

1°) SLURRY TREATMENT PLANTS :

Name and Place	Year	Customer	Type of tunnel	Supplier of the TBM	Bored Ø (meters)	Total Length (meters)	Geological Composition of Terrains	Brief Description of the plant	Feed Pulp m³/h
Port of Miami Tunnel USA	2011	BOUYGUES CIVIL WORKS FLORIDA	Tunnel	Herrenknecht	12.89	1290 + 1280 m	Limestone	Complete STP	1000
MTRC EXPRESS RAIL LINK Hong Kong CHINA	2010	Dragages-Bouygues JV	Subway tunnel	Herrenknecht	9.32	2 x 4444m	CDG	Complete STP with pressing	2 x 1800
MTR West Island Line Hong Kong CHINA	2010	Dragages-Maeda-BSG JV	Subway tunnel	Herrenknecht	6.35	780 m	CDG	Complete STP with pressing	1300
Lee Tunnel London Great Britain	2010	MVB JV	Railway Tunnel	Herrenknecht	8.88	6904 m	Chalk and thanet sand	Complete STP with pressing and WTP	2000
Queens Tunnel NY USA	2010	Granite/Traylor /Frontier-Kemper JV	Railway Tunnel	Herrenknecht	6.86	1346m 1851m	Shale and clay	Complete STP with pressing	2 x 1200
OULLINS	2010	SPIE BATIGNOLLES CHANTIERS MODERNES	Subway tunnel	Herrenknecht	9.46	1 317 m	Alluvials, Glacial till, Molasses and Granite	Complete STP with pressing	1 800
ANTWERP LIEFKENSHOEK BELGIUM	2009	VINCI Construction	Railway tunnel	Herrenknecht	8,4	2 x 6 000	Fine & clayey sand	Complete STP with sand re-washing & sludge pressing	1 400
Flamanville	2009	VINCI Construction	Tunnel	Herrenknecht	6,2	670 m	Quartzite more or less fractured	STP with pressing section	1 200
CAIRO SUBWAY EGYPT	2008	Bouygues Vinci	Subway	Herrenknecht	9,45	Cairo 3 : 3 500 m	Fine sand, fairly clean	STP without FP	1 500
REN MIN LU Shanghai China	2007	SMCC SFEC	Highway tunnel	Komatsu	2x 11.58	2 x 1740m	Sand + silts	S.T.P with hydraulic transport of spoils	2x 1200
CHONGMING Shanghai - China	2006	JV with BTP Shanghai & STEC	Highway tunnel	Herrenknecht	2x 15,44	2 x 7150m	Sand + silts	S.T.P with hydraulic transport of spoils	2x 3000
HUBERTUS Netherlands	2006	H.T.C (BAM & VHB)	Road tunnel	Herrenknecht	10,52	2 x 1490m	Fine sands with silts & clay	2 Filter-Presses compact type	20 T/h of excess dry matter
STROGINO tunnel Moscow	2006	Herrenknecht	Subway	Herrenknecht	6,28	2990 m	Sand + clay	Complete & modular S.T.P	1000
HALLANDSÅS Båstad - Sweden	2005	Skanska /Vinci	Railway Tunnel	Herrenknecht	10,60	2 x 5500m	Gneiss	STP with water treatment & 2 Filter-presses	1800
SILBERWALD tunnel Moscow	2004	Herrenknecht	Highway tunnel	Herrenknecht	14,20	2 x 1750m	Sand + clay	Addition of 6 Filter-Presses + equipment	2800+ 2000 T/day of dry solids

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TOULOUSE Line B lot n°4	2002	GIE MT B4	Subway	FCB	7,82	2 x 3731 m	Molasses & Graves crues de la Garonne	STP with 2 filter-presses	1200
A86 TUNNEL Paris	2001-2002	SOCATOP	Highway tunnel	Herrenknecht	11,56	3100 m	Fine sands with clay Fontainebleau type	STP with water treatment & 2 Filter-Presses compact type	20T/hof excess dry matter
LEFORTOVO tunnel Moscow	2001	Herrenknecht	Highway tunnel	Herrenknecht	14,20	2 x 2200m	Limestone + clay	STP with auxil. water treatment & 6 Filter-Presses	2800
PANNERDENSCH KANAAL Netherlands	2001	COMOL vof	Railway tunnel	Herrenknecht	9,80	2 x 1425m	90% fine sand 10% clay	complete STP with 2 FP	1 600
GROENE HART Netherlands	2001	Bouygues KOOP	Highway tunnel	NFM	14,87	7 160m	Fine sand	complete STP with 2 FP	2 500
SOPHIA Netherlands	2000	TUBECON	Railway Tunnel	Herrenknecht	9,82	2 x 4 200m	Pleistocene & Holocene sand	complete STP with 2 FP	2 500
RU de Marivel SIAVRM	1999	Campenon Bernard Dumez	Sewage Tunnel	Herrenknecht	5,14	1 330m	Chalk sand & gravel	complete STPwith 1 FP	900
I.G.C.N. Gennevilliers	1998	Borie SAE GTM Constr. Chantiers Mod. Chagnaud	Sewage Tunnel	Herrenknecht	4,85	1288m + 2047m	Marl, limestone & sand from Soissonnais	STP with auxil. water treatment & 2 FP	600
LEWISHAM Londres	1997	Nishimatsu Kawasaki F.C.B.	Subway	Kawasaki	5,90	2 x 1044m	Gravel, sand, clay & silt	complete STP, with 1 FP	600
AIRPORT LINK SYDNEY	1997	Transfield Bouygues Joint Venture	Subway	Herrenknecht	10,80	5475m	Marl, sandstone, shale fine to medium, clay & sand, clay	complete STP with. water treatment & 10 FP	
CAIRO SUBWAY	1994 1995	Campenon B. Bouygues Dumez Arab Fougerolles Spie Batign.	Subway	Herrenknecht	9,45	Cairo 1 : 3229m Cairo 2 : 2703m	Fine sand, fairly clean	STP without FP	1 500
Line F LILLE	1994 1995	Soletanche Bouygues	Subway-Val	FCB	7,85	2131m	Hard clay, tufa & sand silt	STP without FP	1 000
METEOR Paris	1993 1994	Bouygues Dumez Chantiers Mod Perforex	Subway	HDW	8,65	4293m	Coarse-grained limestone, marl & rocks	complete STP, with 3 FP	1 200
CLICHY la BRICHE	1993 1994	Bouygues GTM BTP Chantiers Mod.	Sewage Tunnel	Herrenknecht	4,07	2334m	Fine sand, marl, coarse-grained limestone	complete STP, with 2 FP	450
STRASBOURG (*)	1993	Kesser	Tramway	Herrenknecht	8,20	1200m	Clean alluvial deposit	STP without FP	900
TOULOUSE (*)	1990	GTM	Subway-Val	FCB	7,70	almost 3500m	Sand clay & molasse	STP without FP	500

SEVRES ACHÈRES (*)	1989	GTM BTP Bouygues Chantiers Mod.	Sewage Tunnel	Herrenknecht	4,00	3500m	Clay, fine sand, marl & limestone	STP without FP	450
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N.B. (*) the first three references concern contracts taken under the name of FOREM, but with MS design.

2°) SEEPAGE WATER TREATMENT & SITE WORKS TREATMENT PLANTS :

Name and Place	Year	Customer	Type of tunnel	Supplier of the TBM	Bored Ø (meters)	Total Length (meters)	Geological Composition of Terrains	Brief Description of the plant	Feed Pulp m³/h
-	2009	Bouygues DTMP	-	-	-	-	-	Seepage & site water treatment plant, include. FP and pH treatment	50 m ³ /h and 100 m ³ /h desanding
OULLINS	2009	SPIE BATIGNOLLES CHANTIERS MODERNES	Subway	Herrenknecht	9.46	1 317 m	Alluvials, Moraines, Molasses and Granite	Seepage water treatment plant, include. FP and pH treatment	50 m ³ /h and 100 m ³ /h desanding
MODANE	2009	Razel	Safety gallery for Frejus tunnel	-	-	-	-	Seepage & site water treatment plant, include. FP and pH treatment.	50 m ³ /h and 100 m ³ /h desanding
A 89	2009	Vinci Construction Terrassement	Highway	-	-	-	-	2 surface drainage water treatment plants with FP	2x300m ³ /h
West/East TOULON crossing	2008	Bouygues Soletanche- Bachy Colas Screg	Railway Tunnel	<i>fraise</i>	~90m ²	1 500m	Hard rock	Seepage water treatment plant includ. fp.	60m ³ /h 100m ³ /h
PERTHUS TUNNELS	2007	TUNEL DEL PERTHUS, AEIE	Railway Tunnel	Herrenknecht	2 x 9,9	2 x 8171 m	Granite Gneiss Schiste	Seepage water treatment plant	25 m ³ /h with peak up to 60 m ³ /h
BAMCO Budapest	2007	JV includ. Vinci, Strabag & Hidépitó Rt	Subway tunnel	Herrenknecht	2 x 6,2	2 x 5400 m	Clay, silt and sand/gravel	Seepage & site water treatment plant	180m ³ /h desanding 50 m ³ /h water treatment
A41 France	2006	Bouygues Eiffage	Highway tunnel	Herrenknecht	12,0	2 x 2 800 m	Hard rock molasse	Seepage & site water treatment plant	150m ³ /h water treatment
TIMA	2006	BOUYGUES RAZEL	Railway Tunnel	Herrenknecht	8,0 (E.P.B type)	1870 m	Auteuil sand + plastic clay & chalk	Seepage & site water treatment plant	50m ³ /h water treatment
MODANE France	2006	JV with RAZEL	Railway Tunnel	<i>explosive</i>	80 m ²	3000m	Hard rock	2 x desanders	2 x 720m ³ /h
LA PRAZ L.T.F - France	2006	JV with Spie Batignolles	Railway Tunnel	<i>explosive</i>	80 m ²	3000m	Hard rock	2 desanders + Water treatment + Filter-press	2x270m ³ /h
Tunnel MAURICE LEMAIRE	2004	Bouygues/ Eiffage	Service Tunnel	Herrenknecht	6 ,0	6,900m	Granite + other rocks	site water treatment plant	150
LOK MA CHAU Hong-Kong	2003	D.J.V (Bouygues)	Railway Tunnel	N.F.M.	8,75	-	Granit & alluvial deposit	STP for hyperbaric job with water treatment & 1FP	150

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VL10 Choisy Paris	2002	SADE / EIFFAGE	Sewage Tunnel	Herrenknecht	4,0	2300 m	Sand + clay	Compact drainage waters treatment plant	60
SOUMAGNE Tunnel Belgium	2001	Vinci / Bouygues / Eiffage / W&Freitag	Railway Tunnel	<i>explosive</i>	11,8	5940 m	Granite	Compact drainage waters treatment plant	50
LÖTSCHBERG Tunnel Switzerland	2001	ARGE FERDEN	Railway Tunnel	Robbins/Atlas Copco	5,03	34600 m	Granite	Drainage waters treatment plant	200
KCR 320 HONG-KONG	2000	D.Z.J.V (Bouygues)	Railway Tunnel	N.F.M.	8,75	2 x 1840m	Granit & alluvial deposit	STP for hyperbaric work with water treatment & FP	120
B.P.N.L. Lyon	1997	Bouygues Dumez GTM	Road Tunnel	N.F.M.	11	3 200m	Alluvial deposit	STP for hyperbaric maintenance	300 to 500