY	6,00	850
France	Forbach	FORBACH	Sewage	BESSAC	BACK ACTOR	2,63	800
France	Franconville	FRANCONVILLE 1	Sewage	BESSAC	BACK ACTOR	2,63	600
France	Franconville	FRANCONVILLE 2	Sewage	BESSAC	BACK ACTOR	2,14	720
France	Gennevilliers	VLG 8	Sewage	HERRENKNECHT	EPB	2,50	2 000
France	Ile de la Réunion	RIVIERE DES PLUIES	Sewage	HERRENKNECHT	ROCK	3,86	17 500
France	Issy les Molineaux	ISSEANE	Sewage	BESSAC	BACK ACTOR	3,20	185
France	La Briche	CLICHY LA BRICHE Lot 1	Sewage	FCB / Kawasaki (x 2)	EPB	3,60	1 800
France	La Briche	CLICHY LA BRICHE Lot 2	Sewage	BESSAC	BACK ACTOR	3,60	900
France	La Briche	CLICHY LA BRICHE Lot 4	Sewage	COCCINELLE	EPB	3,60	1 100
France	La Briche	CLICHY LA BRICHE Lot 3	Sewage	HERRENKNECHT	SLURRY	3,75	1 000
France	La Défense	ENERTHERM	Heating	BESSAC	BACK ACTOR	3,65	1 350
France	Lille	LILLE Metro Line 2 lot 1	Subway	FCB	EPB	7,65	5 000
France	Lille	LILLE Metro Line 2 lot 3 / lot AB / lot F	Subway	FCB (3)	EPB	7,72	10 700
France	Lille	LILLE Metro Line1 lot 1	Subway	FCB	EPB	7,65	5 000
France	Lille	LILLE Siphon	Sewage	BESSAC	BACK ACTOR	2,53	152
France	Lille		Ground stabilisation				
France	Lyon	B.P.N.L	Railway	MITSUBISHI-NFM	EPB	11,00	6 500

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Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
France	Lyon	Water purification plant	Ground water proofing	BOTTE			
France	Lyon	Metro Line D	Station St-Jean				
France	Marseille	METRO PROLONGEMENT LIGNE 1	Subway	HERRENKNECHT	EPB	9,75	2 000
France	Marseille		Port Quay				
France	Moyeuivre	CS4 MOYEUVRE	Sewage	BESSAC	EPB	3,20	44
France	Paris	CUVIER	Sewage	LOVAT	EPB	3,30	300
France	Paris	Egoût Seine St Denis	Sewage	COCCINELLE / DECON	EPB	3,60	1 600
France	Paris	EOLE	Subway	VOEST ALPINE	SLURRY	7,40	3 400
France	Paris	LIRE SUD	Water distribution	LOVAT	EPB	3,60	2 500
France	Paris	METEOR	Subway	HDW	SLURRY	8,60	4 200
France	Paris	RER Line D2	Subway	LOVAT	OPEN	7,08	3 200
France	Paris	RICHARD LE NOIR SIPHON	Sewage	BESSAC	BACK ACTOR	2,14	80
France	Paris	RÛ DE MARIVEL	Sewage	HERRENKNECHT	SLURRY	5,14	1 300
France	Paris	CPCU	Hot Water	BESSAC	BACK ACTOR	3,20	690
France	Paris	DSRV	Sewage	HERRENKNECHT	EPB	4,10	434
France	Paris	LIRE SUD SAGEP	Sewage	BESSAC	BACK ACTOR	2,14	410
France	Paris	SAGEP	Water distribution	BESSAC	BACK ACTOR	3,54	950
France	Paris	STADE DE FRANCE	Water distribution	BESSAC	BACK ACTOR	4,94	300
France	Paris	TIMA 1	Sewage	HERRENKNECHT	EPB	7,70	1 850
France	Paris	TIMA 2	Sewage	HERRENKNECHT	EPB	4,88	750
France	Paris	TBM dia 5.4	Water saturated sand stone. Shaft next to Seine river	CSM Bessac			
France	Paris	TIMA TBM dia 7.7	Shaft next to Seine river	SPIE Fondations			

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Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
France	Paris		Sewage				
France	Paris	Metro METEOR	Tunnel				
France	Paris	Metro RER EOLE	Station				
France	Paris	METRO PROLONGEMENT L12	Subway	HERRENKNECHT	EPB	9,17	3 600
France	Paris	CPCU	Heating	BESSAC	BACK ACTOR	3,65	2 112
France	Paris 13	Galerie WATT - Campenon Bernard	Water	LOVAT	OPEN	3,24	125
France	Presilly	TUNNEL DU MONT SION - A41	Highway	HERRENKNECHT	ROCK	11,90	5 828
France	Prevessin-Moëns	CERN-CNGS	Nuclear ring	ROBBINS	ROCK	4,30	1 000
France	Reims	Galerie Technique	Sewage	BESSAC	EPB	3,50	750
France	Rouen	ROUEN Subway	Subway	HERRENKNECHT	SLURRY	8,30	850
France	Rueil	RUEIL MALMAISON	Road Tunnel	BESSAC	BACK ACTOR	3,20	150
France	Rueil Malmais.	COLLECTEUR DES RIGOLES	Sewage	LOVAT	EPB	2,50	900
France	Rueil Malmaison	SOCATOP - A86	Road Tunnel	HERRENKNECHT	MIXSHIELD	11,50	10 500
France	Rueil-Malmaison	TUNNEL RESERVOIR RUEIL MALMAISON	Sewage	LOVAT	OPEN	2,50	900
France	S. Marie / Mines	TUNNEL MAURICE LEMAIRE	Services Tunnel	HERRENKNECHT	ROCK	5,90	7 000
France	Saint Denis	PANTIN LA BRICHE Lot 1	Sewage	BESSAC	BACK ACTOR	3,54	700
France	Saint Denis	PANTIN LA BRICHE Lot 2	Sewage	COCCINELLE	EPB	3,60	1 100
France	Saint Denis	PANTIN LA BRICHE Lot 3	Sewage	HERRENKNECHT	SLURRY	3,75	1 000
France	Saint Denis	PANTIN LA BRICHE Lot 4	Sewage	BESSAC	BACK ACTOR	4,94	1 300
France	Samgatte	EUROTUNNEL T1	Railway	ROBBINS	EPB	8,78	4 000
France	Samgatte	EUROTUNNEL T2	Railway	KAWASAKI	EPB	8,78	20 000
France	Samgatte	EUROTUNNEL T3	Railway	KAWASAKI	EPB	8,78	18 900

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Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
France	Sceaux	RÛ DE CHATENAY - SPAC	Water tunnel tank	LOVAT	OPEN MODE	7,08	1 250
France	St Cloud	L.A.S lot 1 & 2	Sewage	LOVAT	EPB	3,70	2 500
France	St Cloud Nante	EMISSAIRES SEVRES ACHERES	Sewage	HERRENKNECHT	SLURRY	4,50	3 000
France	St-Maur	VL 3 B	Sewage	LOVAT	EPB	3,45	1 400
France	St-Maur	VL 3 C	Sewage	HERRENKNECHT	EPB	3,45	1 400
France	Strasbourg	STRASBOURG TRAMWAY	Railway	HERRENKNECHT	SLURRY	8,30	1 200
France	Thiais	VL 10	Sewage	HERRENKNECHT	EPB	3,50	2 600
France	Toulouse	TOULOUSE lot 2	Subway	HERRENKNECHT	EPB	7,80	5 125
France	Toulouse	TOULOUSE lot 4	Subway	FCB	EPB	7,72	3 731
France	Toulouse	TOULOUSE lot 5	Subway	FCB	SLURRY	7,72	3 163
France	Toulouse	TOURNEFEUILLE	Sewage	BESSAC	BACK ACTOR	2,80	433
France	Valenton	VL 10 Lot 2	Sewage	BESSAC	EPB	4,80	1 850
France	Valenton	SESAME JOBSITE	Sewage	BESSAC	BACK ACTOR	2,70	180
France	Vénissieux	EPSE	Water	NFM / MITSUBISHI	BACK ACTOR	4,42	5 200
France	Villiers sur Marne	LA LAITERIE	Sewage	BESSAC	BACK ACTOR	2,70	280
Germany	Berlin	ARGE ADL BIE-WA VE	Sewage	HERRENKNECHT - SMET	SLURRY	3,50	5 400
Germany	Berlin	KALBETUNNEL	Services	HERRENKNECHT	SLURRY	3,80	1 100
Germany	Berlin	U5 BERLIN	Subway	HERRENKNECHT	SLURRY	6,75	900
Germany	Berlin	ZENTRALER TUNNEL BERLIN	Railway	HERRENKNECHT (2)	SLURRY	9,00	5 200
Germany	Effringen Kirchen	KATZENBERG	Railway	HERRENKNECHT (2)	EPB	10,50	1 200
Germany	Emden	EEMS DOLLARD RIVER	Pipeline	SMET	SLURRY	3,70	4 000
Germany	Hamburg	ELBE TUNNEL	Road Tunnel	HERRENKNECHT	SLURRY	14,20	2 600
Germany	Hamburg	HAMBURG Flughafen	Metro	HERRENKNECHT	SLURRY	6,90	1 750
Germany	Hamburg	U4 HAFENCITY	Metro	HERRENKNECHT	SLURRY	6,30	5 600
Germany	Herrengosserstedt	FINNETUNNEL	Railway	HERRENKNECHT (2)	ROCK/SLURRY	10,70	13 600
Germany	Hofoldingen	HOFOLDINGER STOLLEN	Sewage	LOVAT	BACK ACTOR	3,50	17 000

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Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Germany	Köln	KÖLN Nord	Metro	HERRENKNECHT	SLURRY	6,80	520
Germany	Köln	KÖLN Sud	Metro	HERRENKNECHT	SLURRY	8,40	5 360
Germany	Leipzig	CTL LEIPZIG	Subway	HERRENKNECHT	SLURRY	9,00	2 954
Germany	Lübeck	HERRENTUNNEL	Road Tunnel	HERRENKNECHT	SLURRY	11,67	1 520
Germany	München	ARGE MITTLERER RING OST	Sewage	VOEST ALPINE	OPEN	4,50	1 250
Germany	München	UBAHN 1 MÜNCHEN	Subway	HERRENKNECHT	SLURRY	7,40	2 340
Germany	München	VEYARN	Hot Water	LOVAT	EPB	3,50	7 000
Germany	Schlüchtern	ARGE TUNNEL SCHLÜCHTERN	Railway	NFM-WIRTH	EPB	9.90	3 995
Greece	Athens	ACHELOOS	Road Tunnel	WIRTH	ROCK	7,20	9 500
Greece	Athens	ATHENS Metro	Subway	NFM/HERRENKNECHT	EPB	9,40	3 500
Greece	Athens	ATTIKO METRO	Subway	HERRENKNECHT	EPB	9,46	4 000
Greece	Athens	TUNNEL ELLINIKO	Subway	HERRENKNECHT	EPB	9,46	4 670
Greece	Thessaloniki	METRO THESSALONIKI	Subway	HERRENKNECHT	EPB	6,20	13 000
Hong-Kong	Hong Kong	Tsim Sai Tsui KCR	Train	HERRENKNECHT	SLURRY	6,00	3 800
Hong-Kong	Hong-Kong	GAMON DTSS	Sewage	ROBBINS (2)	ROCK	4,90	5 000
Hong-Kong	Hong-Kong	Hong Kong Sewage	Sewage	ROBBINS	ROCK	4,60	3 000
Hong-Kong	Hong-Kong	KAE TAK SEWAGE	Sewage	HERRENKNECHT	SLURRY	5,17	1 400
Hong-Kong	Hong-Kong	KCRC 320	Railway	NFM	EPB	8,75	3 700
Hong-Kong	Hong-Kong	LOK MA CHAU	Railway	BESSAC	BACK ACTOR	3,80	800
Hong-Kong	Hong-Kong	LOK MA CHAU	Railway	NFM	EPB	8,75	7 400
Hong-Kong	Hong-Kong	Traditional Tunnel Boring	METRO	Gammon Skanska			
Hong-Kong	Hong-Kong	Traditional Tunnel Boring	Ground stabilisation	CHUN WO			
Hong-Kong	Hong-Kong	TBM dia 3.8	Weathered rock	Soletanche Bachy			
Hong-Kong	Hong-Kong	TBM dia 8.74	Weathered rock	Soletanche Bachy			
Hong-Kong	Hong-Kong		MTR Hong-Kong				
Hong-Kong	Hong-Kong	Castle Peack Cable Tunnel	Electric cable	HERRENKNECHT	ROCK	5,25	4 000

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Hungary	Budapest	Budapest Metro Line 4	Subway	HERRENKNECHT (2)	EPB	6,05	10 400
Hungary	Szeged	SZEGZED pipe	Water	HERRENKNECHT	EPB	2,40	3 450
India	New Dehli	NEW DELHI METRO Phase I	Subway	HERRENKNECHT (3)	EPB/ROCK	6,45	3 300
India	New Dehli	NEW DELHI METRO Phase II - BC16 -	Subway	HERRENKNECHT (2) ROBBINS (2)	EPB	6,50	7 400
India	New Dehli	NEW DELHI METRO Phase II - BC18 -	Subway	HERRENKNECHT (2)	EPB	6,45	5 000
India	New Dehli	NEW DELHI METRO Phase II - C1 -	Subway	HERRENKNECHT (2)	EPB	6,50	4 000
India	New Dehli	NEW DELHI METRO Phase II - C5-	Subway	OKAMURA (2)	EPB	6,40	3 000
India	Tapovan	TAPOVAN	Hydro Electric	HERRENKNECHT (1)	Rock	6,55	8 300
Iran	Ghomroud	GHOMROUD	Subway	HERRENKNECHT '1)	EPB/Rock	4,50	4 500
Iran	Shiraz	SHIRAZ	Subway	NFM(2)	EPB	6,88	30 000
Iran	Tabriz	TABRIZ	Subway	NFM (2)	EPB	6,88	7 500
Iran	Tehran	ALAMOOT - AGSA	Sewage	LOVAT	EPB	4,30	6 100
Ireland	Cork	NUTTALL	Drainage	LOVAT	EPB	3,42	2 600
Ireland	Dublin	DUBLIN PORT TUNNEL	Road Tunnel	HERRENKNECHT (2)	OPEN	11,90	4 800
Ireland	Limerick	MURPHY	Sewerage	LOVAT	EPB	3,10	2 500
Italie	Napoli	METRO NAPOLI L6	Subway	WIRTH	EPB	8,16	3 000
Italie	Roma	METRO ROMA B1	Subway	HERRENKNECHT	EPB	9,16	800
Italie	Saraigna	CAPO BOI TERRA MALA	Water	WIRTH	ROCK	3,90	5 000
Italy	Andora	SAN LORENZO	Train	HERRENKNECHT	ROCK	12,40	13 000
Italy	Bologna	NODO DI BOLOGNA	Railway	LOVAT(2)	EPB	9,30	12 300
Italy	Brescia	METRO BRESCIA	Metro	HERRENKNECHT	EPB	9,18	6 000
Italy	Castellanza	CASTELLANZA	Train	WIRTH	EPB	8,16	3 740
Italy	Dolomites	MONTE ZUCCO	Railway	NFM	EPB	8,01	1 500

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Italy	Firenze	CAVET High speed railway	Railway	WIRTH	ROCK	6,30	9 000
Italy	Genova	METRO GENOVA	Subway	WIRTH	EPB	6,30	2 500
Italy	Milano	METROFIERA	Subway	LOVAT	EPB	6,55	2 100
Italy	Milano	METRO MILANO LINE 5	Metro	LOVAT	EPB	9,40	3 450
Italy	Napoli	METRO NAPOLI LINE 1	Subway	HERRENKNECHT (2)	EPB	6,70	7 620
Italy	Roma	METRO ROMA	Metro	VOEST ALPINE	SLURRY	8,00	3 000
Italy	Roma	METRO Roma QUATTRO VENTI	Subway	HERRENKNECHT	EPB	8,00	1 960
Italy	Roma	Metro	Ground stabilisation				
Italy	Roma	METRO ROMA LINE C	Metro	HERRENKNECHT (4)	EPB	6,70	12 350
Italy	Roma	METRO ROMA LINE B1	Metro	HERRENKNECHT (2)	EPB	6,70	7 200
Italy	Settingiano	SETTINGIANO	Train	NFM	EPB	8,70	1 500
Italy	Torino	METRO TORINO LOT 3	Subway	LOVAT	EPB	7,80	3 100
Italy	Torino	METRO TORINO LOT 4	Subway	LOVAT	EPB	7,80	2 500
Italy	Torino	METRO TORINO LOT 5	Subway	NFM	EPB	7,80	2 700
Italy	Torino	METRO TORINO ext Line 1 lot 2	Metro	HERRENKNECHT	EPB	7,75	3 000
Italy	Milano	Metro	Ground stabilisation				
Japan	Kobe	KOBE	Road Tunnel	KAWASAKI	SLURRY	9,00	2 000
Japan	Kyoto	KYOTO TOZAI LINE	Subway	HITACHI	EPB	7,00	400
Japan	Osaka	OSAKA	Gas line	KOMATSU	EPB	2,80	1 100
Japan	Osaka	OSAKA / IBARAKI	Sewage	HITACHI	EPB	2,68	2 100
Japan	Tokyo	MIKAWASHIMA	Sewage	KAWASAKI	EPB	2,69	800
Japan	Tokyo	TOKYO BAY TUNNEL	Road Tunnel	mitsubishi	SLURRY	13,90	2 000
Japan	Tokyo	TOKYO SHINBASHI	Elect. Cable	KME	SLURRY	4,03	150
Japan	Yokohama	YOKOHAMA SEWAGE	Sewage	KOMATSU	EPB	2,69	400
Malaysia	Kuala Lumpur	METRO KUALA LUMPUR	Subway	WIRTH	EPB	6,80	3 500
Malaysia	Kuala Lumpur	Smart	Road/sewage	HERRENKNECHT	SLURRY	13,20	9 000

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Marocco	Abda Doukkala	DOUKKALA	Sewage	ROBBINS	ROCK	7,20	12 400
Mexico	Mexico	TUNEL DE LA COMPANIA	Sewage	HERRENKNECHT	EPB+PUMP	6,30	6 700
Mexico	Mexico	METRO Line 12	Subway	ROBBINS	EPB+PUMP	10,20	8 000
Netherlands	Den Haag	HUBERTUS TUNNEL Combinatie	Railway	HERRENKNECHT	Slurry	10,20	2 980
Netherlands	Heinenoord	TWEEDE HEINENOORD	Road Tunnel	HERRENKNECHT	SLURRY	8,55	1 880
Netherlands	Netherlands	BOTLEKPOORTUNNEL	Railway	HERRENKNECHT	EPB	9,75	3 600
Netherlands	Netherlands	GROENE HART	Railway	NFM	SLURRY	14,87	7 010
Netherlands	Netherlands	PANNERDENSCH KANAAL	Railway	HERRENKNECHT	SLURRY	9,86	3 200
Netherlands	Netherlands	SOPHIA TUNNEL	Railway	HERRENKNECHT	SLURRY	9,80	8 200
Netherlands	Oude	SATURN LEIDINGEN TUNNEL	Cable Tunnel	HERRENKNECHT	SLURRY	5,14	330
Netherlands	Rotterdam	STATENWEGTRACE	Railway	HERRENKNECHT	Slurry	6,78	4 700
Netherlands	Utrecht	SIKA	Injections - divers				
Netherlands	Utrecht	Volker	Ground consolidation	Volker			
New-Zealand	Auckland	Hobson Bay	Water	LOVAT	EPB		
New-Zealand		MERCURY TUNNEL		ROBBINS	ROCK	3,00	?
Portugal	Lisbon	METRO LISBON	Subway	FCB	EPB	9,80	9 820
Portugal	Lisbon	METRO LISBON - Linha Amarela	Subway	LOVAT	EPB	9,80	2 400
Portugal	Lisbon	METRO LISBON - Metrexpo	Subway	LOVAT	EPB	9,80	1 600
Portugal	Porto	METRO OPORTO	Subway	HERRENKNECHT (2)	EPB	8,75	4 000
Puerto Rico	San Juan	KIEWIT/KENNY/ZACHRY CMA	Subway	LOVAT	EPB	6,30	1 800
Rep Dominicana	Santo Domingo	PALOMINO	Water	HERRENKNECHT	ROCK	4,60	11 200
Roumania	Cluj Napoca	GHEORGHENI TUNNEL	Sewage	BESSAC	BACK ACTOR	2,63	1 350

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Russia	Cheliabinsk	CHELIABMETROSTROY	Metro	LOVAT	EPB	6,20	2 000
Russia	Kazan	KAZMETROSTROY	Subway	LOVAT (2)	EPB	6,10	12 000
Russia	Khabarosk	KHABAROSK	Water	LOVAT	EPB	3,50	2 000
Russia	Kraznoyarsk	BAMTUNNELSTROY	Subway	LOVAT	EPB	6,15	1 000
Russia	Moscow	LEFORTOVO	Road Tunnel	HERRENKNECHT	SLURRY	14,30	2 400
Russia	Moscow	MINI METRO MOSCOW	Subway	LOVAT (2)	EPB	6,30	2 500
Russia	Moscow	MOSCOW	Sewage	BESSAC	BACK ACTOR	4,36	900
Russia	Moscow	MOSTOVIK	Sewage	LOVAT	EPB	2,60	1 000
Russia	Moscow	SEREBRIANI POR	Road Tunnel	HERRENKNECHT	SLURRY	14,30	1 500
Russia	Moscow	Geoton	Sewage	LOVAT	EPB	4.00	1 250
Russia	Moscow	Metro Strogino	Subway	HERRENKNECHT	SLURRY	6.00	1 500
Russia	Moscow	Metro Strogino	Subway	HERRENKNECHT	EPB	6.25	3 000
Russia	Moscow	Metro Strogino	Subway	LOVAT	EPB	6.10	2 900
Russia	Moscow	Cable tunnel /Ingstroy	Utilities	HERRENKNECHT (3)	EPB	3.50	3 000
Russia	Moscow	Cable tunnel MP Termoservice	Utilities	HERRENKNECHT (3)	EPB	4.10	500
Russia	Moscow	Cable tunnel GPR-1	Utilities	LOVAT	EPB	3.90	500
Russia	Novosibirsk	NOVOSIBIRSK	Metro	LOVAT	EPB	6,20	1 500
Russia	Omsk	Cable tunnel	Utilities	LOVAT	EPB	3.20	1 200
Russia	Omsk	Cable tunnel	Utilities	LOVAT	EPB	3.10	1 200
Russia	Omsk	Metro	Metro	LOVAT	EPB	6,20	600
Russia	St Petersburg	ST PETERSBURG	Subway	VOEST ALPINE	SLURRY	7,40	1 600
Russia	St Petersburg	ESCALATOR	Subway	HERRENKNECHT	EPB	10,40	120
Russia	Sochi	MOSMETROSTROY T03	Road tunnel	HERRENKNECHT	ROCK	12,80	4 100
Russia	Sochi	MOSMETROSTROY T05	Railway tunnel	HERRENKNECHT	EPB	10,30	2 800
Serbia	Belgrade	INTERCEPTOR TUNNEL	Water	WIRTH	EPB	4,80	6 700
Singapore	Singapore	Cable 302	Electric cable	LOVAT	EPB	5,90	2 634

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Singapore	Singapore	Changi airport	Metro	LOVAT	EPB	5,90	7 000
Singapore	Singapore	Circle Line 822	Metro	MITSUBISHI	EPB	6,60	4 000
Singapore	Singapore	Circle Line 823	Metro	MITSUBISHI	EPB	6,60	2 200
Singapore	Singapore	Circle Line 824	Metro	HITACHI	EPB	6,60	3 000
Singapore	Singapore	Circle Line 825	Metro	HERRENKNECHT	EPB	6,60	3 000
Singapore	Singapore	Circle Line 852	Metro	HERRENKNECHT	EPB	6,60	1 820
Singapore	Singapore	CIRCLE LINE STAGE 2 C822	Subway	MITSUBISHI	EPB	6,55	4 180
Singapore	Singapore	DTSS TO1	Sewage	HERRENKNECHT	EPB	7,30	5 900
Singapore	Singapore	DTSS TO3	Sewage	KAWASAKI	EPB	7,20	5 200
Singapore	Singapore	DTSS TO4	Sewage	MITSUBISHI	EPB	5,20	7 200
Singapore	Singapore	DTSS TO5	Sewage	HERRENKNECHT	EPB	4,93	12 600
Singapore	Singapore	DTSS TO6	Sewage	HERRENKNECHT (2)	EPB	4,20	9 700
Singapore	Singapore	KIM CHUAN	Sewage	LOVAT / KAWASAKI	EPB	3,35	5 600
Singapore	Singapore	MRT 703	Subway	MITSUBISHI	EPB	6,50	2 600
Singapore	Singapore	MRT 704	Subway	LOVAT	EPB	6,50	5 000
Singapore	Singapore	MRT 705	Subway	HITACHI	EPB	6,46	2 800
Singapore	Singapore	MRT 706	Subway	HERRENKNECHT	EPB	6,55	3 200
Singapore	Singapore	MRT 708	Subway	HITACHI	EPB	6,50	720
Singapore	Singapore	SENOKO CABLE	Cable Tunnel	ROBBINS	ROCK	4,00	3 800
Singapore	Singapore	Circle Line 854	Metro	KAWASAKI(4)	SLURRY	6,60	8 486
Singapore	Singapore	Circle Line 855	Metro	HERRENKNECHT(2)	SLURRY	6,60	6 000
Singapore	Singapore	Circle Line 855	Metro	HERRENKNECHT(2)	EPB	6,60	3 200
Singapore	Singapore	Circle Line 856	Metro	HERRENKNECHT	EPB	6,60	3 200
South Africa	Durban	DURBAN PORT	Services	HERRENKNECHT	SLURRY	5,10	530
South Africa	Johannesburg	GAUTRAIN rapid rail link	Train	HERRENKNECHT	EPB	6,80	3 000
South Korea	Ansan	ANSAN ELC	Cable	LOVAT	EPB	3,50	850

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
South Korea	Ansan	TELE CABLE TUNNEL - ANSAN		LOVAT	EPB	3,50	?
South Korea	Han	HAN RIVER	Cable	LOVAT	EPB	2,70	1 900
South Korea	Masan	MASAN EPCT	Elect. Cable	HERRENKNECHT	EPB	3,42	2 400
South Korea	Massa	MASSA	Cable	LOVAT / KAWASAKI	EPB	3,50	3 200
South Korea	Pusan	KEPCO	Wires	KHI	EPB	2,50	800
South Korea	Pusan	SASANG CABLE TELEPHONE	Wires	LOVAT	EPB	3,50	?
South Korea	Seoul	Seoul 909	Metro	Kawasaki	SLURRY	7,93	1 934
South Korea	Seoul	Tuksu	sewage	HERRENKNECHT	SLURRY	3,77	1 300
South Korea	Siheun	SIHEUN DOKSANELEC CABLE			EPB	3,50	2 700
Spain	Abdalajis	ABDALAJIS (TGV line)	Railway	MITSUBISHI	Rock	10,00	?
Spain	Albacete	VARIANTE DE CAMARILLAS	Train	HERRENKNECHT	EPB	10,59	2 500
Spain	Alcorcon	METROSUR ACS	Subway	HERRENKNECHT	EPB	9,35	9 600
Spain	Alicante	UTE COLECTOR ALICANTE	Sewage	LOVAT	EPB	3,10	3 500
Spain	Alicante	DESALADORA	Sewage	CSM BESSAC	BACK ACTOR	3,50	1 000
Spain	Aviles	COLECTOR AVILES	Sewage	LOVAT	EPB	3,97	3 500
Spain	Barcelona	UTE TUNELADORA	Subway	HERRENKNECHT	EPB	9,40	1 400
Spain	Barcelona	UTE TRIANGLE	Subway	NFM	EPB	12,00	700
Spain	Barcelona	METRO LINE 9	Subway	Dragados - FCC	EPB	12,00	3 000
Spain	Barcelona	METRO LINE 6	Subway				
Spain	Barcelona	UTE TUNELA AEROPORT	Subway	HERRENKNECHT x 2	EPB	9,40	12 000
Spain	Barcelona	UTE GORG	Subway	HERRENKNECHT x 2	EPB	12,00	10 500
Spain	Barcelona	TUNEL SANT JUST	Water	SELI	ROCK	6,00	5 800
Spain	Barcelona	OHL TUNEL TRINITAT	Water	HERRENKNECHT	ROCK	6,00	6 200

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Spain	Barcelona	AVE TRINIDAD	Train	HERRENKNECHT	EPB	12,00	3 500
Spain	Barcelona	TUNEL TERRASSA	Train	LOVAT x 2	EPB	6,90	7 000
Spain	Barcelona	ACCIONA BESOS	Water	PIPE JACKING	SLURRY	1,80	1 000
Spain	Barcelona	BARCELONA UTE LINIA 9	Subway	WIRTH - NFM	EPB/ROCK	11,95	5 000
Spain	Figueres	TUNEL DE PERTHUS	Train	HERRENKNECHT (2)	EPB	9,96	16 460
Spain	Fuenlabrada	METROSUR NECSO	Subway	HERRENKNECHT	EPB	9,35	3 000
Spain	Getafe	METROSUR FERROVIAL	Subway	HERRENKNECHT	EPB	9,35	7 300
Spain	Gijon	METRO TREN DE GIJON - ACCIONA	Subway-train	HERRENKNECHT	EPB	10,56	3 950
Spain	La Robla	LA ROBLA	Cementery	LOVAT	OPEN	7,40	1 500
Spain	Leganes	METROSUR DRAGADOS	Subway	NFM	EPB	9,35	7 300
Spain	Madrid	LINEA 1 METRO MADRID- VALLECAS, Ferrovial	Subway	HERRENKNECHT	EPB	9,40	2 800
Spain	Madrid	ALCOBENDAS	Railway	NFM	EPB	9,35	3 500
Spain	Madrid	BARAJAS	Subway	LOVAT	OPEN	3,20	1 000
Spain	Madrid	BARAJAS AEROPUERTO	Subway	NFM (2)	EPB	9,35	5 400
Spain	Madrid	BUTARQUE	Sewage	LOVAT	EPB	2,60	7 250
Spain	Madrid	CHAMARTIN-NUEVOS MINISTERIOS - Ferrovial	Train	HERRENKNECHT	EPB	8,43	2 500
Spain	Madrid	LEON	Water	LOVAT	EPB	7,40	2 000
Spain	Madrid	LINEA 1-4 - SACYR	Metro	HERRENKNECHT	EPB	8,91	3 200
Spain	Madrid	LINEA 3 LEGAZPI	Subway	HERRENKNECHT /NFM	2 EPB	9,37	9 400
Spain	Madrid	LINEA 5 - FERROVIAL	Metro	HERRENKNECHT	EPB	9,40	3 000
Spain	Madrid	LINEA 7 TRAMO 2 - Dragados	Subway	LOVAT	EPB	7,20	4 000
Spain	Madrid	LINEA 7 TRAMO 3 - Dragados	Metro	HERRENKNECHT	EPB	9,40	4 500
Spain	Madrid	M 30 BY PASS SUR	Road Tunnel	HERRENKNECHT	EPB	15,20	3 600

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
		NORTE					
Spain	Madrid	M 30 BY PASS SUR SUR	Road Tunnel	MHI - FELGUERA	EPB	15,10	3 600
Spain	Madrid	MADRID Linea 10 Prolong.DRAGADOS	Subway	LOVAT	OPEN	7,40	4 000
Spain	Madrid	MADRID Linea 10 Prolong.FCC	Subway	NFM	EPB	9,35	2 000
Spain	Madrid	MADRID Linea 10 Recintos Feriales	Subway	LOVAT	OPEN	7,40	2 600
Spain	Madrid	MADRID Linea 4	Subway	NFM (2)	EPB	9,35	6 500
Spain	Madrid	MADRID Linea 7 FCC	Subway	NFM	EPB	9,35	8 200
Spain	Madrid	MADRID Linea 7 Paloma	Subway	HERRENKNEHT	EPB	9,35	11 000
Spain	Madrid	MADRID Linea 9	Subway	HERRENKNECHT (2)	EPB	9,35	6 500
Spain	Madrid	MAR DE CRISTAL Metro	Subway	HERRENKNECHT	EPB	9,35	2 400
Spain	Madrid	METRO NORTE TRAMO 1B, 1C, 2A - ACCIONA	Metro	HERRENKNECHT (2)	EPB	9,33	9 900
Spain	Madrid	METRO NORTE TRAMO 2B - OHL	Subway	HERRENKNECHT	EPB	9,40	4 500
Spain	Madrid	PASILLO VERDE TUNNEL	Subway	LOVAT	OPEN	7,40	11 000
Spain	Madrid	PAU VALLECAS MADRID	Sewage	BESSAC	BACK ACTOR	3,65	2 000
Spain	Madrid	UTE EORF	Subway	HERRENKNECHT	SLURRY	6,50	2 600
Spain	Madrid	UTE TUNEL ATOCHA- NUEVOS MINISTERIOS	Train	NFM	EPB	9,38	4 500
Spain	Madrid	VALDEMARIN	Sewage	LOVAT	EPB	2,44	2 500
Spain	Madrid	ABRONIGALES	Sewage	HERRENKNECHT	EPB	7.70	5 000
Spain	Madrid	METRO LINE 10	Subway	Dragados			
Spain	Madrid	METRO SUR	Subway	Dragados, ACS, FCC, NESCO, Ferrovial			
Spain	Madrid	METRO LINE 8 MAR DE CRISTAL	Subway	NESCO			

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Spain	Madrid	METRO LINE 1	Subway				
Spain	Madrid	METRO LINE 2	Subway				
Spain	Madrid	METRO LINE 7	Subway				
Spain	Madrid	TUNNEL CHAMARTIN NUEVOS MINISTERIOS	Rail	Ferrovial			
Spain	Madrid	PUERTA DEL SOL	Subway				
Spain	Madrid	COLLADO VILLALBA	Sewage	HERRENKNECHT	EPB	3,60	1 000
Spain	Madrid	SANDO COSLADA	Water	LOVAT	EPB	4,71	4 000
Spain	Madrid	LINE 11 LA FORTUNA	Subway	NFM	EPB	9,38	3 200
Spain	Madrid	TUNEL MOSTOLES - NAVALCARNERO	Subway	HERRENKNECHT	EPB	10,59	3 500
Spain	Madrid	EUROHINCA	Sewage	HERRENKNECHT	EPB	3.50	1 300
Spain	Madrid	ESTANQUE DE TORMENTAS ARROYO FRESNO	Sewage	LOVAT	EPB	7.40	3 200
Spain	Madrid	METRO BARAJAS TERMINAL 4	Subway	NFM	EPB	9.38	1 400
Spain	Majaceite	MAJACEITE	Sewage	NFM	EPB	4,90	7 000
Spain	Malaga	UTE NUEVA PISTA	Train	HERRENKNECHT	EPB	9,33	1 900
Spain	Mostoles	METROSUR FCC	Subway	NFM	EPB	9,35	7 300
Spain	Murcia	ACS MURCIA	Sewage	LOVAT	EPB	3,10	2 000
Spain	Murcia	MURCIA	Sewage	LOVAT	EPB	3,10	1 000
Spain	Pajares (Asturias)	PAJARES 3	Train	NFM	ROCK	9,92	10 200
Spain	Pajares (Asturias)	PAJARES 4	Train	ROBBINS / MHI	ROCK	9,92	10 200
Spain	Pajares (Asturias)	PAJARES 5	Train	HERRENKNECHT / NFM	ROCK	9,90	11 200
Spain	Pajares (Leon)	PAJARES 1 (SUR)	Train	HERRENKNECHT / NFM	ROCK	9,92	20 800
Spain	Pajares (Leon)	PAJARES 2	Train	HERRENKNECHT	ROCK	9,92	13 500
Spain	San Idelfonso	GUADARRAMA NORTE 3	Railway	WIRTH	ROCK	9,46	14 500

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Spain	San idelfonso	GUADARRAMA NORTE 4	Railway	HERRENKNECHT	ROCK	9,15	15 500
Spain	Sevilla	UTE METRO DE SEVILLA	Subway	LOVAT	EPB	6,06	4 600
Spain	Sevilla	METRO SEVILLA	Metro				
Spain	Soto Del Real	GUADARRAMA SUR 1	Railway	HERRENKNECHT	ROCK	9,15	15 500
Spain	Soto Del Real	GUADARRAMA SUR 2	Railway	WIRTH	ROCK	9,46	12 000
Spain	Valencia	VALENCIA Metro Linea 5	Subway	HERRENKNECHT	SLURRY	6,52	5 600
Spain	Valencia	7 AGUAS BUNOL	Train	HERRENKNECHT	EPB	9,72	11 600
Spain	Valladolid	VALLADOLID SEWAGE	Sewage	LOVAT	EPB	3,10	4 500
Spain	Vigo	VIGO DAS MACEIRAS	Train	HERRENKNECHT / NFM	ROCK	9,90	16 300
Spain	Vizcaya	UTE ARENAL-BOLUETA	Sewage	LOVAT	EPB	3,97	2 800
Spain	Gerona	UTE AVE GERONA	Train	HERRENKNECHT	EPB	12,16	2 960
Spain	Barcelona	UTE LA SAGRERA	Train	HERRENKNECHT	EPB	11,66	5 000
Spain	Madrid	AVE SERRANO	Train	HERRENKNECHT	EPB	11,50	6 850
Spain	Madrid	UTE L2 LAS ROSAS	Subway	NFM	EPB	9,38	3 800
Spain	Antequera	UTE QUEJIGARES	Train	HERRENKNECHT	EPB	9,40	6 560
Spain	Sorbás	SORBAS	Train	HERRENKNECHT	EPB	9,90	12 000
Sweden	Forslov	HALLANDSAS	Train	HERRENKNECHT	ROCK/SLURRY	10,12	11 000
Sweden	Malmö	MALMOE CITY TUNNEL	Train	HERRENKNECHT	EPB	8,90	9 200
Switzerland	Biel	ATUBO	Road Tunnel	HERRENKNECHT	EPB	12,00	7 500
Switzerland	Courgevaux	LES VIGNES TUNNEL	Road Tunnel	HERRENKNECHT	OPEN	11,77	1 850
Switzerland	Oenzberg	OENZBERG	Railway	HERRENKNECHT	SLURRY	12,34	2 100
Switzerland	Zürich	WEINBERG TUNNEL	Railway	HERRENKNECHT	ROCK/SLURRY	11,30	4 500
Switzerland		CLEUSON-DIXENCE		ROBBINS	ROCK	5,83	?
Switzerland		LÖTSCHBERG Tunnel		ROBBINS	ROCK	5,03	?
Taiwan	Taipei	TAIPEI TUBE - extension	Subway	HERRENKNECHT	EPB	6,30	2 000
Taiwan	Taipei	TAIPEI TUBE DORTS	Subway	HERRENKNECHT	EPB	6,30	2 000
Taiwan	Taipei	TAIPEI TUBE DORTS	Subway	LOVAT (4)	EPB	6,50	5 000

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
Taiwan	Taipei	TAIPEI TUBE LOT 201A	Subway	HERRENKNECHT (3)	EPB	6,50	18 000
Taiwan	Taipei	Main Collector	Water Collector				
Thailand	Bangkok	ASIATEC BANGKOK Sewage	Sewage	HERRENKNECHT	EPB	4,30	4 000
Thailand	Bangkok	Bangkok Metro	Subway	HERRENKNECHT	EPB	6,50	15 000
Thailand	Bangkok	SEWAGE BANGKOK	Sewage	LOVAT	EPB	4,00	15 000
Tunisia	Tunis	OUED BARBARA	Sewage	LOVAT	EPB	3,90	6 900
Turkey	Ankara	ULUS-KECIOREN LIMAK	Subway	HERRENKNECHT	EPB	5,90	3 180
Turkey	Istanbul	GULERMAK OTOGAR-BAGCILAR	Subway	LOVAT x 3 / HERRENKNECHT	EPB	6,50	5 900
Turkey	Istanbul	AMBARLI SEWAGE TUNNEL	Sewage	HERRENKNECHT	EPB	4,60	4 825
Turkey	Istanbul	KADIKOY KARTAL - ANADOLURAY	Subway	HERRENKNECHT x 2	EPB	6,57	18 000
Turkey	Istanbul	AVRASYA - KADIKOY KARTAL	Subway	HERRENKNECHT x 2	EPB	6,57	11 000
Turkey	Istanbul	GURPINAR - OZTAS	Sewage	LOVAT	EPB	3,50	5 200
Turkey	Istanbul	MELEN - MOSMETROSTROY	Water	HERRENKNECHT	EPB	6,12	3 150
Turkey	Istanbul	MARMARAY TUNNEL - GAMA NUROL	Subway	LOVAT	EPB	7,68	5 000
Turkey	Istanbul	MARMARAY TUNNEL - TAISEI	Subway	HITACHI x 3	SLURRY	7,85	14 000
Turkey	Istanbul	OZKA KALYOON	Water	HERRENKNECHT	EPB	2,70	10 600
Turkey	Istanbul	NAS CELIKLER	Water	HERRENKNECHT	EPB	3,80	8 500
Turkmenistan	Ashkabat	TM ASHKABAT	Water	HERRENKNECHT	EPB	3,80	2 000
Turkmenistan	Ashkabat	TM ASHKABAT	Water	HERRENKNECHT	EPB	6,25	7 000
U.A.E.	Abu Dhabi	ABU DHABI Sewage (Al Jaber)	sewage	HERRENKNECHT	MICRO	2,20	500

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
U.A.E.	Dubai	DUBAI Metro Green Line	Metro	MITSUBISHI	EPB	9,60	5 800
U.K.	Ayr	BYZAK	Sewerage	HERRENKNECHT	EPB	2,50	3 000
U.K.	Belfast	MORGAN EST / FARRANS	Sewerage	LOVAT	EPB	4,80	3 800
U.K.	Belfast	MORGAN EST / FARRANS	Sewerage	LOVAT	EPB	2,90	4 000
U.K.	Birmingham	MURPHY	Water	LOVAT	EPB	3,56	2 600
U.K.	Brighton	AMEC	Sewerage	LOVAT	EPB	3,50	1 000
U.K.	Brighton	TAYLOR WOODROW	Storm Water	HOWDEN	EPB	3,56	8 500
U.K.	Bristol	AMEC	Coal	LOVAT	EPB	5,50	1 200
U.K.	Cardiff	AMEC	Sewerage	LOVAT	EPB	3,20	3 000
U.K.	Cardiff	BYZAK	Sewerage	Herrenknecht	Slurry Pipe Jack	2,00	3 500
U.K.	Cleethorpes	MILLER CONSTRUCTION	Water	LOVAT	ROCK	3,00	?
U.K.	Cray Valley	MURPHY	Sewerage	LOVAT	EPB	2,92	1 700
U.K.	Cricklewood	MURPHY	Cable	LOVAT	EPB	3,60	1 100
U.K.	Croydon	MORGAN EST	Sewerage	LOVAT	EPB	3,60	10 000
U.K.	Dartford	AMEC	Cable	LOVAT	EPB	3,56	2 300
U.K.	Eastham	AMEC	Water	LOVAT	EPB	3,20	3 100
U.K.	Fife	AMCO DONELON	Sewerage	LOVAT	EPB	2,80	750
U.K.	Fleetwood	AMEC	Sewerage	LOVAT	EPB	4,00	28 000
U.K.	Glasgow	KILROE	Sewerage	LOVAT	EPB	3,40	2 500
U.K.	Great Yarmouth	COSTAIN	Cooling Water	LOVAT	EPB	2,40	900
U.K.	Harefield	MURPHY	Sewerage	LOVAT	OPEN	2,95	2 150
U.K.	Hastings	MILLER CONSTRUCTION	Water	HERRENKNECHT (2)	SLURRY	6,50	2 000
U.K.	Heathrow	MORGAN VINCI JV	Road Tunnel	HERRENKNECHT	EPB	9,10	2 600
U.K.	High Wycombe	AMEC	Cable	LOVAT	EPB	3,20	3 000
U.K.	Honor-Oak Brixton	MORGAN EST	Sewerage	LOVAT	EPB	3,50	4 800
U.K.	Hull	MILLER CONSTRUCTION	Water/Drainage	LOVAT (2)	EPB	4,25	10 500

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
U.K.	Ipswich	AMEC	Water	LOVAT	EPB	2,92	4 900
U.K.	Jersey	BALFOUR Beatty	Water transfer	DOSCO	EPB	3,00	640
U.K.	Lancashire	AMEC	Sewerage	LOVAT (3)	EPB	3,20	12 000
U.K.	Lime End	THAMES WATER	Sewerage	LOVAT	EPB	3,20	2 550
U.K.	London	AMEC - DLR Extension	Train	LOVAT	EPB	6,00	3 800
U.K.	London	CTRL 103 - KIER NUTTALL JV	Railway	DOSCO	OPEN	7,15	5 000
U.K.	London	CTRL 220 - NISHIMATSU CEMENTATION SKANSKA JV	Railway	KAWASAKI (2)	EPB	8,10	15 500
U.K.	London	CTRL 240 - COSTAIN SKANSKA BACHY JV	Railway	WIRTH (2)	EPB	8,10	9 400
U.K.	London	CTRL 250 - NUTTALL WAYSS&FREYTAG KIER JV	Railway	LOVAT (2)	EPB	8,10	10 400
U.K.	London	CTRL 320 - HOCHTIEF MURPHY JV	Railway	HERRENKNECHT	SLURRY	8,10	5 000
U.K.	London	JLE Metro 107 - W&F	Subway	HERRENKNECHT (2)	SLURRY	5,50	3 400
U.K.	London	JLE metro 110 - McALPINES	Subway	LOVAT (2)	EPB	5,50	5 300
U.K.	London	JLE-metro - Aoki	Subway	KAWASAKI (2)	EPB	5,50	4 250
U.K.	London	JLE-metro 105 Aoki	Subway	KAWASAKI (x2)	EPB	5,50	4 250
U.K.	London	THAMES WATER	Water	LOVAT	EPB	3,20	30 000
U.K.	Loughborough	BRITISH GYPSUM	U/g Plant	JOY Continous Miner			?
U.K.	Lower lea Valley	MURPHY	Cable	LOVAT (2)	EPB	4,70	5 960
U.K.	Lower Lea Valley	MURPHY	Cable	LOVAT (2)	EPB	3,30	2 800
U.K.	Margate	COSTAIN	Water	LOVAT	EPB	3,00	2 000
U.K.	Merseyside	AMEC	Sewerage	LOVAT	EPB	2,92	900
U.K.	Newport	AMEC	Sewerage	LOVAT	EPB	3,30	2 550
U.K.	North London	MURPHY	Cable	LOVAT (3)	EPB	3,56	20 000
U.K.	Portsmouth	NUTTALL	Waste water	LOVAT (2)	EPB	3,40	7 480
U.K.	Scarborough	MILLER CONSTRUCTION	Sewerage	LOVAT	EPB	3,30	330
U.K.	Southport	AMEC	Sewerage	LOVAT	EPB	3,30	1 800

REFERENCE LIST as of 02 August 2010

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
U.K.	Stoke Newington	MORGAN EST	Sewerage	LOVAT	EPB	3,30	4 500
U.K.	Stoke on Trent	AMCO DONELON		DOSCO	TBM		?
U.K.	Swansea	TARMAC SOLETANCHE	Sewerage	BESSAC	AIR BUBBLE	2,80	4 600
U.K.	Torbay	MILLER CONSTRUCTION	Sewerage	DOSCO	EPB	4,20	1 500
U.K.	Various	A.E.YATES	Various	Various	Pipe Jacks		?
U.K.	Walsall	MURPHY	Sewerage	LOVAT	EPB	2,92	1 300
U.K.	Wandsworth	MURPHY	Sewerage	LOVAT	EPB	2,92	1 800
U.K.	West Ham	COSTAIN	Sewerage	LOVAT	EPB	2,80	13 500
U.K.	Whitby	AMEC	Sewerage	LOVAT	EPB	3,56	900
U.S.A.	Appleton WI	MEAD AND PACIFIC STREETS STORM SEWAGE	Sewage	LOVAT	OPEN	2,33	275
U.S.A.	Atlanta	NANCY CREEK	Sewage	ROBBINS	ROCK	5,50	13 400
U.S.A.	Beaumont TX	BEAUMONT	Pipes	LOVAT	EPB	3,00	7 000
U.S.A.	Columbus	BWARI	Sewage	LOVAT	EPB	4,90	4 900
U.S.A.	Columbus	BWOAS	Sewage	LOVAT	EPB	4,30	4 100
U.S.A.	Denver	DENVER	Sewage	LOVAT	EPB	4,60	550
U.S.A.	Denver CO	MAGNOLIA STORM SEWAGE	Sewage	LOVAT	OPEN	3,65	104
U.S.A.	Detroit	RIVER OUTFALL N°2	Sewage	CTS	OPEN	7,20	1 800
U.S.A.	Evanston	EVANSTON	Sewage	LOVAT	EPB	2,30	600
U.S.A.	Indianapolis	INDIANAPOLIS AIRPORT TUNNEL	Sewage	AKKERMAN	EPB	2,67	600
U.S.A.	Indianapolis	INDIANAPOLIS CS 31002	Sewage	LOVAT	EPB	4,20	500
U.S.A.	Lafayette IN	PEARL RIVER CSO	Sewage	TECHNICORE	OPEN	3,35	610
U.S.A.	Los Angeles CA	ARROWHEAD East & West	Water	HERRENKNECHT	ROCK	5,80	12 900
U.S.A.	Los Angeles CA	EAST SIDE LRT	Metro	HERRENKNECHT	EPB	6,60	4 300
U.S.A.	Los Angeles CA	NEIS L.A	Sewage	LOVAT (3)	EPB	3,70	8 700

## Tunnels achieved with CONDAT chemicals

Country	City	Project	Purpose	Machine	Type	Diameter (m)	Length (m)
U.S.A.	Los Angeles CA	NOS-ECIS	Sewage	LOVAT (4)	EPB	4,70	18 500
U.S.A.	Los Angeles CA	AVENUE 45	Sewage	AKKERMAN	EPB	2,90	1 950
U.S.A.	Middlesex NJ	EDISON PROJECT	Sewage	LOVAT	EPB	5,00	1 320
U.S.A.	Milwaukee	MILWAUKEE	Sewage	LOVAT	EPB	2,27	1 530
U.S.A.	Milwaukee	Sewage Millwaukee	Sewage	LOVAT	EPB	4,70	800
U.S.A.	Minneapolis	MSP-LRT-TUNNEL	Railway	HERRENKNECHT	EPB	6,40	4 200
U.S.A.	New York City	NEW-YORK SEWAGES	Sewage	LOVAT	EPB	3,00	300
U.S.A.	New-York NY	METRO LINE 7	Metro	HERRENKNECHT	ROCK	8,50	3 660
U.S.A.	Pittsburgh PA	NORTH SHORE CONNECTOR	Metro	HERRENKNECHT	SLURRY	6,50	1 365
U.S.A.	Portland OR	PORTLAND WEST SIDE CSO	Sewage	HERRENKNECHT (2)	SLURRY	5,10	6 700
U.S.A.	Portland OR	PORTLAND EAST SIDE CSO	Sewage	HERRENKNECHT	SLURRY	7,75	8 915
U.S.A.	Sacramento CA	SACRAMENTO	Sewage	LOVAT	EPB	4,70	1 220
U.S.A.	Sacramento CA	SACRAMENTO NWI 1&2	Sewage	ROBBINS	EPB	4,05	5 785
U.S.A.	San Diego CA	SAN DIEGO NORTH INTERCEPTOR	Sewage	LOVAT	EPB	4,35	1 340
U.S.A.	San Diego CA	SAN DIEGO SEWAGE	Sewage	MITSUBISHI	EPB		?
U.S.A.	San Diego CA	SAN VINCENTE PIPELINE	Sewage	CTS	DIGGER SHIELD AUGER	4,05	17 190
U.S.A.	San Jose	SAN JOSE	Sewage	AKKERMAN		2,65	840
U.S.A.	Seattle	BEACON HILL	Metro	MITSUBISHI	EPB	6,50	1 200
U.S.A.	Seattle	DENNY WAY Project	Sewage	LOVAT	EPB	5,00	1 860
U.S.A.	Seattle	MERCER STREET Sewage	Sewage	LOVAT (2)	EPB	3,70	3 100
U.S.A.	Seattle WA	BRIGHTWATER EAST	Sewage	LOVAT	EPB	5,85	4 270
U.S.A.	Seattle WA	BRIGHTWATER CENTRAL	Sewage	HERRENKNECHT (2)	SLURRY	5,85	9 670
U.S.A.	Seattle WA	BRIGHTWATER WEST	Sewage	LOVAT	EPB	4,74	6 100
U.S.A.	Temple Terrace	TEMPLE TERRACE	Sewage	WIRTH	EPB	2,55	100

## Tunnels achieved with CONDAT chemicals

<i>Country</i>	<i>City</i>	<i>Project</i>	<i>Purpose</i>	<i>Machine</i>	<i>Type</i>	<i>Diameter (m)</i>	<i>Length (m)</i>
U.S.A.	Walnut Creek CA	WALNUT CREEK	Sewage	WIRTH	EPB	3,00	1 350
U.S.A.	Washington DC	WASHINGTON D.C METRO	Subway	LOVAT	EPB	6,40	1 700
Ukraine	Kiev	KIEV METRO	Metro	WIRTH/NFM	EPB	5,70	3 000
Ukraine	Kiev	KIEV METRO BUD	Metro	HERRENKNECHT	EPB	6,30	3 000
Venezuela	Caracas	CARACAS METRO Linea 3	Subway	LOVAT	ROCK	5,85	2 500
Venezuela	Caracas	CARACAS METRO Linea 3	Subway	HERRENKNECHT	ROCK	5,85	5 000
Venezuela	Caracas	CARACAS METRO Linea 4	Subway	HERRENKNECHT (2)	EPB	5,90	7 300
Venezuela	Caracas	Metro Line 2	Metro				
Venezuela	Caracas	CARACAS METRO Line 2 Los Teques	Subway	HERRENKNECHT (2)	EPB	5,85	5 600
Venezuela	Caracas	CARACAS METRO Line 5	Subway	HERRENKNECHT (2)	EPB	5,85	6 800
Venezuela	Valencia	VALENCIA Metro	Subway	LOVAT	EPB	9,05	4 800