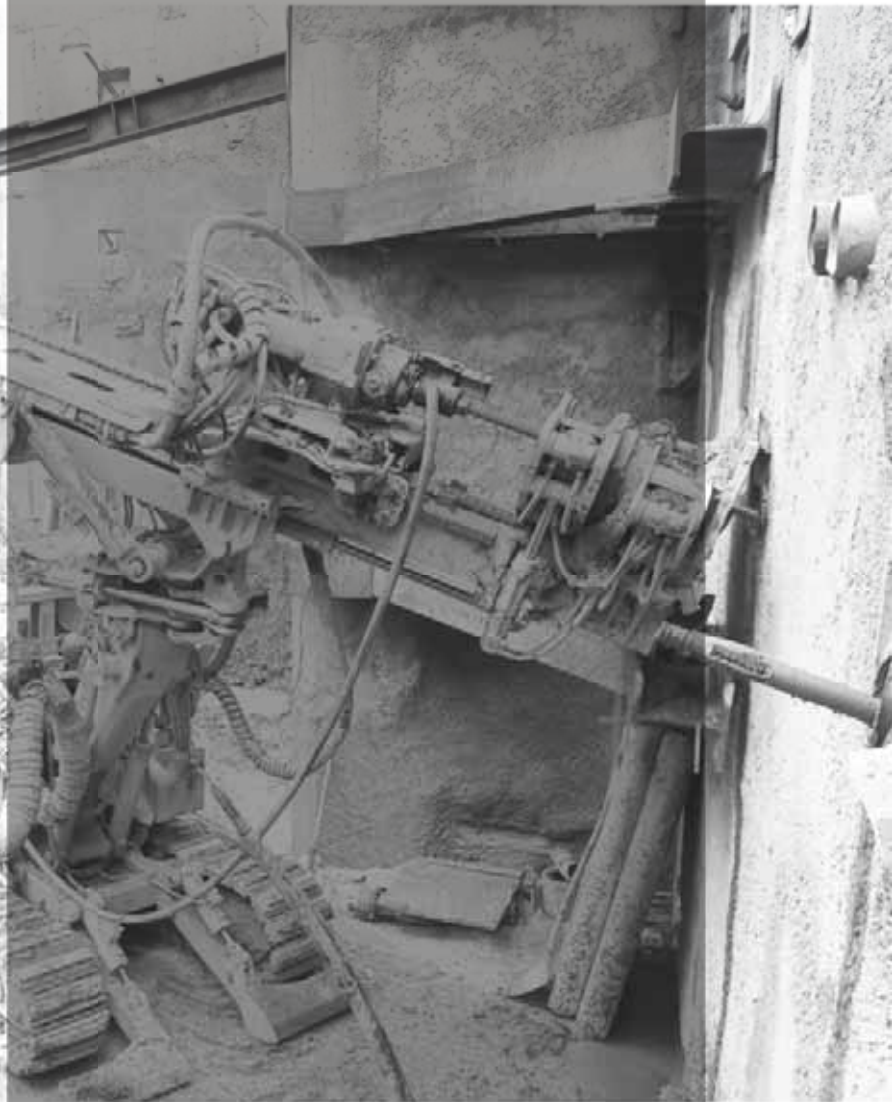


# MC LINE



# MC LINE

## Il Top della gamma

Caratterizzata da una grande varietà di modelli, la **linea MC** è quella che meglio rappresenta la produzione **COMACCHIO**: la capacità di recepire le richieste del cliente e di sfruttare tecniche innovative, più efficaci e più sicure per l'operatore ha portato alla creazione di una gamma completa di perforatrici per opere specializzate di ingegneria civile, quali micropali, ancoraggi, jet grouting e consolidamenti in genere.

Dotate di centralina a bordo o separata, le perforatrici della **linea MC** consentono di raggiungere una grande varietà di posizionamenti e inclinazioni del mast e di operare in spazi ridotti, coprendo allo stesso tempo un'ampia area di lavoro e mantenendo elevate prestazioni.

Grazie a circuiti idraulici modulari di concezione avanzata, i modelli della **linea MC** prevedono un ampio assortimento di teste e martelli che si prestano alle più svariate tipologie di perforazione sia a rotazione che rotopercolazione.

Tutte le macchine possono essere equipaggiate con comandi idraulici proporzionali servo assistiti o con radiocomando. Dal 2011 le perforatrici vengono equipaggiate con un radiocomando di nuova concezione che include, oltre alle "tradizionali" funzioni di traslazione cingoli e perforazione, anche quelle di posizionamento della macchina e caricatore aste. L'operatore può essere interamente e facilmente gestito da un'unica consolle, con conseguenti vantaggi in termini di efficienza, produttività e sicurezza.

La motorizzazione delle macchine è in linea con le attuali normative sulle emissioni sia Europee che Americane EPA non Road e CARB.

Sulla **linea MC** sono previsti una serie di accessori innovativi brevettati che hanno come focus la sicurezza dell'operatore e la semplificazione/automazione dei processi di lavorazione in cantiere.

**MC Line: Una risposta concreta ad ogni esigenza !**

## The top of the range

The **MC line**, with its large variety of models, is the best example of **COMACCHIO's** production: its ability to meet market needs whilst taking advantage of innovative techniques that are less costly, more effective, easier and safer for the operator has led to the creation of a comprehensive range of drilling rigs for civil engineering works, such as micropiles, anchors, jet grouting and ground improvement in general.

The **MC line** includes both drilling rigs with hydraulic power pack on board or with separate power pack, able to perform a great range of mast positions and inclinations, thus permitting operation in small spaces covering a large variety of work and maintaining a high performance.

Thanks to advanced modular hydraulic circuits, the rigs of the **MC line** can be equipped with a large range of rotary heads and drifters that apply to most types of rotary and rotary-percussive drilling.

All the machines can be equipped with hydraulic proportional controls or with radio remote control. Since 2011 the drilling rigs are equipped with a new generation radio remote control that includes not only the "traditional" tramming and drilling functions, but also the machine set-up and the rod carousel. The machines can be easily managed from one console, with enhanced efficiency, productivity and security.

The engines mounted on the drilling rigs comply with the current European and American (EPA non Road and CARB) legislation regarding emission values.

The **MC line** drilling rigs can be equipped with a series of innovative patented systems that focus on operator safety and the simplification and automation of the drilling processes on site.

**MC line: a solution for every need!**



Passione  
Passion

Qualità  
Quality

Innovazione  
Innovation



| - non idonea   • idonea   •• molto indicata   ••• ideale |                                     |                                  | MC 1 | MC 2D | MC 3D | MC 4D | MC 8D | MC 8 | MC 12 | MC 14 |
|----------------------------------------------------------|-------------------------------------|----------------------------------|------|-------|-------|-------|-------|------|-------|-------|
| APPLICAZIONI                                             |                                     |                                  |      |       |       |       |       |      |       |       |
| INGEGNERIA DEL SOTTOSUOLO                                | MICROPALI<br>PALI                   | Rotazione con testa singola      | •    | ••    | •••   | •••   | •••   | •••  | •••   | •••   |
|                                                          |                                     | Rotazione con doppia testa       | -    | -     | -     | ••    | ••    | ••   | ••    | •••   |
|                                                          |                                     | Rotopercussione (top hammer)     | -    | •     | ••    | •••   | •••   | •••  | •••   | •••   |
|                                                          |                                     | Pali CFA/FDP                     | -    | -     | -     | -     | -     | -    | -     | -     |
|                                                          | ANCORAGGI<br>DRENAGGI<br>CHIODATURE | Rotazione con testa singola      | •    | •     | •••   | •••   | •••   | •••  | •••   | •••   |
|                                                          |                                     | Rotazione con doppia testa       | -    | -     | -     | ••    | ••    | ••   | ••    | •••   |
|                                                          |                                     | Rotopercussione (top hammer)     | -    | •     | ••    | •••   | •••   | •••  | •••   | •••   |
|                                                          |                                     | Doppia testa con rotopercussione | -    | -     | -     | -     | -     | -    | -     | •••   |
|                                                          |                                     | Barre autopercoranti             | -    | •     | ••    | ••    | ••    | •••  | •••   | •••   |
|                                                          | CONSOLIDAMENTI                      | Jet grouting                     | -    | -     | •     | •     | •     | •    | ••    | ••    |

|            |                          |                                                           |   |   |   |   |   |   |    |    |
|------------|--------------------------|-----------------------------------------------------------|---|---|---|---|---|---|----|----|
| GEOTECNICA | INDAGINI<br>GEOGNOSTICHE | Sondaggi a distruzione di nucleo                          | - | • | • | • | • | • | •• | •• |
|            |                          | Sondaggi a carotaggio continuo                            | - | • | • | • | • | • | •• | •• |
|            |                          | Sondaggi ambientali                                       | - | • | • | • | • | • | •• | •• |
|            | RICERCHE<br>IDRICHE      | Perforazioni a rotazione con martello di fondo            | - | • | • | • | • | • | •• | •• |
|            |                          | Perforazioni a rotazione a circolazione di fanghi diretta | - | • | • | • | • | • | •• | •• |

|           |                                                                     |   |   |   |   |    |    |    |    |    |
|-----------|---------------------------------------------------------------------|---|---|---|---|----|----|----|----|----|
| GEOTERMIA | Perforazioni a rotazione con testa singola e martello di fondo      | - | • | • | • | •  | •  | •  | •• | •• |
|           | Perforazioni a rotazione con testa singola a circolazione di fanghi | - | • | • | • | •  | •  | •  | •• | •• |
|           | Perforazioni a rotazione con doppia testa e martello di fondo       | - | - | - | - | -  | -  | -  | •  | •• |
|           | Perforazioni a rotazione con doppia testa a circolazione di fanghi  | - | - | - | - | -  | -  | -  | •  | •• |
| Pagina    |                                                                     | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |    |

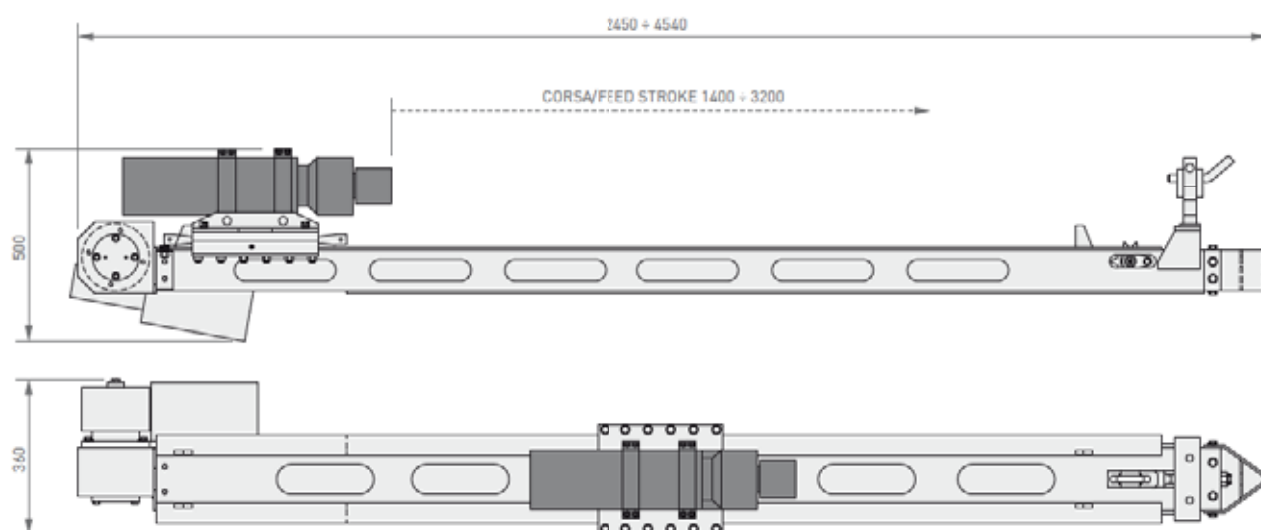
| MC 15 | MC 20 | MC 21 | MC 22 | MC 28 | MC 30 | MC 40 | MC 30 TX | – unsuitable    • suitable    •• very suitable    ••• ideal |                                       |                    |
|-------|-------|-------|-------|-------|-------|-------|----------|-------------------------------------------------------------|---------------------------------------|--------------------|
|       |       |       |       |       |       |       |          |                                                             | APPLICATIONS                          |                    |
| •••   | •••   | •••   | •••   | •••   | •••   | •••   | •••      | Single Rotary head                                          | MICROPILES<br>PILES                   | GROUND ENGINEERING |
| •••   | •••   | •••   | •••   | •••   | •••   | •••   | •••      | Double Rotary head                                          |                                       |                    |
| •••   | •••   | •••   | •••   | •••   | •••   | •••   | •••      | Top hammer                                                  |                                       |                    |
| –     | –     | •     | •     | ••    | •••   | •••   | •        | CFA/FDP piles                                               |                                       |                    |
| •••   | •••   | •••   | •••   | •••   | –     | –     | •••      | Single Rotary head                                          | TIEBACKS<br>DRAINAGES<br>SOIL NAILING |                    |
| •••   | •••   | •••   | •••   | •••   | –     | –     | •••      | Double Rotary head                                          |                                       |                    |
| •••   | •••   | •••   | •••   | •••   | –     | –     | •••      | Top hammer                                                  |                                       |                    |
| –     | •••   | •     | ••    | •••   | –     | –     | •        | Double head with top hammer                                 |                                       |                    |
| •••   | •••   | •     | ••    | •     | –     | –     | •        | Self anchoring bars                                         |                                       |                    |
| •••   | ••    | •••   | •••   | •••   | •••   | •••   | ••       | Jet grouting                                                | GROUND IMPROVEMENT                    |                    |

|    |    |    |    |    |   |   |   |                                 |                                  |             |
|----|----|----|----|----|---|---|---|---------------------------------|----------------------------------|-------------|
| •• | •• | •• | •• | •• | – | – | • | Nucleus destruction drilling    | SOIL INVESTIGATION & EXPLORATION | GEOTECHNICS |
| •• | •• | •• | •• | •• | – | – | • | Core drilling                   |                                  |             |
| •• | •• | •• | •• | •• | – | – | • | Environmental drilling          |                                  |             |
| •• | •• | •• | •• | •• | – | – | • | D.T.H. drilling                 | WATER WELLS                      |             |
| •• | •• | •• | •• | •• | – | – | • | Direct circulation mud drilling |                                  |             |

|    |    |    |    |    |    |    |    |                                |                                  |
|----|----|----|----|----|----|----|----|--------------------------------|----------------------------------|
| •• | •• | •• | •• | •• | •  | •  | -  | Single head<br>D.T.H. drilling | GEOTHERMAL<br>ENERGY<br>DRILLING |
| •• | •• | •• | •• | •• | •  | •  | -  | Single head<br>mud drilling    |                                  |
| •• | •• | •• | •• | •• | •  | •  | -  | Double head<br>D.T.H. drilling |                                  |
| •• | •• | •• | •• | •• | •  | •  | -  | Double head<br>mud drilling    |                                  |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | Page                           |                                  |

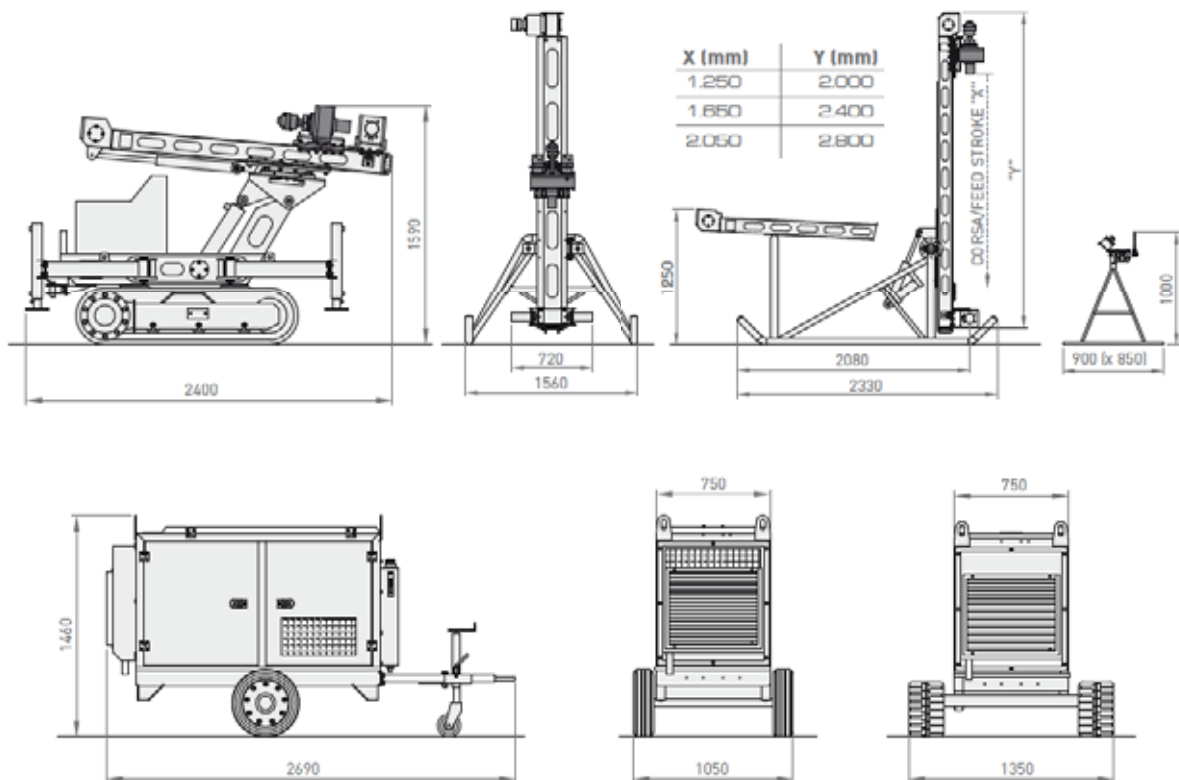


|                 |                    |                  |                     |
|-----------------|--------------------|------------------|---------------------|
| Potenza Motore  | Engine Power       | ---              |                     |
| Corsa Mast      | Mast Feed stroke   | 1,400 - 3.200 mm | 4,6 - 10,5 ft       |
| Forza di Spinta | Feed force         | 850 daN          | 1,910 lbs           |
| Forza di Tiro   | Retract force      | 850 daN          | 1,910 lbs           |
| Coppia Rotary   | Rotary Torque      | 78 - 157 daNm    | 0,575 - 1,157 lb*ft |
| Giri Rotary     | Rotary Speed range | 30 - 40 rpm      |                     |
| Serraggio morse | Clamp range        | ---              |                     |
| Peso            | Weight             | 120 - 150 kg     | 264 - 330 lbs       |





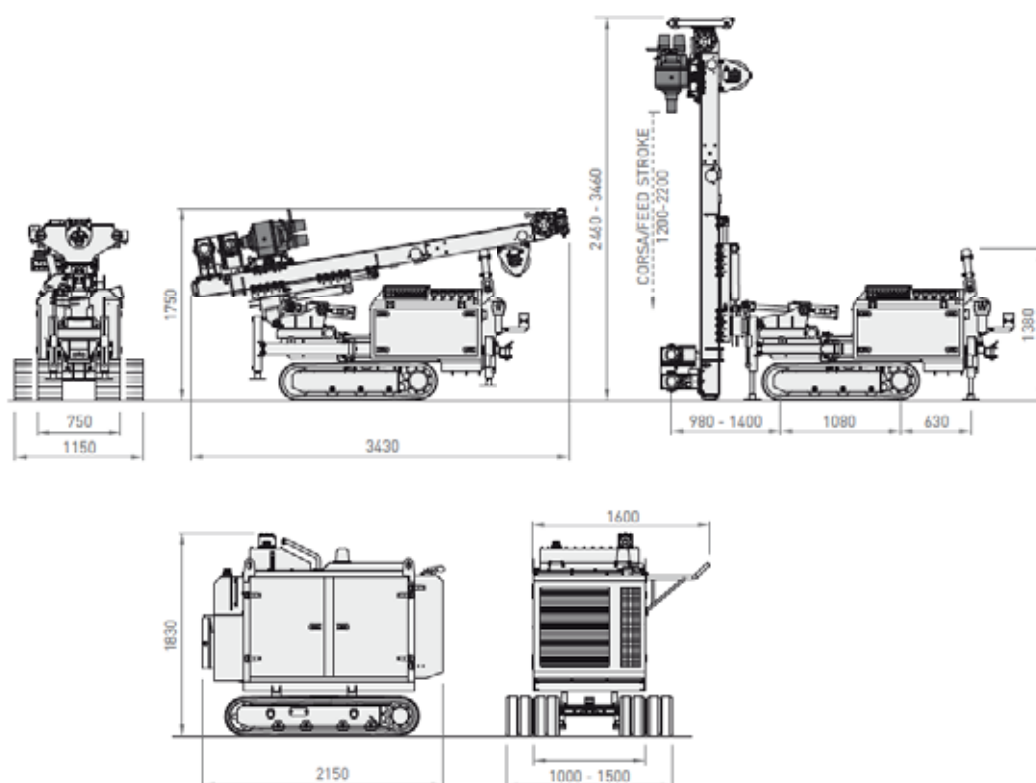
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|-----------------|--------------------|------------------|---------------------|
| Potenza Motore  | Engine Power       | 31 kW [42 HP]    |                     |
| Corsa Mast      | Mast Feed stroke   | 1.250 - 2.050 mm | 4,1 - 6,7 ft        |
| Forza di Spinta | Feed force         | 1.200 daN        | 2,695 lbs           |
| Forza di Tiro   | Retract force      | 1.200 daN        | 2,695 lbs           |
| Coppia Rotary   | Rotary Torque      | 220 - 320 daNm   | 1,622 - 2,360 lb*ft |
| Giri Rotary     | Rotary Speed range | 40 - 120 rpm     |                     |
| Serraggio morse | Clamp range        | 160 - 185 mm     | 6,3 - 7,3 in        |
| Peso            | Weight             | 350 + 900 kg     | 771 + 1984 lbs      |



# MC 3D

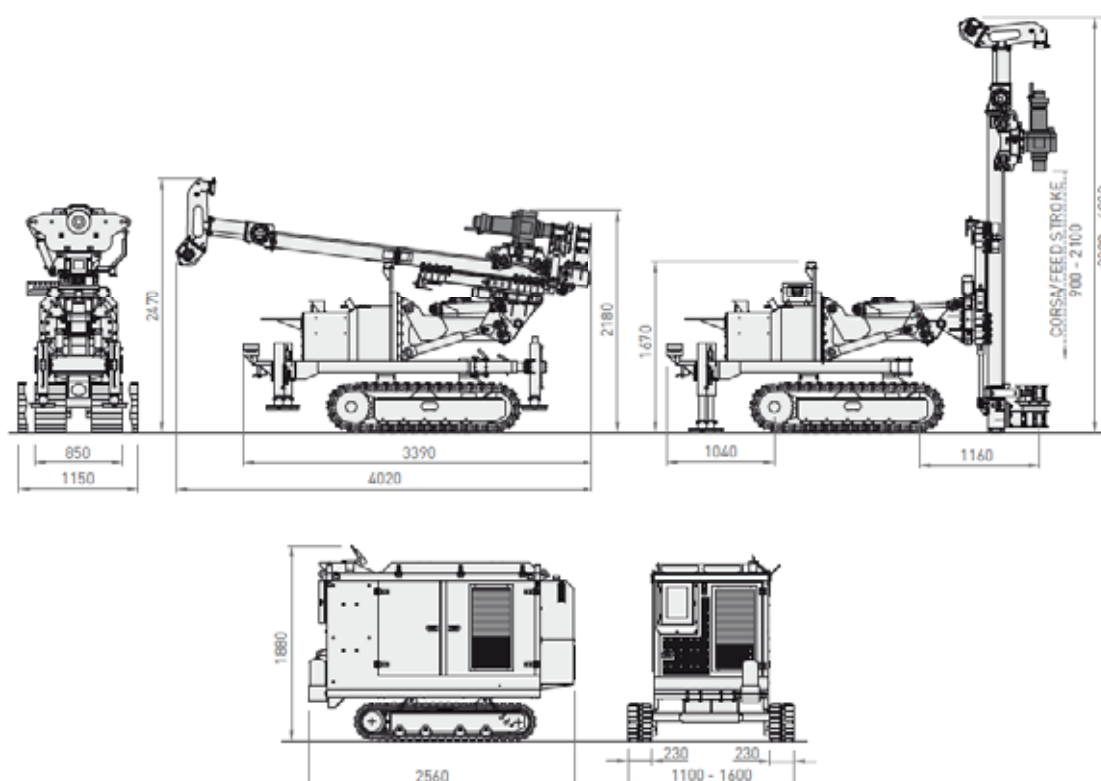


|                 |                    |                          |                           |
|-----------------|--------------------|--------------------------|---------------------------|
| Potenza Motore  | Engine Power       | 31 - 56 kW (41 - 75 HP)  |                           |
| Corsa Mast      | Mast Feed stroke   | 1.200 - 2.200 mm         | 3,9 - 7,2 ft              |
| Forza di Spinta | Feed force         | 2.500 daN                | 5,620 lbs                 |
| Forza di Tiro   | Retract force      | 2.500 daN                | 5,620 lbs                 |
| Coppia Rotary   | Rotary Torque      | 220 - 1.100 daNm         | 1,623 - 8,113 lb*ft       |
| Giri Rotary     | Rotary Speed range | 50 - 500 rpm             |                           |
| Serraggio morse | Clamp range        | 45 - 220 mm              | 1,8 - 8,6 in              |
| Peso            | Weight             | 3.000 + 1.000 / 2.000 kg | 6,500 + 2,200 / 4,400 lbs |





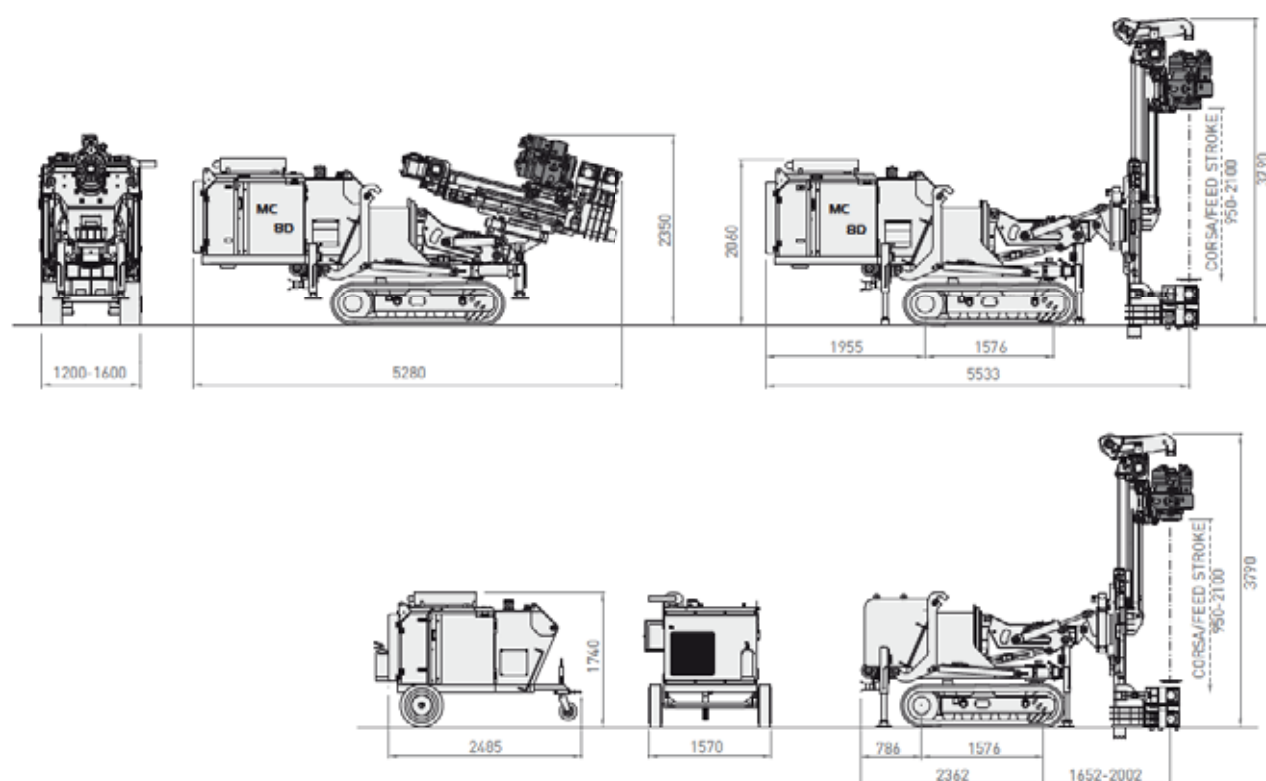
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|-----------------|--------------------|--------------------------|---------------------------|
| Potenza Motore  | Engine Power       | 56 - 86 kW (75 - 115 HP) |                           |
| Corsa Mast      | Mast Feed stroke   | 950 - 2.100 mm           | 3,2 - 6,9 ft              |
| Forza di Spinta | Feed force         | 3.000 daN                | 6,744 lbs                 |
| Forza di Tiro   | Retract force      | 3.000 daN                | 6,744 lbs                 |
| Coppia Rotary   | Rotary Torque      | 450 - 1.400 daNm         | 3,319 - 10,325 lb*ft      |
| Giri Rotary     | Rotary Speed range | 35 - 410 rpm             |                           |
| Serraggio morse | Clamp range        | 45 - 320 mm              | 1,8 - 12 in               |
| Peso            | Weight             | 4.200 + 1.600 / 2.500 kg | 9,300 + 3,500 / 5,500 lbs |



# MC 8D

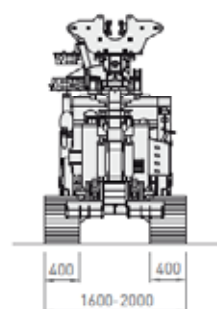
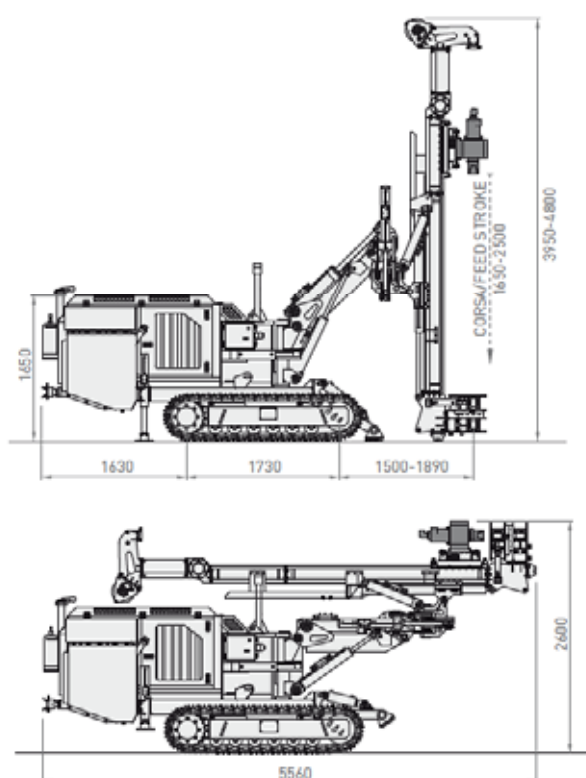


|                 |                    |                   |                      |
|-----------------|--------------------|-------------------|----------------------|
| Potenza Motore  | Engine Power       | 71,2 kW (96,8 HP) |                      |
| Corsa Mast      | Mast Feed stroke   | 950 - 4.000 mm    | 3,12 - 13,13 ft      |
| Forza di Spinta | Feed force         | 6.000 daN         | 13,488 lbs           |
| Forza di Tiro   | Retract force      | 6.000 daN         | 13,488 lbs           |
| Coppia Rotary   | Rotary Torque      | 450 - 2.400 daNm  | 3,319 - 17,701 lb*ft |
| Giri Rotary     | Rotary Speed range | 60 - 140 rpm      |                      |
| Serraggio morse | Clamp range        | 45 - 360 mm       | 1,8 - 14 in          |
| Peso            | Weight             | 7.500 - 8.500 kg  | 16,500 - 18,500 lbs  |



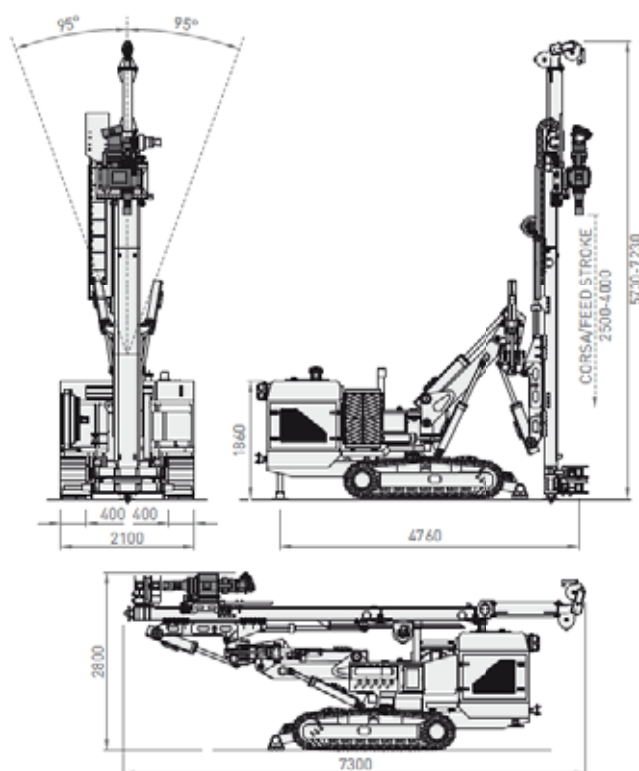


|                 |                    |                  |                      |
|-----------------|--------------------|------------------|----------------------|
| Potenza Motore  | Engine Power       | 86 kW (115 HP)   |                      |
| Corsa Mast      | Mast Feed stroke   | 1.650 - 3.500 mm | 5,4 - 11,5 ft        |
| Forza di Spinta | Feed force         | 4.500 daN        | 10,116 lbs           |
| Forza di Tiro   | Retract force      | 4.500 daN        | 10,116 lbs           |
| Coppia Rotary   | Rotary Torque      | 450 - 1.400 daNm | 3,319 - 10,325 lb*ft |
| Giri Rotary     | Rotary Speed range | 35 - 540 rpm     |                      |
| Serraggio morse | Clamp range        | 45 - 300 mm      | 1,8 - 11 in          |
| Peso            | Weight             | 7.000 - 8.000 kg | 15,500 - 17,500 lbs  |





|                 |                    |                    |                      |
|-----------------|--------------------|--------------------|----------------------|
| Potenza Motore  | Engine Power       | 95 kW (129 HP)     |                      |
| Corsa Mast      | Mast Feed stroke   | 2.500 - 4.000 mm   | 8,2 - 13,1 ft        |
| Forza di Spinta | Feed force         | 6.000 daN          | 13,488 lbs           |
| Forza di Tiro   | Retract force      | 6.000 daN          | 13,488 lbs           |
| Coppia Rotary   | Rotary Torque      | 1.300 - 2.400 daNm | 9,588 - 17,701 lb*ft |
| Giri Rotary     | Rotary Speed range | 60 - 310 rpm       |                      |
| Serraggio morse | Clamp range        | 45 - 360 mm        | 1,8 - 14 in          |
| Peso            | Weight             | 11.000 - 13.000 kg | 24,500 - 28,500 lbs  |

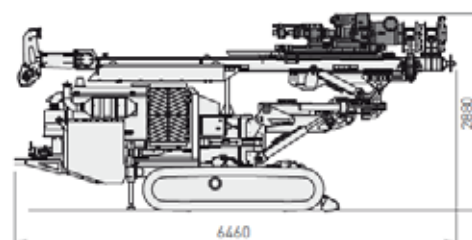
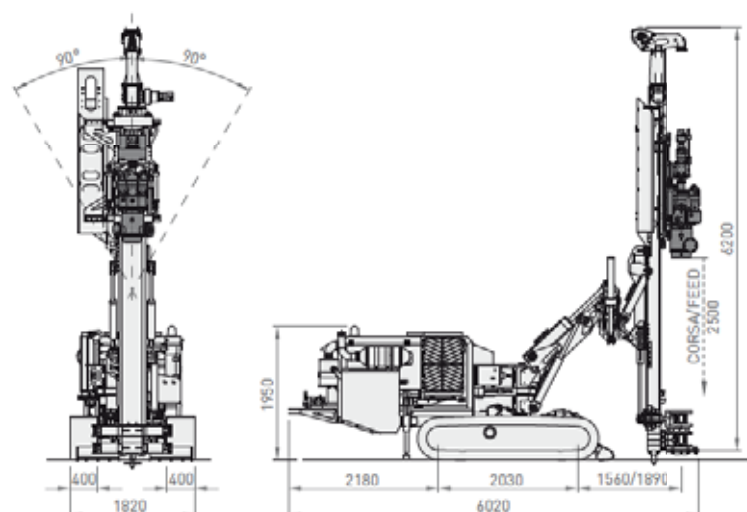


## Jet Grouting





|                 |                    |                    |                      |
|-----------------|--------------------|--------------------|----------------------|
| Potenza Motore  | Engine Power       | 126 kW (171 HP)    |                      |
| Corsa Mast      | Mast Feed stroke   | 2.000 - 4.000 mm   | 6,6 - 13,2 ft        |
| Forza di Spinta | Feed force         | 6.000 daN          | 13,488 lbs           |
| Forza di Tiro   | Retract force      | 6.000 daN          | 13,488 lbs           |
| Coppia Rotary   | Rotary Torque      | 720 - 2.400 daNm   | 9,588 - 17,701 lb*ft |
| Giri Rotary     | Rotary Speed range | 60 - 310 rpm       |                      |
| Serraggio morse | Clamp range        | 45 - 330 mm        | 1,8 - 13 in          |
| Peso            | Weight             | 10.000 - 13.000 kg | 22,000 - 28,500 lbs  |

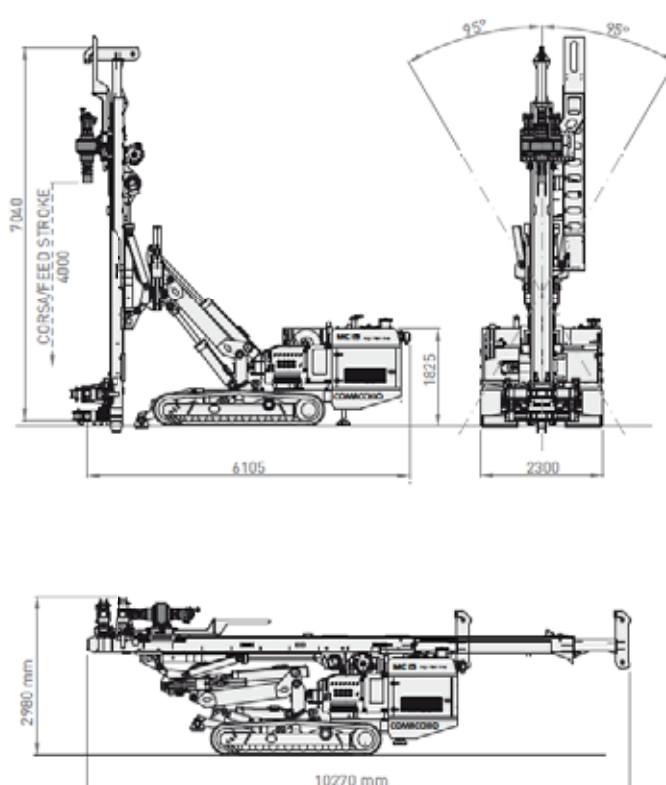


# MC 15



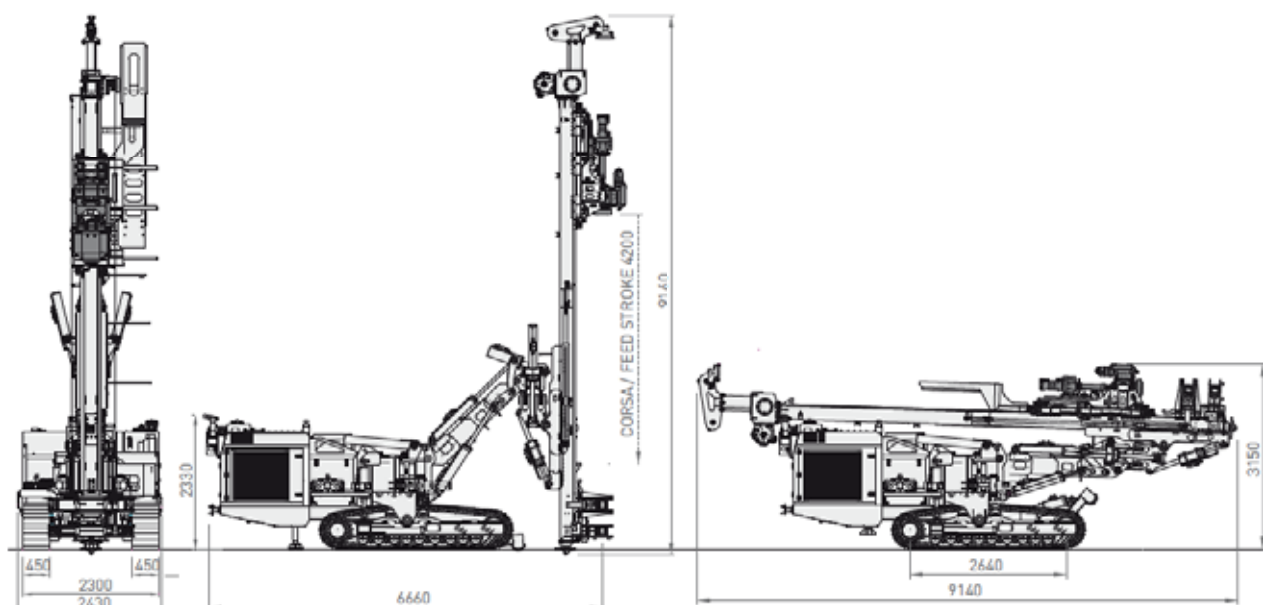
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|-----------------|--------------------|--------------------|----------------------|
| Potenza Motore  | Engine Power       | 119 kW (159HP)     |                      |
| Corsa Mast      | Mast Feed stroke   | 4.000 - 7.000 mm   | 13,2 - 22,9 ft       |
| Forza di Spinta | Feed force         | 8.000 daN          | 17,984 lbs           |
| Forza di Tiro   | Retract force      | 8.000 daN          | 17,984 lbs           |
| Coppia Rotary   | Rotary Torque      | 1.300 - 2.000 daNm | 9,588 - 14,751 lb*ft |
| Giri Rotary     | Rotary Speed range | 40 - 350 rpm       |                      |
| Serraggio morse | Clamp range        | 45 - 425 mm        | 1,8 - 16,7 in        |
| Peso            | Weight             | 14.000 - 16.000 kg | 30,000 - 35,000 lbs  |

## Jet Grouting



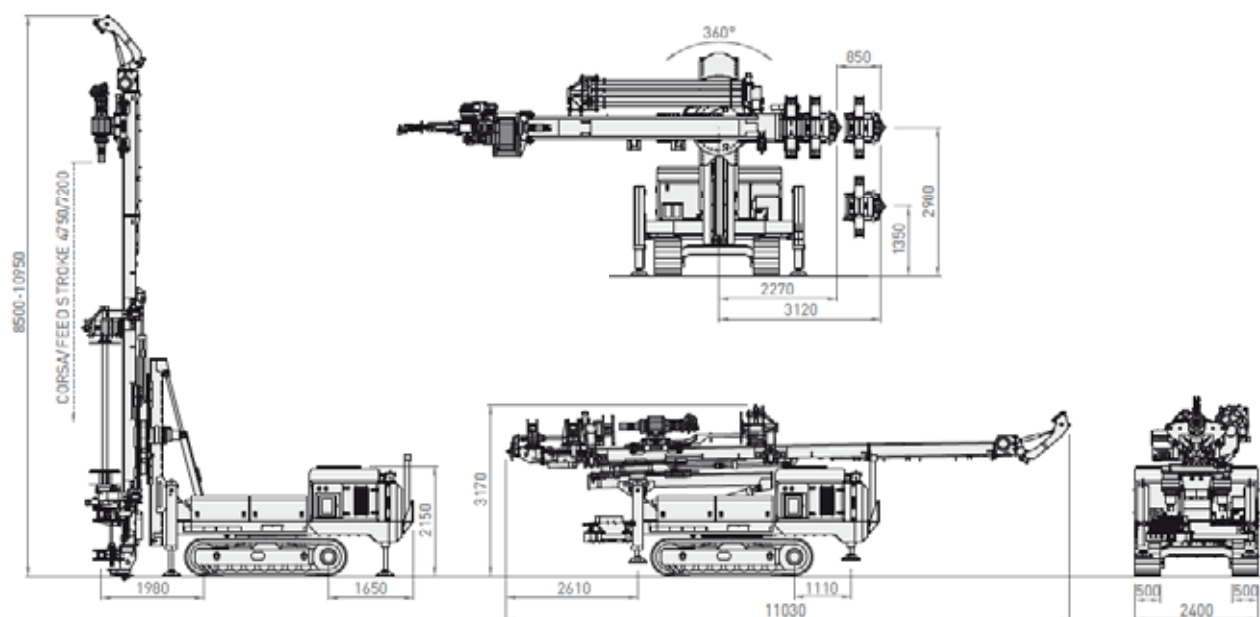


|                 |                    |                             |                      |
|-----------------|--------------------|-----------------------------|----------------------|
| Potenza Motore  | Engine Power       | 188 - 225 kW (252 - 302 HP) |                      |
| Corsa Mast      | Mast Feed stroke   | 4.200 - 4.800 mm            | 13,8 - 15,7 ft       |
| Forza di Spinta | Feed force         | 10.000 daN                  | 22,480 lbs           |
| Forza di Tiro   | Retract force      | 10.000 daN                  | 22,480 lbs           |
| Coppia Rotary   | Rotary Torque      | 1.200 - 3.600 daNm          | 8,850 - 26,552 lb*ft |
| Giri Rotary     | Rotary Speed range | 20 - 200 rpm                |                      |
| Serraggio morse | Clamp range        | 45 - 420 mm                 | 1,8 - 16 in          |
| Peso            | Weight             | 19.000 - 21.000 kg          | 41,000 - 46,000 lbs  |



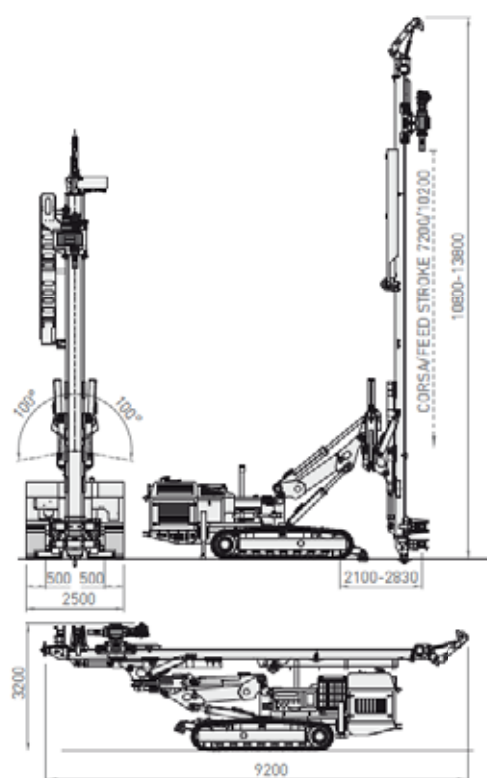


|                 |                    |                             |                      |
|-----------------|--------------------|-----------------------------|----------------------|
| Potenza Motore  | Engine Power       | 126 - 160 kW (171 - 217 HP) |                      |
| Corsa Mast      | Mast Feed stroke   | 4.750 - 7.200 mm            | 15,6 - 23,6 ft       |
| Forza di Spinta | Feed force         | 8.000 daN                   | 17,985 lbs           |
| Forza di Tiro   | Retract force      | 8.000 daN                   | 17,985 lbs           |
| Coppia Rotary   | Rotary Torque      | 1.300 - 2.000 daNm          | 9,588 - 14,751 lb*ft |
| Giri Rotary     | Rotary Speed range | 60 - 310 rpm                |                      |
| Serraggio morse | Clamp range        | 45 - 360 mm                 | 1,8 - 14 in          |
| Peso            | Weight             | 21.000 - 22.000 kg          | 46,000 - 48,000 lbs  |



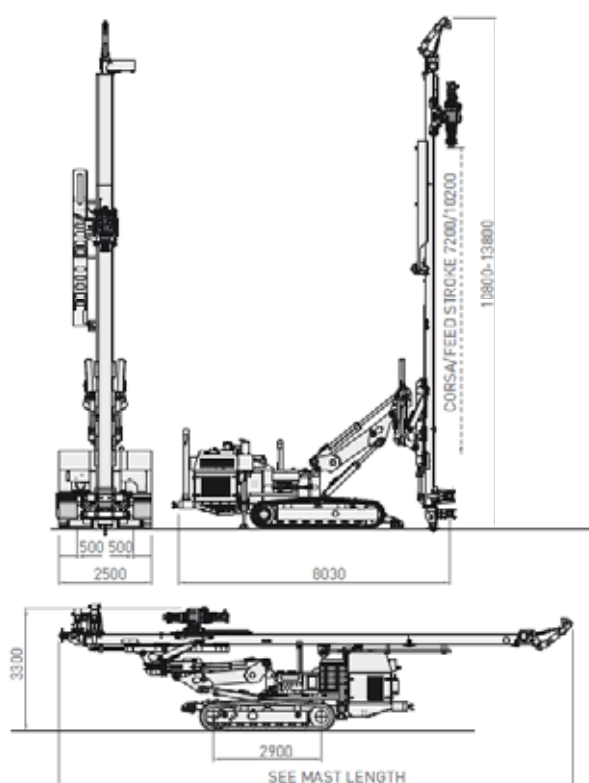


|                 |                    |                             |                      |
|-----------------|--------------------|-----------------------------|----------------------|
| Potenza Motore  | Engine Power       | 147 - 168 kW (197 - 228 HP) |                      |
| Corsa Mast      | Mast Feed stroke   | 4.750 - 10.200 mm           | 15,6 - 33,5 ft       |
| Forza di Spinta | Feed force         | 8.000 daN                   | 17,984 lbs           |
| Forza di Tiro   | Retract force      | 8.000 daN                   | 17,984 lbs           |
| Coppia Rotary   | Rotary Torque      | 1.300 - 3.600 daNm          | 9,588 - 26,552 lb*ft |
| Giri Rotary     | Rotary Speed range | 20 - 350 rpm                |                      |
| Serraggio morse | Clamp range        | 45 - 420 mm                 | 1,8 - 16 in          |
| Peso            | Weight             | 21.000 - 24.000 kg          | 46,000 - 53,000 lbs  |



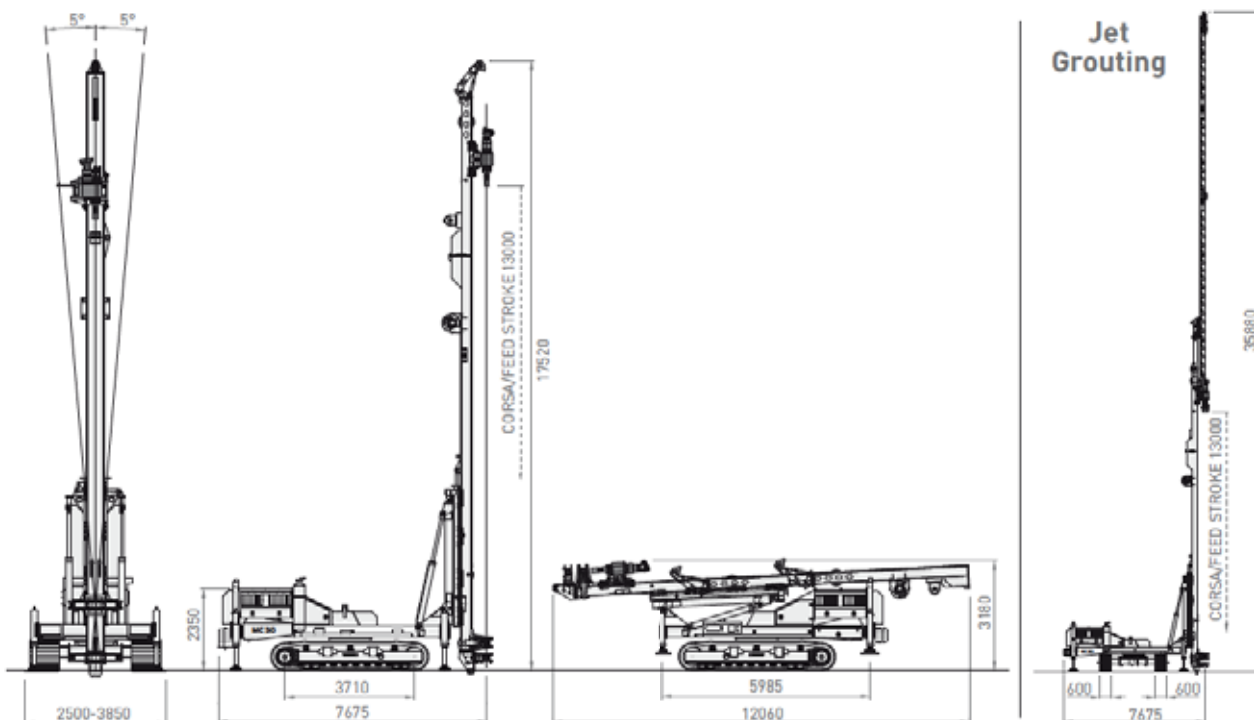


|                 |                    |                             |                       |
|-----------------|--------------------|-----------------------------|-----------------------|
| Potenza Motore  | Engine Power       | 188 - 225 kW (252 - 302 HP) |                       |
| Corsa Mast      | Mast Feed stroke   | 4.500 - 10.200 mm           | 14,7 - 33,5 ft        |
| Forza di Spinta | Feed force         | 10.000 - 15.000 daN         | 22,480 - 33,721 lbs   |
| Forza di Tiro   | Retract force      | 10.000 - 15.000 daN         | 22,480 - 33,721 lbs   |
| Coppia Rotary   | Rotary Torque      | 1.700 - 4.800 daNm          | 12,538 - 35,402 lb*ft |
| Giri Rotary     | Rotary Speed range | 80 - 170 rpm                |                       |
| Serraggio morse | Clamp range        | 45 - 520 mm                 | 1,8 - 20 in           |
| Peso            | Weight             | 27.000 - 29.000 kg          | 59,000 - 64,000 lbs   |





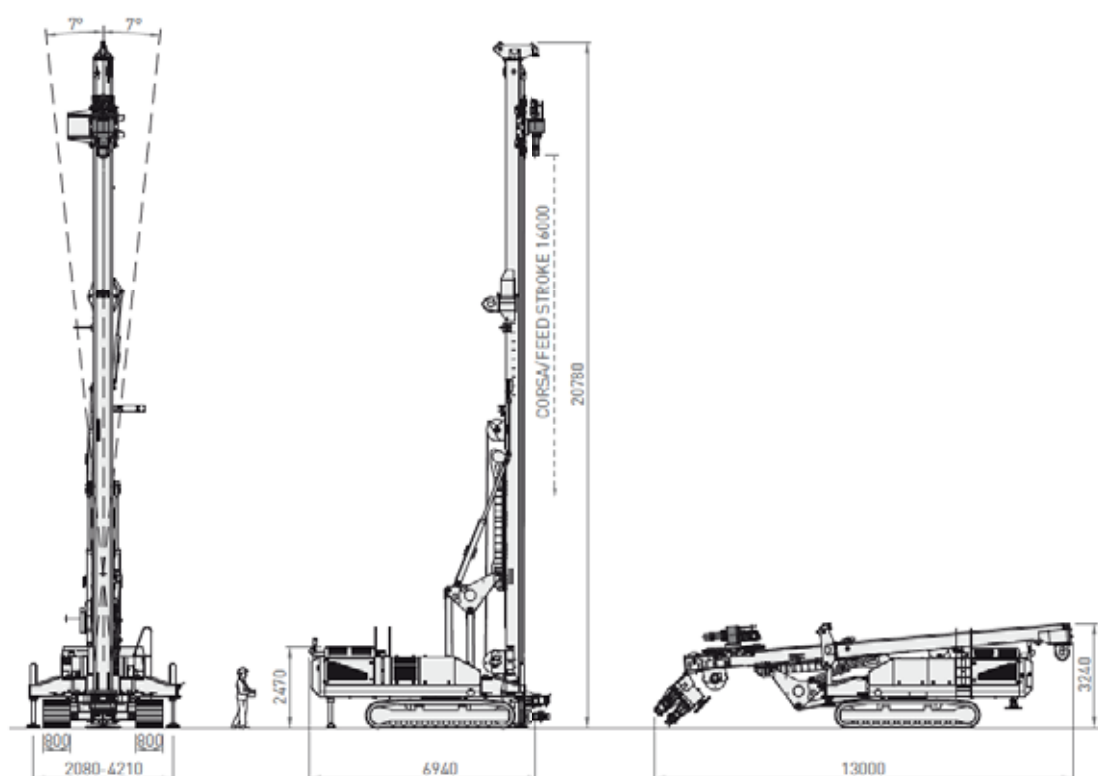
|                 |                    |                             |                       |
|-----------------|--------------------|-----------------------------|-----------------------|
| Potenza Motore  | Engine Power       | 188 - 225 kW (252 - 302 HP) |                       |
| Corsa Mast      | Mast Feed stroke   | 13.000 - 16.000 mm          | 42,6 - 52,4 ft        |
| Forza di Spinta | Feed force         | 10.000 daN                  | 22,480 lbs            |
| Forza di Tiro   | Retract force      | 10.000 daN                  | 22,480 lbs            |
| Coppia Rotary   | Rotary Torque      | 1.700 - 4.800 daNm          | 12,538 - 35,402 lb*ft |
| Giri Rotary     | Rotary Speed range | 20 - 260 rpm                |                       |
| Serraggio morse | Clamp range        | 45 - 520 mm                 | 1,8 - 20 in           |
| Peso            | Weight             | 32.000 - 35.000 kg          | 70,500 - 77,000 lbs   |

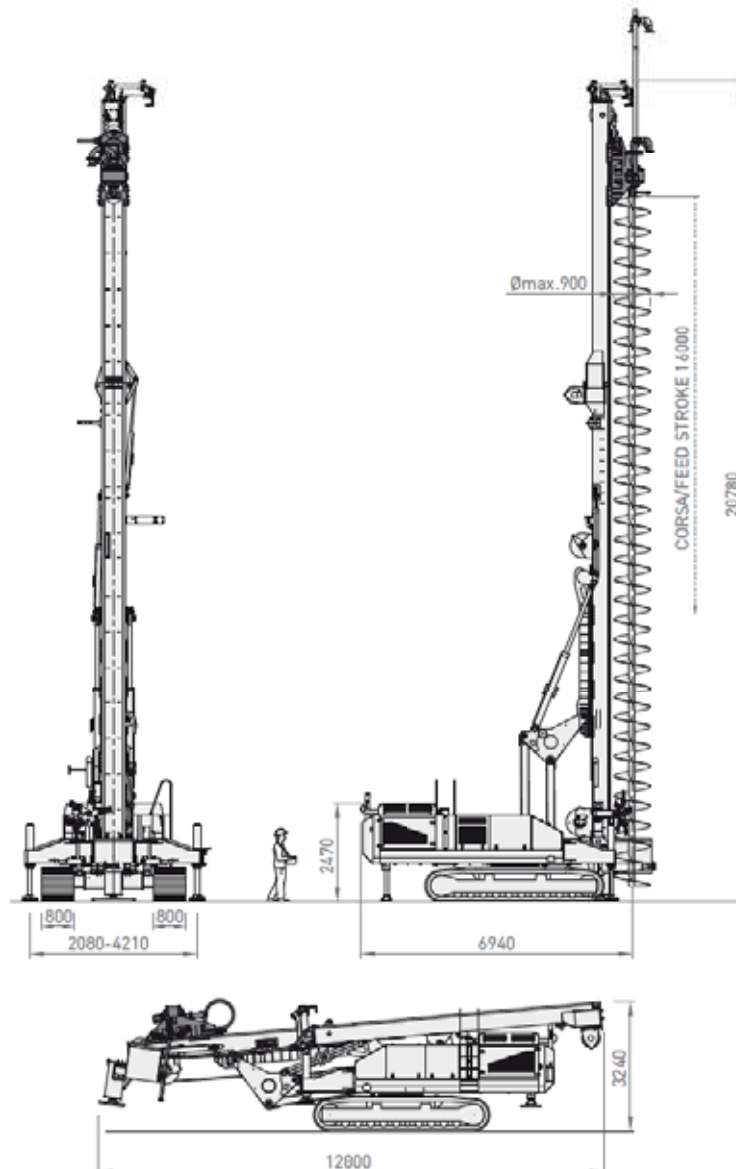


# MC 40



|                 |                    |                             |                       |
|-----------------|--------------------|-----------------------------|-----------------------|
| Potenza Motore  | Engine Power       | 188 - 225 kW (252 - 302 HP) |                       |
| Corsa Mast      | Mast Feed stroke   | 16.000 mm                   | 52,4 ft               |
| Forza di Spinta | Feed force         | 15.000 - 30.000 daN         | 33,720 - 67,440 lbs   |
| Forza di Tiro   | Retract force      | 15.000 - 30.000 daN         | 33,720 - 67,440 lbs   |
| Coppia Rotary   | Rotary Torque      | 3.500 - 7.800 daNm          | 25,814 - 57,529 lb*ft |
| Giri Rotary     | Rotary Speed range | 20-100 rpm                  |                       |
| Serraggio morse | Clamp range        | 60 - 620 mm                 | 2,3 - 24 in           |
| Peso            | Weight             | 39.000 - 42.000 kg          | 86,000 - 93,000 lbs   |

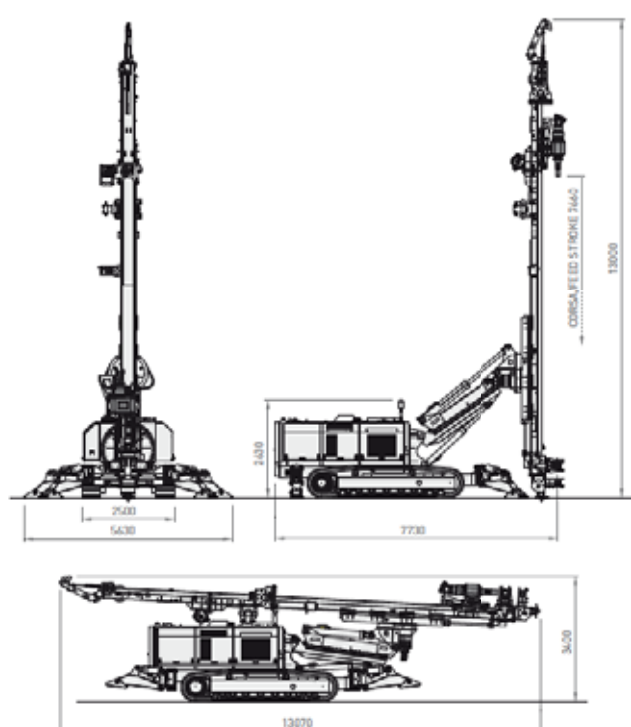




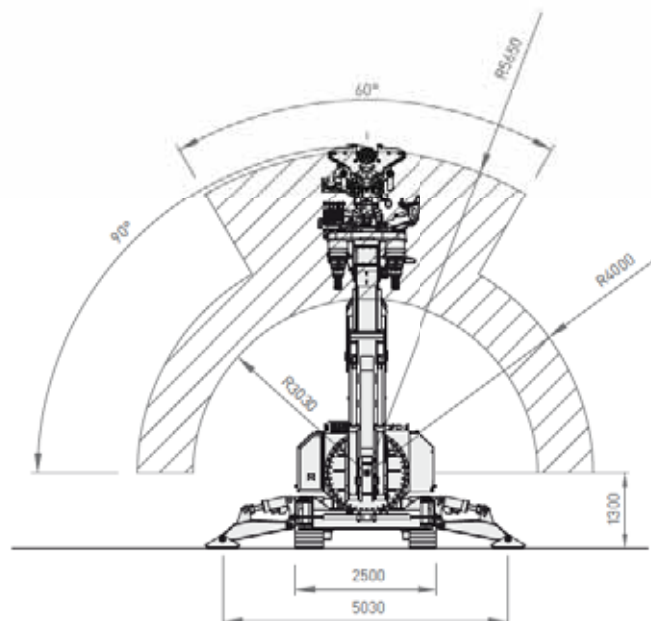
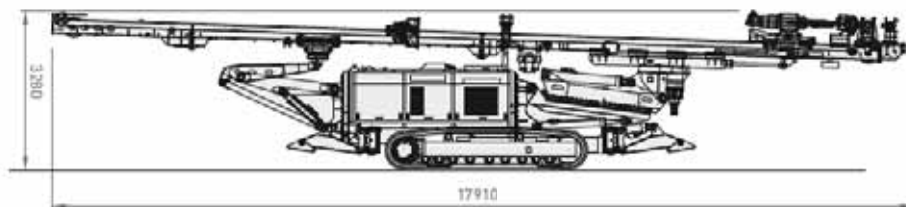
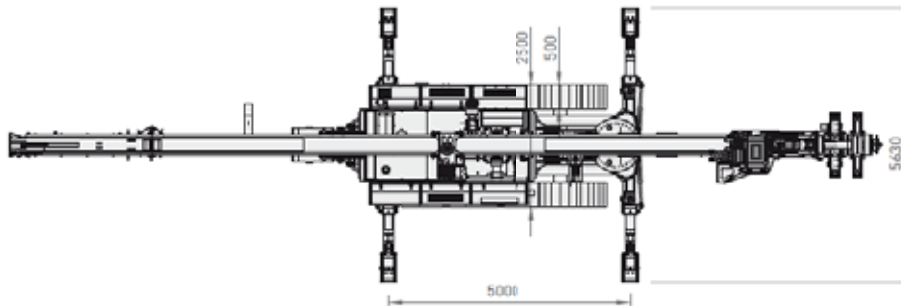
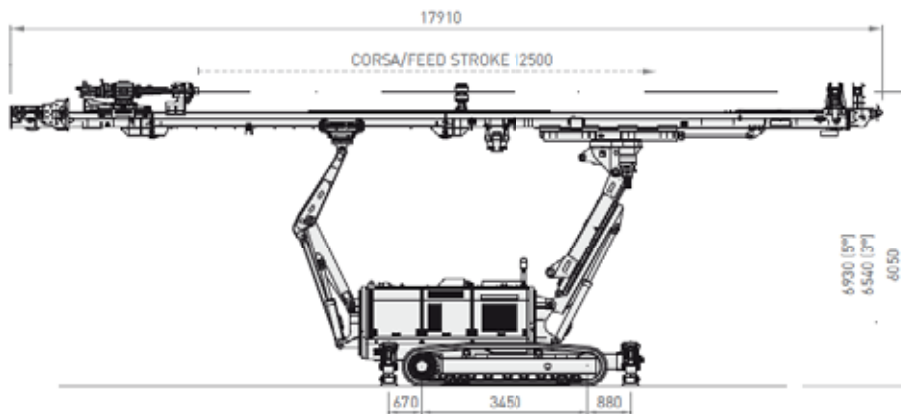
# MC 30 TX



|                 |                    |                    |                      |
|-----------------|--------------------|--------------------|----------------------|
| Potenza Motore  | Engine Power       | 147 kW (197 HP)    |                      |
| Corsa Mast      | Mast Feed stroke   | 7.000 - 13.000 mm  | 22,9 - 42,6 ft       |
| Forza di Spinta | Feed force         | 8.000 daN          | 17,984 lbs           |
| Forza di Tiro   | Retract force      | 8.000 daN          | 17,984 lbs           |
| Coppia Rotary   | Rotary Torque      | 1.300 - 2.000 daNm | 9,588 - 14,751 lb*ft |
| Giri Rotary     | Rotary Speed range | 40 - 350 rpm       |                      |
| Serraggio morse | Clamp range        | 45 - 360 mm        | 1,8 - 14 in          |
| Peso            | Weight             | 28.000 - 32.000 kg | 62,000 - 70,500 lbs  |



## Tunnel version





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