

Ancillaries

Mud line



MUD LINE

Soilmec offer a machine, a technology and a solution to meet foundation needs. A comprehensive and technologically advanced jobsite, enriched by IPC technology with highly performing auxiliary equipment and accessories in a Mud product line dedicated to the use of bentonite and slurry.

Mud treatment unit

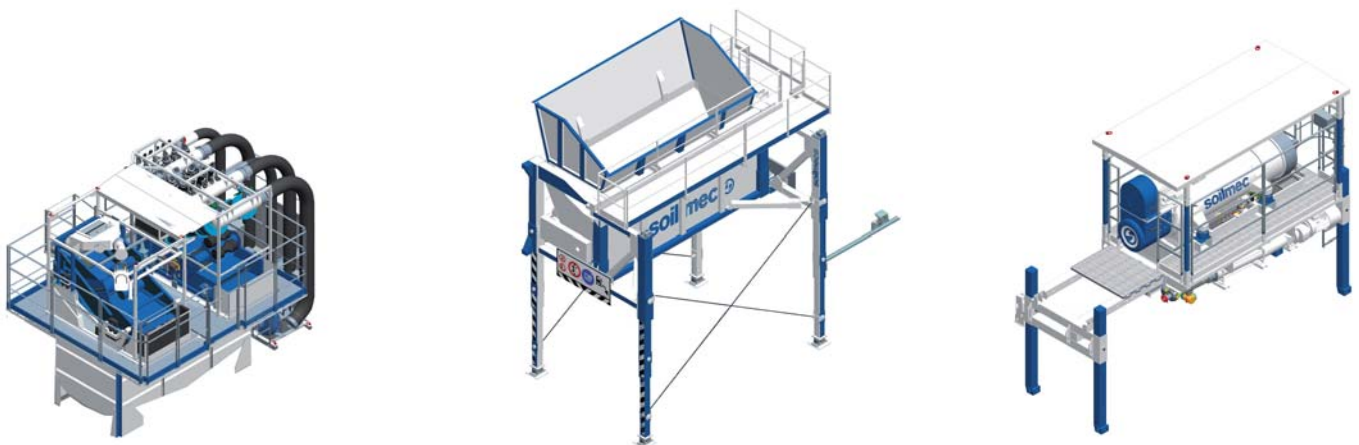
The mud treatment unit specially developed in hydromill technologies is multipurpose.

A line for the job site located in large areas:

- Flat version composed by the SMT-500 c/w a single stage storage
- Flat Plus version composed by SMT-500 flat c/w the SMD-90 mud decanter centrifuge

A line dedicate for this entire job site located in the urban areas:

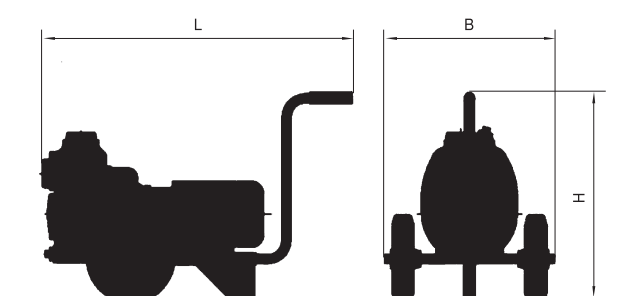
- the City version composed by the SMT-500 c/w Soilmec double stage storage
- the City Compact version composed by the SMT-500 City c/w Soilmec detritus management SDM-35
- the City Compact Plus Version composed by SMT-500 City Compact c/w the SMD-90 mud decanter centrifuge



| SMT-500 | | |
|-------------------------------------|---|------------------------------------|
| Nominal flow rate (on water) | 500 m ³ /h | 294.29 ft ³ /min |
| Max feed density | 1,25 t/m ³ | 78.03 lb/ft ³ |
| Approx. Solid separation | 200 t/h | 220.46 ton/h |
| Power supply | 400 V @ 50 Hz (Opz: 480 V @ 60 Hz) | 400 V @ 50 Hz (Opz: 480 V @ 60 Hz) |
| Installed power | 207,6 kW | 278.40 HP |
| Hydrociclones I stage nominal size | 2 x 380 mm | 2 x 15 in |
| Cut point D50 | 60 micron | 60 micron |
| Hydrociclones II stage nominal size | 15 x 100 mm | 15 x 4 in |
| Cut point D50 | 20 micron | 20 micron |
| SMD-35 | | |
| Storage capacity | 35 m ³ | 1236.01 ft ³ |
| Installed power | 39,6 kW | 53.10 HP |
| Discharge flow rate | 240 m ³ /h | 141.26 ft ³ / |
| Screw conveyer speed | 17,9 rpmg | 17.9 rpm |
| Integrated control system | Fully monitored solid production And automatic or manual setting discharge system | |
| SDM-90 | | |
| Structure | containerized or retractable skid | containerized or retractable skid |
| Bowl inside diameter / length | 590 / 2200 mm | 23 / 87 in |
| Installed power | 120 to 245 kW | 161 to 329 HP |
| Max torque* | 6 to 15 kNm | 4425 to 11063 lbf*ft |

Centrifugal self-priming pumps

The centrifugal self-priming pumps Beta, Delta and Grinta series have an open impeller suitable for the passage of solids in suspension in the liquid to be pumped. The pump casing and the impeller are in high-resistance cast iron. The pump is mono-bloc without belts, pulleys, bearings or other metallic parts in contact.



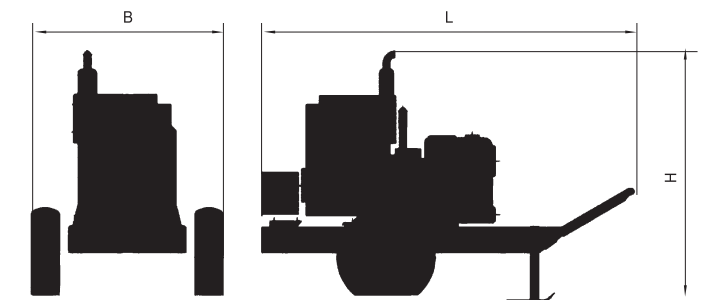
| BETA SERIES | 60 ET | 60 ET | 60DS | 60DS | 80/2ET | 80/2ET |
|--------------|---------|--------|---------|--------|---------|--------|
| - L | 839 mm | 33 in | 1400 mm | 55 in | 1280 mm | 50 in |
| - B | 4600 mm | 181 in | 460 mm | 18 in | 642 mm | 25 in |
| - H | 570 mm | 22 in | 570 mm | 22 in | 663 mm | 26 in |
| - Dry weight | 50 kg | 110 lb | 123 kg | 271 lb | 96 kg | 212 lb |

| TECHNICAL DATA | | | | | | |
|----------------------|-----------|----------------|----------------------|----------------------|------------|----------------|
| - Max. delivery | 700 l/min | 185 US gal/min | 600 l/min | 159 US gal/min | 1320 l/min | 349 US gal/min |
| - Max. head | 12 m | 39 ft | 16 m | 52 ft | 20 m | 66 ft |
| - Max. speed | 2850 rpm | 2850 rpm | 3000 rpm | 3000 rpm | 2900 rpm | 2900 rpm |
| - Motor | Electric | Electric | LOMBARDINI 15 LD 315 | LOMBARDINI 15 LD 315 | Electric | Electric |
| - Rated power | 2,2 kW | 3 HP | 3,7 kW | 5 HP | 4 kW | 5 HP |
| - Max Power | | | 5 kW | 7 HP | | |
| - Max. suction depth | 6 m | 20 ft | 6 m | 20 ft | 6 m | 20 ft |
| - Suction port dia. | 50,8 mm | 2 in | 50,8 mm | 2 in | 76,2 mm | 3 in |
| - Delivery port dia. | 50,8 mm | 2 in | 50,8 mm | 2 in | 76,2 mm | 3 in |
| - Solid passage | 31 mm | 1 in | 31 mm | 1 in | 38 mm | 1.5 in |

| BETA SERIES | 80/2DS | 80/2DS | 100DS | 100DS |
|--------------|---------|--------|---------|-------|
| - L | 1635 mm | 64 in | | |
| - B | 890 mm | 35 in | 1635 mm | 64 in |
| - H | 1130 mm | 44 in | 890 mm | 35 in |
| - Dry weight | 206 kg | 454 lb | 1130 mm | 44 in |

| TECHNICAL DATA | | | | |
|----------------------|--------------------|--------------------|-------------------|-------------------|
| - Max. delivery | 1400 l/min | 370 US gal/min | 2500 l/min | 661 US gal/min |
| - Max. head | 22 m | 72 ft | 19 m | 62 ft |
| - Max. speed | 3000 rpm | 3000 rpm | 3000 rpm | 3000 rpm |
| - Motor | LOMBARDINI 3LD 510 | LOMBARDINI 3LD 510 | LOMBARDINI 4LD820 | LOMBARDINI 4LD820 |
| - Rated power | 6,6 kW | 9 HP | 10,3 kW | 14 HP |
| - Max Power | 9 kW | 12 HP | 13 kW | 17 HP |
| - Max. suction depth | 6 m | 20 ft | 6 m | 20 ft |
| - Suction port dia. | 76,2 mm | 3 in | 101,6 mm | 4 in |
| - Delivery port dia. | 76,2 mm | 3 in | 101,6 mm | 4 in |
| - Solid passage | 38 mm | 1.5 in | 44 mm | 2 in |

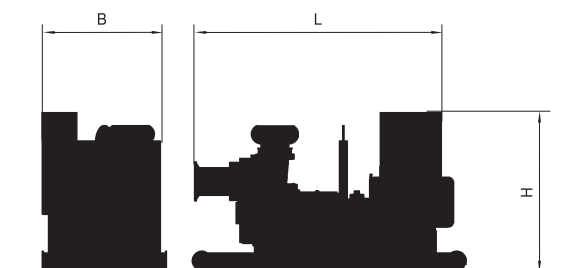
MUD LINE



| DELTA SERIES | 80/2ET | 80/2ET | 80/2DS | 80/2DS | 120/2ET | 120/2ET |
|-----------------------|-----------|----------------|-----------------------|-----------------------|----------------|----------------|
| - L | 1210 mm | 48 in | 1400 mm | 55 in | 1400 mm | 55 in |
| - B | 830 mm | 33 in | 1160 mm | 46 in | 1000 mm | 39 in |
| - H | 920 mm | 36 in | 1160 mm | 46 in | 1160 mm | 46 in |
| - Drawbar dimension | 450 mm | 18 in | 450 mm | 18 in | 450 mm | 18 in |
| - Dry weight | 217 kg | 478 lb | 405 kg | 893 lb | 307 kg | 677 lb |
| TECHNICAL DATA | | | | | | |
| - Max. delivery | 950 l/min | 251 US gal/min | 1660 l/min | 439 US gal/min | 2000 l/min | 528 US gal/min |
| - Max. head | 12 m | 39 ft | 16 m | 52 ft | 14 m | 46 ft |
| - Max. speed | 1450 rpm | 1450 rpm | 3000 rpm | 3000 rpm | 1450 rpm | 1450 rpm |
| - Motor | Electric | Electric | LOMBARDINI 12LD 477-2 | LOMBARDINI 12LD 477-2 | Electric | Electric |
| - Rated power | 7,5 kW | 10 HP | 9,5 kW | 13 HP | 11,0 kW | 15 HP |
| - Max Power | | | 16 kW | 21 HP | | |
| - Max. suction depth | 6 m | 20 ft | 6 m | 20 ft | 6 m | 20 ft |
| - Suction port | 80 mm | 3 in | 80 mm | 3 in | 101,6 ÷ 127 mm | 4 ÷ 5 in |
| - Delivery port | 80 mm | 3 in | 80 mm | 3 in | 101,6 ÷ 127 mm | 4 ÷ 5 in |
| - Solid passage | 30 mm | 1 in | 30 mm | 1 in | 40 mm | 2 in |

| DELTA SERIES | DELTA 120/2 DS | DELTA 120/2 DS | DELTA 120/S ET | DELTA 120/S ET | DELTA 120/S DS | DELTA 120/S DS |
|-----------------------|----------------------|----------------------|----------------|----------------|------------------------|------------------------|
| - L | 1820 mm | 72 in | 1400 mm | 55 in | 1820 mm | 72 in |
| - B | 1160 mm | 46 in | 1000 mm | 39 in | 1150 mm | 45 in |
| - H | 1160 mm | 46 in | 1160 mm | 46 in | 1510 mm | 59 in |
| - Drawbar dimension | 450 mm | 18 in | 450 mm | 18 in | 450 mm | 18 in |
| - Dry weight | 563 kg | 1241 lb | 340 kg | 750 lb | 563 kg | 1241 lb |
| TECHNICAL DATA | | | | | | |
| - Max. delivery | 2200 l/min | 581 US gal/min | 3200 l/min | 845 US gal/min | 4000 l/min | 1057 US gal/min |
| - Max. head | 22 m | 72 ft | 23 m | 75 ft | 35 m | 115 ft |
| - Max. speed | 2200 rpm | 2200 rpm | 1450 rpm | 1450 rpm | 2200 rpm | 2200 rpm |
| - Motor | LOMBARDINI 5LD 825-2 | LOMBARDINI 5LD 825-2 | Electric | Electric | LOMBARDINI 5LD 825-2/L | LOMBARDINI 5LD 825-2/L |
| - Rated power | 15,3 kW | 21 HP | 11 kW | 15 HP | 15,3 kW | 21 HP |
| - Max Power | 20 kW | 27 HP | - | - | 20 kW | 27 HP |
| - Max. suction depth | 6 m | 20 ft | 6 m | 20 ft | 6 m | 20 ft |
| - Suction port | 101,6 ÷ 127 mm | 4 ÷ 5 in | 101,6 ÷ 127 mm | 4 ÷ 5 in | 101,6 ÷ 127 mm | 4 ÷ 5 in |
| - Delivery port | 101,6 ÷ 127 mm | 4 ÷ 5 in | 101,6 ÷ 127 mm | 4 ÷ 5 in | 101,6 ÷ 127 mm | 4 ÷ 5 in |
| - Solid passage | 30 mm | 1 in | 28 mm | 1 in | 28 mm | 1 in |

| DELTA SERIES | DELTA 150/2 DS | DELTA 150/2 DS | DELTA 150/S ET | DELTA 150/S ET | DELTA 150/S DS | DELTA 150/S DS |
|-----------------------|--------------------|--------------------|----------------|-----------------|---------------------|---------------------|
| - L | 1820 mm | 72 in | 1400 mm | 55 in | 2170 mm | 85 in |
| - B | 1210 mm | 48 in | 980 mm | 39 in | 1200 mm | 47 in |
| - H | 1160 mm | 46 in | 1140 mm | 45 in | 1420 mm | 56 in |
| - Drawbar dimension | 450 mm | 18 in | 450 mm | 18 in | 450 mm | 18 in |
| - Dry weight | 660 kg | 1455 lb | 375 kg | 827 lb | 745 kg | 1642 lb |
| TECHNICAL DATA | | | | | | |
| - Max. delivery | 5000 l/min | 1321 US gal/min | 4925 l/min | 1301 US gal/min | 5000 l/min | 1321 US gal/min |
| - Max. head | 21 m | 69 ft | 22 m | 72 ft | 32 m | 105 ft |
| - Max. speed | 2200 rpm | 2200 rpm | 1450 rpm | 1450 rpm | 2200 rpm | 2200 rpm |
| - Motor | LOMBARDINI LDW2204 | LOMBARDINI LDW2204 | Electric | Electric | LOMBARDINI LDW2204T | LOMBARDINI LDW2204T |
| - Rated power | 22 kW | 29 HP | 15 kW | 20 HP | 30,5 kW | 41 HP |
| - Max Power | 29,4 kW | 39 HP | - | - | 38 kW | 51 HP |
| - Max. suction depth | 6 m | 20 ft | 6 m | 20 ft | 6 m | 20 ft |
| - Suction port | 152,4 mm | 6 in | 152,4 mm | 6 in | 152,4 mm | 6 in |
| - Delivery port | 152,4 mm | 6 in | 152,4 mm | 6 in | 152,4 mm | 6 in |
| - Solid passage | 38 mm | 1 in | 45 mm | 2 in | 38 mm | 1 in |



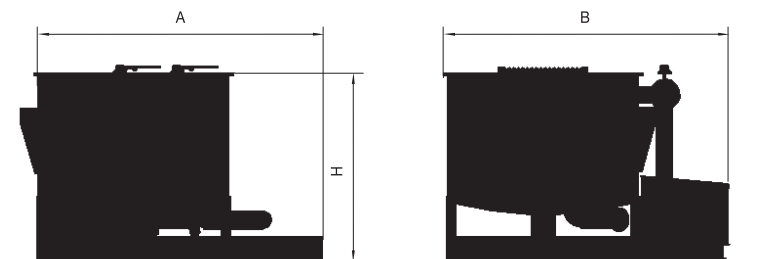
| GRINTA SERIES | 250DS | 250DS |
|-----------------------|-------------|-----------------|
| - L | 2900 mm | 114 in |
| - B | 1220 mm | 48 in |
| - H | 1430 mm | 56 in |
| - Dry weight | 2065 kg | 4552 lb |
| TECHNICAL DATA | | |
| - Maximum delivery | 13600 l/min | 3593 US gal/min |
| - Maximum head | 48 m | 157 ft |
| - Max. speed | 1800 rpm | 1800 rpm |
| - Motor | Diesel | Diesel |
| - Rated power | 100 kW | 134 HP |
| - Max suction depth | 6 m | 20 ft |
| - Diam. In | 254,0 mm | 10 in |
| - Diam. Out | 254,0 mm | 10 in |
| - Solid passage | | |

| GRINTA SERIES | 200ET | 200ET | 200DS | 200DS | 250ET | 250ET |
|-----------------------|------------|-----------------|------------|-----------------|-------------|-----------------|
| - L | 1790 mm | 70 in | 2750 mm | 108 in | 2690 mm | 106 in |
| - B | 1150 mm | 45 in | 1200 mm | 47 in | 1220 mm | 48 in |
| - H | 1400 mm | 55 in | 1450 mm | 57 in | 1550 mm | 61 in |
| - Dry weight | 680 kg | 1499 lb | 850 kg | 1874 lb | 1710 kg | 3770 lb |
| TECHNICAL DATA | | | | | | |
| - Maximum delivery | 8500 l/min | 2246 US gal/min | 9700 l/min | 2563 US gal/min | 13600 l/min | 3593 US gal/min |
| - Maximum head | 18 m | 59 ft | 30 m | 98 ft | 48 m | 157 ft |
| - Max. speed | 1450 rpm | 1450 rpm | 1800 rpm | 1800 rpm | 1450 rpm | 1450 rpm |
| - Motor | Electric | Electric | Diesel | Diesel | Electric | Electric |
| - Rated power | 22 kW | 29 HP | 47 kW | 63 HP | 90 kW | 121 HP |
| - Max suction depth | 6 m | 20 ft | 6 m | 20 ft | 6 m | 20 ft |
| - Diam. In | 200 mm | 8 in | 200 mm | 8 in | 254,0 mm | 10 in |
| - Diam. Out | 200 mm | 8 in | 200 mm | 8 in | 254,0 mm | 10 in |
| - Solid passage | 60 mm | 2 in | 60 mm | 2 in | | |

MUD LINE

Mixers

The Soilmec mixers is suitable to mix water and bentonite. The equipment is powered by electric motor or diesel engine that give the movement to a centrifugal pump which mixes the fluid.



| Model | BE10 ET | BE10 ET | BE10 DS | BE10 DS |
|-----------------|------------------|------------------|---------------------|---------------------|
| A | 1910 mm | 75 in | 2060 mm | 81 in |
| B | 1920 mm | 76 in | 1920 mm | 76 in |
| H | 1330 mm | 52 in | 1410 mm | 56 in |
| Dry weight | 700 kg | 1543 lb | 925 kg | 2039 lb |
| Tank capacity | 1000 l | 264 US gal | 1000 l | 264 US gal |
| Output per hour | 10000÷12000 l | 2642÷3170 US gal | 10000÷12000 l | 2642÷3170 US gal |
| Mixing time | 5/6 min | 5/6 min | 5/6 min | 5/6 min |
| Max. delivery | 1960 l/min | 518 US gal/min | 2240 l/min | 592 US gal/min |
| Head | 22 m | 72 ft | 35 m | 115 ft |
| Max. speed | 1450 rpm | 1450 rpm | 1800 rpm | 1800 rpm |
| Motor/engine | Electric | Electric | Diesel | Diesel |
| | 11 kW 50 Hz IP65 | 11 kW 50 Hz IP65 | 5LD825-2 Lombardini | 5LD825-2 Lombardini |

| Model | SBT-30 | SBT-30 | SBT-30.34 | SBT-30.34 |
|---|-------------------|-------------------|--------------------------------|--------------------------------|
| Type | skid or c/w silos | skid or c/w silos | Integrated silos 34 m3 storage | Integrated silos 34 m3 storage |
| Version | automatic | automatic | automatic | automatic |
| Volume batch | 1250 dm3 | 44 ft3 | 1250 dm3 | 44 ft3 |
| Mixing capacity | 30 m3/h | 1060 ft3/h | 30 m3/h | 1060 ft3/h |
| <i>determined c/w 50 kg bentonite for 1 m3 slurry</i> | | | | |

Desanders

The Soilmec desanding units are developed for the separation of sands, clay and organic particles in the bentonite muds recovery processes.



| Model | BE-50 | BE-50 | SD-70 | SD-70 | SD-100 | SD-100 |
|--------------------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|
| stage | single | single | single | single | single | single |
| structure | skid | skid | skid | skid | skid | skid |
| cut point | 60 D50 μm | 197 D50 μft | 60 D50 μm | 197 D50 μft | 60 D50 μm | 197 D50 μft |
| installed power | 11,5 kW | 15 HP | 15 kW | 20 HP | 18 kW | 24 HP |
| feeding capacity determined on water | 50 m3/h | 1766 ft3/h | 70 m3/h | 2472 ft3/h | 100 m3/h | 3531 ft3/h |

| Model | SD-150 | SD-150 | SD-180 | SD-180 | SD-250 | SD-250 |
|--------------------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| stage | single or double | single or double | single or double | single or double | single or double | single or double |
| structure | skid | skid | skid | skid | skid | skid |
| cut point | 60/35 D50 μm | 197/114 D50 μft | 60/35 D50 μm | 197/114 D50 μft | 60/35 D50 μm | 197/114 D50 μft |
| installed power | 24/48 kW | 32/64 HP | 28/54 kW | 37/72 HP | 48/75 kW | 64/100 HP |
| feeding capacity determined on water | 150 m3/h | 5297 ft3/h | 180 m3/h | 6357 ft | 250 m3/h | 8828 ft3/h |

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Drilling and Foundation Equipment