



From **Giorgio Cangini's** experience,  
a new **Premium** line for Earthmoving.

**CANGEO**<sup>®</sup>  
Advanced Attachment System



**CATALOGUE ADVANCED VERSION  
REV 2**





# CANGEO<sup>®</sup>

Advanced Attachment System

made by GIORGIO CANGINI

## PLURY W1

VIBRATION DRIVE 1.0 - 20.0 TONS

10 

## PLURY W2

VIBRATION DRIVE 6.0 - 40.0 TONS

11 

## ACCESSORI PLURY

ACCESSORIES FOR VIBRATION DRIVES

16 

## MULTYPLATE

DOUBLE COMPACTOR PLATE FOR FRONT-MOUNTED MACHINES

36 

## ROLLER

VIBRATORY ROLLERS FOR COMPACTION

40 

## TOORX

GRASS AND FORESTRY MULCHER

46 

## TORNADO

STUMP GRINDER

54 

## VORTEX

MULTIFUNCTION AUGER

62 

## SHEETPILE FIX

VIBRATORY SHEET PILE DRIVER

78 



# Plury

## VIBRATION POWER



**THE ONLY MULTIFUNCTIONAL  
SOLUTION FOR COMPACTION  
AND DRIVING POSTS AND SHEET PILES.**

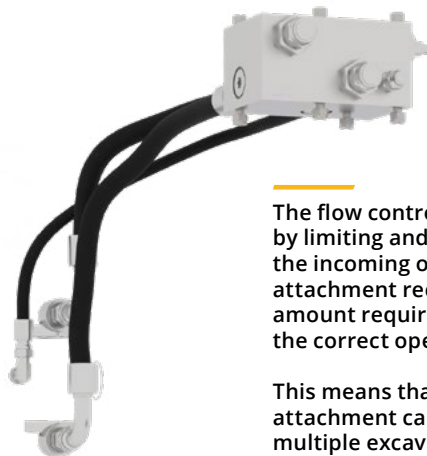
# AVAILABLE FOR ALL OPERATING MACHINE TONNAGE RANGE

- VIBRATION POWER**  
available with one or two eccentric shafts
- MULTIFUNCTION ACCESSORIES**  
for compacting various types of ground  
and driving posts and sheet piles
- QUICK COUPLER**  
for changing accessories quickly

# Premium Line



## FLOW CONTROL VALVE



The flow control valve operates by limiting and stabilizing the incoming oil flow, so the attachment receives only the amount required to work under the correct operating conditions.

This means that the same attachment can be installed on multiple excavators, loaders, or operating machines, without being strictly dependent on the specific hydraulic flow rate of each machine.

## OPTIONAL BRACKETS FOR PILE EXTRACTION



**OPTIONAL PILE EXTRACTION KIT**  
Recommended to protect the anti-vibration mounts during the extraction of piles, sheet piles, etc.





**Difference between 1 and 2 eccentric masses**

# PLURY W1

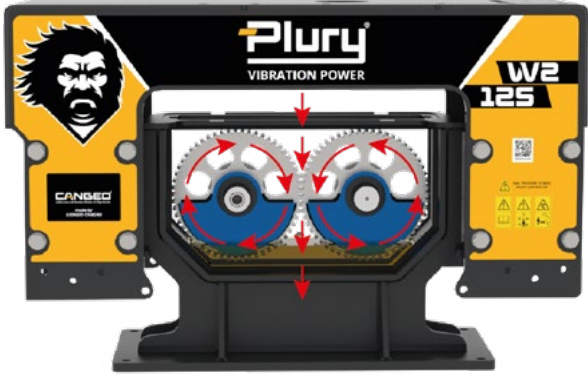
 vibrating mass       directional force



Radial vibration, the centrifugal force produced is radially distributed over 360°

# PLURY W2

 vibrating mass       directional force



Sinusoidal vibration, it vibrates vertically from top to bottom, concentrating the centrifugal force in the centre

**Composition PLURY**



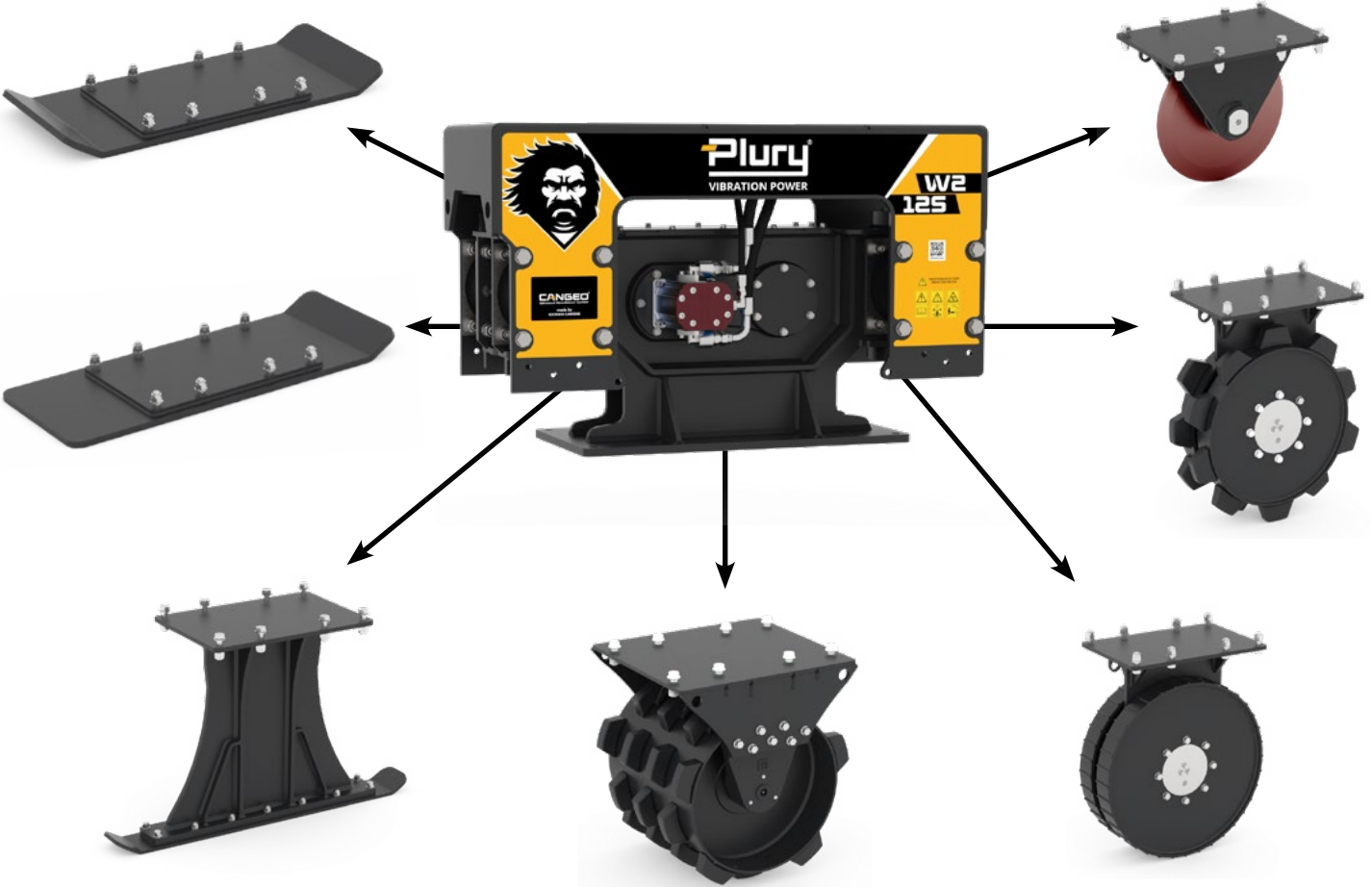
**PLURY with bolted equipment**



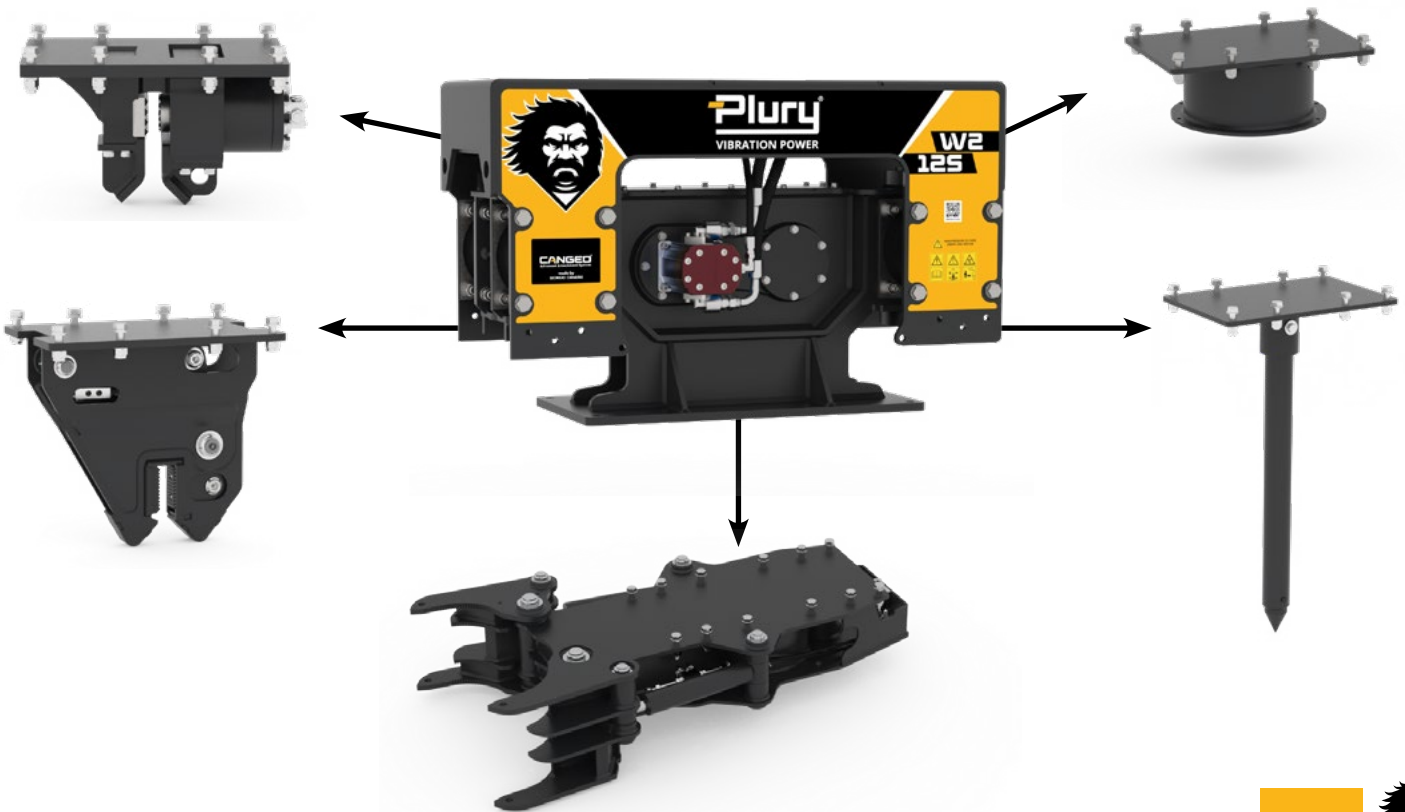
**PLURY with equipment attached via quick coupler**

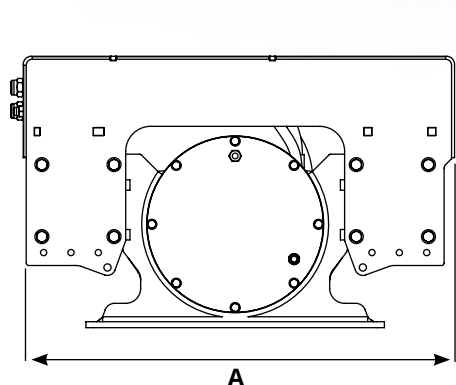
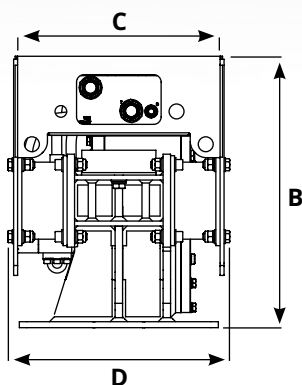


**COMPACTION accessories for PLURY**



**VIBRO-DRIVING accessories for PLURY**





**OPTIONAL POST EXTRACTION KIT**  
Recommended for use to protect  
the anti-vibration mounts.

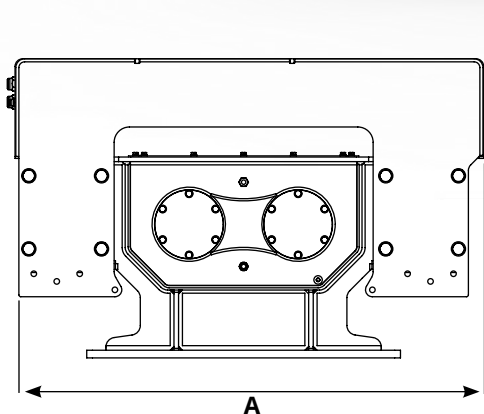
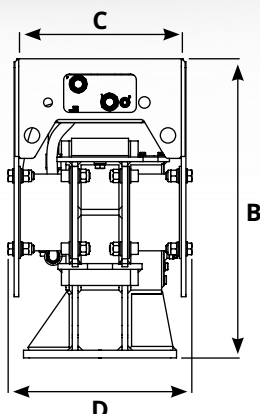
| PLURY                                 | W1 14 *<br>TONS 1.2 - 2.0 | W1 25<br>TONS 2.0 - 4.5 | W1 45<br>TONS 4.5 - 7.0 | W1 60<br>TONS 6.0 - 12.0 | W1 90<br>TONS 12.0 - 20.0 |
|---------------------------------------|---------------------------|-------------------------|-------------------------|--------------------------|---------------------------|
| A (mm)                                | 562                       | 670                     | 722                     | 870                      | 1000                      |
| B (mm)                                | 385                       | 435                     | 430                     | 545                      | 750                       |
| C (mm)                                | 250                       | 265                     | 310                     | 405                      | 430                       |
| D (mm)                                | 270                       | 292                     | 340                     | 445                      | 480                       |
| Weight (Kg)                           | 73                        | 100                     | 135                     | 300                      | 430                       |
| Engine (CC)                           | 8                         | 11                      | 14                      | 27                       | 32                        |
| Hydraulic Fluid<br>Flow Rate (L/Min') | 20 min   25 max           | 27 min   32 max         | 36 min   43 max         | 68 min   76 max          | 80 min   90 max           |
| Flow control valve                    | * Drainage kit            | ✓                       | ✓                       | ✓                        | ✓                         |
| Rev/min' (RPM)                        | 2.500 min   3.000 max     | 2.500 min   3.000 max   | 2.500 min   3.000 max   | 2.500 min   2.800 max    | 2.500 min   2.800 max     |
| Vibration frequency (Hertz)           | 42 min   50 max           | 42 min   50 max         | 42 min   50 max         | 42 min   47 max          | 42 min   47 max           |
| Centrifugal force (kN)                | 14                        | 25                      | 45                      | 60                       | 90                        |
| Pressure Max (BAR)                    | 250                       | 250                     | 250                     | 250                      | 250                       |
| Back pressure Max (BAR)               | 15                        | 15                      | 15                      | 15                       | 15                        |

\* RETURN LINE DRAIN KIT (mandatory if the return pressure exceeds 15 bar)

✓ The FLOW CONTROL VALVE limits and stabilizes the incoming oil flow, so the equipment receives only the amount required to operate under the correct conditions.

The data provided should be considered indicative and should be compared with the capacity of the operating machine on which the equipment is used

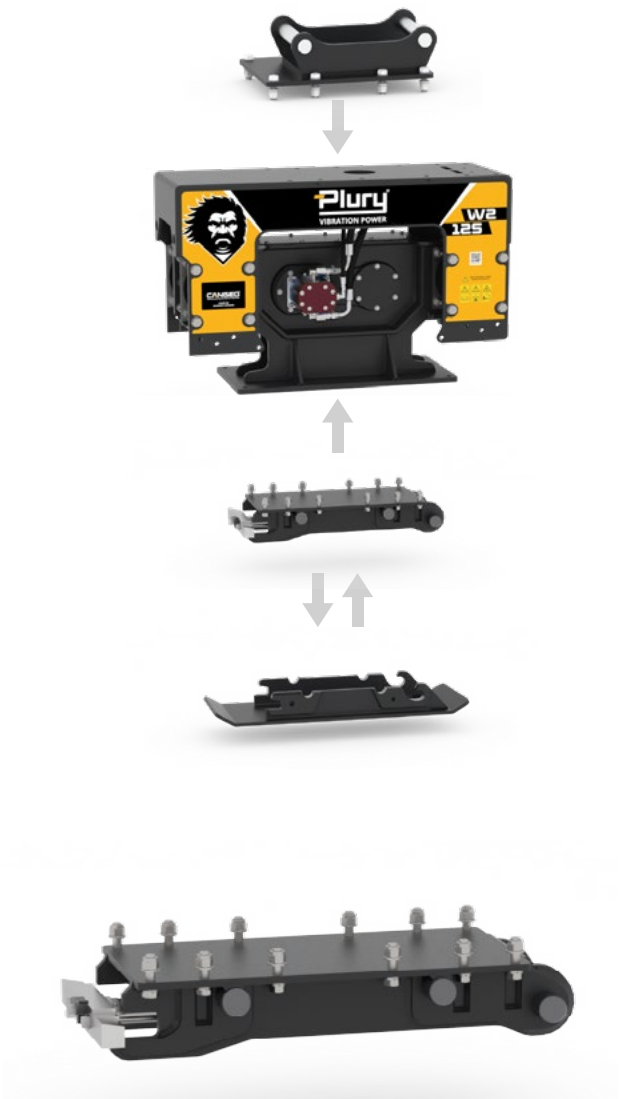




| PLURY                                 | W2 62<br>TONS 6.0 - 11.0 | W2 92<br>TONS 12.0 - 18.0 | W2 125<br>TONS 16.0 - 22.0 | W2 185<br>TONS 20.0 - 30.0 | W2 220<br>TONS 25.0 - 40.0 |
|---------------------------------------|--------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| A (mm)                                | 965                      | 1085                      | 1225                       | 1315                       | 1315                       |
| B (mm)                                | 605                      | 740                       | 780                        | 810                        | 810                        |
| C (mm)                                | 430                      | 450                       | 450                        | 565                        | 545                        |
| D (mm)                                | 445                      | 485                       | 485                        | 600                        | 600                        |
| Weight (Kg)                           | 300                      | 455                       | 570                        | 880                        | 885                        |
| Engine (CC)                           | 27                       | 32                        | 43                         | 45                         | 63                         |
| Hydraulic Fluid<br>Flow Rate (L/Min') | 68 min   200 max         | 80 min   200 max          | 110 min   200 max          | 115 min   200 max          | 160 min   200 max          |
| Flow control valve                    | ✓                        | ✓                         | ✓                          | ✓                          | ✓                          |
| Rev/min' (RPM)                        | 2.500 min   2.800 max    | 2.500 min   2.800 max     | 2.500 min   2.800 max      | 2.500 min   2.800 max      | 2.500 min   2.800 max      |
| Vibration frequency (Hertz)           | 42 min   47 max          | 42 min   47 max           | 42 min   47 max            | 42 min   47 max            | 42 min   47 max            |
| Centrifugal force (kN)                | 62                       | 92                        | 125                        | 185                        | 220                        |
| Pressure Max (BAR)                    | 250                      | 250                       | 250                        | 300                        | 300                        |
| Back pressure Max (BAR)               | 15                       | 15                        | 15                         | 15                         | 15                         |

✓ The FLOW CONTROL VALVE limits and stabilizes the incoming oil flow, so the equipment receives only the amount required to operate under the correct conditions.

# TOK QUICK COUPLER



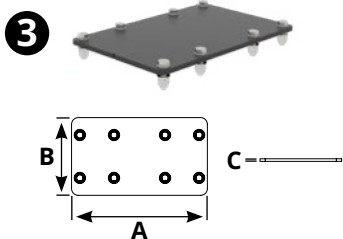
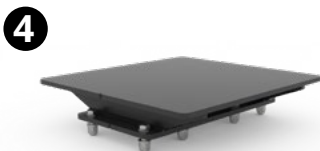
| Model             | #             | A mm | B mm | C mm | Kg. | Model. PLURY                  |
|-------------------|---------------|------|------|------|-----|-------------------------------|
| TOK QUICK COUPLER | B             | 530  | 100  | 240  | 29  | W1 25                         |
| TOK QUICK COUPLER | C             | 625  | 140  | 330  | 60  | W1 45                         |
| TOK QUICK COUPLER | D + E + F + G | 850  | 170  | 440  | 120 | W1 60   W1 90   W2 62   W2 92 |
| TOK QUICK COUPLER | H + I + L     | 1040 | 170  | 440  | 145 | W2 125   W2 185   W2 220      |



| Model           | #             | A mm | B mm | C mm | Kg. | Model. PLURY                  |
|-----------------|---------------|------|------|------|-----|-------------------------------|
| TOK ADAPTER KIT | B             | 230  | 170  | 200  | 13  | W1 25                         |
| TOK ADAPTER KIT | C             | 140  | 460  | 550  | 22  | W1 45                         |
| TOK ADAPTER KIT | D + E + F + G | 160  | 720  | 780  | 43  | W1 60   W1 90   W2 62   W2 92 |
| TOK ADAPTER KIT | H + I + L     | 160  | 930  | 980  | 64  | W2 125   W2 185   W2 220      |



# MACHINE ATTACHMENTS



| Model                      | #             | Model. PLURY                  |
|----------------------------|---------------|-------------------------------|
| ADAPTER FOR QUICK COUPLING | A             | W1 14                         |
| ADAPTER FOR QUICK COUPLING | B             | W1 25                         |
| ADAPTER FOR QUICK COUPLING | C             | W1 45                         |
| ADAPTER FOR QUICK COUPLING | D + E + F + G | W1 60   W1 90   W2 62   W2 92 |
| ADAPTER FOR QUICK COUPLING | H + I + L     | W2 125   W2 185   W2 220      |

| Model                  | #             | Model. PLURY                  |
|------------------------|---------------|-------------------------------|
| FIXED COUPLING MACHINE | A             | W1 14                         |
| FIXED COUPLING MACHINE | B             | W1 25                         |
| FIXED COUPLING MACHINE | C             | W1 45                         |
| FIXED COUPLING MACHINE | D + E + F + G | W1 60   W1 90   W2 62   W2 92 |
| FIXED COUPLING MACHINE | H + I + L     | W2 125   W2 185   W2 220      |

| Model                         | #             | A mm | B mm | C mm | Kg. | Model. PLURY                  |
|-------------------------------|---------------|------|------|------|-----|-------------------------------|
| BOLTED PLATE MACHINE COUPLING | A             | 340  | 240  | 8    | 5   | W1 14                         |
| BOLTED PLATE MACHINE COUPLING | B             | 400  | 240  | 10   | 8   | W1 25                         |
| BOLTED PLATE MACHINE COUPLING | C             | 460  | 300  | 12   | 13  | W1 45                         |
| BOLTED PLATE MACHINE COUPLING | D + E + F + G | 600  | 400  | 15   | 28  | W1 60   W1 90   W2 62   W2 92 |
| BOLTED PLATE MACHINE COUPLING | H + I + L     | 820  | 400  | 20   | 51  | W2 125   W2 185   W2 220      |

| Model       | #             | Model. PLURY                  |
|-------------|---------------|-------------------------------|
| UPPER FRAME | A             | W1 14                         |
| UPPER FRAME | B             | W1 25                         |
| UPPER FRAME | C             | W1 45                         |
| UPPER FRAME | D + E + F + G | W1 60   W1 90   W2 62   W2 92 |
| UPPER FRAME | H + I + L     | W2 125   W2 185   W2 220      |

The frame is used when the machine coupling is wider than the plate (BOLTED PLATE MACHINE COUPLING)

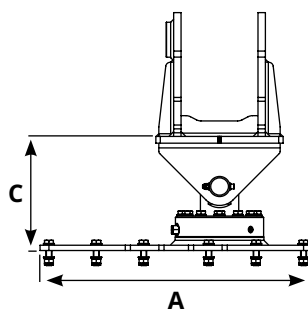
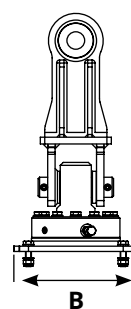
| Model        | #             | Model. PLURY                  |
|--------------|---------------|-------------------------------|
| ACB MORIN M1 | A             | W1 14                         |
| ACB MORIN M2 | B             | W1 25                         |
| ACB MORIN M3 | C             | W1 45                         |
| ACB MORIN M4 | D + E + F + G | W1 60   W1 90   W2 62   W2 92 |
| ACB MORIN M5 | H + I + L     | W2 125   W2 185   W2 220      |

| Model | #             | Model. PLURY                  |
|-------|---------------|-------------------------------|
| CW 05 | A             | W1 14                         |
| CW 10 | B             | W1 25                         |
| CW 20 | C             | W1 45                         |
| CW 30 | D + E + F + G | W1 60   W1 90   W2 62   W2 92 |
| CW 40 | H + I + L     | W2 125   W2 185   W2 220      |



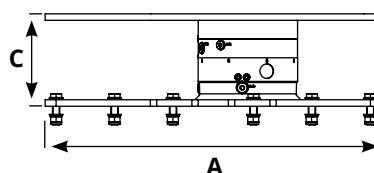
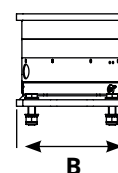
# ROTATION SYSTEMS

## MECHANICAL SLEWING



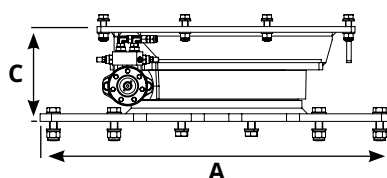
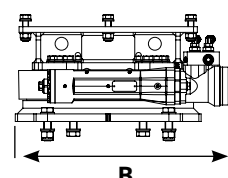
| Model              | #         | A mm | B mm | C mm | Kg. | Model. PLURY             |
|--------------------|-----------|------|------|------|-----|--------------------------|
| MECHANICAL SLEWING | H + I + L | 820  | 400  | 375  | 125 | W2 125   W2 185   W2 220 |

## ROTATORS



| Model    | #             | A mm | B mm | C mm | Kg. | Model. PLURY                  |
|----------|---------------|------|------|------|-----|-------------------------------|
| ROTATORS | A             | 370  | 240  | 210  | 54  | W1 14                         |
| ROTATORS | B             | 465  | 240  | 225  | 61  | W1 25                         |
| ROTATORS | C             | 510  | 300  | 280  | 121 | W1 45                         |
| ROTATORS | D + E + F + G | 680  | 400  | 305  | 180 | W1 60   W1 90   W2 62   W2 92 |
| ROTATORS | H + I + L     | 900  | 400  | 345  | 290 | W2 125   W2 185   W2 220      |

## HYDRAULICS SLEWING



| Model              | #             | A mm | B mm | C mm | Kg. | Model. PLURY                   | 5 Hoses € | 7 Hoses € |
|--------------------|---------------|------|------|------|-----|--------------------------------|-----------|-----------|
| HYDRAULICS SLEWING | B             | 495  | 300  | 235  | 100 | W1 25                          | ✓         | ✓         |
| HYDRAULICS SLEWING | C             | 510  | 300  | 235  | 105 | W1 45                          | ✓         | ✓         |
| HYDRAULICS SLEWING | D + E + F + G | 740  | 450  | 305  | 215 | W1 60   W1 90<br>W2 62   W2 92 | ✓         | ✓         |
| HYDRAULICS SLEWING | H + I + L     | 940  | 480  | 310  | 310 | W2 125   W2 185<br>W2 220      | ✓         | ✓         |





The mechanical slewing ring can be mounted on the excavator arm with an oscillating configuration.

Mechanical rotation allows the attachment to rotate on itself up to 210° in partial rotation.



It allows the machine to rotate on itself 360° with continuous rotation.

The rotor is supplied complete with hoses.

The rotor can be mounted on the PLURY only with mechanically operated accessories. It cannot be used with hydraulically operated accessories.



The hydraulic slewing ring can be mounted using the excavator coupling, allowing the attachment to rotate 360° on itself.

Made with 7 hoses, it allows the use of all types of accessories.



# GRAPPLE - WOOD GRAPPLE WITH BELL



Designed for vibrodriving and extracting wooden, concrete and steel posts.

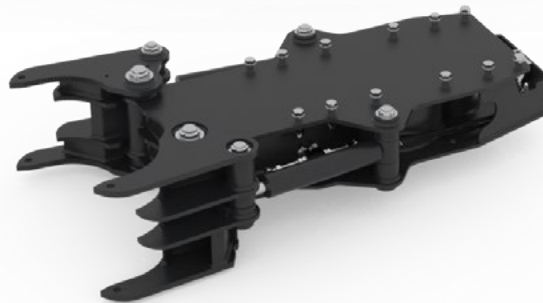
Suitable for landslide containment, embankments and riverbanks.

Ideal for the construction of vineyards, orchards and fencing systems.

A fundamental combination, widely used in land maintenance and agriculture



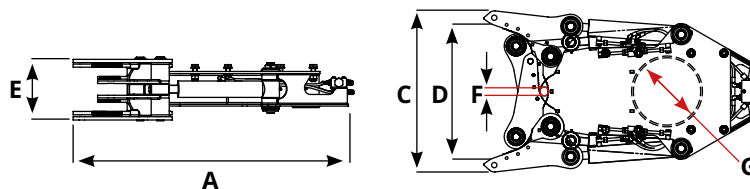
GRAPPLE with directly welded TOK ADAPTER



By means of the MACHINE COUPLINGS the GRAPPLE can be mounted directly on the machine without drive.

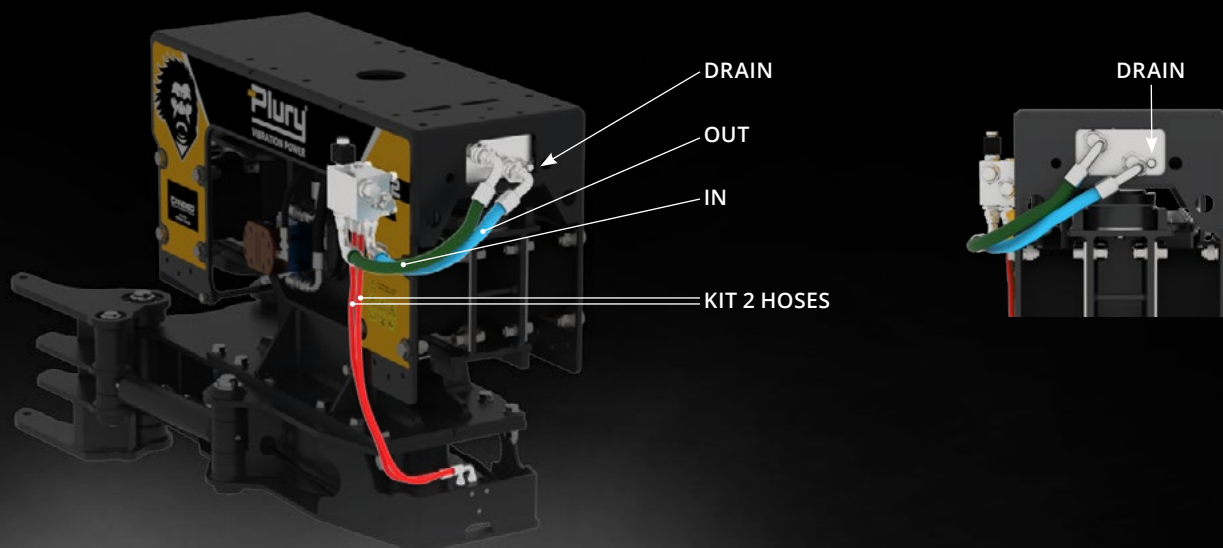


**OPTIONAL POST EXTRACTION KIT**  
Recommended for use to protect the anti-vibration mounts.



| Model   | #     | A mm | B mm | C mm | D mm | E mm | Ø F mm | Ø G mm | Hydraulic Flow (L/Min') |  | Kg. | Model. PLURY           |
|---------|-------|------|------|------|------|------|--------|--------|-------------------------|---------------------------------------------------------------------------------------|-----|------------------------|
| GRAPPLE | A     | 835  | 500  | 575  | 375  | 220  | 35     | 200    | 10                      | 58 kN                                                                                 | 83  | W1 14                  |
| GRAPPLE | B     | 945  | 500  | 575  | 375  | 220  | 35     | 200    | 10                      | 58 kN                                                                                 | 86  | W1 25                  |
| GRAPPLE | C     | 1055 | 540  | 605  | 415  | 225  | 35     | 250    | 10                      | 83 kN                                                                                 | 110 | W1 45                  |
| GRAPPLE | D+F   | 1260 | 620  | 735  | 613  | 290  | 40     | 300    | 10                      | 95 kN                                                                                 | 200 | W1 60 - W2 62          |
| GRAPPLE | E+G   | 1325 | 620  | 735  | 613  | 290  | 40     | 300    | 10                      | 95 kN                                                                                 | 225 | W1 90 - W2 92          |
| GRAPPLE | H+I+L | 1620 | 690  | 835  | 675  | 400  | 70     | 350    | 10                      | 103 kN                                                                                | 355 | W2 125 - W2 185 W2 220 |





| HYDRAULIC KITS                | #         | Model. PLURY           | CABLE COIL               | Volt       |
|-------------------------------|-----------|------------------------|--------------------------|------------|
| 2-HOSES VALVE KIT FOR GRAPPLE | A         | W1 14                  | C030401013<br>C030401014 | V12<br>V24 |
| 2-HOSES VALVE KIT FOR GRAPPLE | B         | W1 25                  | C030401013<br>C030401014 | V12<br>V24 |
| 2-HOSES VALVE KIT FOR GRAPPLE | C         | W1 45                  | C030401013<br>C030401014 | V12<br>V24 |
| 2-HOSES VALVE KIT FOR GRAPPLE | D + F     | W1 60 - W2 62          | C030401013<br>C030401014 | V12<br>V24 |
| 2-HOSES VALVE KIT FOR GRAPPLE | E + G     | W1 90 - W2 92          | C030401013<br>C030401014 | V12<br>V24 |
| 2-HOSES VALVE KIT FOR GRAPPLE | H + I + L | W2 125 - W2 185 W2 220 | C030401013<br>C030401014 | V12<br>V24 |



| HYDRAULIC KITS  | #         | Model. PLURY  |
|-----------------|-----------|---------------|
| 2 HOSES GRAPPLE | A + B + C | W1 14         |
| 2 HOSES GRAPPLE | D + F     | W1 25         |
| 2 HOSES GRAPPLE | E + G     | W1 45         |
| 2 HOSES GRAPPLE | H + I + L | W1 60 - W2 62 |



| ELECTRIC KIT              |
|---------------------------|
| ELECTRIC KIT 1,5mt + 3mt  |
| ELECTRIC KIT 1,5mt + 5mt  |
| ELECTRIC KIT 1,5mt + 12mt |



# OPT GRAPPLE KIT

OPTIONAL CONCRETE-STEEL



### KIT 1

Grapple accessory suitable for vibro-driving and extraction of concrete and steel poles.

| Model               | #             | Kg. |
|---------------------|---------------|-----|
| KIT 1 CONCRETE PADS | A + B + C     | 27  |
| KIT 1 CONCRETE PADS | D + E + F + G | 40  |
| KIT 1 CONCRETE PADS | H + I + L     | 51  |



### KIT 2

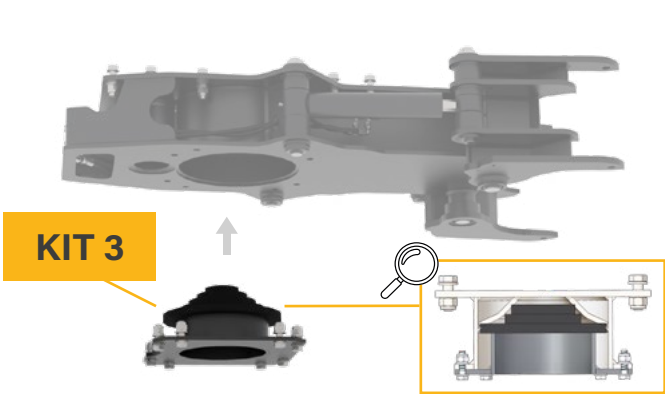
Pre-hole drill suitable for making a pre-hole in hard ground  
Suitable for vibro-driving concrete poles

| Model            | #             | Kg. |
|------------------|---------------|-----|
| KIT 2 T-DRILLING | A + B + C     | 22  |
| KIT 2 T-DRILLING | D + E + F + G | 27  |
| KIT 2 T-DRILLING | H + I + L     | 37  |



# OPT GRAPPLE KIT

## OPTIONAL CONCRETE-STEEL



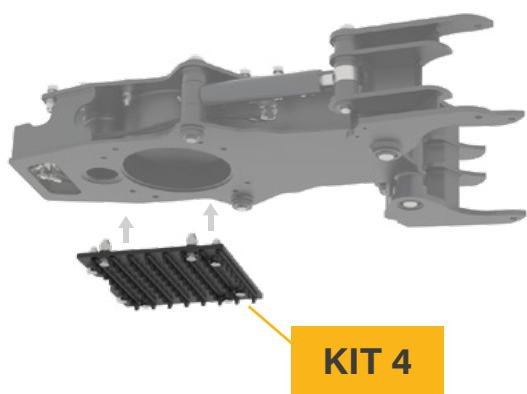
### KIT 3

Shock-absorbing rubber accessory suitable for vibrating concrete poles, avoiding damage to the pole itself

| Model      | #             | Kg.  |
|------------|---------------|------|
| KIT 3 BELL | A + B         | 6    |
| KIT 3 BELL | C             | 7,5  |
| KIT 3 BELL | D + E + F + G | 11   |
| KIT 3 BELL | H + I + L     | 15,5 |

| Model      | #             |
|------------|---------------|
| KIT RUBBER | A + B         |
| KIT RUBBER | C             |
| KIT RUBBER | D + E + F + G |
| KIT RUBBER | H + I + L     |

Replacement rubber pad for centering bell



### KIT 4

Toothed plate mounted in place of the bell for vibratory driving of wooden piles of different diameters

| Model               | #             | Kg. |
|---------------------|---------------|-----|
| KIT 4 TOOTHED PLATE | B             | 8   |
| KIT 4 TOOTHED PLATE | C             | 11  |
| KIT 4 TOOTHED PLATE | D + E + F + G | 25  |
| KIT 4 TOOTHED PLATE | H + I + L     | 33  |

H-BEAM CLAMP

- H-BEAM VIBRO-DRIVING CLAMP



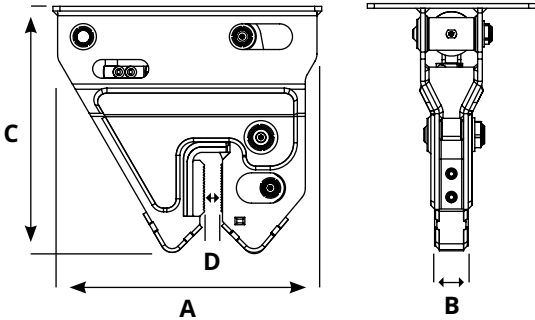
Clamp designed for vibro-driving and extracting H-beams in various soil conditions.



H-BEAM CLAMP with TOK adapter welded directly onto the clamp.

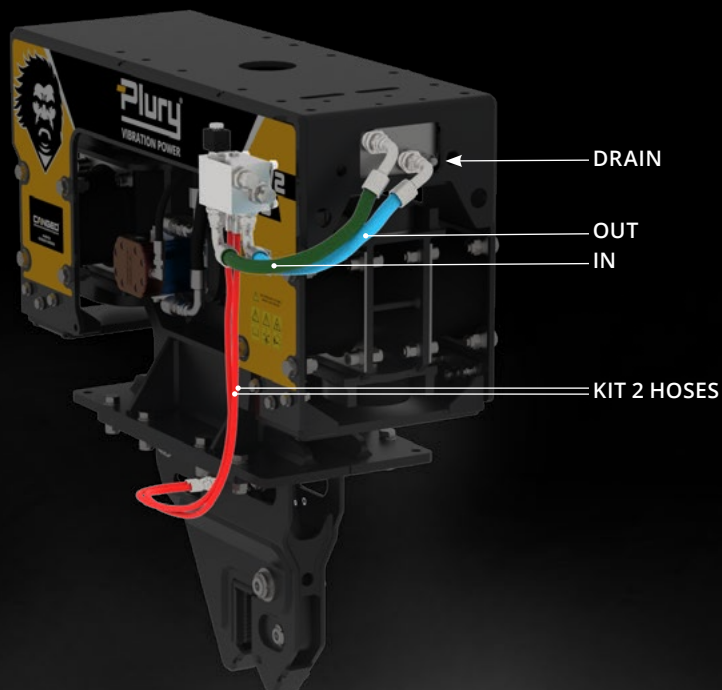
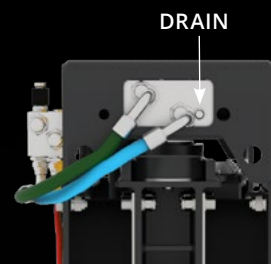


OPTIONAL FOR PILE EXTRACTION  
Recommended to protect the anti-vibration mounts.



| Model                | #                | A mm | B mm | C mm | D mm | Press. Bar | Force max press | Hydraulic Flow (L/Min') | Kg. | Model. PLURY                   |
|----------------------|------------------|------|------|------|------|------------|-----------------|-------------------------|-----|--------------------------------|
| H-BEAM CLAMP 20 GRIP | D+E+F+G<br>H+I+L | 580  | 72   | 430  | 35   | 200        | 20 Ton          | 10                      | 95  | W1 60 - W1 90<br>W2 62 - W2 92 |
|                      |                  |      |      |      |      | 250        | 23 Ton          |                         |     | W2 125 - W2 185 - W2 220       |





| HYDRAULIC KITS                     | #         | Model. PLURY             | Cod. CABLE COIL          | Volt       |
|------------------------------------|-----------|--------------------------|--------------------------|------------|
| 2-HOSES VALVE KIT FOR H-BEAM CLAMP | D + F     | W1 60 - W2 62            | C030401013<br>C030401014 | V12<br>V24 |
| 2-HOSES VALVE KIT FOR H-BEAM CLAMP | E + G     | W1 90 - W2 92            | C030401013<br>C030401014 | V12<br>V24 |
| 2-HOSES VALVE KIT FOR H-BEAM CLAMP | H + I + L | W2 125 - W2 185 - W2 220 | C030401013<br>C030401014 | V12<br>V24 |



| HYDRAULIC KITS       | #         | Model. PLURY  |
|----------------------|-----------|---------------|
| 2 HOSES H-BEAM CLAMP | D + F     | W1 25         |
| 2 HOSES H-BEAM CLAMP | E + G     | W1 45         |
| 2 HOSES H-BEAM CLAMP | H + I + L | W1 60 - W2 62 |



| ELECTRIC KIT              |
|---------------------------|
| ELECTRIC KIT 1,5mt + 3mt  |
| ELECTRIC KIT 1,5mt + 5mt  |
| ELECTRIC KIT 1,5mt + 12mt |



# SHEET PILE CLAMP

## SHEET PILE VIBRO-DRIVING CLAMP



Clamp designed for vibro-driving and extracting sheet piles in various soil conditions.

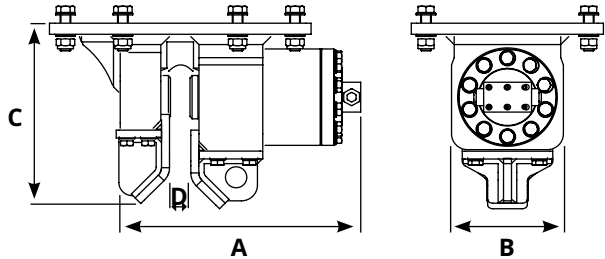
Ideal for vibrating steel cages immersed in concrete.



Sheet pile clamp with TOK adapter welded directly onto the clamp.

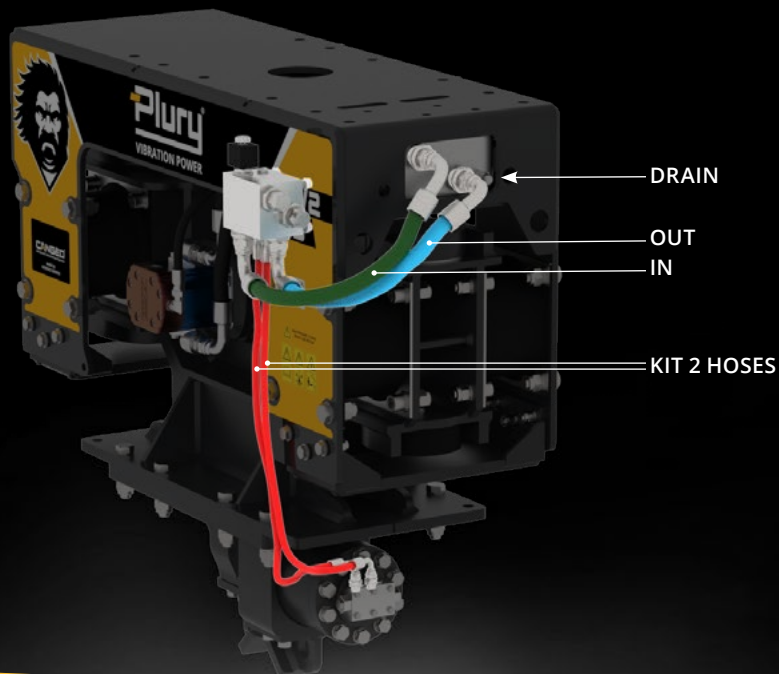
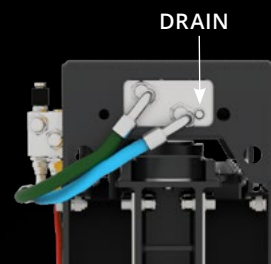


**OPTIONAL FOR PILE EXTRACTION**  
Recommended to protect the anti-vibration mounts.



| Model                    | #                | A mm | B mm | C mm | D mm | Press. Bar | Force max press | Hydraulic Flow (L/Min') | Kg. | Model. PLURY                   |
|--------------------------|------------------|------|------|------|------|------------|-----------------|-------------------------|-----|--------------------------------|
| SHEET PILE CLAMP 25 GRIP | D+E+F+G<br>H+I+L | 455  | 210  | 350  | 25   | 200        | 23 Ton          | 10                      | 170 | W1 60 - W1 90<br>W2 62 - W2 92 |
|                          |                  |      |      |      |      | 250        | 28 Ton          |                         |     | W2 125 - W2 185 - W2 220       |





| HYDRAULIC KITS                         | #         | Model. PLURY             | Cod. CABLE COIL          | Volt       |
|----------------------------------------|-----------|--------------------------|--------------------------|------------|
| 2-HOSES VALVE KIT FOR SHEET PILE CLAMP | D + F     | W1 60 - W2 62            | C030401013<br>C030401014 | V12<br>V24 |
| 2-HOSES VALVE KIT FOR SHEET PILE CLAMP | E + G     | W1 90 - W2 92            | C030401013<br>C030401014 | V12<br>V24 |
| 2-HOSES VALVE KIT FOR SHEET PILE CLAMP | H + I + L | W2 125 - W2 185 - W2 220 | C030401013<br>C030401014 | V12<br>V24 |



| HYDRAULIC KITS           | #         | Model. PLURY  |
|--------------------------|-----------|---------------|
| 2 HOSES SHEET PILE CLAMP | D + F     | W1 25         |
| 2 HOSES SHEET PILE CLAMP | E + G     | W1 45         |
| 2 HOSES SHEET PILE CLAMP | H + I + L | W1 60 - W2 62 |



| ELECTRIC KIT              |
|---------------------------|
| ELECTRIC KIT 1,5mt + 3mt  |
| ELECTRIC KIT 1,5mt + 5mt  |
| ELECTRIC KIT 1,5mt + 12mt |



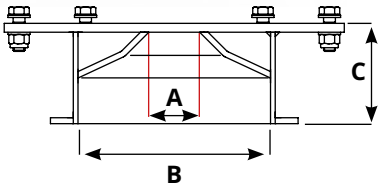
# BELL - POLE-CENTRING COLLAR



Designed for vibro-driving wooden, concrete and steel piles.



Bell with TOK adapter welded directly onto the attachment.



| Model    | #             | A mm | B mm | C mm | Kg. | Model. PLURY                  |
|----------|---------------|------|------|------|-----|-------------------------------|
| BELL 200 | A             | 80   | 200  | 125  | 18  | W1 14                         |
| BELL 200 | B             | 80   | 200  | 125  | 18  | W1 25                         |
| BELL 250 | C             | 80   | 250  | 135  | 25  | W1 45                         |
| BELL 300 | D + E + F + G | 100  | 300  | 160  | 49  | W1 60 - W1 90 - W2 62 - W2 92 |
| BELL 350 | H + I + L     | 100  | 350  | 210  | 57  | W2 125 - W2 185 - W2 220      |

| Model    | #             |
|----------|---------------|
| KIT BELL | A + B         |
| KIT BELL | C             |
| KIT BELL | D + E + F + G |
| KIT BELL | H + I + L     |



## KIT BELL

Bell with interchangeable cushioning rubber, designed for vibro-driving concrete piles without damaging the pile.

| Model      | #             |
|------------|---------------|
| KIT RUBBER | A + B         |
| KIT RUBBER | C             |
| KIT RUBBER | D + E + F + G |
| KIT RUBBER | H + I + L     |



## KIT RUBBER

Replacement cushioning rubber for concrete piles.



# T-DRILLING - PRE-DRILL BIT

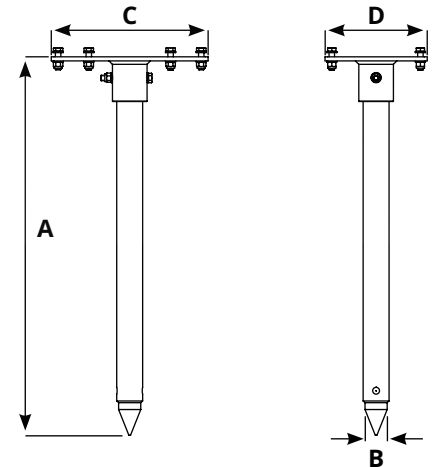


Pre-drilling tip designed to create a pilot hole in hard ground.

Recommended for vibro-driving concrete piles.



T-Drilling with TOK adapter welded directly onto the attachment.



| Model      | #         | A mm | B mm | C mm | D mm | Kg. | Model. PLURY                  |
|------------|-----------|------|------|------|------|-----|-------------------------------|
| T-DRILLING | A         | 1105 | 76   | 400  | 240  | 35  | W1 14                         |
| T-DRILLING | B         | 1105 | 76   | 400  | 240  | 35  | W1 25                         |
| T-DRILLING | C         | 1110 | 76   | 460  | 300  | 40  | W1 45                         |
| T-DRILLING | D+E+F+G   | 1110 | 90   | 600  | 400  | 65  | W1 60 - W1 90 - W2 62 - W2 92 |
| T-DRILLING | H + I + L | 1130 | 100  | 600  | 400  | 72  | W2 125 - W2 185 - W2 220      |



# PLATE 2P - COMPACTION PLATE WITH 2 BENDS



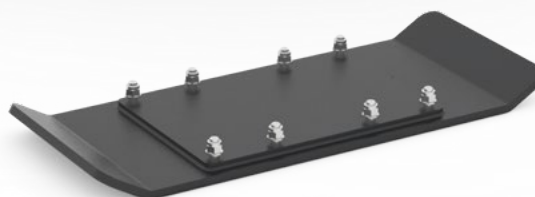
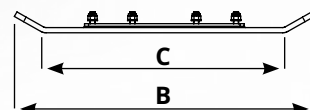
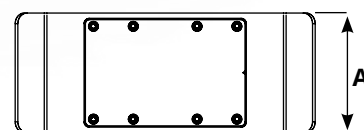
Designed to compact all types of surfaces, such as trenches, soils and slopes.

Ensures a compact, uniform and stable base, built to last over time.

Capable of compacting even in very difficult positions.



PLATE with directly welded TOK ADAPTER



| Model        | #         | A mm | B mm | C mm | Kg. | compaction kg cm2 | Model. PLURY             |
|--------------|-----------|------|------|------|-----|-------------------|--------------------------|
| PLATE 2P 300 | A         | 300  | 620  | 500  | 28  | 1,05              | W1 14                    |
| PLATE 2P 400 | A         | 400  | 620  | 500  | 35  | 0,79              | W1 14                    |
| PLATE 2P 300 | B         | 300  | 750  | 630  | 34  | 1,43              | W1 25                    |
| PLATE 2P 400 | B         | 400  | 750  | 630  | 43  | 1,08              | W1 25                    |
| PLATE 2P 350 | C         | 350  | 820  | 700  | 48  | 1,99              | W1 45                    |
| PLATE 2P 400 | C         | 400  | 820  | 700  | 53  | 1,74              | W1 45                    |
| PLATE 2P 500 | C         | 500  | 820  | 700  | 63  | 1,40              | W1 45                    |
| PLATE 2P 450 | D + F     | 450  | 1130 | 890  | 110 | 1,68              | W1 60 - W2 62            |
| PLATE 2P 500 | D + F     | 500  | 1130 | 890  | 120 | 1,52              | W1 60 - W2 62            |
| PLATE 2P 600 | D + F     | 600  | 1130 | 890  | 138 | 1,27              | W1 60 - W2 62            |
| PLATE 2P 700 | D + F     | 700  | 1130 | 890  | 156 | 1,09              | W1 60 - W2 62            |
| PLATE 2P 500 | E + G     | 500  | 1230 | 990  | 128 | 2,02              | W1 90 - W2 92            |
| PLATE 2P 600 | E + G     | 600  | 1230 | 990  | 148 | 1,69              | W1 90 - W2 92            |
| PLATE 2P 700 | E + G     | 700  | 1230 | 990  | 167 | 1,45              | W1 90 - W2 92            |
| PLATE 2P 500 | H + I + L | 500  | 1500 | 1270 | 175 | 3,68              | W2 125 - W2 185 - W2 220 |
| PLATE 2P 600 | H + I + L | 600  | 1500 | 1270 | 199 | 3,07              | W2 125 - W2 185 - W2 220 |
| PLATE 2P 700 | H + I + L | 700  | 1500 | 1270 | 224 | 2,64              | W2 125 - W2 185 - W2 220 |



# PLATE 1P - COMPACTION PLATE WITH 1 BEND



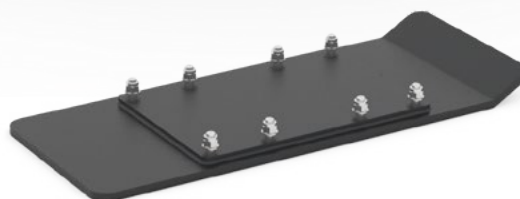
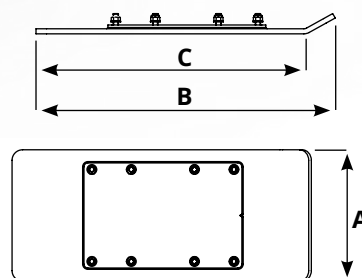
Designed to compact all types of surfaces, such as trenches, soils and slopes.

It ensures a compact, uniform and stable base, built to last over time.

It can compact in very difficult positions and work flush against walls.



PLATE 1P with TOK adapter welded directly onto the plate.



| Model        | #         | A mm | B mm | C mm | Kg. | compaction<br>kg cm2 | Model. PLURY             |
|--------------|-----------|------|------|------|-----|----------------------|--------------------------|
| PLATE 1P 300 | A         | 300  | 620  | 560  | 28  | 0,94                 | W1 14                    |
| PLATE 1P 400 | A         | 400  | 620  | 560  | 35  | 0,71                 | W1 14                    |
| PLATE 1P 300 | B         | 300  | 755  | 690  | 34  | 1,31                 | W1 25                    |
| PLATE 1P 400 | B         | 400  | 755  | 690  | 43  | 1                    | W1 25                    |
| PLATE 1P 350 | C         | 350  | 820  | 760  | 48  | 1,83                 | W1 45                    |
| PLATE 1P 400 | C         | 400  | 820  | 760  | 53  | 1,61                 | W1 45                    |
| PLATE 1P 500 | C         | 500  | 820  | 760  | 63  | 1,29                 | W1 45                    |
| PLATE 1P 450 | D + F     | 450  | 1140 | 1020 | 110 | 1,47                 | W1 60 - W2 62            |
| PLATE 1P 500 | D + F     | 500  | 1140 | 1020 | 120 | 1,32                 | W1 60 - W2 62            |
| PLATE 1P 600 | D + F     | 600  | 1140 | 1020 | 138 | 1,10                 | W1 60 - W2 62            |
| PLATE 1P 700 | D + F     | 700  | 1140 | 1020 | 156 | 0,95                 | W1 60 - W2 62            |
| PLATE 1P 500 | E + G     | 500  | 1240 | 1120 | 128 | 1,79                 | W1 90 - W2 92            |
| PLATE 1P 600 | E + G     | 600  | 1240 | 1120 | 148 | 1,49                 | W1 90 - W2 92            |
| PLATE 1P 700 | E + G     | 700  | 1240 | 1120 | 167 | 1,28                 | W1 90 - W2 92            |
| PLATE 1P 500 | H + I + L | 500  | 1520 | 1400 | 175 | 3,34                 | W2 125 - W2 185 - W2 220 |
| PLATE 1P 600 | H + I + L | 600  | 1520 | 1400 | 199 | 2,79                 | W2 125 - W2 185 - W2 220 |
| PLATE 1P 700 | H + I + L | 700  | 1520 | 1400 | 224 | 2,39                 | W2 125 - W2 185 - W2 220 |



# T-PLATE - NARROW PLATE - SINGLE SLED



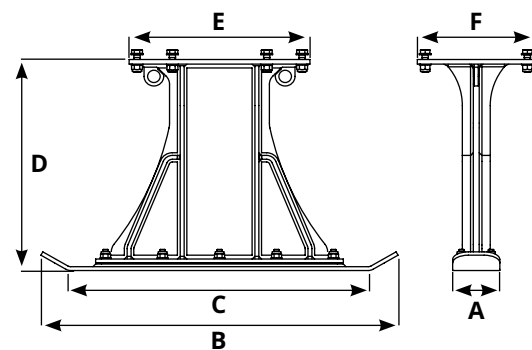
Ideal for compaction work in narrow trenches.

Allows the shoe to reach deep into the trench.

Particularly suitable for laying fibre optic cables and underground utilities.



T-Plate with TOK adapter welded directly onto the plate.



| Cod.       | Model              | #       | A mm | B mm | C mm | D mm | E mm | F mm | Kg. | Model. PLURY                  |
|------------|--------------------|---------|------|------|------|------|------|------|-----|-------------------------------|
| HSR0101001 | <b>T-PLATE 100</b> | A       | 100  | 685  | 570  | 450  | 340  | 230  | 34  | W1 14                         |
| HSR0101002 | <b>T-PLATE 150</b> | A       | 150  | 685  | 570  | 450  | 340  | 230  | 37  | W1 14                         |
| HSR0201001 | <b>T-PLATE 120</b> | B       | 120  | 910  | 755  | 550  | 400  | 240  | 61  | W1 25                         |
| HSR0201002 | <b>T-PLATE 150</b> | B       | 150  | 910  | 755  | 550  | 400  | 240  | 64  | W1 25                         |
| HSR0201003 | <b>T-PLATE 200</b> | B       | 200  | 910  | 755  | 550  | 400  | 240  | 67  | W1 25                         |
| HSR0301001 | <b>T-PLATE 120</b> | C       | 120  | 910  | 755  | 550  | 400  | 240  | 65  | W1 45                         |
| HSR0301002 | <b>T-PLATE 150</b> | C       | 150  | 910  | 755  | 550  | 400  | 240  | 67  | W1 45                         |
| HSR0301003 | <b>T-PLATE 200</b> | C       | 200  | 910  | 755  | 550  | 400  | 240  | 71  | W1 45                         |
| HSR0401001 | <b>T-PLATE 135</b> | D+E+F+G | 135  | 1155 | 985  | 700  | 600  | 400  | 138 | W1 60 - W1 90 - W2 62 - W2 92 |
| HSR0401002 | <b>T-PLATE 200</b> | D+E+F+G | 200  | 1155 | 985  | 700  | 600  | 400  | 145 | W1 60 - W1 90 - W2 62 - W2 92 |
| HSR0501001 | <b>T-PLATE 135</b> | H+I+L   | 135  | 1220 | 1030 | 710  | 820  | 400  | 170 | W2 125 - W2 185 - W2 220      |
| HSR0501002 | <b>T-PLATE 200</b> | H+I+L   | 200  | 1220 | 1030 | 710  | 820  | 400  | 180 | W2 125 - W2 185 - W2 220      |



Ideal for compaction work.

Ideal for compacting the bottom and backfill material inside trenches.

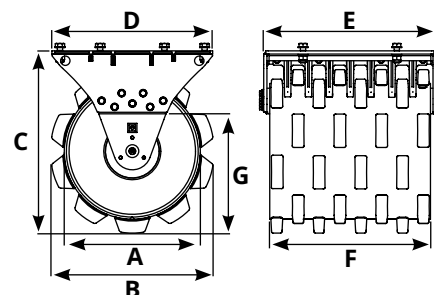
The attachment ensures a solid, uniform and long-lasting base.



STORM with TOK adapter welded directly onto the attachment.



By means of the MACHINE COUPLINGS the STORM can be mounted directly on the machine without drive.



| Cod.       | Model                 | #               | B mm | A mm | C mm | D mm | E mm | F mm | G mm | Kg. | Model. PLURY                              |
|------------|-----------------------|-----------------|------|------|------|------|------|------|------|-----|-------------------------------------------|
| HRC0101001 | <b>STORM 40 L300</b>  | B               | 505  | 400  | 595  | 360  | 360  | 300  | 341  | 140 | W1 25                                     |
| HRC0101003 | <b>STORM 40 L400</b>  | B               | 505  | 400  | 595  | 280  | 460  | 400  | 341  | 165 | W1 25                                     |
| HRC0101004 | <b>STORM 40 L500</b>  | B               | 505  | 400  | 595  | 280  | 560  | 500  | 341  | 191 | W1 25                                     |
| HRC0101001 | <b>STORM 40 L300</b>  | C               | 505  | 400  | 595  | 360  | 360  | 300  | 341  | 140 | W1 45                                     |
| HRC0101003 | <b>STORM 40 L400</b>  | C               | 505  | 400  | 595  | 280  | 460  | 400  | 341  | 165 | W1 45                                     |
| HRC0101004 | <b>STORM 40 L500</b>  | C               | 505  | 400  | 595  | 280  | 560  | 500  | 341  | 191 | W1 45                                     |
| HRC0201003 | <b>STORM 50 L400</b>  | D + F           | 615  | 500  | 700  | 430  | 470  | 400  | 393  | 235 | W1 60 - W2 62                             |
| HRC0201004 | <b>STORM 50 L500</b>  | D + F           | 615  | 500  | 700  | 430  | 570  | 500  | 393  | 272 | W1 60 - W2 62                             |
| HRC0201001 | <b>STORM 50 L600</b>  | D + F           | 615  | 500  | 700  | 430  | 670  | 600  | 393  | 302 | W1 60 - W2 62                             |
| HRC0301003 | <b>STORM 65 L400</b>  | E + G H + I + L | 790  | 650  | 895  | 540  | 485  | 400  | 527  | 363 | W1 90 - W2 92<br>W2 125 - W2 185 - W2 220 |
| HRC0301002 | <b>STORM 65 L600</b>  | E + G H + I + L | 790  | 650  | 895  | 540  | 685  | 600  | 527  | 458 | W1 90 - W2 92<br>W2 125 - W2 185 - W2 220 |
| HRC0301001 | <b>STORM 65 L800</b>  | E + G H + I + L | 790  | 650  | 895  | 540  | 885  | 800  | 527  | 555 | W1 90 - W2 92<br>W2 125 - W2 185 - W2 220 |
| HRC0401003 | <b>STORM 90 L600</b>  | /               | 1045 | 900  | 1170 | 600  | 700  | 600  | 728  | 662 | For direct mounting on excavator          |
| HRC0401002 | <b>STORM 90 L800</b>  | /               | 1045 | 900  | 1170 | 600  | 900  | 800  | 728  | 775 | For direct mounting on excavator          |
| HRC0401001 | <b>STORM 90 L1000</b> | /               | 1045 | 900  | 1170 | 600  | 1100 | 1000 | 728  | 895 | For direct mounting on excavator          |



# ONE WHEEL TOOTHED



Ideal for compaction work in narrow trenches.

Allows the wheel to reach deep into the trench.

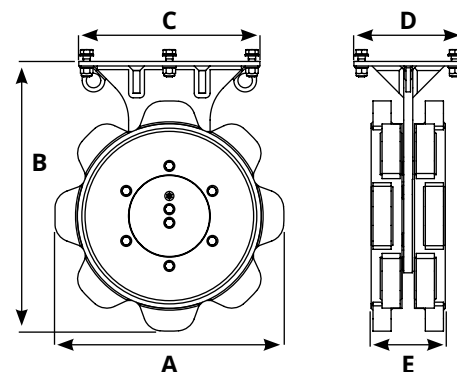
Particularly suitable for laying fibre optic cables and underground utilities.



SINGLE TOOTHED WHEEL with directly welded TOK adapter.



Thanks to the machine couplings, the ONE WHEEL can be mounted directly onto the operating machine without requiring a vibration power unit.



| Model            | #       | A mm | B mm | C mm | D mm | E mm | Kg. | Model. PLURY                   |
|------------------|---------|------|------|------|------|------|-----|--------------------------------|
| ONE WHEEL TO 160 | A       | 505  | 595  | 400  | 240  | 160  | 105 | W1 14                          |
| ONE WHEEL TO 160 | B       | 505  | 595  | 400  | 240  | 160  | 105 | W1 25                          |
| ONE WHEEL TO 160 | C       | 610  | 690  | 460  | 300  | 160  | 135 | W1 45                          |
| ONE WHEEL TO 220 | D+E+F+G | 750  | 860  | 600  | 400  | 220  | 215 | W1 60 - W1 90<br>W2 62 - W2 92 |
| ONE WHEEL TO 270 | D+E+F+G | 750  | 860  | 600  | 400  | 270  | 220 | W1 60 - W1 90<br>W2 62 - W2 92 |
| ONE WHEEL TO 220 | H+I+L   | 850  | 990  | 820  | 400  | 220  | 260 | W2 125 - W2 185 - W2 220       |
| ONE WHEEL TO 270 | H+I+L   | 850  | 990  | 820  | 400  | 270  | 275 | W2 125 - W2 185 - W2 220       |



# ONE WHEEL SMOOTH



Ideal for compaction work in narrow trenches.

Allows the wheel to reach deep into the trench.

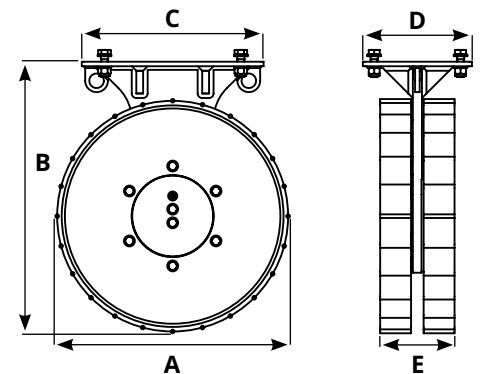
Particularly suitable for laying fibre optic cables and underground utilities.



Single smooth wheel with directly welded TOK adapter.



Thanks to the machine couplings, the ONE WHEEL can be mounted directly onto the operating machine without requiring a vibration power unit.



| Model            | #       | A mm | B mm | C mm | D mm | E mm | Kg. | Model. PLURY                   |
|------------------|---------|------|------|------|------|------|-----|--------------------------------|
| ONE WHEEL SM 160 | A       | 505  | 595  | 400  | 240  | 160  | 93  | W1 14                          |
| ONE WHEEL SM 160 | B       | 505  | 595  | 400  | 240  | 160  | 93  | W1 25                          |
| ONE WHEEL SM 160 | C       | 610  | 690  | 460  | 300  | 160  | 115 | W1 45                          |
| ONE WHEEL SM 220 | D+E+F+G | 710  | 840  | 600  | 400  | 220  | 205 | W1 60 - W1 90<br>W2 62 - W2 92 |
| ONE WHEEL SM 270 | D+E+F+G | 710  | 840  | 600  | 400  | 270  | 215 | W1 60 - W1 90<br>W2 62 - W2 92 |
| ONE WHEEL SM 220 | H+I+L   | 810  | 970  | 820  | 400  | 220  | 250 | W2 125 - W2 185 - W2 220       |
| ONE WHEEL SM 270 | H+I+L   | 810  | 970  | 820  | 400  | 270  | 265 | W2 125 - W2 185 - W2 220       |



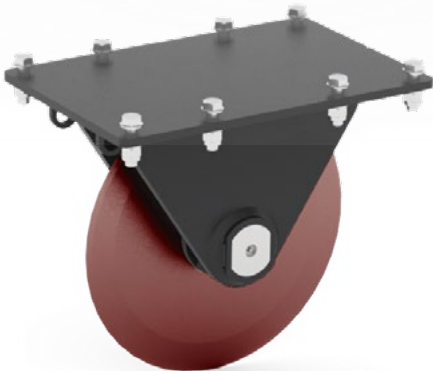
# ASPHALT CUTTER



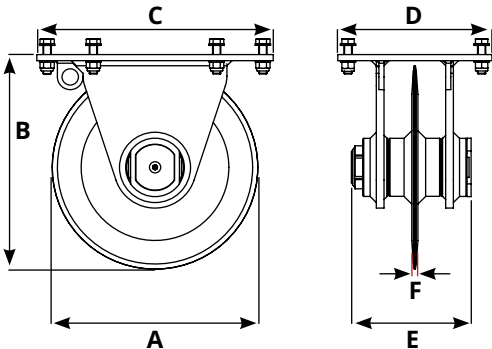
Ideal for cutting asphalt before excavating a trench.



ASPHALT CUTTER with TOK ADAPTER welded directly

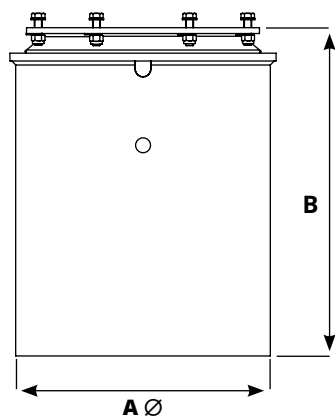


Thanks to the machine couplings, the asphalt cutter can be mounted directly onto the operating machine without requiring a vibration power unit.



| Model          | #              | A mm | B mm | C mm | D mm | E mm | F mm | Kg. | Cut. depth mm | Model. PLURY                                             |
|----------------|----------------|------|------|------|------|------|------|-----|---------------|----------------------------------------------------------|
| ASPHALT CUTTER | A + B          | 400  | 420  | 400  | 240  | 235  | 12   | 50  | 120           | W1 14 - W1 25                                            |
| ASPHALT CUTTER | C              | 400  | 420  | 460  | 300  | 235  | 12   | 53  | 120           | W1 45                                                    |
| ASPHALT CUTTER | D+E+F+ G+H+I+L | 500  | 530  | 600  | 400  | 235  | 12   | 92  | 170           | W1 60 - W2 62<br>W1 90 - W2 92<br>W2 125 - W2 185 W2 220 |





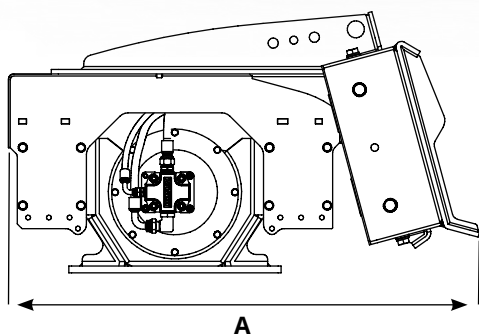
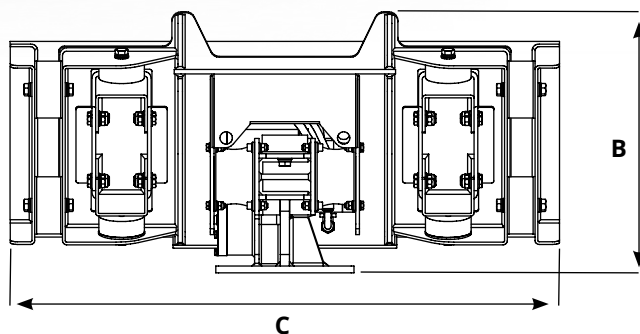
| Model         | #                 | A Ø Internal mm | B mm | Kg. | Model. PLURY                             |
|---------------|-------------------|-----------------|------|-----|------------------------------------------|
| BELL CONCRETE | F + G + H + I + L | 340             | 830  | 90  | W2 62 - W2 92 - W2 125 - W2 185 - W2 220 |
| BELL CONCRETE | F + G + H + I + L | 440             | 830  | 110 | W2 62 - W2 92 - W2 125 - W2 185 - W2 220 |
| BELL CONCRETE | F + G + H + I + L | 540             | 830  | 150 | W2 62 - W2 92 - W2 125 - W2 185 - W2 220 |
| BELL CONCRETE | F + G + H + I + L | 640             | 830  | 185 | W2 62 - W2 92 - W2 125 - W2 185 - W2 220 |
| BELL CONCRETE | F + G + H + I + L | 840             | 830  | 255 | W2 62 - W2 92 - W2 125 - W2 185 - W2 220 |
| BELL CONCRETE | F + G + H + I + L | 1040            | 830  | 355 | W2 62 - W2 92 - W2 125 - W2 185 - W2 220 |



# PLURY FRONT-MOUNTED ATTACHMENT



With the PLURY front coupling, the vibration power unit can be mounted on working machines such as skid loaders and mini skid loader.



| Model                                          | A mm | B mm | C mm | Kg. | Model. PLURY |
|------------------------------------------------|------|------|------|-----|--------------|
| <b>FRONT-MOUNTED ATTACHMENT MINI + PLURY A</b> | 800  | 540  | 810  | 155 | W1 14        |
| <b>FRONT-MOUNTED ATTACHMENT MINI + PLURY B</b> | 885  | 545  | 810  | 180 | W1 25        |
| <b>FRONT-MOUNTED ATTACHMENT + PLURY B</b>      | 970  | 570  | 1190 | 245 | W1 25        |
| <b>FRONT-MOUNTED ATTACHMENT + PLURY C</b>      | 1020 | 570  | 1190 | 280 | W1 45        |
| <b>FRONT-MOUNTED ATTACHMENT + PLURY D</b>      | 1170 | 680  | 1190 | 445 | W1 60        |
| <b>FRONT-MOUNTED ATTACHMENT + PLURY F</b>      | 1270 | 680  | 1190 | 445 | W2 62        |



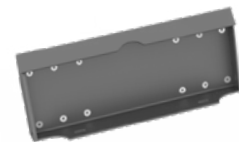
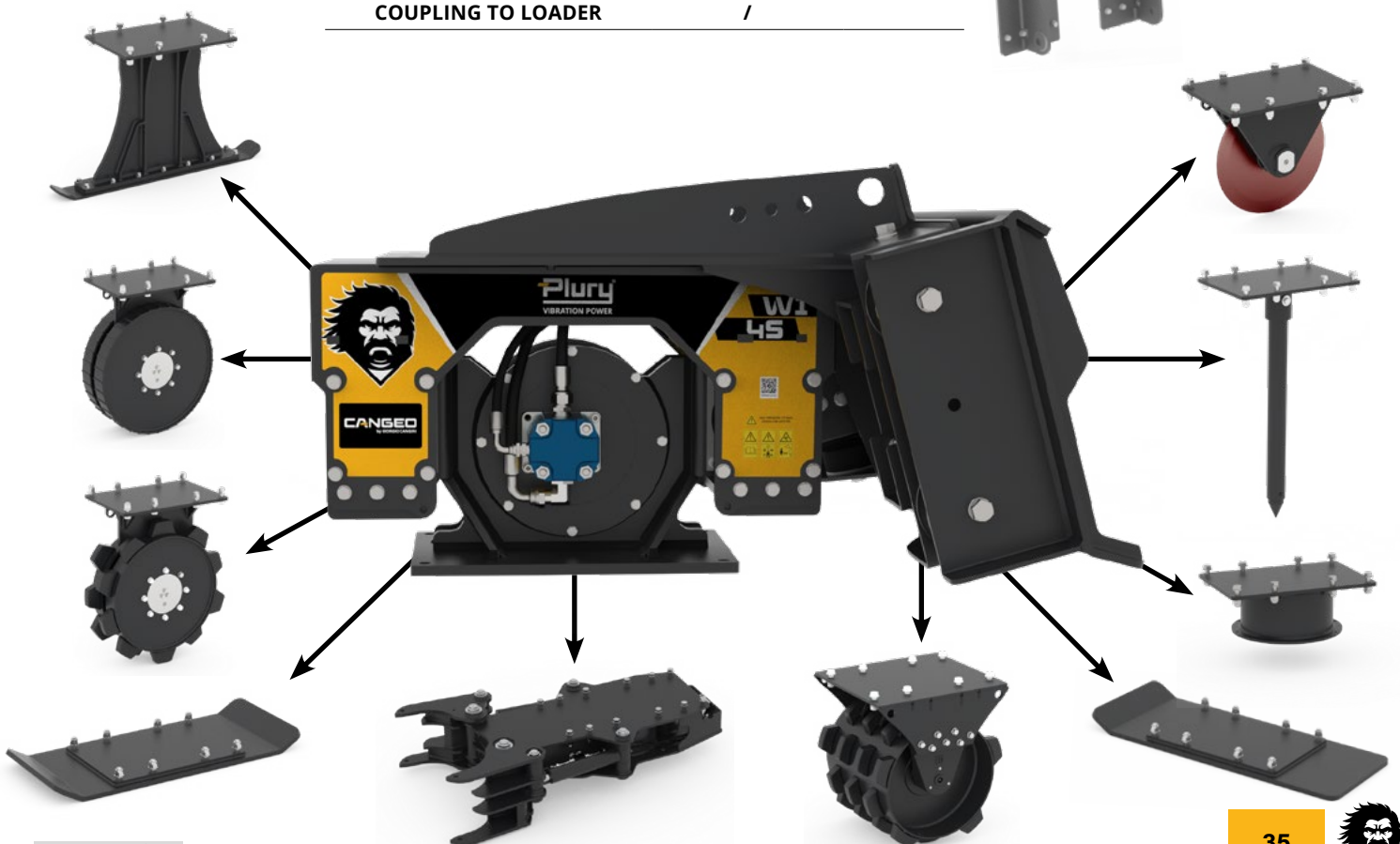


Shock-absorbing mounts reduce the vibrations transmitted to the carrier machine.

| Model                                        | Kg. |
|----------------------------------------------|-----|
| FRONT-MOUNTED<br>ATTACHMENT MINI SKID LOADER | 13  |

| Model                                   | Kg. |
|-----------------------------------------|-----|
| FRONT-MOUNTED<br>ATTACHMENT SKID LOADER | 29  |

| Model              | Kg. |
|--------------------|-----|
| COUPLING TO LOADER | /   |



# MultyPlate

## ***VIBRATORY PLATE COMPACTOR***



**THE DOUBLE PLATE  
IS YOUR ALLY FOR  
EFFECTIVE, UNIFORM COMPACTION.**

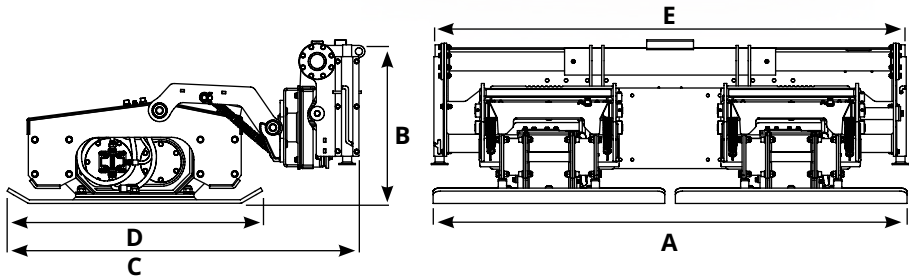
# VIBRATING PLATES

with independent  
couplings for better  
ground adaptation

- **DOUBLE COMPACTOR PLATE**  
Wide working surface  
for increased productivity
- **VERSATILE**  
Compatible with wheel loaders,  
compact loaders and skid loaders
- **FOR DIFFERENT MATERIALS**  
Ideal for gravel, soil,  
granular mixes and backfill
- **HIGH VIBRATION FREQUENCY**  
Deep and uniform compaction  
in fewer passes
- **ROBUST AND RELIABLE**  
Compact structure  
designed to last
- **FAST MAINTENANCE**  
Accessible components  
for simplified management

# Premium Line





| MULTYPLATE                         | 2MPT 160     |       | 2MPT 180     |       | 2MPT 200     |       |
|------------------------------------|--------------|-------|--------------|-------|--------------|-------|
| A (mm)                             | 1600         |       | 1800         |       | 2000         |       |
| B (mm)                             | 670          |       | 670          |       | 670          |       |
| C (mm)                             | 1490         |       | 1490         |       | 1490         |       |
| D (mm)                             | 1080         |       | 1080         |       | 1080         |       |
| E (mm)                             | 2000         |       | 2000         |       | 2000         |       |
| Side-shift range                   | + / - 500 mm |       | + / - 500 mm |       | + / - 500 mm |       |
| Weight (Kg)                        | 1060         |       | 1085         |       | 1110         |       |
| Engine (CC)                        | 26           |       | 26           |       | 26           |       |
| Hydraulic Fluid Flow Rate (L/Min') | 65           | 78    | 65           | 78    | 65           | 78    |
| Rev/min' (RPM)                     | 2.500        | 3.000 | 2.500        | 3.000 | 2.500        | 3.000 |
| Vibration frequency (Hertz)        | 42           | 50    | 42           | 50    | 42           | 50    |
| Centrifugal force (kN)             | 50           | 70    | 50           | 70    | 50           | 70    |
| Pressure Max (BAR)                 | 250          |       | 250          |       | 250          |       |
| Back pressure Max (BAR)            | 15           |       | 15           |       | 15           |       |



| Model                                   | Kg. |
|-----------------------------------------|-----|
| FRONT-MOUNTED<br>ATTACHMENT SKID LOADER | 29  |



| Model              | Kg. |
|--------------------|-----|
| COUPLING TO LOADER | /   |

\* Electrical kit and 2-hose kit included with Multyplate with Side Shift

The data provided should be considered indicative and should be compared with the capacity of the operating machine on which the equipment is used

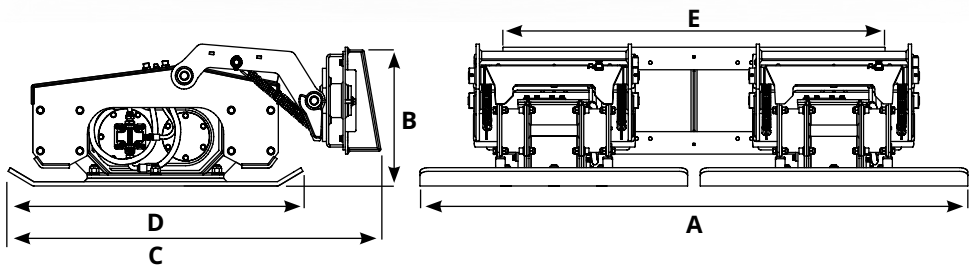


# MultyPlate

## VIBRATORY PLATE COMPACTOR



### FIXED MULTYPLATE



| MULTYPLATE                         | 2MPF 160 |       | 2MPF 180 |       | 2MPF 200 |       |
|------------------------------------|----------|-------|----------|-------|----------|-------|
| A (mm)                             | 1600     |       | 1800     |       | 2000     |       |
| B (mm)                             | 500      |       | 500      |       | 500      |       |
| C (mm)                             | 1370     |       | 1370     |       | 1370     |       |
| D (mm)                             | 1080     |       | 1080     |       | 1080     |       |
| E (mm)                             | 1400     |       | 1400     |       | 1400     |       |
| Weight (Kg)                        | 920      |       | 950      |       | 980      |       |
| Engine (CC)                        | 26       |       | 26       |       | 26       |       |
| Hydraulic Fluid Flow Rate (L/Min') | 65       | 78    | 65       | 78    | 65       | 78    |
| Rev/min' (RPM)                     | 2.500    | 3.000 | 2.500    | 3.000 | 2.500    | 3.000 |
| Vibration frequency (Hertz)        | 42       | 50    | 42       | 50    | 42       | 50    |
| Centrifugal force (kN)             | 50       | 70    | 50       | 70    | 50       | 70    |
| Pressure Max (BAR)                 | 250      |       | 250      |       | 250      |       |
| Back pressure Max (BAR)            | 15       |       | 15       |       | 15       |       |



| Model                                   | Kg. |
|-----------------------------------------|-----|
| FRONT-MOUNTED<br>ATTACHMENT SKID LOADER | 29  |



| Model              | Kg. |
|--------------------|-----|
| COUPLING TO LOADER | /   |



made by GIORGIO CANGINI

# Roller

***VIBRATORY ROLLER COMPACTOR***



**THE VIBRATORY ROLLER  
THAT EXCEEDS EVERY  
EXPECTATION **ON SITE.****

# FOR FAST AND EFFECTIVE COMPACTION.

## **REINFORCED HIGH-RESISTANCE STRUCTURE**

Designed to withstand heavy mechanical stress, reducing wear, downtime and maintenance costs.

## **HIGH PRODUCTIVITY EVEN ON DIFFICULT TERRAIN**

Ensures uniform shredding and consistent performance even in demanding operating conditions.

## **IDEAL FOR PUBLIC GREEN AREAS, LAND CLEARING AND FORESTRY WORK**

A versatile solution for routine maintenance, green area management and operations in dense vegetation.

# Premium Line



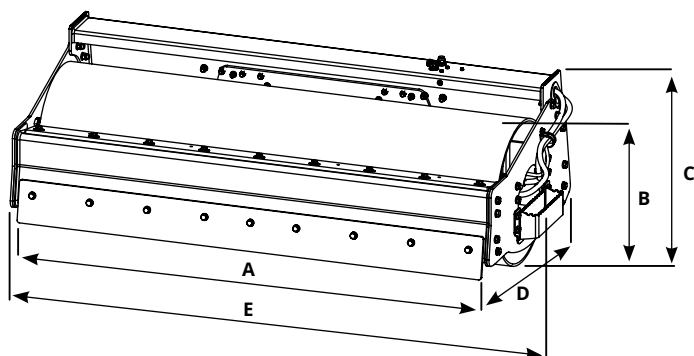
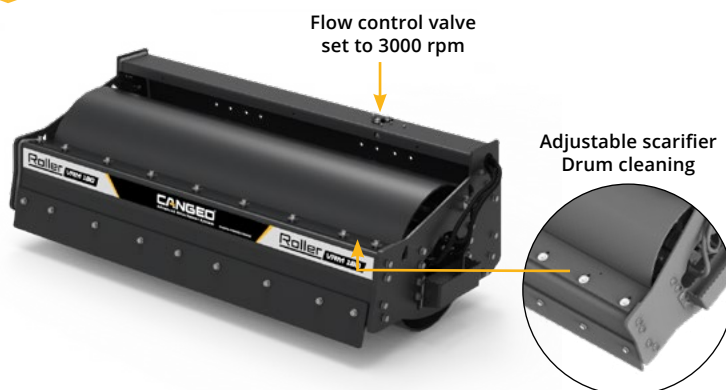
# Roller

## VIBRATORY ROLLER COMPACTOR



## SMOOTH DRUM ROLLER

High-performance vibrating roller used to compact materials such as asphalt, soil, gravel and crushed stone, which form the base layer of the road surface.



| ROLLER VRM                         | VRM 120   |      |      | VRM 140   |      |      | VRM 160   |      |      | VRM 180   |      |      | VRM 200   |      |      |
|------------------------------------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|
| A (mm)                             | 1200      |      |      | 1400      |      |      | 1600      |      |      | 1800      |      |      | 2000      |      |      |
| B (mm)                             | 560       |      |      | 560       |      |      | 610       |      |      | 610       |      |      | 610       |      |      |
| C (mm)                             | 605       |      |      | 605       |      |      | 700       |      |      | 700       |      |      | 700       |      |      |
| D (mm)                             | 860       |      |      | 860       |      |      | 970       |      |      | 970       |      |      | 970       |      |      |
| E (mm)                             | 1422      |      |      | 1622      |      |      | 1785      |      |      | 1985      |      |      | 2185      |      |      |
| Without coupling weight Kg         | 420       |      |      | 460       |      |      | 750       |      |      | 810       |      |      | 880       |      |      |
| Pressure MIN. / MAX. (BAR)         | 180 / 220 |      |      | 180 / 220 |      |      | 180 / 220 |      |      | 180 / 220 |      |      | 180 / 220 |      |      |
| Engine (CC)                        | 11        |      |      | 11        |      |      | 17        |      |      | 17        |      |      | 17        |      |      |
| Hydraulic Fluid Flow Rate (L/Min') | 24        | 27   | 33   | 24        | 27   | 33   | 37        | 43   | 51   | 37        | 43   | 51   | 37        | 43   | 51   |
| Rev/min (RPM)                      | 2200      | 2500 | 3000 | 2200      | 2500 | 3000 | 2200      | 2500 | 3000 | 2200      | 2500 | 3000 | 2200      | 2500 | 3000 |
| Vibration frequency (HERTZ)        | 37        | 42   | 50   | 37        | 42   | 50   | 37        | 42   | 50   | 37        | 42   | 50   | 37        | 42   | 50   |
| Centrifugal force (kN)             | 7         | 9    | 12   | 9         | 11   | 15   | 10        | 13   | 18   | 10        | 13   | 18   | 14        | 17   | 24   |



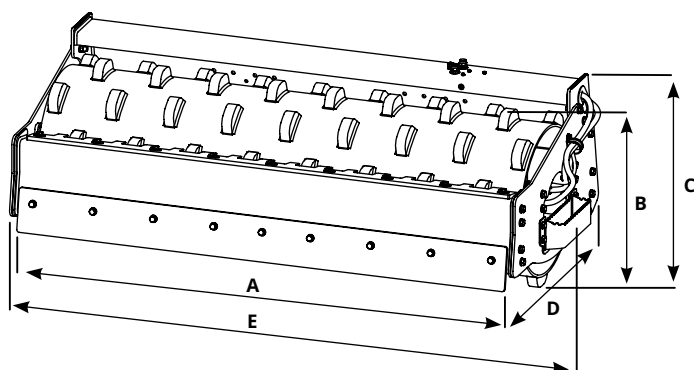
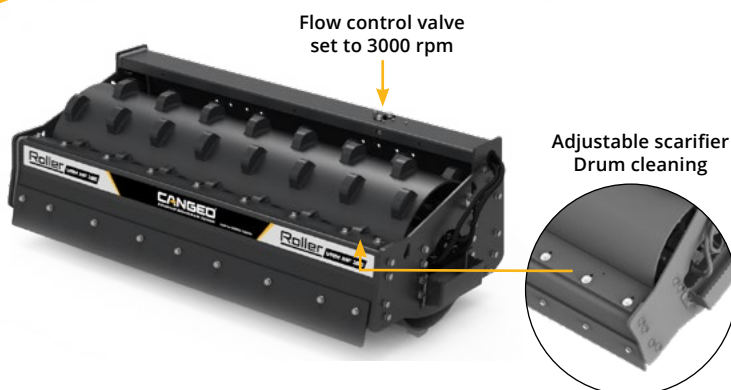
# Roller

## VIBRATORY ROLLER COMPACTOR



## PADFOOT DRUM ROLLER

High-performance vibrating roller particularly suitable for compacting backfill materials and for the construction of unpaved roads.



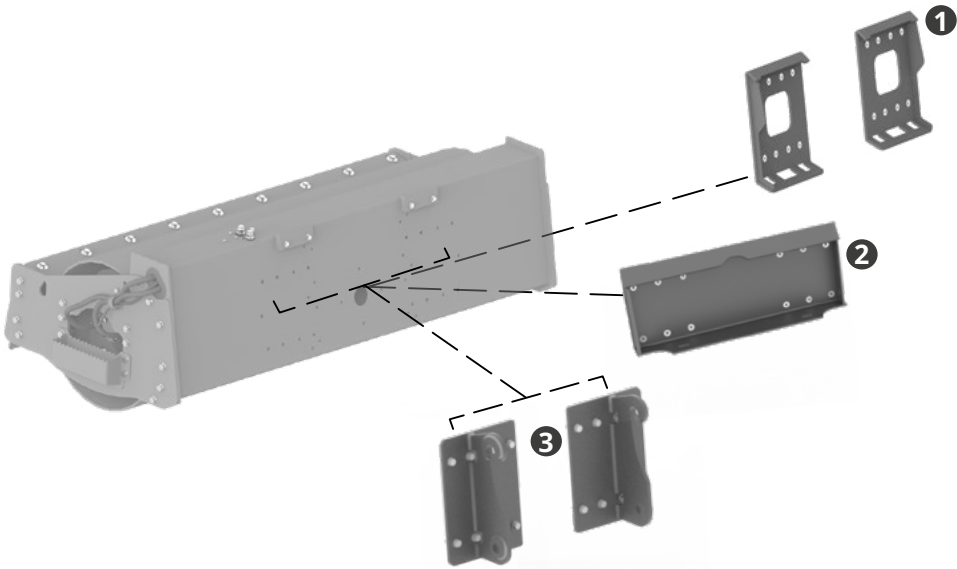
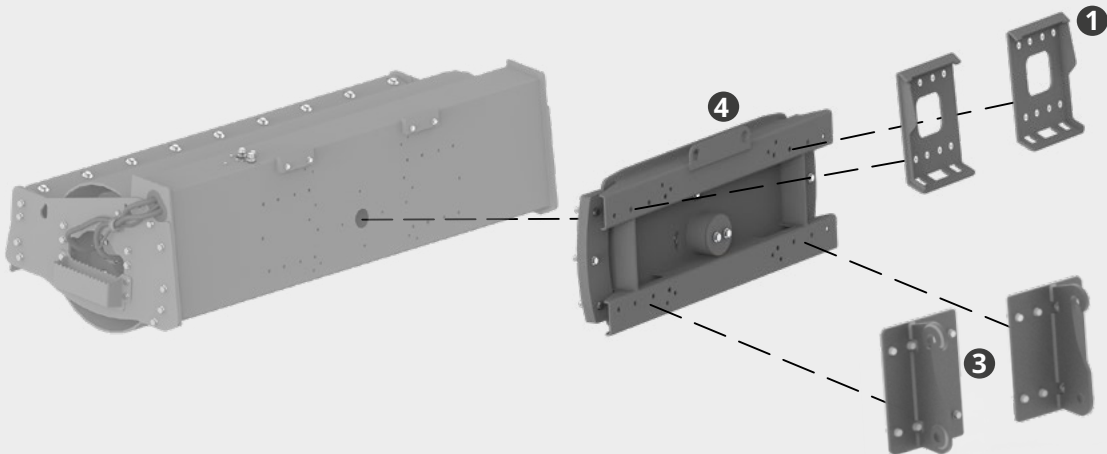
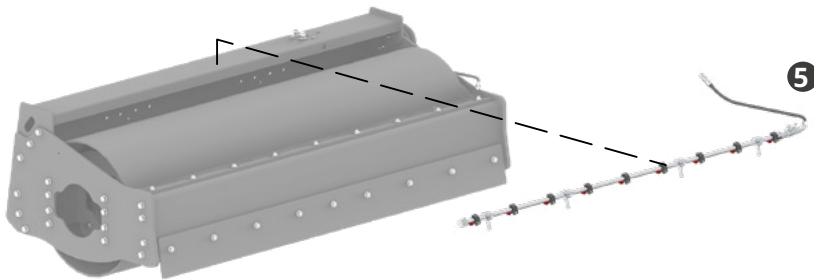
| MODEL                              | VRM MF 160 |      |      | VRM MF 180 |      |      | VRM MF 200 |      |      |
|------------------------------------|------------|------|------|------------|------|------|------------|------|------|
| A (mm)                             | 1600       |      |      | 1800       |      |      | 2000       |      |      |
| B (mm)                             | 750        |      |      | 750        |      |      | 750        |      |      |
| C (mm)                             | 700        |      |      | 700        |      |      | 700        |      |      |
| D (mm)                             | 970        |      |      | 970        |      |      | 970        |      |      |
| E (mm)                             | 1785       |      |      | 1985       |      |      | 2185       |      |      |
| Without coupling weight Kg         | 870        |      |      | 950        |      |      | 1035       |      |      |
| Teeth number                       | 65         |      |      | 75         |      |      | 85         |      |      |
| Pressure MIN. / MAX. (BAR)         | 180 / 220  |      |      | 180 / 220  |      |      | 180 / 220  |      |      |
| Engine (CC)                        | 17         |      |      | 17         |      |      | 17         |      |      |
| Hydraulic Fluid Flow Rate (L/Min*) | 37         | 43   | 51   | 37         | 43   | 51   | 37         | 43   | 51   |
| Rev/min (RPM)                      | 2200       | 2500 | 3000 | 2200       | 2500 | 3000 | 2200       | 2500 | 3000 |
| Vibration frequency (HERTZ)        | 37         | 42   | 50   | 37         | 42   | 50   | 37         | 42   | 50   |
| Centrifugal force (kN)             | 10         | 13   | 18   | 10         | 13   | 18   | 14         | 17   | 24   |





OPT ROLLER

OPTIONAL ROLLER VRM / VRM MF



|   | Model                                     | Weight Kg | Model. ROLLER                                |
|---|-------------------------------------------|-----------|----------------------------------------------|
| 1 | FRONT-MOUNTED ATTACHMENT SKID LOADER      | 29        | VRM 120                                      |
| 2 | FRONT-MOUNTED ATTACHMENT MINI SKID LOADER | 13        | VRM 120 - VRM 140 - VRM160 - VRM180 - VRM200 |
| 3 | WHEEL LOADER ATTACHMENT                   | 31        | VRM 120 - VRM 140 - VRM160 - VRM180 - VRM200 |
| 4 | OPTIONAL FLOATING MOUNT +7° / -7°         | 115       | VRM160 - VRM180 - VRM200                     |
| 5 | SPRAY NOZZLE BAR KIT                      | /         | VRM 120 - VRM 140 - VRM160 - VRM180 - VRM200 |





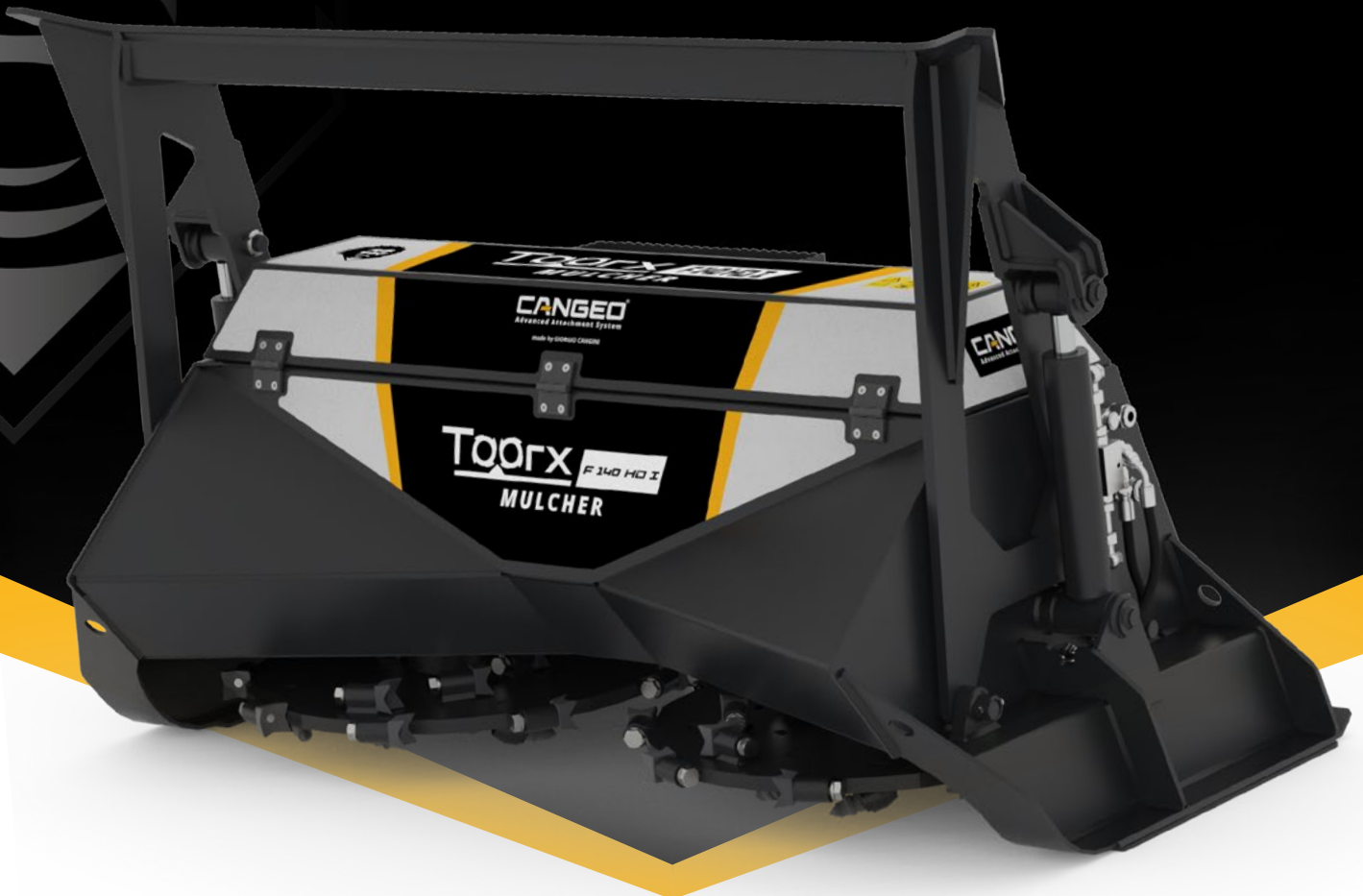
**CANGEO**<sup>®</sup>  
Advanced Attachment System



made by GIORGIO CANGINI

# TOORX

## ***MULCHER***



THE INNOVATIVE **MULCHER**  
THAT MEETS YOUR  
**PROFESSIONAL NEEDS.**

# IDEAL FOR GREEN MAINTENANCE, LAND CLEARING AND FORESTRY WORK.

**REINFORCED HIGH-STRENGTH STRUCTURE**  
Designed to withstand heavy mechanical stress, reducing wear, machine downtime and maintenance costs.

**HIGH PRODUCTIVITY EVEN ON DIFFICULT TERRAIN**  
Ensures uniform shredding and consistent performance even in demanding operating conditions.

**IDEAL FOR PUBLIC GREEN AREAS, LAND CLEARING AND FORESTRY WORK**  
A versatile solution for routine maintenance, green area management and operations on dense vegetation.

**DIRECT DRIVE**

**PISTON MOTOR**

**ANTI-CAVITATION SYSTEM**

# Premium Line

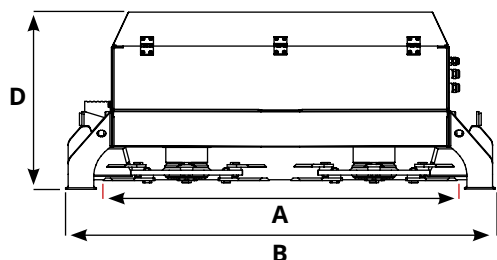
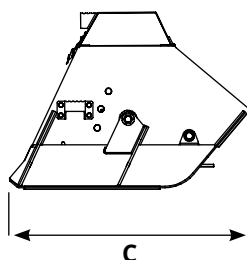
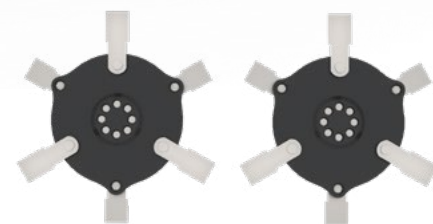


# TOORX

## MULCHER



### GRASS DISC MULCHER



#### GRASS DISC

The twin disc with forged steel cutting edges is designed for efficient cutting of grass, brambles, brushwood and small shrubs up to 4 cm in diameter.

#### TOORX KNIFE MULCHER

#### TOORX F 140

#### TOORX F 140

#### TOORX F 140

| TOORX<br>KNIFE MULCHER             | TOORX F 140 | TOORX F 140 | TOORX F 140 |
|------------------------------------|-------------|-------------|-------------|
| A (mm)                             | 1400        | 1400        | 1400        |
| B (mm)                             | 1670        | 1670        | 1670        |
| C (mm)                             | 940         | 940         | 940         |
| D (mm)                             | 690         | 690         | 690         |
| Weight (Kg)                        | 430         | 440         | 440         |
| Engine (CC)                        | 32          | 45          | 63          |
| Hydraulic Fluid Flow Rate (L/Min') | 58          | 81          | 113         |
| Rev/min' (RPM)                     | 1800        | 1800        | 1800        |
| Pressure Max (BAR)                 | 350         | 350         | 350         |
| Back pressure Max (BAR)            | 15          | 15          | 15          |

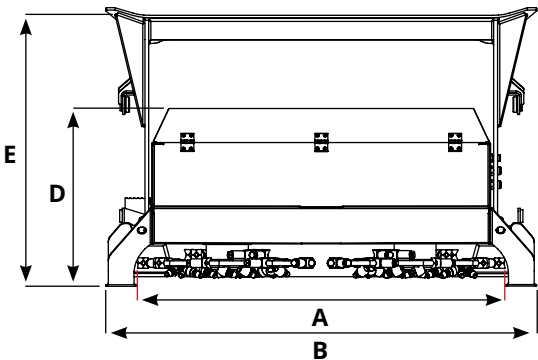
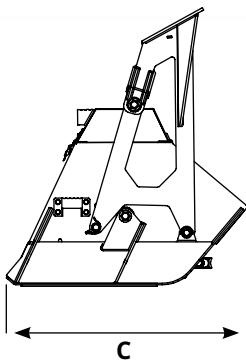


# TOORX

## MULCHER



### FORESTRY DISC MULCHER WITH MECHANICAL BRANCH CUTTER



#### FORESTRY DISC

The twin disc with high-strength, wear-resistant steel cutting edges is designed to handle shrubs and woody vegetation up to 15 cm in diameter.

| TOORX<br>FIXED-TOOTH FORESTRY MULCHER | TOORX F 140 HD | TOORX F 140 HD |
|---------------------------------------|----------------|----------------|
| A (mm)                                | 1420           | 1420           |
| B (mm)                                | 1670           | 1670           |
| C (mm)                                | 940            | 940            |
| D (mm)                                | 690            | 690            |
| E (mm)                                | 1050           | 1050           |
| Weight (Kg)                           | 575            | 575            |
| Engine (CC)                           | 45             | 63             |
| Hydraulic Fluid Flow Rate (L/Min')    | 81             | 113            |
| Rev/min' (RPM)                        | 1800           | 1800           |
| Pressure Max (BAR)                    | 350            | 350            |
| Back pressure Max (BAR)               | 15             | 15             |

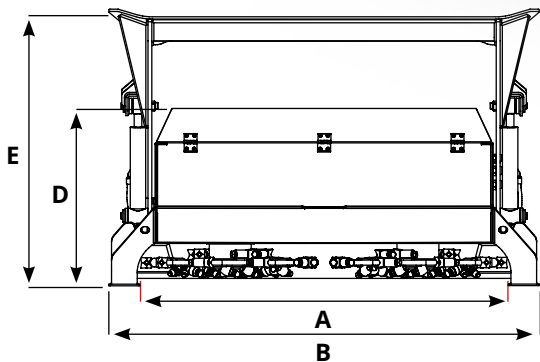
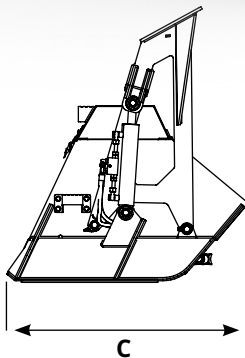


# TOORX

## MULCHER



### FORESTRY DISC MULCHER WITH HYDRAULIC BRANCH CUTTER



#### FORESTRY DISC

The twin disc with high-strength, wear resistant steel cutting edges is designed to handle shrubs and woody vegetation up to 15 cm in diameter.

| TOORX<br>FIXED-TOOTH FORESTRY MULCHER | TOORX F 140 HD I | TOORX F 140 HD I |
|---------------------------------------|------------------|------------------|
| A (mm)                                | 1420             | 1420             |
| B (mm)                                | 1670             | 1670             |
| C (mm)                                | 940              | 940              |
| D (mm)                                | 690              | 690              |
| E (mm)                                | 1050             | 1050             |
| Weight (Kg)                           | 575              | 575              |
| Engine (CC)                           | 45               | 63               |
| Hydraulic Fluid Flow Rate (L/Min')    | 81               | 113              |
| Rev/min' (RPM)                        | 1800             | 1800             |
| Pressure Max (BAR)                    | 350              | 350              |
| Back pressure Max (BAR)               | 15               | 15               |



\* Electrical kit and 2-hose kit included  
with Toorx equipped with hydraulic branch cutter

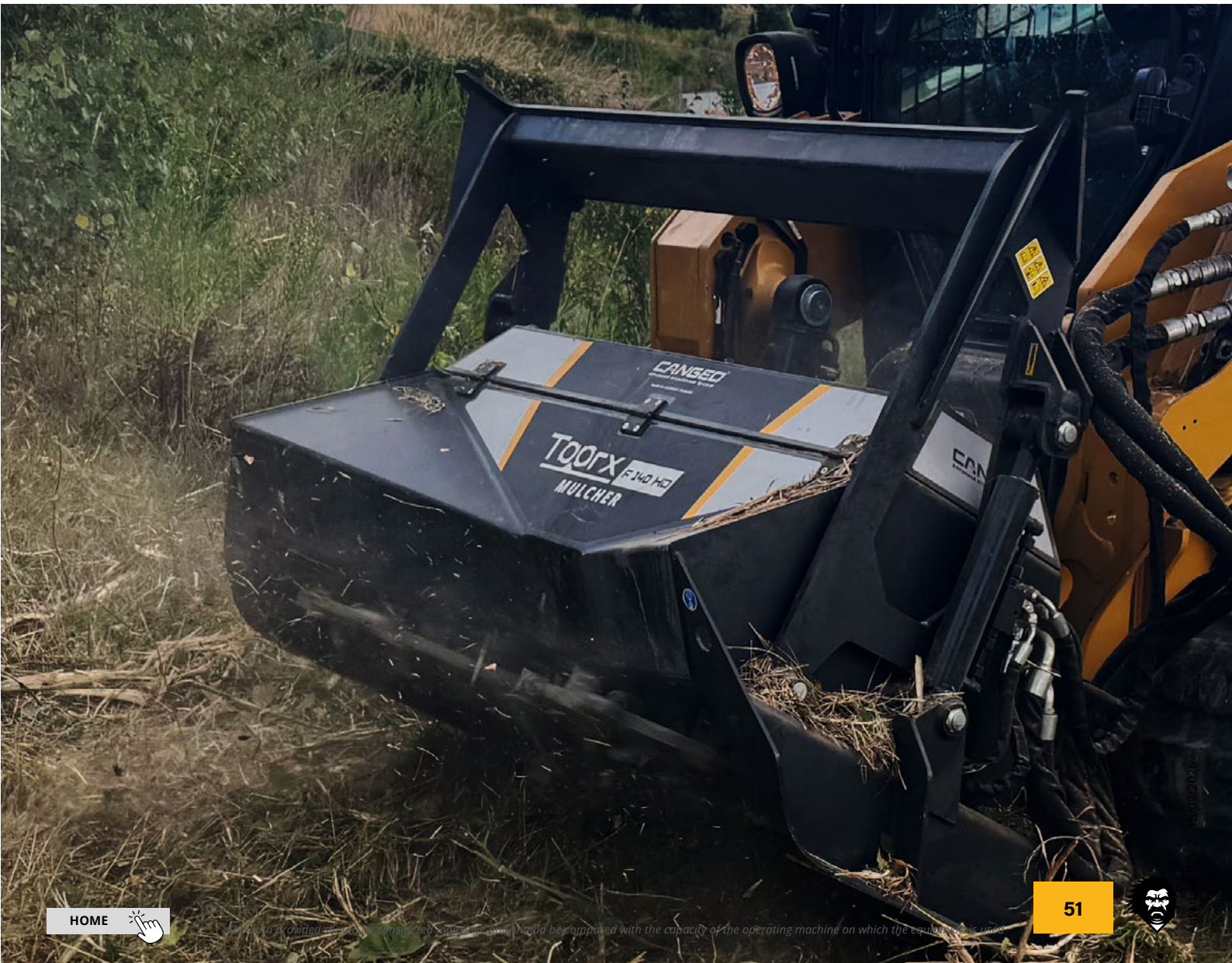


# OPT TOORX

OPTIONAL ROLLER VRM / VRM MF



|   | Model                                | Weight Kg |
|---|--------------------------------------|-----------|
| 1 | FRONT-MOUNTED ATTACHMENT SKID LOADER | 29        |
| 2 | COUPLING TO LOADER                   | 31        |

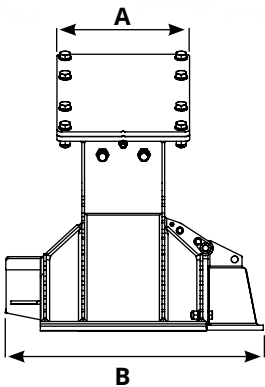
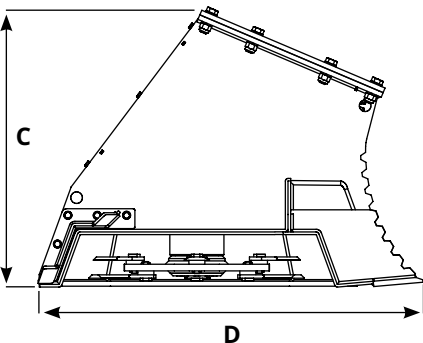


# TOORX

## MULCHER



### GRASS DISC MULCHER



#### GRASS DISC

The twin disc with forged steel cutting edges is designed for efficient cutting of grass, brambles, brushwood and small shrubs up to 4 cm in diameter.

| TOORX<br>KNIFE MULCHER             | TOORX 70 HD<br>TONS 8.0 - 14.0 | TOORX 70 HD<br>TONS 8.0 - 14.0 | TOORX 70 HD<br>TONS 8.0 - 14.0 |
|------------------------------------|--------------------------------|--------------------------------|--------------------------------|
| A (mm)                             | 400                            | 400                            | 400                            |
| B (mm)                             | 775                            | 775                            | 775                            |
| C (mm)                             | 834                            | 834                            | 834                            |
| D (mm)                             | 1175                           | 1175                           | 1175                           |
| Weight (Kg)                        | 304                            | 304                            | 304                            |
| Engine (CC)                        | 32                             | 45                             | 63                             |
| Hydraulic Fluid Flow Rate (L/Min') | 58                             | 81                             | 113                            |
| Rev/min' (RPM)                     | 1800                           | 1800                           | 1800                           |
| Pressure Max (BAR)                 | 350                            | 350                            | 350                            |
| Back pressure Max (BAR)            | 15                             | 15                             | 15                             |

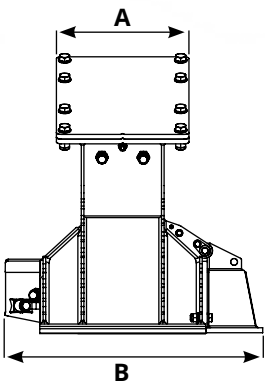
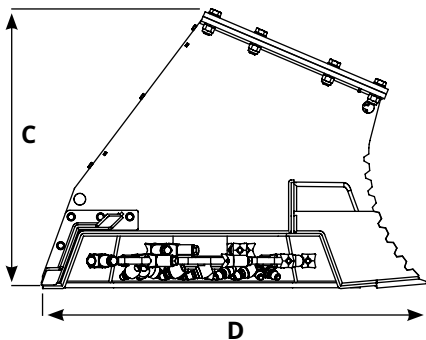


# TOORX

## MULCHER



### FORESTRY DISC MULCHER



#### FORESTRY DISC

The twin disc with high-strength, wear-resistant steel cutting edges is designed to handle shrubs and woody vegetation up to 15 cm in diameter.

| TOORX<br>FIXED-TOOTH FORESTRY MULCHER | TOORX 70 HD<br>TONS 8.0 - 14.0 | TOORX 70 HD<br>TONS 8.0 - 14.0 | TOORX 70 HD<br>TONS 8.0 - 14.0 |
|---------------------------------------|--------------------------------|--------------------------------|--------------------------------|
| A (mm)                                | 400                            | 400                            | 400                            |
| B (mm)                                | 775                            | 775                            | 775                            |
| C (mm)                                | 834                            | 834                            | 834                            |
| D (mm)                                | 1175                           | 1175                           | 1175                           |
| Weight (Kg)                           | 323                            | 323                            | 323                            |
| Engine (CC)                           | 32                             | 45                             | 63                             |
| Hydraulic Fluid Flow Rate (L/Min')    | 58                             | 81                             | 113                            |
| Rev/min' (RPM)                        | 1800                           | 1800                           | 1800                           |
| Pressure Max (BAR)                    | 350                            | 350                            | 350                            |
| Back pressure Max (BAR)               | 15                             | 15                             | 15                             |



**CANGEO**<sup>®</sup>  
Advanced Attachment System



made by GIORGIO CANGINI

# Tornado



THE PROFESSIONAL **STUMP GRINDER**  
FOR YOUR INTENSIVE **WORK.**

# COMPLETELY REMOVES THE STUMP, LEAVING THE AREA IMMEDIATELY READY FOR RESTORATION.

## POWERFUL AND PRECISE REMOVAL DESIGNED TO REMOVE STUMPS AND

Roots quickly and with full control, ensuring consistent performance even on difficult terrain.

## MAXIMUM APPLICATION VERSATILITY

Compatible with excavators, wheel loaders, backhoe loaders, skid loaders and mini skid loaders, with front or rear mounting configuration.

## INTEGRATED BUCKET FOR GROUND RESTORATION

After stump grinding, it allows the area to be levelled and immediately prepared for the next operation.

## DIRECT TRANSMISSION

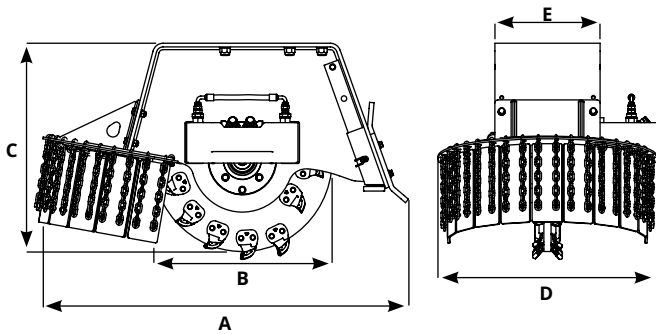
The direct drive system with piston motor delivers the highest cutting speed and thus optimal productivity and efficiency

## SUITABLE ON DIFFICULT GRADIENTS

Effective even on difficult gradients, ideal for grinding even stumps with problematical access

# Premium Line



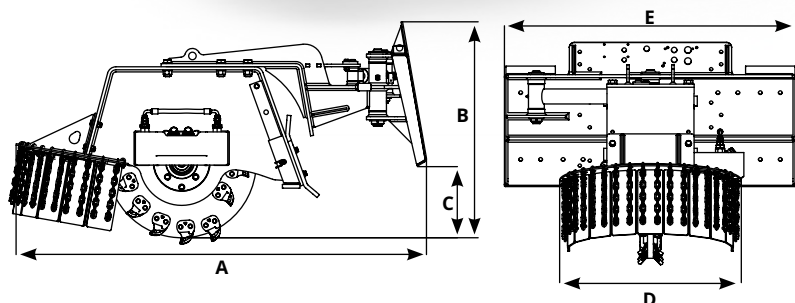


TORNADO DRAINAGE KIT BACKPRESSURE MAX 15 BAR

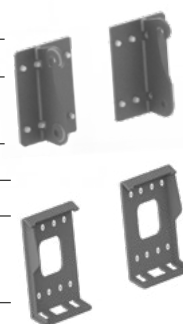
| Model                                 | Kg.  |
|---------------------------------------|------|
| ADAPTER FOR QUICK COUPLING for 350    | /    |
| ADAPTER FOR QUICK COUPLING for 450    | /    |
| ADAPTER FOR QUICK COUPLING for 600    | /    |
| FIXED COUPLING MACHINE for 350        | /    |
| FIXED COUPLING MACHINE for 450        | /    |
| FIXED COUPLING MACHINE for 600        | /    |
| BOLTED PLATE MACHINE COUPLING for 350 | 13   |
| BOLTED PLATE MACHINE COUPLING for 450 | 17   |
| BOLTED PLATE MACHINE COUPLING for 600 | 16.5 |

| TORNADO 2                          | Tornado 2 350 |      | Tornado 2 350 PLUS |      | Tornado 2 450 |      | Tornado 2 450 PLUS |      | Tornado 2 600 |      | Tornado 2 600 PLUS |  |
|------------------------------------|---------------|------|--------------------|------|---------------|------|--------------------|------|---------------|------|--------------------|--|
| TONS                               | 1.5 - 3.0     |      | 2.5 - 4.5          |      | 4.0 - 6.5     |      | 6.0 - 9.0          |      | 9.0 - 13.0    |      | 13.0 - 18.0        |  |
| A (mm)                             | 830           |      | 830                |      | 970           |      | 970                |      | 1230          |      | 1230               |  |
| B (Ømm)                            | 350           |      | 350                |      | 450           |      | 450                |      | 600           |      | 600                |  |
| C (mm)                             | 430           |      | 430                |      | 540           |      | 540                |      | 710           |      | 710                |  |
| D (mm)                             | 610           |      | 610                |      | 610           |      | 610                |      | 730           |      | 730                |  |
| E (mm)                             | 350           |      | 350                |      | 350           |      | 350                |      | 350           |      | 350                |  |
| Weight (Kg)                        | 116           |      | 120                |      | 170           |      | 173                |      | 278           |      | 280                |  |
| Teeth number                       | 16            |      | 16                 |      | 20            |      | 20                 |      | 28            |      | 28                 |  |
| Pressure (BAR)                     | 250           |      | 250                |      | 250           |      | 250                |      | 250           |      | 250                |  |
| Back pressure Max (BAR)            | 15            |      | 15                 |      | 15            |      | 15                 |      | 15            |      | 15                 |  |
| Engine (CC)                        | 12            | 18   | 25                 | 32   | 25            | 32   | 45                 | 63   | 45            | 63   | 80                 |  |
| Hydraulic Fluid Flow Rate (L/Min') | 16            | 24   | 32                 | 42   | 32            | 42   | 56                 | 80   | 56            | 80   | 110                |  |
| Rev/min (RPM)                      | 1330          | 1330 | 1280               | 1315 | 1280          | 1315 | 1300               | 1300 | 1290          | 1300 | 1375               |  |

## SWINGING FRONT STUMP GRINDER FOR SKID LOADER AND WHEEL LOADER



| Model                                | Kg. |
|--------------------------------------|-----|
| COUPLING TO LOADER                   | /   |
| Model                                | Kg. |
| FRONT-MOUNTED ATTACHMENT SKID LOADER | 29  |



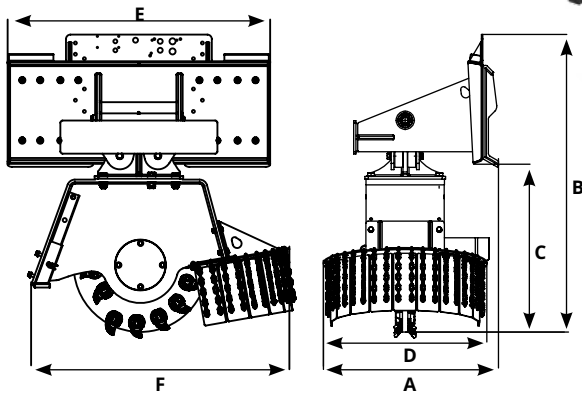
| TORNADO 2                          | Tornado 2F 350 |      | Tornado 2F 350 PLUS |      | Tornado 2F 450 |      | Tornado 2F 450 PLUS |      | Tornado 2F 600 |      | Tornado 2F 600 PLUS |
|------------------------------------|----------------|------|---------------------|------|----------------|------|---------------------|------|----------------|------|---------------------|
| A (mm)                             | 1435           |      | 1435                |      | 1490           |      | 1490                |      | 1650           |      | 1650                |
| B (Ømm)                            | 595            |      | 595                 |      | 695            |      | 695                 |      | 860            |      | 860                 |
| C (mm)                             | 20             |      | 20                  |      | 120            |      | 120                 |      | 285            |      | 285                 |
| D (mm)                             | 610            |      | 610                 |      | 610            |      | 610                 |      | 730            |      | 730                 |
| E (mm)                             | 1170           |      | 1170                |      | 1170           |      | 1170                |      | 1170           |      | 1170                |
| Weight (Kg)                        | 231            |      | 235                 |      | 285            |      | 288                 |      | 393            |      | 395                 |
| Teeth number                       | 16             |      | 16                  |      | 20             |      | 20                  |      | 28             |      | 28                  |
| Pressure (BAR)                     | 250            |      | 250                 |      | 250            |      | 250                 |      | 250            |      | 250                 |
| Back pressure Max (BAR)            | 15             |      | 15                  |      | 15             |      | 15                  |      | 15             |      | 15                  |
| Engine (CC)                        | 12             | 18   | 25                  | 32   | 25             | 32   | 45                  | 63   | 45             | 63   | 80                  |
| Hydraulic Fluid Flow Rate (L/Min') | 16             | 24   | 32                  | 42   | 32             | 42   | 56                  | 80   | 56             | 80   | 110                 |
| Rev/min (RPM)                      | 1330           | 1330 | 1280                | 1315 | 1280           | 1315 | 1300                | 1300 | 1290           | 1300 | 1375                |

| Model KIT  | HYDRAULIC KITS                                                               | Engine (cc)        |
|------------|------------------------------------------------------------------------------|--------------------|
| KIT B - 2F | HYDRAULIC KIT 2 HOSES + DRAINAGE WITH MOTOR FLOW ADJUSTMENT + SWING          | 12cc   18cc        |
| KIT B - 2F | HYDRAULIC KIT 2 HOSES + DRAINAGE WITH MOTOR FLOW ADJUSTMENT + SWING          | 25cc   32cc        |
| KIT B - 2F | HYDRAULIC KIT 2 HOSES + DRAINAGE WITH MOTOR FLOW ADJUSTMENT + SWING          | 45cc   63cc   80cc |
| KIT C - 2F | HYDRAULIC KIT 4 HOSES + DRAINAGE (adjustment is managed by the host machine) | 12cc   18cc        |
| KIT C - 2F | HYDRAULIC KIT 4 HOSES + DRAINAGE (adjustment is managed by the host machine) | 25cc   32cc        |
| KIT C - 2F | HYDRAULIC KIT 4 HOSES + DRAINAGE (adjustment is managed by the host machine) | 45cc   63cc   80cc |





## TRANSVERSE FRONT STUMP GRINDER FOR SKID LOADER AND WHEEL LOADER



| Model                                | Kg. |
|--------------------------------------|-----|
| COUPLING TO LOADER                   | /   |
| Model                                | Kg. |
| FRONT-MOUNTED ATTACHMENT SKID LOADER | 29  |

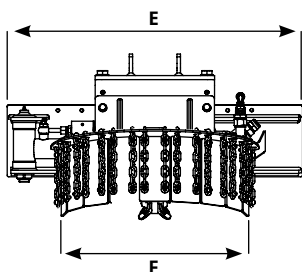
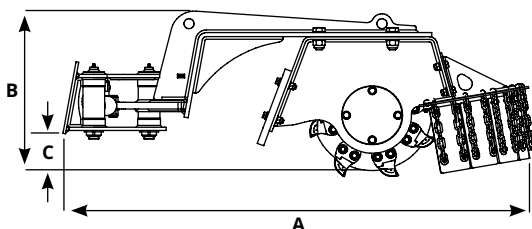


| TORNADO 2FT                        | Tornado 2FT 350 |      | Tornado 2FT 350 PLUS |      | Tornado 2FT 450 |      | Tornado 2FT 450 PLUS |      | Tornado 2FT 600 |      | Tornado 2FT 600 PLUS |
|------------------------------------|-----------------|------|----------------------|------|-----------------|------|----------------------|------|-----------------|------|----------------------|
| A (mm)                             | 720             |      | 720                  |      | 720             |      | 720                  |      | 780             |      | 780                  |
| B (Ømm)                            | 1060            |      | 1060                 |      | 1160            |      | 1160                 |      | 1325            |      | 1325                 |
| C (mm)                             | 480             |      | 480                  |      | 570             |      | 570                  |      | 750             |      | 750                  |
| D (mm)                             | 610             |      | 610                  |      | 610             |      | 610                  |      | 730             |      | 730                  |
| E (mm)                             | 1170            |      | 1170                 |      | 1170            |      | 1170                 |      | 1170            |      | 1170                 |
| F (mm)                             | 760             |      | 760                  |      | 900             |      | 900                  |      | 1150            |      | 1150                 |
| Weight (Kg)                        | 246             |      | 250                  |      | 300             |      | 303                  |      | 408             |      | 410                  |
| Teeth number                       | 16              |      | 16                   |      | 20              |      | 20                   |      | 28              |      | 28                   |
| Pressure (BAR)                     | 250             |      | 250                  |      | 250             |      | 250                  |      | 250             |      | 250                  |
| Back pressure Max (BAR)            | 15              |      | 15                   |      | 15              |      | 15                   |      | 15              |      | 15                   |
| Engine (CC)                        | 12              | 18   | 25                   | 32   | 25              | 32   | 45                   | 63   | 45              | 63   | 80                   |
| Hydraulic Fluid Flow Rate (L/Min') | 16              | 24   | 32                   | 42   | 32              | 42   | 56                   | 80   | 56              | 80   | 110                  |
| Rev/min (RPM)                      | 1330            | 1330 | 1280                 | 1315 | 1280            | 1315 | 1300                 | 1300 | 1290            | 1300 | 1375                 |

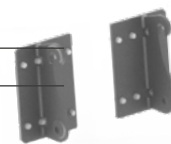
| Model KIT   | HYDRAULIC KITS                                                               | Engine (cc)        |
|-------------|------------------------------------------------------------------------------|--------------------|
| KIT E - 2FT | HYDRAULIC KIT 2 HOSES + DRAINAGE (adjustment is managed by the host machine) | 12cc   18cc        |
| KIT E - 2FT | HYDRAULIC KIT 2 HOSES + DRAINAGE (adjustment is managed by the host machine) | 25cc   32cc        |
| KIT E - 2FT | HYDRAULIC KIT 2 HOSES + DRAINAGE (adjustment is managed by the host machine) | 45cc   63cc   80cc |



## SWINGING FRONT STUMP GRINDER FOR MINI SKID LOADER



| Model              | Kg. |
|--------------------|-----|
| COUPLING TO LOADER | /   |



| Model                                     | Kg. |
|-------------------------------------------|-----|
| FRONT-MOUNTED ATTACHMENT MINI SKID LOADER | 13  |



| TORNADO 2FM                        | Tornado 2FM 350 |      | Tornado 2FM 350 PLUS |      | Tornado 2FM 450 |      | Tornado 2FM 450 PLUS |      |
|------------------------------------|-----------------|------|----------------------|------|-----------------|------|----------------------|------|
| A (mm)                             | 1365            |      | 1365                 |      | 1510            |      | 1510                 |      |
| B (Ømm)                            | 490             |      | 490                  |      | 590             |      | 590                  |      |
| C (mm)                             | 100             |      | 100                  |      | 200             |      | 200                  |      |
| D (mm)                             | 610             |      | 610                  |      | 610             |      | 610                  |      |
| E (mm)                             | 865             |      | 865                  |      | 865             |      | 865                  |      |
| Weight (Kg)                        | 166             |      | 170                  |      | 220             |      | 223                  |      |
| Teeth number                       | 16              |      | 16                   |      | 20              |      | 20                   |      |
| Pressure (BAR)                     | 250             |      | 250                  |      | 250             |      | 250                  |      |
| Back pressure Max (BAR)            | 15              |      | 15                   |      | 15              |      | 15                   |      |
| Engine (CC)                        | 12              | 18   | 25                   | 32   | 25              | 32   | 45                   | 63   |
| Hydraulic Fluid Flow Rate (L/Min') | 16              | 24   | 32                   | 42   | 32              | 42   | 56                   | 80   |
| Rev/min (RPM)                      | 1330            | 1330 | 1280                 | 1315 | 1280            | 1315 | 1300                 | 1300 |

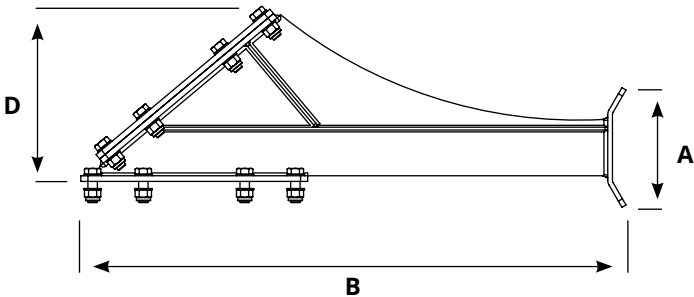
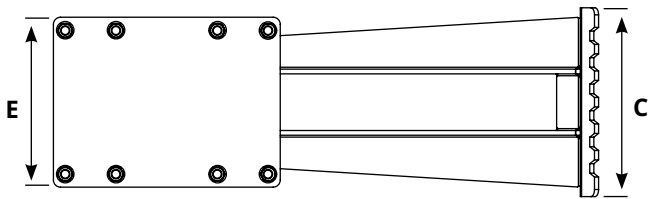
| Model KIT   | HYDRAULIC KITS                                                               | Engine (cc) |
|-------------|------------------------------------------------------------------------------|-------------|
| KIT B - 2FM | HYDRAULIC KIT 2 HOSES + DRAINAGE WITH MOTOR FLOW ADJUSTMENT + SWING          | 12cc   18cc |
| KIT B - 2FM | HYDRAULIC KIT 2 HOSES + DRAINAGE WITH MOTOR FLOW ADJUSTMENT + SWING          | 25cc   32cc |
| KIT C - 2FM | HYDRAULIC KIT 4 HOSES + DRAINAGE (adjustment is managed by the host machine) | 12cc   18cc |
| KIT C - 2FM | HYDRAULIC KIT 4 HOSES + DRAINAGE (adjustment is managed by the host machine) | 25cc   32cc |



# TORNADO SUPPORT FOOT

## FOOT FOR TORNADO

The foot mounted on the Tornado is essential as support for maneuvering with the Walking excavator.



| Model                    | A mm | B mm | C mm | D mm | Kg. | Model                           |
|--------------------------|------|------|------|------|-----|---------------------------------|
| TORNADO SUPPORT FOOT 450 | 254  | 1155 | 400  | 365  | 100 | TORNADO 450<br>TORNADO 450 PLUS |
| TORNADO SUPPORT FOOT 600 | 254  | 1155 | 400  | 365  | 100 | TORNADO 450<br>TORNADO 450 PLUS |



# TORNADO SPARE PARTS



| Model KIT |        | SPARE PARTS KIT                 |
|-----------|--------|---------------------------------|
| <b>A</b>  | SP - A | TORNADO TOOL HOLDER (1PC RIGHT) |
| <b>B</b>  | SP - B | TORNADO TOOL HOLDER (1PC LEFT)  |
| <b>C</b>  | SP - C | TORNADO TOOL (1PC RIGHT)        |
| <b>D</b>  | SP - D | TORNADO TOOL (1PC LEFT)         |
| <b>E</b>  | SP - E | SCREWS FOR TOOTH HOLDER (1Pcs)  |



# VORTEX<sub>2</sub>



THE **PROFESSIONAL**  
SOLUTION FOR  
**EVERY DRILLING**  
APPLICATION.

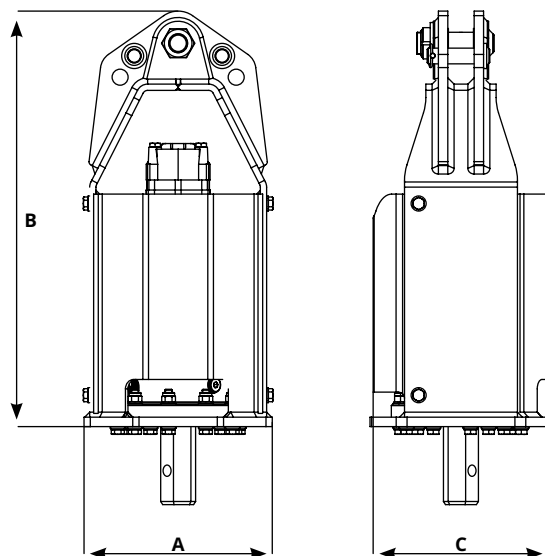


*A multifunction auger designed to provide maximum operating versatility.*

*Several bits and extensions are available, from ground drilling to breaking up roots and tree stumps.*

# **VORTEX<sub>2</sub>**



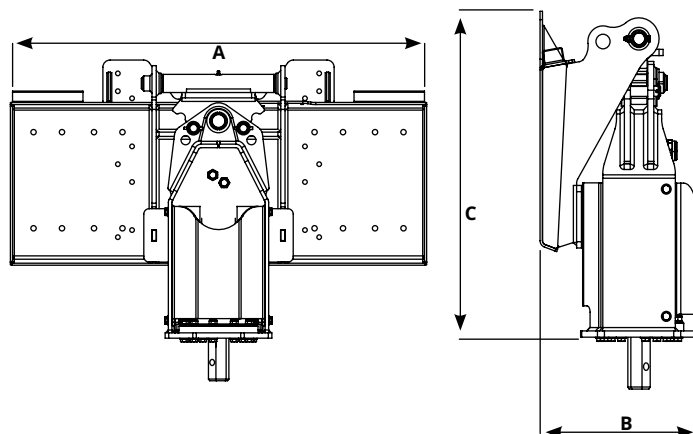


| Tons                       | 1.0 - 1.8   | 1.8 - 2.2   | 2.0 - 3.0   | 3.0 - 4.5   | 4.0 - 6.0   | 6.0 - 7.5   | 7.0 - 10.0  | 10.0 - 15.0 | 15.0 - 20.0 |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MODEL                      | Vortex 2 V1 | Vortex 2 V2 | Vortex 2 V3 | Vortex 2 V4 | Vortex 2 V5 | Vortex 2 V6 | Vortex 2 V7 | Vortex 2 V8 | Vortex 2 V9 |
| A (mm)                     | 235         | 235         | 235         | 300         | 300         | 360         | 360         | 410         | 410         |
| B (mm)                     | 475         | 475         | 475         | 660         | 660         | 780         | 780         | 950         | 950         |
| C (mm)                     | 230         | 230         | 230         | 290         | 290         | 350         | 350         | 430         | 430         |
| WRENCH                     | 50          | 50          | 50          | 50          | 50          | 70          | 70          | 70          | 70          |
| Without coupling weight Kg | 59          | 62          | 62          | 100         | 105         | 180         | 180         | 260         | 283         |
| Flow rate Min/Max (L/Min') | 20-30       | 25-40       | 30-50       | 40-60       | 50-70       | 60-80       | 80-90       | 90-120      | 110-150     |
| Rev/min (RPM)              | 66          | 66          | 51          | 46          | 43          | 37          | 28          | 37          | 36          |
| Pressure Bar               | 220         | 220         | 220         | 220         | 220         | 220         | 220         | 240         | 280         |
| Torque Max. N/m            | 1.200       | 1.600       | 2.500       | 3.500       | 4.500       | 6.200       | 8.000       | 10.000      | 15.000      |
| Drainage to tank           | Suggested   | Suggested   | Suggested   | Suggested   | Suggested   | Suggested   | Suggested   | Suggested   | Mandatory   |





## FRONT-MOUNTED MULTIFUNCTION AUGER



| MODEL                      | Vortex 2 F V1 | Vortex 2 F V2 | Vortex 2 F V3 | Vortex 2 F V4 | Vortex 2 F V5 |
|----------------------------|---------------|---------------|---------------|---------------|---------------|
| A (mm)                     | 1170          | 1170          | 1170          | 1170          | 1170          |
| B (mm)                     | 470           | 470           | 470           | 500           | 500           |
| C (mm)                     | 750           | 750           | 750           | 935           | 935           |
| WRENCH                     | 50            | 50            | 50            | 50            | 50            |
| Weight with attachment Kg  | 244           | 247           | 247           | 285           | 290           |
| Flow rate Min/Max (L/Min') | 20-30         | 25-40         | 30-50         | 40-60         | 50-70         |
| Rev/min (RPM)              | 66            | 66            | 51            | 46            | 43            |
| Pressure Bar               | 220           | 220           | 220           | 220           | 220           |
| Torque Max. N/m            | 1.200         | 1.600         | 2.500         | 3.500         | 4.500         |
| Drainage to tank           | Suggested     | Suggested     | Suggested     | Suggested     | Suggested     |

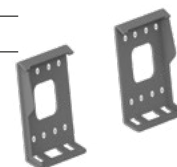
HYDRAULIC KIT included with VORTEX 2F



| Model                                   | Kg. |
|-----------------------------------------|-----|
| COUPLING TO LOADER supplemento per PALE | /   |

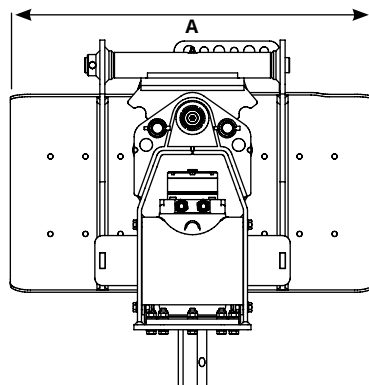
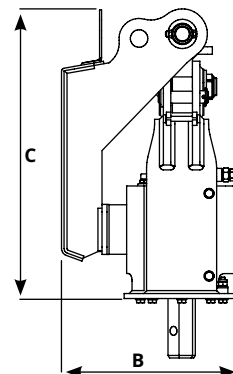


| Model                                                        | Kg. |
|--------------------------------------------------------------|-----|
| FRONT-MOUNTED ATTACHMENT SKID LOADER attacco per skid loader | 29  |





## FRONT MULTIFUNCTION AUGER FOR MINI SKID LOADERS

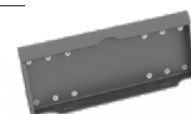


| MODEL                    | Vortex 2 FM V1 | Vortex 2 FM V2 | Vortex 2 FM V3 |
|--------------------------|----------------|----------------|----------------|
| A (mm)                   | 730            | 730            | 730            |
| B (mm)                   | 355            | 355            | 355            |
| C (mm)                   | 575            | 575            | 575            |
| WRENCH                   | 50             | 50             | 50             |
| Weight Kg                | 100            | 105            | 105            |
| Portata Min/Max (L/Min') | 20-30          | 25-40          | 30-50          |
| Rev/min (RPM)            | 66             | 66             | 51             |
| Pressure Bar             | 220            | 220            | 220            |
| Torque Max. N/m          | 1.200          | 1.600          | 2.500          |
| Drainage to tank         | Suggested      | Suggested      | Suggested      |

HYDRAULIC KIT included with VORTEX 2F



Model Kg.  
FRONT-MOUNTED ATTACHMENT MINI SKID LOADER  
13  
attacco per mini skid loader

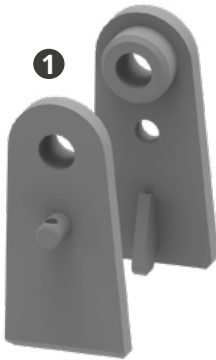
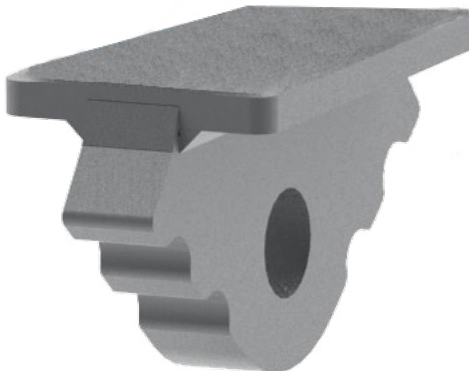
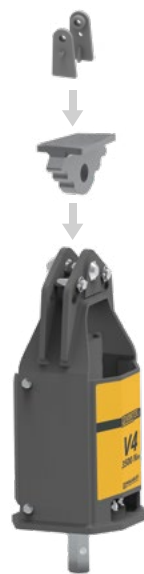




# SINGLE PIN ATTACHMENT



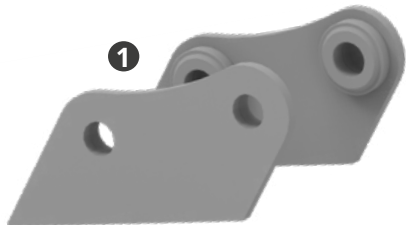
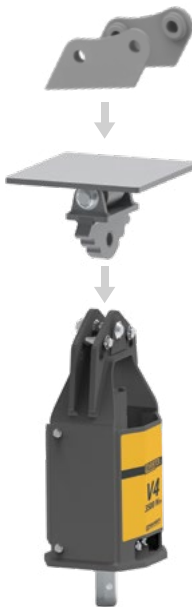
## SINGLE-PIN ATTACHMENT

|    |    |         |         |         |         |
|-------------------------------------------------------------------------------------|----|---------|---------|---------|---------|
|   |    |         |         |         |         |
|  |    |         |         |         |         |
| MODEL VORTEX                                                                        | V1 | V2 - V3 | V4 - V5 | V6 - V7 | V8 - V9 |
| Kg                                                                                  | 15 | 20      | 25      | 40      | 60      |
| 1 Attachment                                                                        | ✓  | ✓       | ✓       | ✓       | ✓       |

# DOUBLE JOINT ATTACHMENT



## DOUBLE-JOINT ATTACHMENT

|     |    |         |         |         |         |
|---------------------------------------------------------------------------------------|----|---------|---------|---------|---------|
|   |    |         |         |         |         |
|  |    |         |         |         |         |
| MODEL VORTEX                                                                          | V1 | V2 - V3 | V4 - V5 | V6 - V7 | V8 - V9 |
| Kg                                                                                    | 25 | 26      | 35      | 65      | 86      |
| 1 Quick coupler / Fixed attachment                                                    | ✓  | ✓       | ✓       | ✓       | ✓       |

# HORIZONTAL ATTACHMENT



## HORIZONTAL ATTACHMENT



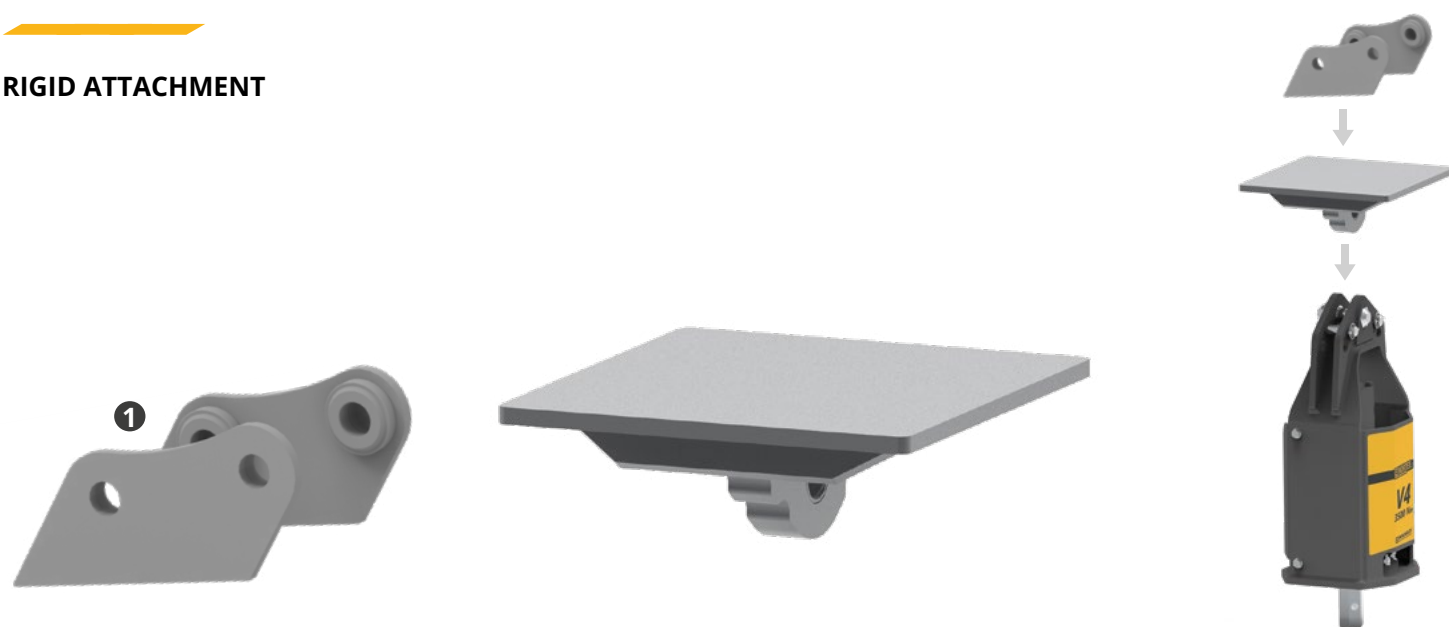
| MODEL VORTEX | V1 | V2 - V3 | V4 - V5 | V6 - V7 | V8 - V9 |
|--------------|----|---------|---------|---------|---------|
| Kg           | 31 | 32      | 40      | 75      | 96      |

|                                    |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|
| 1 Quick coupler / Fixed attachment | ✓ | ✓ | ✓ | ✓ | ✓ |
|------------------------------------|---|---|---|---|---|

# RIGID ATTACHMENT



## RIGID ATTACHMENT



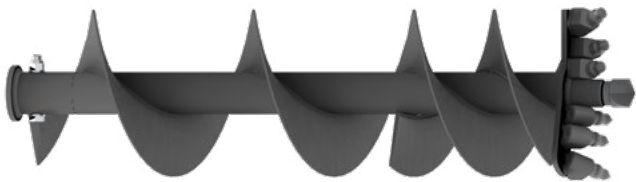
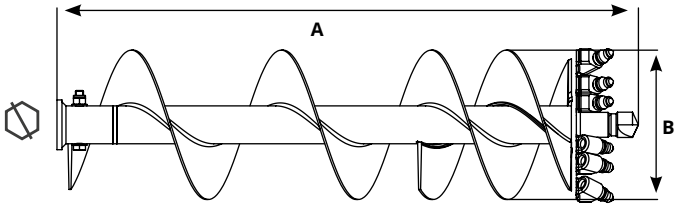
| MODEL VORTEX | V1 | V2 - V3 | V4 - V5 | V6 - V7 | V8 - V9 |
|--------------|----|---------|---------|---------|---------|
| Kg           | 15 | 16      | 25      | 33      | 55      |

|                                    |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|
| 1 Quick coupler / Fixed attachment | ✓ | ✓ | ✓ | ✓ | ✓ |
|------------------------------------|---|---|---|---|---|

# ROCK BIT



## ROCK TIP



WRENCH 50 (A) 1000mm

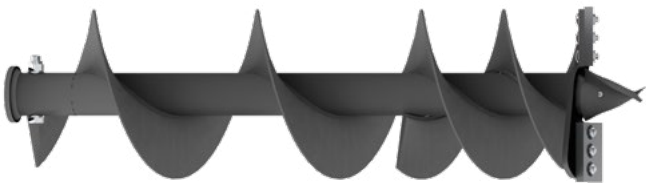
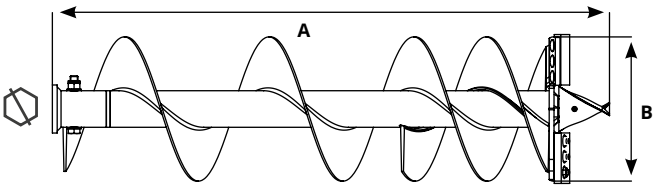
| B (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Kg     | 21  | 26  | 31  | 33  | 37  | 46  | 50  | 71  | 84  |

WRENCH 70 (A) 1000mm

| B (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Kg     | /   | 29  | 33  | 36  | 40  | 48  | 52  | 74  | 87  |

# LAND BIT

## EARTH TIP



WRENCH 50 (A) 1000mm

| B (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Kg     | 21  | 25  | 29  | 32  | 35  | 43  | 47  | 68  | 80  |

WRENCH 70 (A) 1000mm

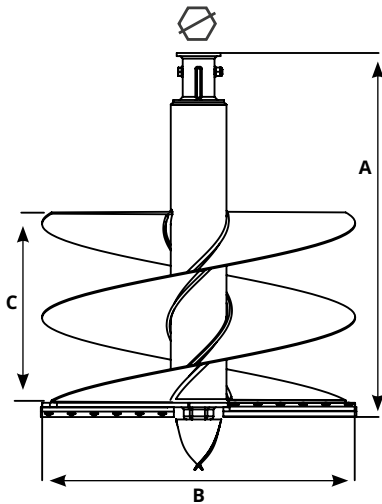
| B (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Kg     | /   | 28  | 32  | 34  | 38  | 45  | 50  | 70  | 83  |



# LAND BIT EXTRA



## EXTRA EARTH TIP

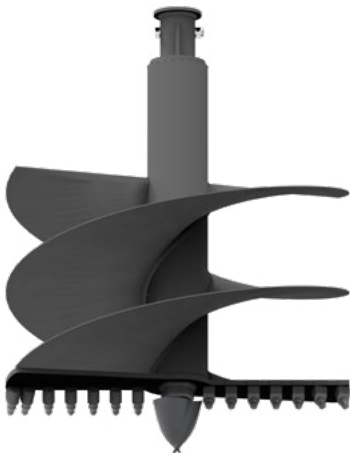
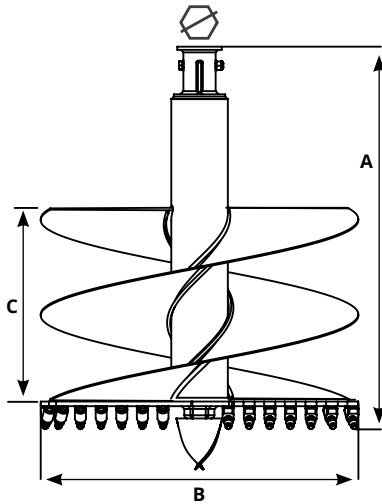


| WRENCH       | 50                     | 50                     | 70                | 70                |
|--------------|------------------------|------------------------|-------------------|-------------------|
| MODEL VORTEX | V1 - V2 - V3 - V4 - V5 | V1 - V2 - V3 - V4 - V5 | V6 - V7 - V8 - V9 | V6 - V7 - V8 - V9 |
| A (mm)       | 1000                   | 1000                   | 1000              | 1000              |
| B (mm)       | 800                    | 1000                   | 800               | 1000              |
| C (mm)       | 600                    | 600                    | 600               | 600               |
| Kg           | 138                    | 180                    | 140               | 183               |

# ROCK BIT EXTRA



## EXTRA ROCK TIP



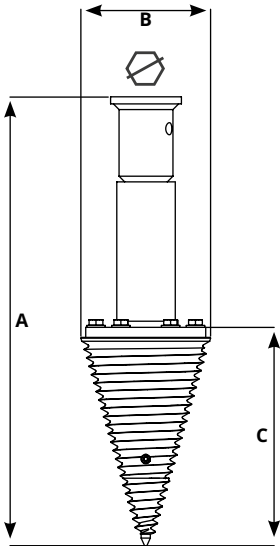
| WRENCH       | 50                     | 50                     | 70                | 70                |
|--------------|------------------------|------------------------|-------------------|-------------------|
| MODEL VORTEX | V1 - V2 - V3 - V4 - V5 | V1 - V2 - V3 - V4 - V5 | V6 - V7 - V8 - V9 | V6 - V7 - V8 - V9 |
| A (mm)       | 1000                   | 1000                   | 1000              | 1000              |
| B (mm)       | 800                    | 1000                   | 800               | 1000              |
| C (mm)       | 600                    | 600                    | 600               | 600               |
| Kg           | 142                    | 144                    | 188               | 191               |



# LOG SPLITTER CONICAL BIT



LOG SPLITTER CONICAL BIT › Ideal for cutting logs



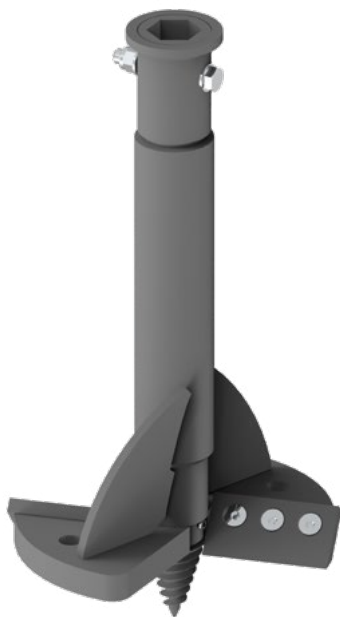
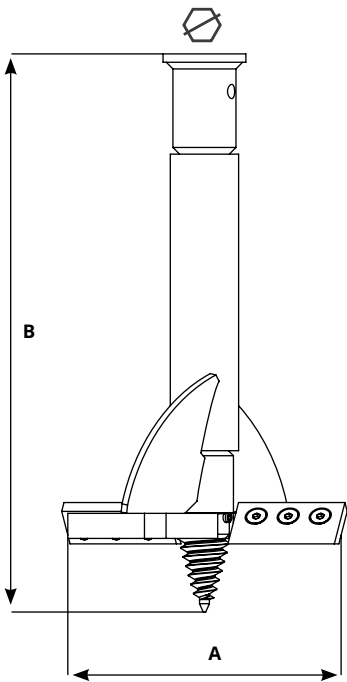
|  WRENCH | 50                     | 70                |
|--------------------------------------------------------------------------------------------|------------------------|-------------------|
| MODEL VORTEX                                                                               | V1 - V2 - V3 - V4 - V5 | V6 - V7 - V8 - V9 |
| A (mm)                                                                                     | 550                    | 775               |
| B (mm)                                                                                     | 170                    | 220               |
| C (mm)                                                                                     | 305                    | 390               |
| Kg                                                                                         | 23                     | 48                |

# STUMP GRINDER BIT



## STUMP GRINDER BIT

› Ideal for grinding and crushing tree stumps and roots



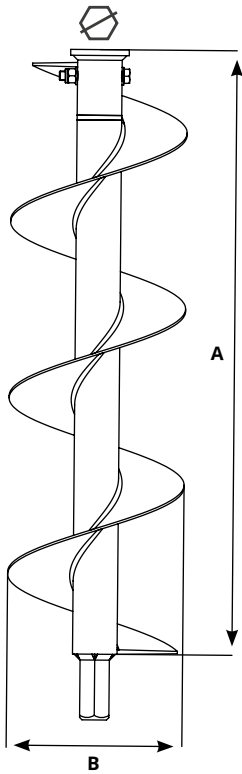
|  WRENCH | 50                     | 70                |
|--------------------------------------------------------------------------------------------|------------------------|-------------------|
| MODEL VORTEX                                                                               | V1 - V2 - V3 - V4 - V5 | V6 - V7 - V8 - V9 |
| A (mm)                                                                                     | 330                    | 330               |
| B (mm)                                                                                     | 670                    | 700               |
| Kg                                                                                         | 29                     | 33                |

# BIT EXTENSIONS WITH SPIRAL



## EXTENSIONS WITH SPIRAL FOR BITS

- › Suitable for increasing the drilling depth during operation



| WRENCH  50 (A) 1000mm |     |     |     |     |     |     |     |     |     |
|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B (mm)                                                                                                   | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600 |
| Kg                                                                                                       | 22  | 25  | 27  | 28  | 30  | 35  | 37  | 50  | 55  |

| WRENCH  70 (A) 1000mm |     |     |     |     |     |     |     |     |     |
|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B (mm)                                                                                                   | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600 |
| Kg                                                                                                       | /   | 30  | 32  | 33  | 35  | 40  | 42  | 55  | 60  |

| WRENCH  50 (A) 2000mm |     |     |     |     |     |     |     |     |     |
|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B (mm)                                                                                                   | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600 |
| Kg                                                                                                       | 40  | 46  | 50  | 53  | 57  | 66  | 70  | 97  | 107 |

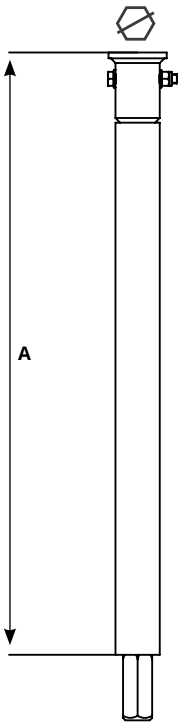
| WRENCH  70 (A) 2000mm |     |     |     |     |     |     |     |     |     |
|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B (mm)                                                                                                   | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600 |
| Kg                                                                                                       | /   | 51  | 55  | 58  | 62  | 71  | 75  | 102 | 112 |

# BIT SHAFT EXTENSIONS



## EXTENSIONS WITHOUT SPIRAL FOR BITS

› Extensions without spiral for bits



|        |      |      |
|--------|------|------|
| WRENCH | 50   | 70   |
| A (mm) | 1000 | 1000 |
| Kg     | 20   | 25   |

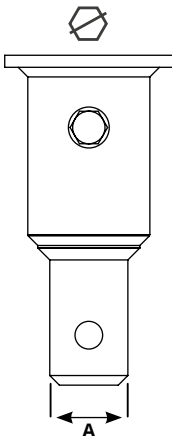
|        |      |      |
|--------|------|------|
| WRENCH | 50   | 70   |
| A (mm) | 1500 | 1500 |
| Kg     | 28   | 33   |

|        |      |      |
|--------|------|------|
| WRENCH | 50   | 70   |
| A (mm) | 2000 | 2000 |
| Kg     | 36   | 42   |

# AUGER BIT ADAPTER



## AUGER BIT ADAPTER

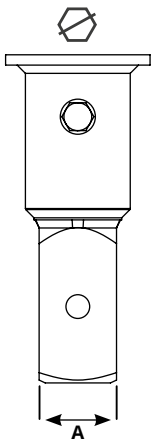


|        |    |    |    |
|--------|----|----|----|
| WRENCH | 50 | 50 | 70 |
| A (mm) | 50 | 65 | 65 |
| Kg     | 5  | 6  | 9  |

# CUBIC ADAPTER FOR AUGER BIT



## CUBIC ADAPTER FOR AUGER BIT

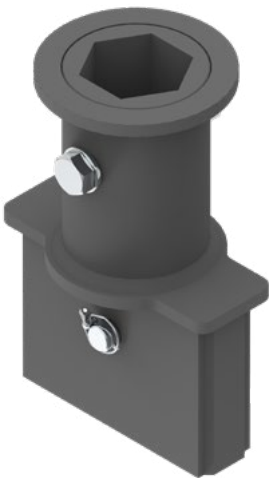
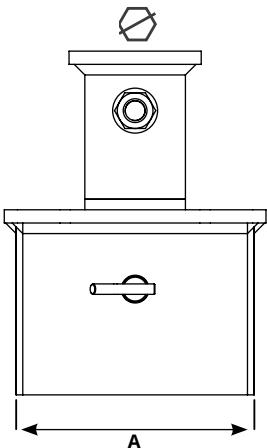


|        |    |
|--------|----|
| WRENCH | 70 |
| A (mm) | 50 |
| Kg     | 13 |

# ANCHOR ADAPTER



## ANCHOR ADAPTER



|  WRENCH | 50 | 70 |
|------------------------------------------------------------------------------------------|----|----|
| A (mm)                                                                                   | 50 | 65 |
| Kg                                                                                       | 8  | 11 |





## **VIBRODRIVER FOR SHEET PILES**

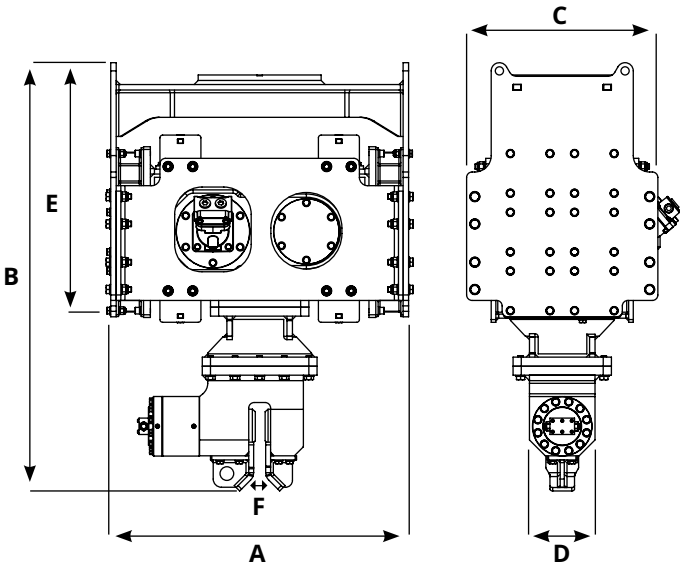
**CLAMP SUITABLE  
FOR VIBRODRIVING  
AND EXTRACTING  
SHEET PILES IN DIFFERENT  
TYPES OF SOIL**



sheet PileFix  
MALAGUTI

STRONG

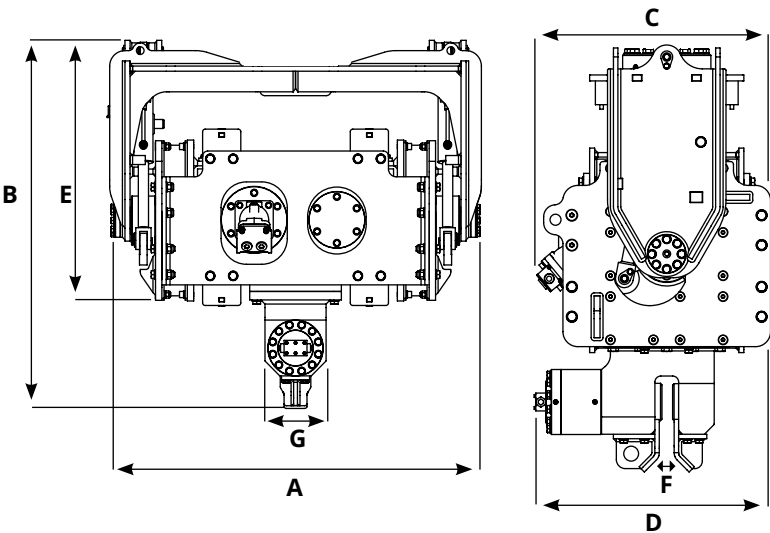
VIBRODRIVER FOR SHEET PILES



| SHEET PILEFIX                     | W2 K4 STRONG | W2 K6 STRONG |
|-----------------------------------|--------------|--------------|
| A (mm)                            | 1210         | 1210         |
| B (mm)                            | 1360         | 1360         |
| C (mm)                            | 780          | 780          |
| D (mm)                            | 240          | 240          |
| E (mm)                            | 940          | 940          |
| F (mm)                            | 36           | 36           |
| Weight (Kg)                       | 1460         | 1480         |
| Engine (CC)                       | 63           | 63           |
| Hydraulic Fluid Flow Rate (L/Min) | 145          | 145          |
| Pressure (BAR)                    | 200/300      | 200/300      |
| Vibration Rate (RPM)              | 2.300        | 2.300        |
| Centrifugal force (Kn)            | 250          | 360          |
| Kilogrammeters (KGM)              | 4,3          | 6,2          |
| Hertz                             | 38           | 38           |

|   | Model                                    | Kg. |
|---|------------------------------------------|-----|
| 1 | 2-HOSES VALVE KIT - W2 K4 K6             | 50  |
| 2 | PUSHBUTTON                               | /   |
| 3 | SINGLE PIN MACHINE ATTACHMENT - W2 K4 K6 | /   |
| 4 | ATTACHMENT SETUP - W2 K4 K6              | 55  |
| 5 | MECHANICAL ROTATION - W2 K4 K6           | 57  |
| 6 | ADAPTER FOR 90° CLAMP                    | 95  |





| SHEET PILEFIX                     | W2 K4 TILT | W2 K6 TILT |
|-----------------------------------|------------|------------|
| A (mm)                            | 1460       | 1460       |
| B (mm)                            | 1260       | 1260       |
| C (mm)                            | 790        | 790        |
| D (mm)                            | 800        | 800        |
| E (mm)                            | 1030       | 1030       |
| F (mm)                            | 36         | 36         |
| G (mm)                            | 240        | 240        |
| Weight (Kg)                       | 1660       | 1680       |
| Engine (CC)                       | 63         | 63         |
| Hydraulic Fluid Flow Rate (L/Min) | 145        | 145        |
| Pressure (BAR)                    | 200/300    | 200/300    |
| Vibration Rate (RPM)              | 2.300      | 2.302      |
| Centrifugal force (Kn)            | 250        | 360        |
| Kilogrammeters (KGM)              | 4,3        | 6,2        |
| Hertz                             | 38         | 38         |

|   | Model                                    | Kg. |
|---|------------------------------------------|-----|
| 1 | 2-HOSES VALVE KIT - W2 K4 K6             | 50  |
| 2 | PUSHBUTTON                               | /   |
| 3 | SINGLE PIN MACHINE ATTACHMENT - W2 K4 K6 | /   |
| 4 | ATTACHMENT SETUP - W2 K4 K6              | 55  |
| 5 | MECHANICAL ROTATION - W2 K4 K6           | 57  |



This machine requires a hydraulic supply with 3 double effect lines + drainage, or n°2 double effect lines with solenoid valve + drainage

# GENERAL SALES INFORMATION

THE FOLLOWING GENERAL SALES CONDITIONS ARE BINDING AND FORM AN INTEGRAL PART OF THE CONTRACTS CONCLUDED BETWEEN THE SELLER AND THE BUYER FOR THE SUPPLY OF THE SELLER'S PRODUCTS (THE "PRODUCTS").

THESE SALES CONDITIONS APPLY TO ALL TRANSACTIONS CONCLUDED WITH THE SELLER AND THE BUYER WITHOUT THE NEED FOR EXPLICIT REFERENCE TO THEM OR A SPECIFIC AGREEMENT IN THIS REGARD AT THE CONCLUSION OF EACH INDIVIDUAL TRANSACTION. ANY DIFFERENT CONDITION OR TERM WILL APPLY ONLY IF CONFIRMED IN WRITING BY THE SELLER.

THE SELLER RESERVES THE RIGHT TO MODIFY, SUPPLEMENT, OR AMEND THE GENERAL SALES CONDITIONS, ATTACHING SUCH VARIATIONS TO OFFERS OR ANY WRITTEN CORRESPONDENCE SENT TO THE BUYER.

## OFFERS AND ORDERS

The Seller's offers are not binding, especially concerning quantity, prices, and delivery terms. Orders placed by the Buyer are not considered accepted until they are confirmed in writing by the Seller. The Buyer has the option to modify and/or cancel the order within 24 hours of receipt, as expressly stated in the order confirmation. Orders and/or order modifications made verbally or over the phone must be confirmed in writing by the Buyer; otherwise, the Seller assumes no responsibility for any errors or misunderstandings.

## PRICES AND PAYMENT TERMS

Unless otherwise stated in the Seller's Order Confirmation, the applicable prices for Products and spare parts shall be those set forth in the Seller's price list in effect on the date of the Order Confirmation. Product prices do not include VAT, which must be paid at the time of delivery or in accordance with the specific provisions indicated on the invoice. Taxes, duties, shipping, insurance, after-sales service are not included in the prices unless separately quoted. In case of delayed or non-payment within the agreed terms, the Seller has the right to apply late payment interest, in addition to seeking compensation for any other damages suffered, as well as suspend and/or cancel further deliveries and demand immediate payment of the outstanding amount. The Parties hereby agree that in the event of disputes between them relating to this contract, the Buyer may not, for any reason, delay and/or suspend payments for executed orders. In the event of changes in the Buyer's economic conditions, the Seller may request immediate payment with forfeiture of the grace period, change payment terms, including a request for total or partial prepayment before shipment. In any case, the Buyer is not entitled to make offsetting, deductions, or reductions of the price and/or sums due to the Seller, unless there is written consent from the Seller.

## DELIVERY TERMS

Unless otherwise agreed in writing, any indicated delivery term is not binding on the Seller. Unless otherwise agreed between the parties, the indicative delivery term is specified in the order confirmation. The delivery terms and methods of the product and/or spare parts are those indicated by the Seller in the order confirmation; it is understood that the Seller is not responsible for delays due to force majeure, acts of third parties, public authorities, or causes attributable to the Buyer, as expressly regulated in article 1341 of the Civil Code. The Seller is not obligated to accept returns of products unless expressly agreed in writing. Any costs incurred for this purpose are borne by the Buyer.

## WARRANTY TERMS

- a) The Seller guarantees that the products and/or spare parts are free from defects and conform to the technical specifications stated in the product technical manuals and documentation provided to the Buyer.
- b) The warranty is valid for 12 months from the date the Product and/or spare parts and/or Product parts leave the Seller's premises.
- c) The Seller is not liable, even towards third parties, for improper use and non-compliance with what is indicated in the user and maintenance manuals for the products and/or spare parts, as well as for use by untrained personnel.
- d) Tampering with the product and/or spare parts or any maintenance and/or repair work on it, or replacement of parts not authorized in writing by the Seller, results in the forfeiture of the warranty.
- e) It is the Buyer's obligation to check the packaging, quantity, and conformity of the products and/or spare parts at the time of delivery, recording any discrepancies in the Delivery Note.
- f) Any defects or non-conformities of the products and/or spare parts must be reported in writing to the Seller within 8 days of receipt, including a detailed report and photographic documentation of the complaints and a copy of the Delivery Note with the complaints already indicated therein.
- g) Catalogs, price lists, and promotional materials provided by the Seller, containing images and indicative descriptions of the product, cannot be used as evidence of non-compliance with the Product itself.
- h) Once it is verified that the product reported as defective falls within the warranty condition, Malaguti srl may decide how to intervene, ensuring the problem is resolved as quickly as possible.
- i) All products and/or spare parts, even in replacement, or sent before the warranty is verified, will be shipped with a sales Delivery Note and billed to the Buyer. After appropriate checks, in the case of replacement falling within the warranty condition, the Seller will issue a credit note.
- l) This warranty condition does not cover any damages to the Customer or third parties, direct or indirect damages, loss of profits, accidental damages, commercial damages, production delays, damage to reputation, and any other costs incurred by the Buyer and internal management expenses. The warranty also does not cover travel expenses for the shipment of products and/or spare parts.
- m) The Seller reserves the right to send the Buyer a replacement product and/or spare part for the period necessary for any checks and repairs.

#### **LIMITATION OF LIABILITY**

Except in cases of justified dispute, the Buyer is not entitled to any further rights or remedies. In particular, the Seller is not liable for any compensation claimed for breach or non-performance of the contract, for any direct damage, or loss of profit suffered by the Buyer as a result of the use, non-use, or installation of the Products in other products, except in cases covered by warranty as indicated in the previous paragraph or in cases of willful misconduct or gross negligence by the Seller. The Seller will make every effort to deliver the Products within the agreed-upon timeframe, but in no case shall the Seller be held responsible for damages directly or indirectly caused by delayed contract execution or delayed product delivery. The catalog, price list, or other promotional materials of the Seller only serve as an indication of the type of Products and prices, and the indications therein are not binding on the Seller. The Seller assumes no responsibility for errors or omissions in its own price list or promotional materials.

#### **INTELLECTUAL PROPERTY OF MALAGUTI S.R.L.**

The Customer expressly acknowledges that the trademarks, trade names, or other distinctive signs affixed to the goods are the exclusive property of Malaguti s.r.l. and may not be altered, modified, removed, or deleted in any way. The Customer has the limited right to use the trademark, trade names, or other distinctive signs, as well as any other industrial property or production and commercial know-how incorporated in the goods, for the sole and limited purpose of reselling the goods to the public. Any different use of Malaguti s.r.l.'s intellectual property by the Customer, unless expressly granted by Malaguti s.r.l. in writing, shall be deemed a violation by the Customer of the aforementioned exclusive rights of Malaguti s.r.l., also from a contractual liability perspective, and will be properly pursued. Documents, drawings, data, and information (whether in paper form or electronically) that are delivered to the Customer remain the exclusive property of Malaguti s.r.l. and serve as support for a better representation of the Product and are indicative of the Product's performance. The Customer agrees not to reproduce them, disclose them to third parties, and also to take appropriate precautions with respect to its personnel to ensure their protection.

#### **PERSONAL DATA PROCESSING**

- a) The personal data of the Buyer will be processed in accordance with Italian law on personal data processing, including GDPR and Legislative Decree 101/2018 and subsequent amendments. The Seller informs the Buyer that the Seller is the data controller, and the personal data of the Buyer are collected and processed exclusively for the execution of this agreement.
- b) Data and information processed based on these general sales conditions may not in any way be disclosed to third parties, unless expressly authorized in writing by the Seller, except for legal obligations related to providing documents containing personal data to public authorities.
- c) Each Party undertakes to promptly report to the other any violation of trademark rights of which it becomes aware, as well as any other acts of unfair competition committed by third parties, in order to allow the injured Party to take the necessary or appropriate defensive actions in the common interest.

#### **APPLICABLE LAW**

- a) If the Buyer is a legal entity under Italian law, these General Sales Conditions and all contracts entered into by the Buyer with the Seller shall be governed by Italian law.
- b) If, on the other hand, the Buyer is a national of a country other than Italy, these General Sales Conditions and all contracts entered into by the Buyer with the Seller shall be governed by the 1980 United Nations Convention on Contracts for the International Sale of Goods (CISG).

#### **JURISDICTION**

- a) All disputes arising from this contract shall be exclusively submitted to the jurisdiction of the Forlì Court.
- It is understood between the Parties that only the Seller, at its discretion, shall have the right to waive the jurisdiction of the exclusive court as indicated in the preceding paragraph a) to take legal action against the Buyer at its domicile or at the competent court.

#### **GENERAL PROVISIONS**

- a) The invalidity in whole or in part of individual provisions of these General Sales Conditions shall not affect the validity of the remaining provisions.
- b) Any modification or addition to this contract must be made in writing and duly signed by the parties.
- c) These General Sales Conditions are drafted in both Italian and English. In case of interpretative doubts, the Italian version shall prevail.

**CANGEO**  
by Malaguti



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The data provided should be considered indicative and should be compared with the capacity of the operating machine on which the equipment is used.