



Compact machines

For inner-city projects Bohrtec developed the range of Compact Machines:

BM 150D for trenchless construction of connecting sewers up to DN 200.

BM 400 for creation of small sewers up to DN 400.

BM 500 for creation of small sewers up to DN 800.

BM 150DT for creation of drillings out of jacking pipes or tunnels \geq DN 1200.

BM 400T for creation of drillings up to an OD of 620 mm out of tunnels \geq DN 2000.

All compact machines can be operated guided or non-guided. Compared to the conventional microtunnelling machines the guided auger boring machines are cost effective and simple to use and have been steadily developed by Bohrtec over the last 10 years. Today these machines can be used in almost all ground conditions without larger stones and under ground water. With all machines the ground excavated at the working face is removed by conveying augers which also transmit the torque from the drive to the drilling head. Accurate drillings of up to 100 m length and 1020 mm OD are possible.

All these machines have a solid practical construction and they can also be equipped with a number of additional components. By using the patented „Bohrtec Water Auger“ it is possible to install pipes up to 3 m below the ground water table. The economic success for the user can be maximised by the optimal combination of the appropriate machines with the correct extra equipment for the project conditions.



BM 400

Compact machines		BM 150D	BM 150DT	BM 400	BM 400T	BM 500
Jacking force	[kN]	250	156	1000	1000	1600
Retract force	[kN]	150	93	500	500	800
Torque	[Nm]	4000	4000	12000	12000	24000
Speed earth drilling	[min ⁻¹]	up to 70	up to 70	up to 60	up to 60	up to 60
Speed core drilling	[min ⁻¹]	up to 130	up to 130	up to 120	up to 120	-
Hydraulic pressure (max.)	[bar]	250	250	320	320	320
Stroke	[mm]	300 each	430 each	630 each	850 each	750 each
Weight	[kg]	650	600	2600	2500	5500
Dimensions (L x W)	[m]	1.4/0.9	1.2/0.9	2.0/1.2	2.0/1.2	3.2/2.0
Circular launch shaft (min.)	[mm]	1500	Sewer ID 1200	2000	Sewer ID 2000	3200
Launch shaft length (min.)	[m]	1.40	1.20	2.00	2.00	3.20
Target hole length (min.)	[m]	0.80	0.80	1.50	0.80	2.00
Drive length	[m]	up to 35	up to 25	up to 80	up to 60	up to 100
Machine axis height	[mm]	330	-	800	-	1050
Pipe outside diameter (max.)	[mm]	280	280	620	620	1020
Hydraulic unit		HD24	HE24	HD50	HE75	HD75
Motor type		Diesel	Electric	Diesel	Electric	Diesel
Power	[kW]	24	24	50	75	75
Pump type		constant	constant	power controlled		
Flow rate	[l/min]/[bar]	48/250	48/250	132/160	135/270	200/210
	[l/min]/[bar]	-	-	85/320	115/320	130/320
Oil tank capacity	[l]	100	100	230	300	400
Diesel tank capacity	[l]	50	-	90	-	400
Length	[m]	1.45	2.10	2.00	2.50	2.55
Width	[m]	0.90	0.70	1.00	1.35	2.45
Height	[m]	1.20	0.90	1.50	1.35	2.60
Weight	[kg]	800	750	1350	2600	3800

All systems are subject of changes without prior notes. We do not take any liability for printed errors and/or mistakes.

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