



TBM AND BACK-UP REFERENCE PROJECTS LIST (updated SEPTEMBER 2008)

N°	PROJECT	Diameter m	Total length	Excavated length up to July 2008	TBM Type	BACK UP TYPE	DELIVERY	COUNTRY	CLIENT	TBM LAYOUT DESIGN	BACK UP DESIGN	TBM MANUFACTURE	BACK-UP MANUFACTURE
TBM SYSTEM SUPPLIES IN COOPERATION WITH ROBBINS USA													
1	Brasimone	6.40	4.800	4.800	Open gripper type	Vertical switch	1968	Italy	ENEL	ROBBINS	SELI	ROBBINS	SELI
2	CERN	4.80	6.900	6.900	Open gripper type	Vertical switch	1972	Switzerland	PRADER-GTM JV	ROBBINS	SELI	ROBBINS	SELI
3	Orichella Timpagrande	4.32	8.200	8.200	Double Shield	Vertical switch	1972	Italy	SELI	SELI	SELI	ROBBINS	SELI
4	Chivor	4.30	7.600	7.600	Double Shield	Vertical switch	1978	Colombia	IMPREGILO	SELI	SELI	ROBBINS	SELI
5	Isola Corniolo-Fiumicello	3.50	16.500	16.500	Double Shield	High Performance	1982	Italy	SELL-CHINI JV	SELI	SELI	ROBBINS	SELI
6	Rosales + Tolo	3.56	16.500	16.500	Double Shield	High Performance	1987	Colombia	IMPREGILO	SELI	SELI	ROBBINS	SELI
7	Yndarugin	5.50	17.050	17.050	Double Shield	High Performance	1990	Pop.Rep China	CMC	SELI	SELI	ROBBINS	SELI
8	EOS lot "C"	5.81	7.500	7.500	Double Shield	High Performance	1993	Switzerland	CCD JV	SELI	SELI	ROBBINS	SELI
9	Umiray	4.88	13.000	13.000	Double Shield	High Performance	1996	Philippines	TEC JV	SELI	SELI	ROBBINS	SELI
10	Wanjazhai Yellow River	4.85	25.000	25.000	Double Shield	High Performance	1998	Pop.Rep China	IMPREGILO-CMC	SELI	SELI	ROBBINS	SELI
		123.050		123.050									
TBM SYSTEM SUPPLIES IN COOPERATION WITH MITSUBISHI JAPAN													
1	Guadiaro-Majacette	4.88	12.000	12.000	EPB-Mono&DS	High Performance	1995	Spain	DRAGADOS	SELI	SELI	MITSUBISHI	SELI
2	Mohale Tunnel	4.88	17.000	17.000	Double Shield	High Performance	1998	Lesotho, S.A.	HOCTIEF	SELI	SELI	MITSUBISHI	SELI
3	Abdalajis	10,00	7,000	7,000	DS Universal	Modular	2003	Spain	ABDALAJIS JV	SELI	SELI	MITSUBISHI	SELI
		36.000		36.000									
TBM SYSTEM SUPPLIES IN COOPERATION WITH LOVAT CANADA													
1	Metro Tourin Lot 4	7.77	2.358	2.358	EPB Monoshield	Modular	2002	Italy	COMETO JV	LOVAT-SELI	SELI	LOVAT	SELI
2	EOS lot "D"	4.32	900	900	EPB Monoshield	High Performance	1996	Switzerland	CCD JV	LOVAT	SELI	LOVAT	SELI
3	Metro Tourin Lot 3	7.77	2.835	2.835	EPB Monoshield	Modular	2002	Italy	GRASSETTO	LOVAT-SELI	SELI	LOVAT	SELI
4	METRO VANCOUVER	6.10	4.500	4.500	EPB Monoshield	Modular	2006	CANADA	SNC LAVALIN	LOVAT-SELI	SELI	LOVAT	LOVAT
5	Metro Theran North South	9.15	14.000	0	EPB Monoshield	Modular	2008	Iran	Metro Theran	LOVAT-SELI	SELI	LOVAT-SELI	SELI
6	Firenze railway by pass	9.45	10.000	0	EPB Monoshield	Modular	2009	Italy	RFI	LOVAT	SELI	LOVAT	SELI
7	Metro Theran East West	9.15	12.000	0	EPB Monoshield	Modular	2009	Iran	Metro Theran	LOVAT-SELI	SELI	LOVAT-SELI	SELI
		46.593		10.593									
TBM SYSTEM SUPPLIES IN COOPERATION WITH NFM-WIRTH GERMANY													
1	Wanjazhai Yellow River	4.85	25.000	25.000	Double Shield	High Performance	1998	Pop.Rep China	IMPREGILO-CMC	SELI	SELI	NFM-WIRTH	SELI
2	Val Viola	3.70	21.000	21.000	DS Universal	High Performance	2001	Italy	AEM	SELI	WIRTH	WIRTH	WIRTH
3	Dez Ghomrud	4.49	24.000	21.000	DS Universal	Discrete type	2003	Iran	GHAEM	SELI	SELI	WIRTH	SELI
4	Dez Ghomrud-Lot 5	4.49	9.000	9.000	DS Universal	Discrete type	2004	Iran	GHAEM	SELI	SELI	WIRTH	SELI
5	San Francisco Outlet	7.03	9.700	9.700	DS Universal	High Performance	2004	Ecuador	ODEBRECHT	SELI	SELI	SELI-WIRTH	SELI
		88.700		85.700									
TBM SYSTEM SUPPLIES IN COOPERATION WITH HERRENKNECHT GERMANY													
1	Sivran	6.70	27.000	15.000	DS Universal	Discrete type	2005	Iran	GHAEM	SELI	SELI	HERRENKNECHT	SELI
2	METRO S. PAOLO	9.45	8.500	4.000	EPB Monoshield	Modular	2006	BRAZIL	ODEBRECHT	HERRENKNECHT	SELI	HERRENKNECHT	SELI
3	METRO ROME B1 - I	6.78	2.800	100	EPB Monoshield	Modular	2007	ITALY	SALINI	HERRENKNECHT	SELI	HERRENKNECHT	SELI
4	METRO ROME B1 - II	6.78	2.800	0	EPB Monoshield	Modular	2007	ITALY	SALINI	HERRENKNECHT	SELI	HERRENKNECHT	SELI
5	METRO TESSALONIKI - I	6.15	8.500	0	EPB Monoshield	Modular	2007	GREECE	AEJEK-IMPREGILO	HERRENKNECHT	SELI	HERRENKNECHT	SELI
6	METRO TESSALONIKI - II	6.15	8.500	0	EPB Monoshield	Modular	2007	GREECE	AEJEK-IMPREGILO	HERRENKNECHT	SELI	HERRENKNECHT	SELI
7	JIN PING	12,00	14,000	0	Open gripper type	Modular	2008	Pop.Rep China	HERRENKNECHT	HERRENKNECHT	SELI	HERRENKNECHT	SELI
		72.100		19.100									
TBM SYSTEM SUPPLIES BY SELI TECNOLOGIE ONLY													
1	Evinos C-B1	4.04	9.000	9.000	Double Shield	High Performance	1993	Greece	ETJV	SELI	SELI	SELI	SELI
2	Evinos C D	4.04	8.600	8.600	Double Shield	High Performance	1993	Italy	DE LIETO	SELI	SELI	SELI	SELI
3	Silvermine + Mercury	3.56	13.450	13.450	Double Shield	High Performance	1994	Hong Kong	PAUL Y	SELI	SELI	SELI	SELI
4	Plave-Doblar	6.98	10.000	10.000	Double Shield	High Performance	1998	Slovenia	SOCA JV	SELI	SELI	SELI	SELI
5	Poza Honda	4.04	15.500	15.500	Double Shield	Discrete type	1999	Ecuador	ODEBRECHT	SELI	SELI	SELI	SELI
6	Canal de Navarra	5.80	5.850	5.850	Double Shield	High Performance	2002	Spain	DRAGADOS	SELI	SELI	SELI	SELI
7	Metro Tourin Lot 5	8.03	2.543	2.543	EPB Monoshield	Modular	2002	Italy	METROCENTRO	SELI	SELI	SELI	SELI
8	Monte Giglio	4.88	8.509	8.509	Double Shield	Discrete type	2002	Italy	CONS. MONTEGIGLIO	SELI	SELI	SELI	SELI
9	La Joya	6.18	7.850	7.850	Double Shield	High Performance	2003	Costa Rica	GHELLA SOGEMNE	SELI	SELI	SELI	SELI
10	Parbatl	4.88	3.600	3.600	Double Shield	Discrete type	2003	India	GAMMON	SELI	SELI	SELI	SELI
11	Gigeli Gibe Orno Inlet	7.00	10.000	4.200	Double Shield	Discrete type	2004	Ethiopia	SALINI	SELI	SELI	SELI	SELI
12	Gigeli Gibe Orno Outlet	7.00	14.000	13.000	Double Shield	Discrete type	2005	Ethiopia	SALINI	SELI	SELI	SELI	SELI
13	Dai Nih	5.44	9.700	9.700	DS Universal	Discrete type	2004	Vietnam	KAJIMA-KUMAGAI	SELI	SELI	SELI	SELI
14	Kerman Outlet	4.04	31.750	0	Double Shield	Discrete type	2005	Iran	KERMAN JV	SELI	SELI	SELI	SELI
15	Settignano	8.70	2.362	2.362	EPB Monoshield	Modular	2005	Italy	MAIRE-ENGINEER.	SELI	SELI	SELI	SELI
16	BELES Tailrace	8.03	7.000	7.000	DS Universal	Discrete type	2007	Ethiopia	SALINI	SELI	SELI	SELI	SELI
17	BELES Headrace	8.10	12.000	7.500	EPB-Mono&DS	Modular	2006	Ethiopia	SALINI	SELI	SELI	SELI	SELI
18	Talave	4.04	7.000	7.000	Double Shield	High Performance	2006	Spain	DRAGADOS	SELI	SELI	SELI	SELI
19	New York ESA project	6.73	4.500	2.500	DS Universal	High Performance	2007	Unites States	DRAGADOS/JUDELAU	SELI	SELI	SELI	SELI
20	Brenner service tunnel	6.30	10.000	200	Double Shield	High Performance	2008	Italy	PIZZAROTTI-CONDOTTE JV	SELI	SELI	SELI	SELI
21	Lobrecat tunnel	5.98	5.600	0	DSU	Discrete type	2008	Spain	FCC-COPISA JV	SELI	SELI	SELI	SELI
22	Blue Tunnel	4.88	17.000	0	DS	Discrete type	2008	Turkey	ILCI	SELI	SELI	SELI	SELI
23	Crevola	4.20	9.000	0	DSU Compact	Compact type	2008	Italy	ATI SELI-MONTI-GIACOMINI	SELI	SELI	SELI	SELI
24	Tseng wan -SSDS	7.27	7.000	0	DS Universal-	Modular	2008	Hong Kong	MAEDA-CHINA RAILWAY C.	SELI	SELI	SELI	SELI
25	Kuznetsvosky	10,00	3,900	0	DS Universal-	Modular	2008	RUSSIA	LOVAT-BAMTUNNELSTROY	SELI	SELI	SELI	SELI
26	Los Bronches	4.55	7.000	0	DSU Compact	Compact type	2009	Chile	DRAGADOS	SELI	SELI	SELI	SELI
27	Kishanganga	6,10	14,500	0	DS Universal-	Modular	2009	India	HINDUSTAN	SELI	SELI	SELI	SELI
28	Nosud	6,73	11,000	0	DS Universal-	Discrete type	2009	Iran	MAC CAIN	SELI	SELI	SELI	SELI
		268.214		138.364									
RESUME OF TBM SYSTEMS DESIGN AND MANUFACTURED BY SELI TECNOLOGIE													
							N° of Projects	Total tunnel length	Excavated length at July 2008				
TBM SYSTEM SUPPLIES IN COOPERATION WITH ROBBINS USA							10	123.050	123.050				
TBM SYSTEM SUPPLIES IN COOPERATION WITH MITSUBISHI JAPAN							3	36.000	36.000				
TBM SYSTEM SUPPLIES IN COOPERATION WITH LOVAT CANADA							7	46.593	10.593				
TBM SYSTEM SUPPLIES IN COOPERATION WITH NFM-WIRTH GERMANY							5	88.700	85.700				
TBM SYSTEM SUPPLIES IN COOPERATION WITH HERRENKNECHT GERMANY							7	72.100	19.100				
TBM SYSTEM SUPPLIES BY SELI TECNOLOGIE ONLY							28	268.214	138.364				
TOTAL							60	634.657	412.807				