

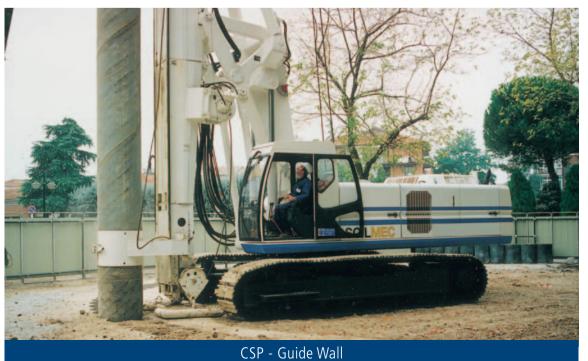


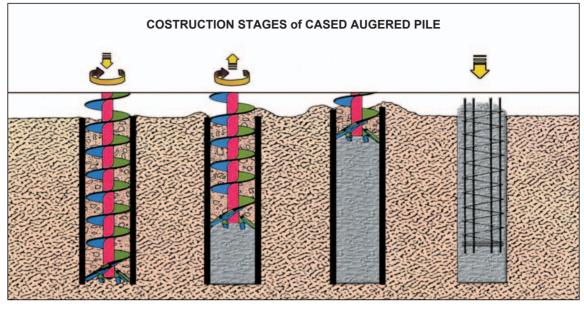
C.S.P./C.A.P./FoW Methods

	CASED SECANT PILES / CASED AUGERED PILES
Method	 The CSP (Cased Secant Piles) system has been developed to perform secant piles for the construction of continuous diaphragm wall. The CAP (Cased Augered Piles) system has been developed for the execution of "berlinese" type wall. The FoW (Front of the Wall) system has been developed for drilling in front of the wall. The execution of a conventional diaphragm wall by using grabs and bentonite mud involves a series of problems such as: using of large bentonite mud plant for the preparation, storage and desanding process, which are, in many cases, not admitted in restricted urban areas; cleaning operations within the working area; transit of trucks loaded with soil polluted by bentonite mud; disposal of waste material.
Applications and advantages	The CSP/CAP system has been therefore developed to: - Excavate the piles without bentonite mud in any kind of soil, also in presence of water table; - Guarantee a deviation from verticality of less than 1-1.5%; - Minimise the jobsite installation plant; - Operate in restricted areas; - Reduce the execution time of the pile by using a double rotary equipment; - No need of service crane.
Equipments	CSP/CAP equipment: The excavating system is made by an auger housed inside a casing; Auger and casing are driven by two indipendent rotaries; An auger cleaner can be used.

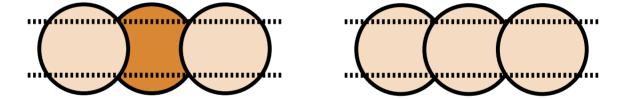
Main Equipment							
Model	max diameter mm	max pile depth m	max cased depth m	first rotary max torque second rotary kN.m	engine power kW	extraction force kN	weight tot. t
R-625 CSP	1000	26,5	15	250/250	300	732	75
R-825 CSP	1000	21,5	16,5	250/300	300	732	85
R-930 CSP	1000	23	18,5	300/360	400	1140	105
CM-120 CSP	1000	25	19,8	250/360	400	1160	105







CSP system has been designed for maximum diameter of purposely 1000 mm. Such a diameter offers the right compromise between the resulting actual wall thickness and the executed pile diameter in terms of concrete to be cut during the execution of the secondary piles.



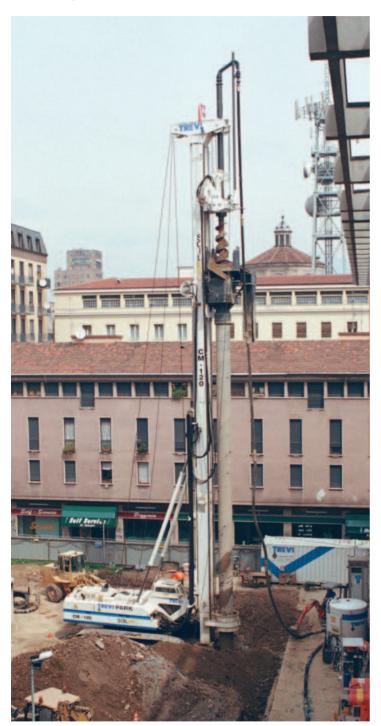


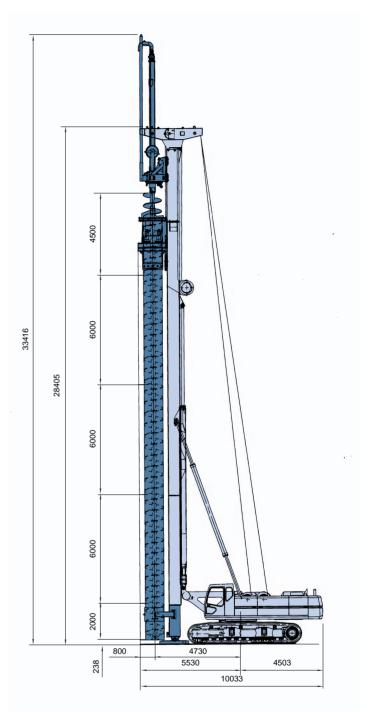
Berlinese type Wall

CM-120 CSP

HYDRAULIC CFA/CSP ROTARY RIG

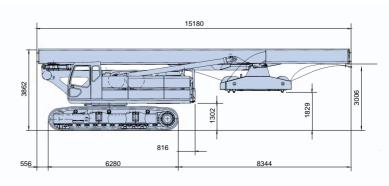
Working Condition





Transport Condition

CM-120 CSP		
Max pile depth	m	26,5
Max cased depth.	m	19,8
Max diameter	mm	1000
Nom. max torque	kN	250/360
Engine power	kN	400
Nom. extraction force	kN	1160
Machine weight	t	105



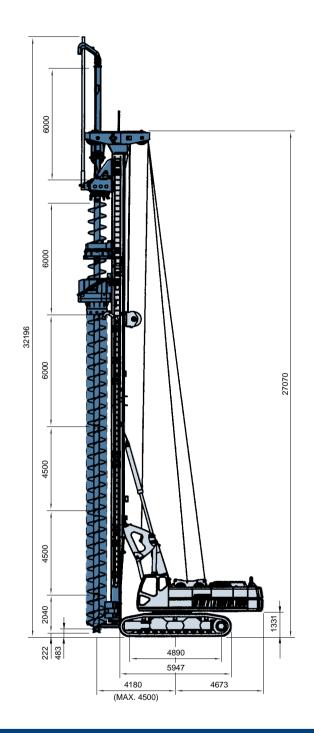
R-930 CSP

C.S.P./C.A.P./FOW CONFIGURATION

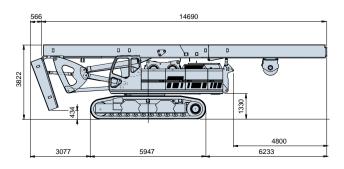
Working Condition



R-930 CSP		
Max pile depth	m	25
Max cased depth.	m	18,5
Max diameter	mm	1000
Nom. max torque	kN	300/360
Engine power	kN	400
Nom. extraction force	kN	1140
Machine weight	t	105



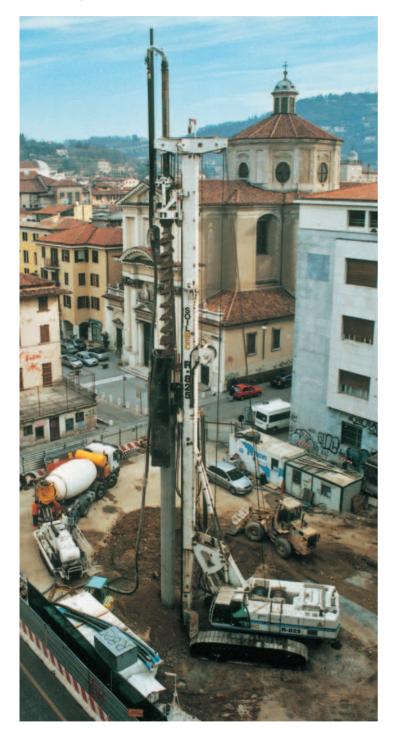
Transport Condition



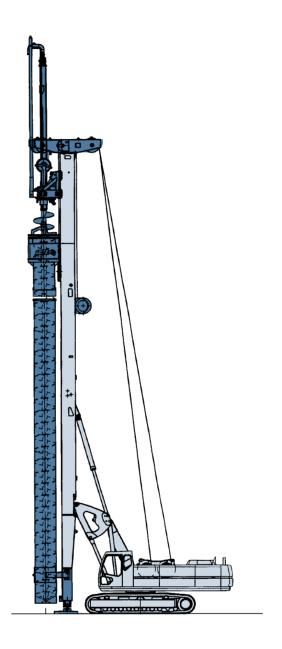
R-825 CSP

C.S.P./C.A.P./FOW CONFIGURATION

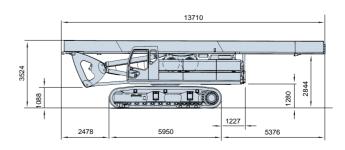
Working Condition



R-825 CSP		
Max pile depth	m	23
Max cased depth.	m	16,5
Max diameter	mm	1000
Nom. max torque	kN	250/250
Engine power	kN	300
Nom. extraction force	kN	732
Machine weight	t	85



Transport Condition



R-625 CSP

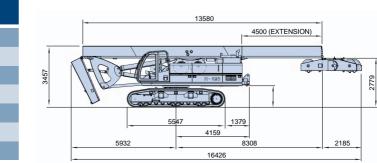
C.S.P./C.A.P./FOW CONFIGURATION

Working Condition



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Transport Condition



R-625 CSP

Max pile depth	m	21,5
Max cased depth.	m	15
Max diameter	mm	1000
Nom. max torque	kN	250/250
Engine power	kN	300
Nom. extraction force	kN	732
Machine weight	t	75
-		

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