

# A STEP AHEAD IN **TECHNIQUE.** **FUTURE** ORIENTED

ATTACHMENTS FOR EXCAVATORS AND FRONTAL

EN



# PRICE LIST 27



# HISTORY

1989

THE DEBUT AS SPECIALIZED METALWORKING WORKSHOP IN THE FAMILY HOUSE, IN THE RURAL AREA OF PAGNO, IN THE HEART OF THE ROMAGNA'S APENNINES.

1990

THE CANGINI BROTHERS SPECIALIZE THEIR ACTIVITY IN THE DESIGN AND PRODUCTION OF BUCKETS.

1992

THE YOUNG COMPANY IS ABLE TO CATCH THE MARKET'S SIGNS. THE CATALOGUE IS RICHER AND THE FIRST QUICK COUPLER, THE AR MODEL, IS PRODUCED.



1996

THE FIRST CANGINI ATTACHMENT JOINS THE CATALOGUE. THE COMPANY SETTLES IN THE NEW PLANT OF SARSINA.

2001

THE CR MECHANICAL QUICK COUPLER IS PLACED ON THE MARKET.

2010

THE WORLD ECONOMIC CRISIS AFFECTS THE ITALIAN MARKET. CANGINI GROWS STRONGER THANKS TO ITS EXPORT SHARE.

2017

NEW PRODUCTION AREA DEVOTED TO HYDRAULIC ATTACHMENTS (2,400 M²) WITH A NEW WATER-COATING PLANT.

2021

SWEDISH INVESTMENT COMPANY LIFCO AB ACQUIRED THE MAJORITY OF CANGINI BENNE SHARES, WHICH BECOMES PART OF THE DEMOLITION & TOOLS DIVISION, HEADED BY THE KINSHOFER GROUP.



CANGINI BENNE

2006

THE EXPORT SHARE GROWS AND THE PRODUCTION AREA INAUGURATES ITS NEW 2,500 M².

CANGINI

2016

MENTION OF HONOUR TO SAFETY BY THE SAMOTER INNOVATION AWARD.



THE BEST YEARS ARE THOSE STILL TO COME

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# TECHNICAL LEGEND

|  |                                     |  |  |  |                    |
|--|-------------------------------------|--|--|--|--------------------|
|  | WEIGHT                              |  | W/O ROTATION                           |  | BRUSH DIAMETER     |
|  | EMPTY WEIGHT                        |  | BIDIRECTIONAL ROTATION                 |  | MAX. PIPE DIAMETER |
|  | FULL LOAD WEIGHT/OPERATING          |  | SHAFTS                                 |  | HEX KEY            |
|  | ALLOWED MAX CAPACITY                |  | SELECTED THICKNESS DIAMETER            |  | MATCHING BUCKET    |
|  | LIFTING CAPACITY                    |  | HAMMERS                                |  | ADAPTER            |
|  | OIL FLOWRATE                        |  | STANDARD Y BLADES + INTERMEDIATE KNIFE |  | EXCAVATOR          |
|  | OIL FLOWRATE REQUESTED FOR ROTATION |  | CUTTING DIAMETER                       |  | SKID LOADER        |
|  | TEETH LOADING CAPACITY              |  | ROTOR DIAMETER                         |  | MINI SKID LOADER   |
|  | POWER                               |  | ROTOR MAXIMUM DIAMETER                 |  | WHEEL LOADER       |
|  | PRESSURE                            |  | DC TEETH + DTE TEETH                   |  | BACKHOE LOADER     |
|  | BELT TRANSMISSION                   |  | DF TEETH                               |  | TELEHANDLER        |
|  | ROTATION                            |  | BRUSH                                  |  | TRACTOR            |































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EXCAVATOR



BACKHOE LOADER



























|                                      |    |   |   |   |
|--------------------------------------|----|---|---|---|
| PF/PG SORTING GRAPPLES               | 6  |    |    |    |
| PF/PG MULTIPURPOSE SELECTION GRAPPLE | 8  |    |    |    |
| CH CLAMSHELL BUCKET                  | 10 |    |    |    |
| WG WOOD GRABS                        | 18 |    |    |    |
| WG-SP WOOD GRABS WG                  | 20 |   |    |    |
| V SCREENING BUCKET                   | 22 |  |  |  |
| VMS MULTISCREENING BUCKET            | 24 |  |  |  |
| ATC AUGER                            | 26 |  |  |  |
| DEMOLITION HAMMER CB                 | 30 |  |  |  |
| TC MULCHER                           | 34 |  |  |  |



EXCAVATOR



BACKHOE LOADER

|   |    |   |   |   |
|---|----|---|---|---|
| TX FORCE ONE FORESTRY MULCHER                   | 36 |    |    |    |
| BTC SHARP-CUT BRANCH CUTTER BAR                 | 38 |    |    |    |
| BP EXTENSION ARM                                | 40 |    |    |    |
| GRT HYDRAULIC THUMB                             | 42 |    |    |   |
| RCB SINGLE-FORCE RIPPER & RN MULTI-FORCE RIPPER | 44 |   |    |    |
| M4 4 IN 1 BUCKET                                | 46 |  |  |   |
| FK PALLET FORK                                  | 48 |  |  |   |
| MIX-SF MIXING BUCKET SAFE DISCHARGE             | 50 |  |  |   |
| RSE BROOM SWEEPER                               | 52 |  |  |  |
| SSC JOINTED BRUSH                               | 54 |  |  |  |



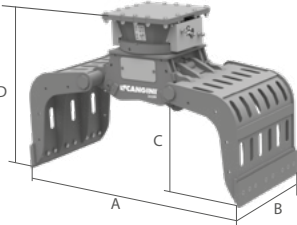



HB400





NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)


HYDRAULIC ROTATION STANDARDIZED ON ALL MODELS. DESIGNED TO HANDLE DIFFERENT MATERIALS. THE CLAWS WITH HB400 ELEMENTS ARE FITTED WITH BOLTED REVERSIBLE BLADES. ITS STRONG FRAME ALLOWS OPERATORS TO USE IT ALSO FOR LIGHT DEMOLITION WORKS.




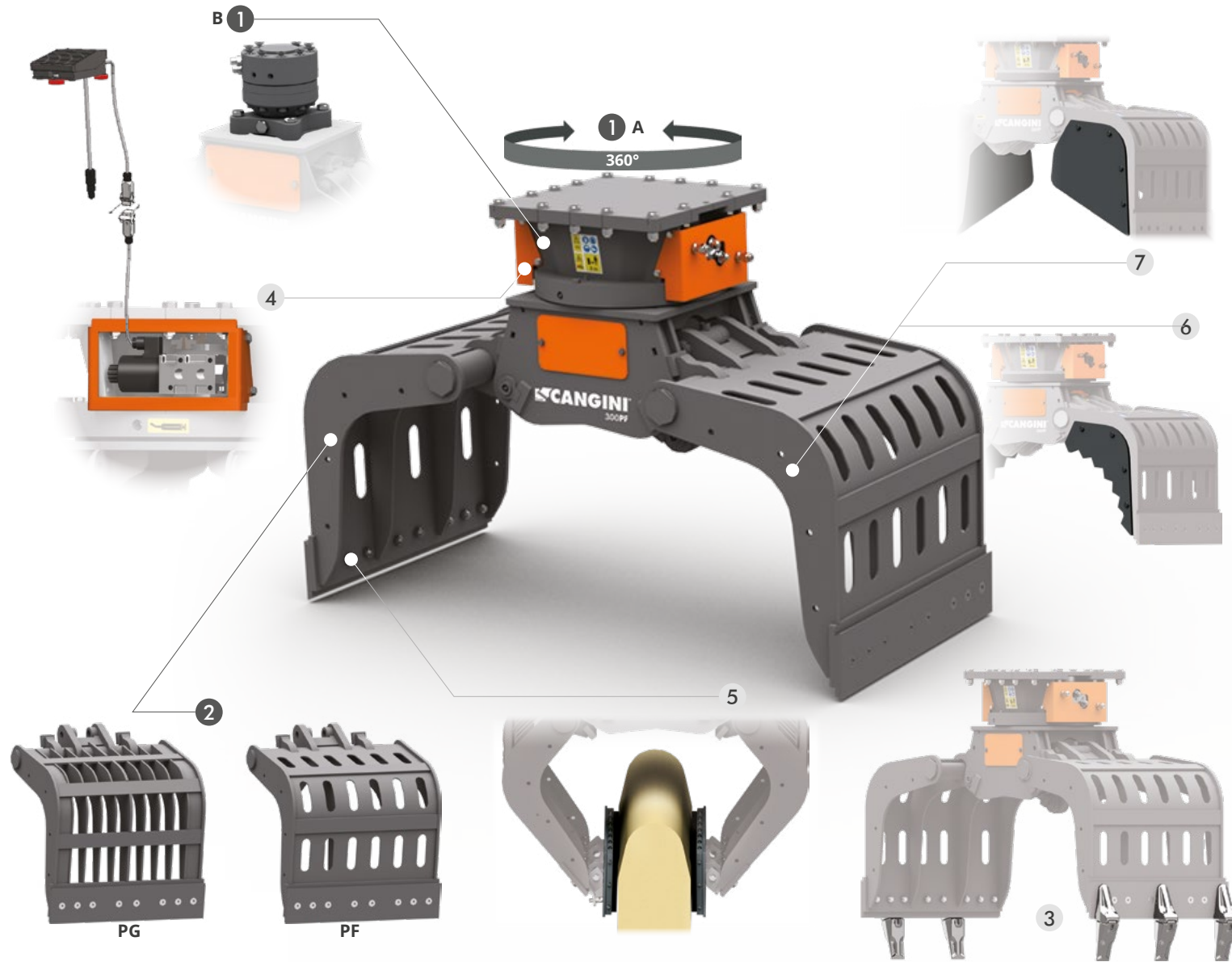
|  |             |         |          |           |           |           |           |           |             |            |            |            |
|--|-------------|---------|----------|-----------|-----------|-----------|-----------|-----------|-------------|------------|------------|------------|
|  | W/O COUPLER | KG (LB) | 93 (205) | 150 (331) | 203 (448) | 320 (705) | 380 (838) | 400 (882) | 5 50 (1213) | 590 (1301) | 630 (1389) | 645 (1422) |
|  |             | MOD.    | 100PF    | 150PF     | 200PF     | 250PF     | 300PF     | 300PG     | 450PF       | 450PG      | 550PF      | 550PG      |

|  |      |           |                    |            |            |            |            |            |            |            |            |            |
|--|------|-----------|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|  | MAX. | BAR (PSI) | 180 (2611)         | 220 (3191) | 245 (3553) | 275 (3989) | 350 (5076) | 350 (5076) | 350 (5076) | 350 (5076) | 350 (5076) | 350 (5076) |
|  |      |           | 25 (7)             | 25 (7)     | 25 (7)     | 60 (16)    | 60 (16)    | 60 (16)    | 60 (16)    | 60 (16)    | 60 (16)    | 60 (16)    |
|  |      |           | L/MIN<br>(GAL/MIN) |            |            |            |            |            |            |            |            |            |
|  |      |           |                    |            |            |            |            |            |            |            |            |            |

|  |      |           |                    |            |                    |                    |                    |                    |                    |                    |                    |                    |
|--|------|-----------|--------------------|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|  | MAX. | BAR (PSI) | 320 (4641)         | 320 (4641) | 250 (3626)         | 250 (3626)         | 250 (3626)         | 250 (3626)         | 250 (3626)         | 250 (3626)         | 250 (3626)         | 250 (3626)         |
|  |      |           | 22 (6)             | 22 (6)     | 15/20<br>(3,9/5,2) | 22/30<br>(5,8/7,9) | 22/30<br>(5,8/7,9) | 22/30<br>(5,8/7,9) | 22/30<br>(5,8/7,9) | 22/30<br>(5,8/7,9) | 22/30<br>(5,8/7,9) | 22/30<br>(5,8/7,9) |
|  |      |           | L/MIN<br>(GAL/MIN) |            |                    |                    |                    |                    |                    |                    |                    |                    |
|  |      |           |                    |            |                    |                    |                    |                    |                    |                    |                    |                    |

|  |    |       |       |       |       |       |       |       |       |       |       |
|--|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | N. | 100PF | 150PF | 200PF | 250PF | 300PF | 300PG | 450PF | 450PG | 550PF | 550PG |
|  |    | 5     | 5     | 5     | 5     | 5     | 5     | 7     | 7     | 7     | 7     |

|  |   |          |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|--|---|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|  | 3 | DC TEETH | DC 1<br>(KG 1,4) | DC 1<br>(KG 1,4) | DC 3<br>(KG 2,1) | DC 5<br>(KG 3,5) | DC 5<br>(KG 3,5) | DC 5<br>(KG 3,5) | DC 5<br>(KG 3,5) | DC 5<br>(KG 3,5) | DC 5<br>(KG 3,5) |
|--|---|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|



STANDARD

- 1 A HYDRAULIC ROTATION WITH SLEWING RING (EXCEPT THE 100PF AND 150PF MODELS)
- 1 B HYDRAULIC ROTATION WITH HYDRAULIC ROTATOR (ONLY FOR THE 100PF AND 150PF MODELS)

- 2 PG VERSION (HB400 MATERIALS) OR PF VERSION (HB400 MATERIALS)

OPTIONAL

- 3 DC TEETH
- 4 TWO PIPE KIT
- 5 CURB HANDLING KIT
- 6 TOOTHED SIDE CLOSING
- 7 SIDE CLOSING





PF/PG MULTIPURPOSE SELECTION GRAPPLE



EXCAVATOR

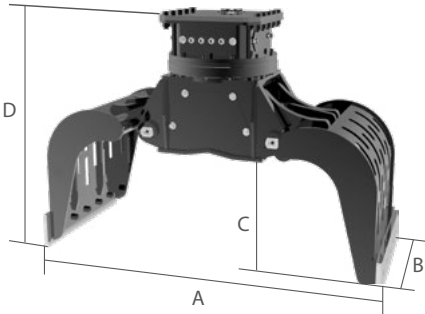


BACKHOE LOADER



NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

THE SORTING GRAPPLE IS DESIGNED FOR HANDLING, RECYCLING AND TO CARRY EVEN SMALL DEMOLITIONS OF DIFFERENT MATERIALS ,THANKS TO ITS STRONG STRUCTURE. CONCEIVED TO HANDLE VARIOUS MATERIALS RELIABLY AND SAFELY. ITS EXTRA STRENGTH IS PROVIDED BY ITS HB400 WEAR-RESISTANT STEEL BLADES. THE STANDARD 360° HYDRAULIC ROTATION ENSURES MAXIMUM EFFICIENCY AND A PRECISE RESULT.



|   |              |                                      |        |        |        |                                      |        |      |        |
|---|--------------|--------------------------------------|--------|--------|--------|--------------------------------------|--------|------|--------|
|   | TONS<br>(LB) | 14,00 - 18,00<br>(30864,7 - 39683,2) |        |        |        | 18,00 - 25,00<br>(39683,2 - 55115,6) |        |      |        |
|   |              | MOD.                                 | 1000PF | 1000PG |        | 1500PF                               | 1500PG |      |        |
| A | MM (IN)      | 1780                                 | (70)   | 1780   | (70)   | 1950                                 | (77)   | 1950 | (77)   |
| B | MM (IN)      | 800                                  | (31)   | 800    | (31)   | 1020                                 | (40)   | 1020 | (40)   |
| C | MM (IN)      | 570                                  | (22)   | 570    | (22)   | 675                                  | (27)   | 675  | (27)   |
| D | MM (IN)      | 1225                                 | (48)   | 1225   | (48)   | 1550                                 | (61)   | 1550 | (61)   |
|   | KG (LB)      | 1000                                 | (2205) | 1380   | (3042) | 1500                                 | (3307) | 2080 | (4585) |
|   | ROTATION     |                                      | 360°   | 360°   |        | 360°                                 | 360°   |      |        |

JAWS DRIVE CYLINDER

|      |                 |     |        |     |        |     |        |     |        |
|------|-----------------|-----|--------|-----|--------|-----|--------|-----|--------|
| MAX. | BAR (PSI)       | 300 | (4351) | 300 | (4351) | 300 | (4351) | 300 | (4351) |
| MAX. | L/MIN (GAL/MIN) | 50  | (13)   | 50  | (13)   | 75  | (20)   | 75  | (20)   |

ROTATION ENGINE

|      |                 |         |           |         |           |         |           |         |           |
|------|-----------------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| MAX. | BAR (PSI)       | 80      | (1160)    | 80      | (1160)    | 80      | (1160)    | 80      | (1160)    |
| MAX. | L/MIN (GAL/MIN) | 40 - 60 | (10 - 16) | 40 - 60 | (10 - 16) | 40 - 60 | (10 - 16) | 40 - 60 | (10 - 16) |

\*\* NB: ALL MODELS WILL BE SUPPLIED WITHOUT COUPLER



STANDARD

- 1 STANDARD CONFIGURATION (PF)
- 2 DEMOLITION CONFIGURATION (PG)
- 3 HB400 STEEL EDGE BLADES
- 4 GUARDS TO PROTECT CYLINDER FROM RUBBLE
- 5 BUILT-IN "RELIEF VALVE"
- 6 INTEGRAL 360° ROTATION

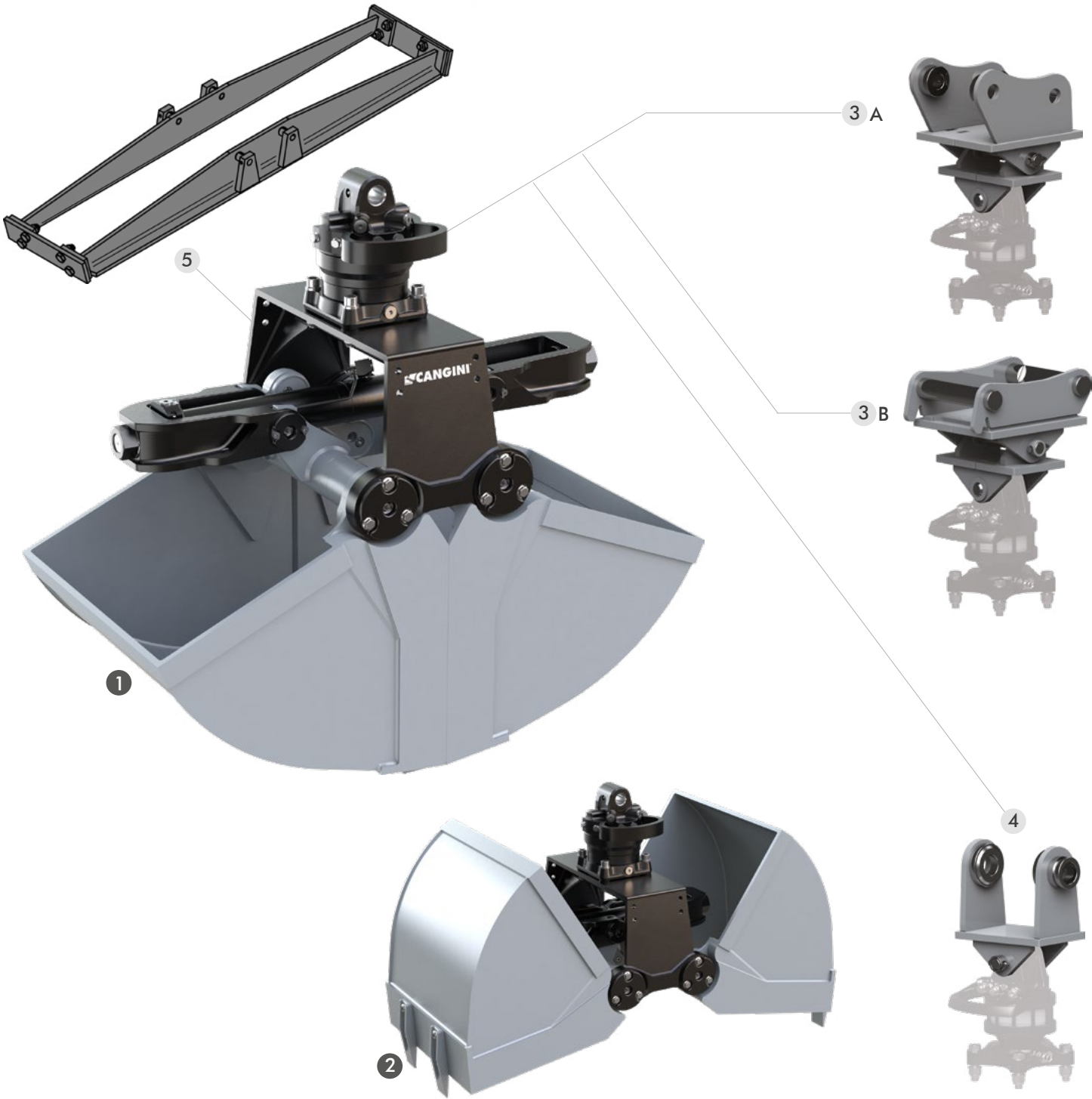




NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

THE CLAMSHELL BUCKET IS DESIGNED TO WITHSTAND WEAR, WITH CUTTING EDGES IN HB500 STEEL TO ENSURE A LONG WORKING LIFE. THIS ATTACHMENT IS ALSO IDEAL FOR HANDLING BULK MATERIALS AND FOR LOADING WASTE. SUITABLE FOR EXCAVATION AND FOR LOADING SOIL, SAND AND OTHER INERT MATERIALS. ITS COMPACT DESIGN GUARANTEES A HIGH LOAD CAPACITY, WITH EXCELLENT EXCAVATION CHARACTERISTICS PROVIDED BY HIGH CLOSING FORCES.

| MOD.         | C02H                      | C05H                       | C08H                      | C10H                        | C12VE                        |
|--------------|---------------------------|----------------------------|---------------------------|-----------------------------|------------------------------|
| TONS<br>(LB) | 1,0 (2.205) - 2,0 (4.409) | 3,0 (6.614) - 6,0 (13.228) | 4,0 (8818) - 9,0 (19.842) | 6,0 (13228) - 10,0 (22.046) | 9,0 (19.842) - 12,0 (26.455) |



STANDARD TECHNICAL FEATURES

- 1 CLAWS IN HB500 STEEL
- 2 DF TEETH

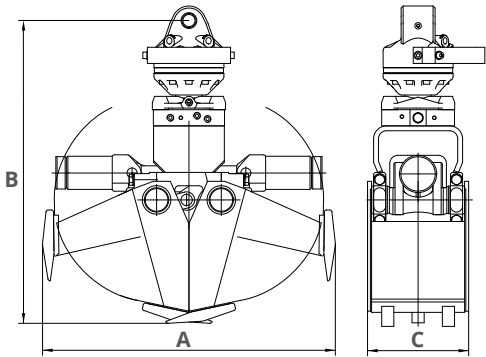
OPTIONAL

- 3 DOUBLE PIN COUPLING (A) OR ADAPTOR (B)
- 4 SINGLE PIN COUPLING
- 5 SCRAPER

IT IS A MECHANISM THAT CAN BE SCREWED TO THE CLAMSHELL BUCKET TO EASIER EMPTY THE SHELLS, ESPECIALLY WHEN WORKING IN STICKY SOILS. DURING THE OPENING PROCESS, THE SCRAPER PUSHES THE MATERIAL OUT OF THE SHELLS.



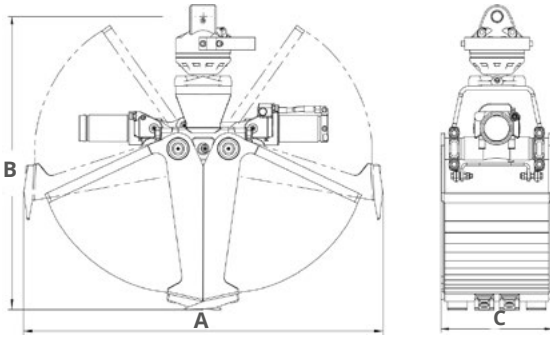
C02H MACHINE WEIGHT 1,0 - 2,0 t (2205 - 4409 lb)



| MOD. |         | C02H - 25   | C02H - 30   | C02H - 40   |
|------|---------|-------------|-------------|-------------|
| A    | MM (IN) | 725 (28,5)  | 725 (28,5)  | 725 (28,5)  |
| B    | MM (IN) | 750 (29,5)  | 750 (29,5)  | 750 (29,5)  |
| C    | MM (IN) | 250 (9,8)   | 300 (11,8)  | 400 (15,7)  |
|      | KG (LB) | 92 (203)    | 99 (218)    | 112 (247)   |
|      | N.      | 3           | 3           | 4           |
|      | KG (LB) | 1000 (2205) | 1000 (2205) | 1000 (2205) |
|      | L (GAL) | 25 (6)      | 30 (8)      | 45 (12)     |

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C05H MACHINE WEIGHT 3,0 - 6,0 t (6614 - 13228 lb)



| MOD. |         | C05H - 25   | C05H - 30   | C05H - 35   | C05H - 40   | C05H - 45   | C05H - 50   | C05H - 60   |
|------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A    | MM (IN) | 1090 (42,9) | 1090 (42,9) | 1090 (42,9) | 1090 (42,9) | 1090 (42,9) | 1090 (42,9) | 880 (34,6)  |
| B    | MM (IN) | 930 (36,6)  | 930 (36,6)  | 930 (36,6)  | 930 (36,6)  | 930 (36,6)  | 930 (36,6)  | 825 (32,4)  |
| C    | MM (IN) | 250 (9,8)   | 300 (11,8)  | 350 (13,7)  | 400 (15,7)  | 450 (17,7)  | 500 (19,6)  | 600 (23,6)  |
|      | KG (LB) | 140 (308)   | 150 (330)   | 160 (352)   | 165 (363)   | 170 (374)   | 180 (396)   | 175 (385)   |
|      | N.      | 3           | 3           | 4           | 4           | 4           | 4           | 5           |
|      | KG (LB) | 2000 (4400) | 2000 (4400) | 2000 (4400) | 2000 (4400) | 2000 (4400) | 2000 (4400) | 2000 (4400) |
|      | L (GAL) | 70 (18,4)   | 85 (22,4)   | 100 (26,4)  | 115 (30,3)  | 130 (34,4)  | 140 (36,9)  | 115 (30,3)  |

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|  |  |  |  |  |  |  |  |  |

\* weight of the tank excluding attachment

\* weight of the tank excluding attachment



C08H MACHINE WEIGHT 4,0 - 9,0 t (8818 - 19842 lb)

|          | MOD.            | C08H - 32   | C08H - 40   | C08H - 50   | C08H - 60   | C08H - 80   |
|----------|-----------------|-------------|-------------|-------------|-------------|-------------|
| <b>A</b> | MM (IN)         | 1260 (49,6) | 1260 (49,6) | 1260 (49,6) | 1260 (49,6) | 1260 (49,6) |
| <b>B</b> | MM (IN)         | 1060 (41,7) | 1060 (41,7) | 1060 (41,7) | 1060 (41,7) | 1060 (41,7) |
| <b>C</b> | MM (IN)         | 325 (12,7)  | 400 (15,7)  | 500 (19,6)  | 600 (23,6)  | 800 (31,4)  |
|          | KG (LB)         | 240 (528)   | 260 (572)   | 280 (616)   | 295 (649)   | 330 (726)   |
|          | N.              | 3           | 3           | 5           | 5           | 9           |
|          | KG (LB)         | 3000 (6600) | 3000 (6600) | 3000 (6600) | 3000 (6600) | 3000 (6600) |
|          | L (GAL)         | 115 (30,3)  | 145 (38,3)  | 185 (48,8)  | 220 (58,1)  | 300 (79,2)  |
|          |                 |             |             |             |             |             |
|          | L/MIN (GAL/MIN) | 90 (23,7)   | 90 (23,7)   | 90 (23,7)   | 90 (23,7)   | 90 (23,7)   |
|          | BAR (PSI)       | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  |
|          |                 |             |             |             |             |             |
|          | L/MIN (GAL/MIN) | 50 (13)     | 50 (13)     | 50 (13)     | 50 (13)     | 50 (13)     |
|          | BAR (PSI)       | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  |

\* weight of the tank excluding attachment

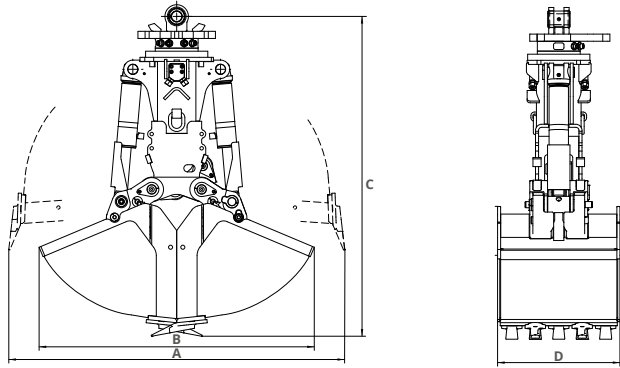
C10H MACHINE WEIGHT 6,0 - 10,0 t (13228 - 22046 lb)








|          | MOD.            | C10H - 40   | C10H - 50   | C10H - 65   | C10H - 80   | C10H - 100  | C10H - 120  |
|----------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>A</b> | MM (IN)         | 1425 (56,1) | 1425 (56,1) | 1425 (56,1) | 1425 (56,1) | 1425 (56,1) | 1425 (56,1) |
| <b>B</b> | MM (IN)         | 1150 (45,2) | 1150 (45,2) | 1150 (45,2) | 1150 (45,2) | 1150 (45,2) | 1150 (45,2) |
| <b>C</b> | MM (IN)         | 400 (15,7)  | 500 (19,6)  | 650 (25,5)  | 800 (31,4)  | 1000 (39,3) | 1200 (47,2) |
|          | KG (LB)         | 285 (627)   | 305 (671)   | 320 (704)   | 345 (759)   | 375 (825)   | 400 (880)   |
|          | N.              | 3           | 5           | 5           | 9           | 9           | 9           |
|          | KG (LB)         | 3000 (6600) | 3000 (6600) | 3000 (6600) | 3000 (6600) | 3000 (6600) | 3000 (6600) |
|          | L (GAL)         | 170 (44,9)  | 220 (58,1)  | 290 (58,1)  | 355 (93,7)  | 450 (118,8) | 540 (142,6) |
|          |                 |             |             |             |             |             |             |
|          | L/MIN (GAL/MIN) | 120 (31,7)  | 120 (31,7)  | 120 (31,7)  | 120 (31,7)  | 120 (31,7)  | 120 (31,7)  |
|          | BAR (PSI)       | 320 (4640)  | 320 (4640)  | 320 (4640)  | 320 (4640)  | 320 (4640)  | 320 (4640)  |
|          |                 |             |             |             |             |             |             |
|          | L/MIN (GAL/MIN) | 50 (13)     | 50 (13)     | 50 (13)     | 50 (13)     | 50 (13)     | 50 (13)     |
|          | BAR (PSI)       | 320 (4640)  | 320 (4640)  | 320 (4640)  | 320 (4640)  | 320 (4640)  | 320 (4640)  |

\* weight of the tank excluding attachment



C12VE MACHINE WEIGHT 9,0 - 12,0 t (19842 - 26455lb)



|  |                 |             |             |             |             |             |             |
|--|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|
|    | MOD.            | C12VE -32   | C12VE -40   | C12VE -50   | C12VE -60   | C12VE -70   | C12VE -80   |
|  | A MM (IN)       | 1645 (64,7) | 1645 (64,7) | 1645 (64,7) | 1645 (64,7) | 1645 (64,7) | 1645 (64,7) |
|    | B MM (IN)       | 1350 (53,1) | 1350 (53,1) | 1350 (53,1) | 1350 (53,1) | 1350 (53,1) | 1350 (53,1) |
|  | C MM (IN)       | 1570 (61,8) | 1570 (61,8) | 1570 (61,8) | 1570 (61,8) | 1570 (61,8) | 1570 (61,8) |
|    | D MM (IN)       | 325 (12,7)  | 400 (74,1)  | 500 (19,6)  | 600 (23,6)  | 700 (27,5)  | 800 (31,4)  |
|  | KG (LB)         | 475 (1045)  | 485 (1067)  | 500 (1100)  | 515 (1133)  | 525 (1155)  | 535 (1177)  |
|    | N.              | 3           | 3           | 5           | 5           | 7           | 9           |
|  | KG (LB)         | 4500 (9900) | 4500 (9900) | 4500 (9900) | 4500 (9900) | 4500 (9900) | 4500 (9900) |
|  | L (GAL)         | 125 (33)    | 160 (42,2)  | 200 (52,8)  | 245 (64,7)  | 285 (75,2)  | 330 (87,1)  |
|  | L/MIN (GAL/MIN) | 120 (31,7)  | 120 (31,7)  | 120 (31,7)  | 120 (31,7)  | 120 (31,7)  | 120 (31,7)  |
|  | BAR (PSI)       | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  |
|  | L/MIN (GAL/MIN) | 50 (13)     | 50 (13)     | 50 (13)     | 50 (13)     | 50 (13)     | 50 (13)     |
|  | BAR (PSI)       | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  |
|  | BAR (PSI)       | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  | 320 (4641)  |

INTERCHANGEABLE CLAWS FOR C12VE

CLAMSHELL BUCKET

|  |           |               |                  |                         |                |            |                          |                          |                        |
|--|-----------|---------------|------------------|-------------------------|----------------|------------|--------------------------|--------------------------|------------------------|
|  | MOD.      | WIDTH (MM IN) | APERTURE (MM IN) | COMPLETE HEIGHT (MM IN) | VOLUME (L GAL) | TEETH (N.) | WEIGHT OF SHELLS (KG LB) | LOADING CAPACITY (KG LB) | CLOSING FORCE (KN LBF) |
|  | C12VE-32S | 325 (12,7)    | 1535 (60,4)      | 1570 (61,8)             | 125 (33)       | 3          | 130 (286)                | 4500 (9900)              | 39 (8580)              |
|  | C12VE-40S | 400 (15,7)    | 1535 (60,4)      | 1570 (61,8)             | 160 (42,2)     | 3          | 140 (308)                | 4500 (9900)              | 39 (8580)              |
|  | C12VE-50S | 500 (19,6)    | 1535 (60,4)      | 1570 (61,8)             | 200 (52,8)     | 5          | 165 (363)                | 4500 (9900)              | 39 (8580)              |
|  | C12VE-60S | 600 (23,6)    | 1535 (60,4)      | 1570 (61,8)             | 245 (64,7)     | 5          | 180 (396)                | 4500 (9900)              | 39 (8580)              |
|  | C12VE-70S | 700 (27,5)    | 1535 (60,4)      | 1570 (61,8)             | 285 (64,7)     | 7          | 205 (451)                | 4500 (9900)              | 39 (8580)              |
|  | C12VE-80S | 800 (31,4)    | 1535 (60,4)      | 1570 (61,8)             | 330 (72,5)     | 9          | 225 (495)                | 4500 (9900)              | 39 (8580)              |

\* weight of the tank excluding attachment

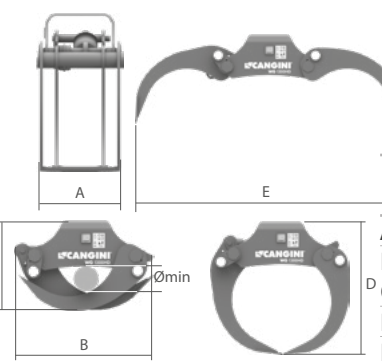







\* weight of the tank excluding attachment





NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

|   |             | THE LOG GRAPPLE CAN BE EQUIPPED WITH 360° HYDRAULIC ROTATION, PARTS SUBJECT TO GREATER WEAR ARE MADE OF DOMEX 700. STANDARD EQUIPMENT INCLUDES A BLOCK VALVE ON THE CLOSING CYLINDER. |                          |                          |                          |                           |                            |                            |                             |                                |                          |                          |                 |
|--|-------------|---|--------------------------|--------------------------|--------------------------|---------------------------|----------------------------|----------------------------|-----------------------------|--------------------------------|--------------------------|--------------------------|-----------------|
|  |             | TONS<br>(LB)  | 1,2 - 1,8<br>(2646-3968) | 1,8 - 3,5<br>(3968-7716) | 3,5 - 4,0<br>(7716-8818) | 4,0 - 5,0<br>(8818-11023) | 5,0 - 7,0<br>(11023-15432) | 7,0 - 8,0<br>(15432-17637) | 8,0 - 10,0<br>(17637-22046) | 10,0 - 12,0<br>(22046 - 26455) | 120-150<br>(26455-33069) | 150-180<br>(33069-39683) |                 |
|  |             | MOD.  | WG<br>1000               | WG<br>1100               | WG<br>1300               | WG<br>1300HD              | WG<br>1500                 | WG<br>1750                 | WG<br>1650                  | WG<br>1800                     | WG<br>2000               | WG<br>1800HD             | WG<br>2000HD    |
| A  | MM (IN)     | 330 (13)  | 395 (16)                 | 425 (17)                 | 425 (17)                 | 490 (19)                  | 500 (20)                   | 514 (20)                   | 582 (23)                    | 582 (23)                       | 630 (25)                 | 630 (25)                 |                 |
| B  | MM (IN)     | 610 (24)  | 655 (26)                 | 735 (29)                 | 735 (29)                 | 815 (32)                  | 960 (38)                   | 1030 (41)                  | 1180 (46)                   | 1225 (48)                      | 1180 (46)                | 1225 (48)                |                 |
| C  | MM (IN)     | 410 (16)  | 440 (17)                 | 495 (19)                 | 495 (19)                 | 580 (23)                  | 630 (25)                   | 600 (24)                   | 680 (27)                    | 730 (29)                       | 680 (27)                 | 730 (29)                 |                 |
| D  | MM (IN)     | 650 (26)  | 695 (27)                 | 790 (31)                 | 790 (31)                 | 850 (33)                  | 985 (39)                   | 935 (37)                   | 1005 (40)                   | 1100 (43)                      | 1005 (40)                | 1100 (43)                |                 |
| E  | MM (IN)     | 1090 (43)   | 1180 (46)                | 1400 (55)                | 1400 (55)                | 1610 (63)                 | 1740 (69)                  | 1650 (65)                  | 1820 (72)                   | 2010 (79)                      | 1820 (72)                | 2010 (79)                |                 |
|  | W/O COUPLER | KG (LB)   | 48 (106)                 | 85 (187)                 | 118 (260)                | 131 (289)                 | 196 (432)                  | 265 (584)                  | 280 (617)                   | 400 (882)                      | 450 (992)                | 440 (970)                | 505 (1113)      |
|  | MIN.        | MM (IN)   | 70 (2,8)                 | 80 (3,1)                 | 75 (3)                   | 75 (3)                    | 95 (3,7)                   | 120 (4,7)                  | 100 (3,9)                   | 120 (4,7)                      | 150 (5,9)                | 120 (4,7)                | 150 (5,9)       |
|  | MAX.        | L/MIN<br>(GALL/MIN)   | 50 (13)                  | 50 (13)                  | 50 (13)                  | 50 (13)                   | 50 (13)                    | 50 (13)                    | 50 (13)                     | 50 (13)                        | 50 (13)                  | 50 (13)                  | 50 (13)         |
|  | MAX.        | KG<br>(LB)  | 500<br>(1102)            | 1900<br>(4189)           | 2100<br>(4630)           | 2100<br>(4630)            | 3100<br>(6834)             | 3500<br>(7716)             | 4000<br>(8818)              | 6000<br>(13228)                | 6000<br>(13228)          | 7000<br>(15432)          | 7000<br>(15432) |
|  | MAX.        | BAR (PSI)   | 100<br>(1450)            | 200<br>(2901)            | 200<br>(2901)            | 200<br>(2901)             | 200<br>(2901)              | 200<br>(2901)              | 230<br>(3336)               | 250<br>(3626)                  | 250<br>(3626)            | 250<br>(3626)            | 250<br>(3626)   |



OPTIONAL

1 DOUBLE PIN HITCH (A) OR ADAPTER (B)

2 SINGLE PIN HITCH

3 TWO PIPE KIT

IT ENABLES THEIR ROTATION AND THE JAWS' OPENING AND CLOSING FUNCTIONS EVEN ON MACHINES EQUIPPED WITH A SINGLE HYDRAULIC DOUBLE-EFFECT LINE. CONTROL KIT WITH MAGNETS TO EASILY PUT IT INSIDE THE CAB.

4 BASIC ROTOR

360° SHAFT ROTOR TO DRIVE THE GRABS.

5 FLANGED ROTOR

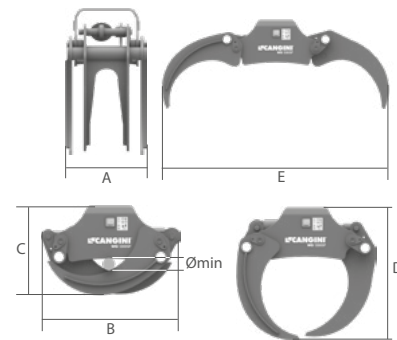
360° HYDRAULIC FLANGED ROTOR IDEAL FOR HEAVY DUTY JOBS.





NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

ROTATION OF 360°, THIS FUNCTION IS LINKED TO THE CHOICE OF THE HYDRAULIC ENGINE - ASSISTS THE OPERATOR IN THE LOGS' GRIP PHASE, SPEEDING UP THIS OPERATION AND MAKING HIS WORK EFFECTIVE. PARTS SUBJECT TO WEAR ARE MADE OF DOMEX 700. IT'S PARTICULARLY SUITED FOR THE HANDLING OF CUT WOOD AND PRUNINGS. IT'S STANDARD EQUIPPED WITH A BLOCK VALVE ON THE CLAMP-CLOSING CYLINDER.



|   | TONS<br>(LB)        | 1,8 - 3,5<br>(3968-7716) | 3,5 - 4,0<br>(7716-8818) | 4,0 - 5,0<br>(8818-11023) | 5,0 - 7,0<br>(11023-15432) | 7,0 - 8,0<br>(15432-17637) | 8,0 - 10,0<br>(17637-22046) | 10,0 - 12,0<br>(22046 - 26455) | 12,0 - 16,0<br>(26455-35274) |
|---|---------------------|--------------------------|--------------------------|---------------------------|----------------------------|----------------------------|-----------------------------|--------------------------------|------------------------------|
|   | MOD.                | WG 1100SPWG              | 1300SPWG                 | 1300SPWG                  | 1500SPWG                   | 1650SPWG                   | 1800SPWG                    | 1800SPWG                       | 2000SPWG                     |
| A | MM (IN)             | 425 (16,7)               | 450 (18)                 | 450 (18)                  | 530 (21)                   | 530 (21)                   | 640 (25)                    | 640 (25)                       | 640 (25)                     |
| B | MM (IN)             | 610 (24)                 | 735 (29)                 | 735 (29)                  | 815 (32)                   | 1030 (41)                  | 1180 (46)                   | 1180 (46)                      | 1225 (48)                    |
| C | MM (IN)             | 440 (17)                 | 495 (19)                 | 495 (19)                  | 580 (23)                   | 590 (23)                   | 680 (27)                    | 680 (27)                       | 730 (29)                     |
| D | MM (IN)             | 685 (27)                 | 770 (30)                 | 770 (30)                  | 830 (33)                   | 980 (38)                   | 985 (39)                    | 985 (39)                       | 1060 (42)                    |
| E | MM (IN)             | 1210 (48)                | 1430 (56)                | 1430 (56)                 | 1650 (65)                  | 1650 (65)                  | 1845 (73)                   | 1845 (73)                      | 2020 (80)                    |
|   | KG (LB)             | 100 (221)                | 140 (309)                | 140 (309)                 | 225 (496)                  | 300 (661)                  | 440 (970)                   | 440 (970)                      | 495 (1091)                   |
|   | MM (IN)             | 80 (3,1)                 | 75 (3)                   | 75 (3)                    | 95 (3,7)                   | 100 (3,9)                  | 120 (4,7)                   | 120 (4,7)                      | 150 (5,9)                    |
|   | L/MIN<br>(GALL/MIN) | 50 (13)                  | 50 (13)                  | 50 (13)                   | 50 (13)                    | 50 (13)                    | 50 (13)                     | 50 (13)                        | 50 (13)                      |
|   | KG<br>(LB)          | 1900 (4189)              | 2100 (4630)              | 2100 (4630)               | 3100 (6834)                | 4000 (13228)               | 6000 (13228)                | 6000 (13228)                   | 6000 (13228)                 |
|   | BAR (PSI)           | 200 (2901)               | 200 (2901)               | 200 (2901)                | 200 (2901)                 | 230 (3336)                 | 250 (3626)                  | 250 (3626)                     | 250 (3626)                   |



OPTIONAL

- 1 DOUBLE PIN HITCH (A) OR ADAPTER (B)
- 2 SINGLE PIN HITCH
- 3 TWO PIPE KIT  
IT ENABLES THEIR ROTATION AND THE JAWS' OPENING AND CLOSING FUNCTIONS ON MACHINES EQUIPPED WITH A SINGLE HYDRAULIC DOUBLE-EFFECT LINE.
- 4 BASIC ROTOR  
SHAFT ROTOR TO DRIVE THE GRABS.
- 5 FLANGED ROTOR  
FLANGED ROTOR IDEAL FOR HEAVY DUTY JOBS.

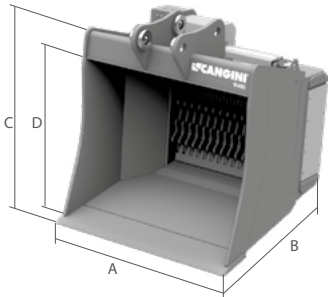








PATENTED  
HB400






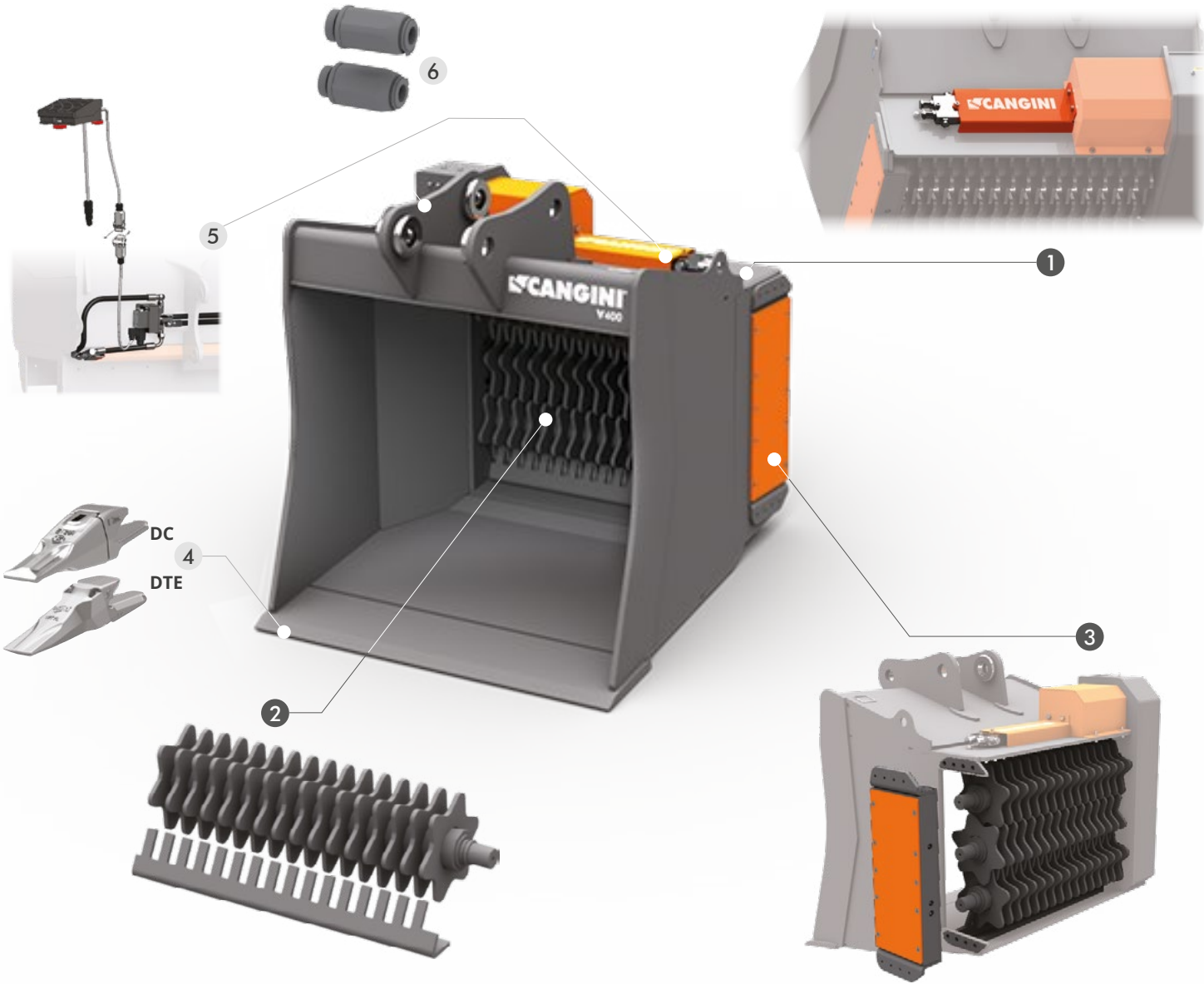
NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

IDEAL BOTH FOR THE GRADING OF BULK MATERIALS FROM DEMOLITION OR DIGGING WORKS AND THE MIXING OF TERRAIN AND PEAT. THE SCREENING OPERATION IS CARRIED OUT BY AN HYDRAULIC SIEVE WITH ROTATING HB400 KNIVES. THE MATERIAL THICKNESS CAN VARY FROM 0 TO 20 MM (0 - 0,8 IN) AND 0 TO 35 MM (0 - 1,4 IN) WITH A STANDARD EQUIPMENT. CUSTOMERIZED SHAFTS CAN ALSO BE SUPPLIED.



|  |             |                 |           |               |           |               |           |               |           |               |
|--|-------------|-----------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|
|  | W/O COUPLER | KG (LB)         | 240       | (529)         | 310       | (683)         | 520       | (1146)        | 750       | (1653)        |
|  |             | KG (LB)         | 430       | (948)         | 600       | (1323)        | 1000      | (2205)        | 1410      | (3108)        |
|  |             | MM (IN)         | 0/20-0/35 | (0/0,8-0/1,4) | 0/20-0/35 | (0/0,8-0/1,4) | 0/20-0/35 | (0/0,8-0/1,4) | 0/20-0/35 | (0/0,8-0/1,4) |
|  | MIN. - MAX. | L/MIN (GAL/MIN) | 40/70     | (11/19)       | 40/70     | (11/19)       | 60/90     | (16/24)       | 80/130    | (21/34)       |
|  |             | N.              | 2         |               | 3         |               | 3         |               | 3         |               |
|  |             | L (GAL)         | 125       | (33)          | 195       | (51,5)        | 320       | (84,5)        | 440       | (116,2)       |

|  |  |           |                    |                    |                    |                    |
|--|--|-----------|--------------------|--------------------|--------------------|--------------------|
|  |  |           | V400               | V600               | V1000              | V1200              |
|  | N.   | 4         |                    |                    |                    |                    |
|  |  |           |                    |                    |                    |                    |
| 4  |  | DC TEETH  | DC 3<br>(KG 2,1)   | DC 3<br>(KG 2,1)   | DC 6<br>(KG 4,0)   | DC 6<br>(KG 4,0)   |
| 4  |  | DTE TEETH | DTE 13<br>(KG 1,7) | DTE 17<br>(KG 3,0) | DTE 17<br>(KG 3,0) | DTE 17<br>(KG 3,0) |



STANDARD

- 1 SAFETY VALVE

IT PROTECTS THE ENGINE AGAINST THE PRESSURE PEAKS OCCURRING DURING THE WORKING CYCLES.
- 2 SHAFT SYSTEM

ALL KNIVES ARE MADE OF HB400. DIFFERENT SHAFT CONFIGURATIONS REALIZED UPON REQUEST.
- 3 PATENTED SHAFT REPLACEMENT SYSTEM

THANKS TO THE PATENTED SYSTEM, IT IS POSSIBLE TO REPLACE SHAFTS RAPIDLY AND MODIFY THE SIEVED MATERIAL SIZE, WITHOUT INTERVENING ON TRANSMISSION.

OPTIONAL

- 4 DC TEETH DTE TEETH
- 5 FLOW-REVERSAL VALVE KIT

THIS VALVE ENABLES TO MAKE THE HYDRAULIC FLOW BI-DIRECTIONAL AND USE THE SCREENING BUCKET EVEN WITH MACHINES HAVING A MONO-DIRECTIONAL SYSTEM.
- 6 FLOWRATE REDUCERS

FLOWRATE REDUCERS. ADVISED FOR MACHINES WITH OILFLOW HIGHER THAN 70 L/MIN.





VMS MULTISCREENING BUCKET  
FOR EXCAVATOR



PATENTED

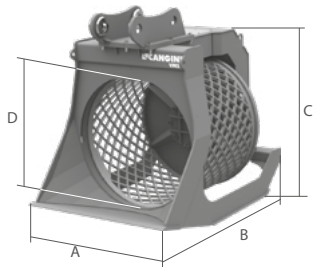


HB400



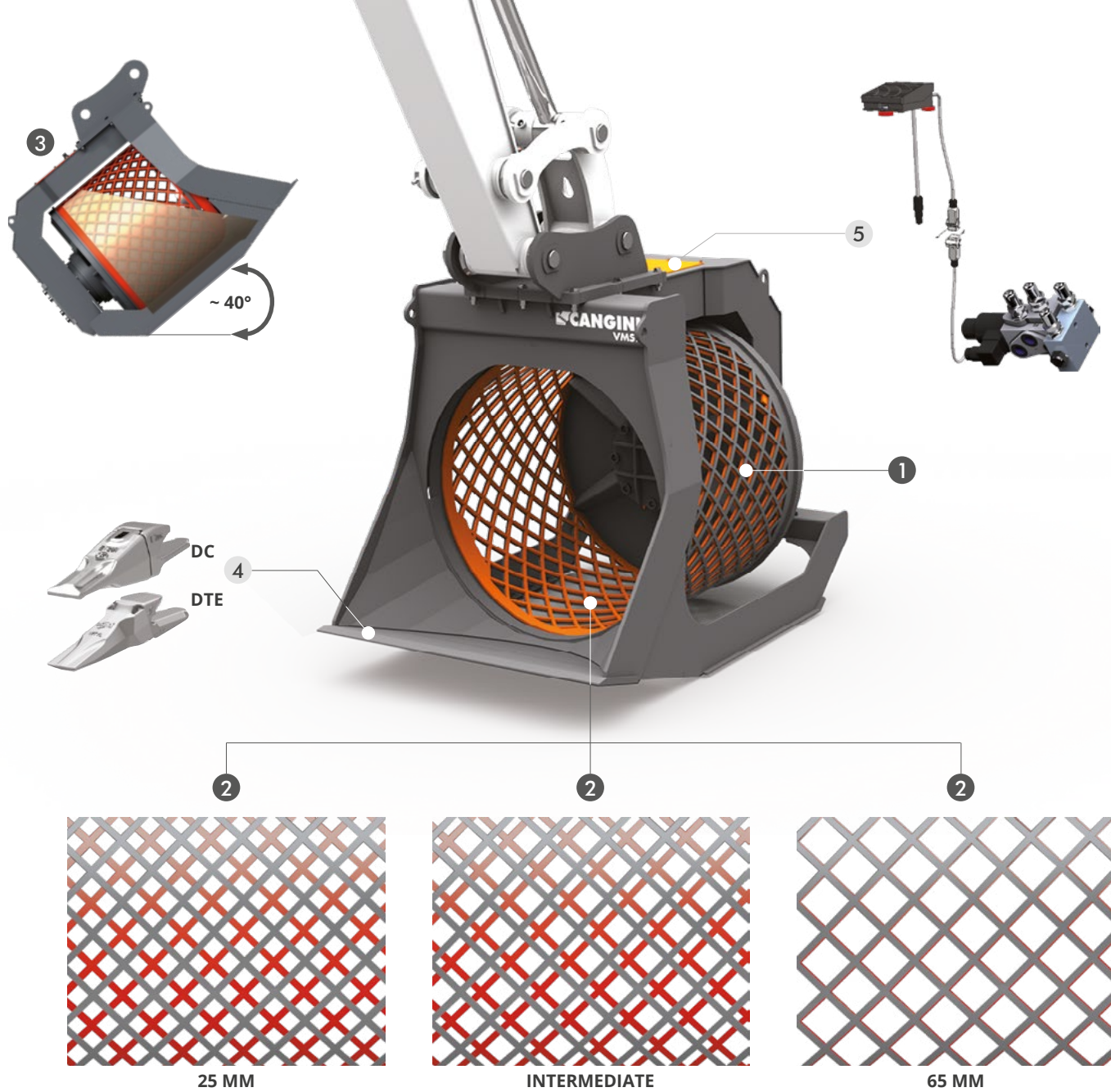
NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

THE MULTISCREENING BUCKET WITH THE NEW ROTARY DOUBLE DRUM CONCEPT FOR MACHINES UP TO 35 TONS (7716 LB) IS SUITABLE FOR SELECTION DUTIES ON TURNED SOILS AND RESULTING MATERIALS. THE MATERIAL SIZE CHANGE, FROM 25 TO 65 MM, IS CONTROLLED DIRECTLY AND HYDRAULICALLY FROM THE CAB WITHOUT REPLACING ANY MECHANICAL PART THUS REDUCING THE WORK TIMES CONSIDERABLY.



|             | TONS<br>(LB)    | 5,0 - 7,5<br>(11023-16535) | 7,5 - 10,0<br>(16535-22046) | 10,0 - 14,0<br>(22046-30865) | 14 - 25,0<br>(30865-5511) | 25,0 - 35,0<br>(5511-7716) |
|-------------|-----------------|----------------------------|-----------------------------|------------------------------|---------------------------|----------------------------|
|             | MOD.            | VMS7                       | VMS10                       | VMS14                        | VMS20                     | VMS30                      |
| A           | MM (IN)         | 800 (31)                   | 900 (35)                    | 1000 (39)                    | 1250 (49)                 | 1800 (71)                  |
| B           | MM (IN)         | 1200 (47)                  | 1400 (55)                   | 1550 (61)                    | 1800 (71)                 | 2300 (90)                  |
| C           | MM (IN)         | 930 (37)                   | 1000 (39)                   | 1120 (44)                    | 1500 (59)                 | 1950 (77)                  |
| D           | MM (IN)         | 650 (26)                   | 760 (30)                    | 870 (34)                     | 1124 (44)                 | 1550 (61)                  |
| W/O COUPLER | KG (LB)         | 372 (820)                  | 434 (957)                   | 640 (1411)                   | 1092 (2407)               | 2300 (5071)                |
| OPERATING   | KG (LB)         | 570 (1257)                 | 770 (1698)                  | 1100 (2425)                  | 2235 (4927)               | 4990 (1101)                |
| MIN.        | MM (IN)         | 25 (1)                     | 25 (1)                      | 25 (1)                       | 25 (1)                    | 25 (1)                     |
| MAX.        | MM (IN)         | 60 (2,4)                   | 60 (2,4)                    | 60 (2,4)                     | 65 (2,6)                  | 65 (2,6)                   |
| MIN.        | L/MIN (GAL/MIN) | 10 (2,6)                   | 10 (2,6)                    | 25 (7)                       | 30 (7,9)                  | 30 (7,9)                   |
| MAX.        | L/MIN (GAL/MIN) | 80 (21)                    | 80 (21)                     | 150 (39)                     | 150 (39)                  | 150 (39)                   |
| MAX.        | BAR (PSI)       | 350 (5076)                 | 350 (5076)                  | 350 (5076)                   | 350 (5076)                | 350 (5076)                 |
| L (GAL)     |                 | 180 (47,5)                 | 290 (76,6)                  | 420 (110,9)                  | 980 (259)                 | 2390 (631,4)               |

|              | VMS7               | VMS10              | VMS14              | VMS20              | VMS30              |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| N.           | 4                  | 4                  | 5                  | 5                  | 6                  |
| 4  DC TEETH  | DC 3<br>(KG 2,1)   | DC 6<br>(KG 4,0)   | DC 6<br>(KG 4,0)   | DC 11<br>(KG 7,7)  | DC 13<br>(KG 13,0) |
| 4  DTE TEETH | DTE 17<br>(KG 3,0) | DTE 17<br>(KG 3,0) | DTE 17<br>(KG 3,0) | DTE 19<br>(KG 6,0) | DTE 23<br>(KG 7,5) |



STANDARD

1 HB400 DRUMS

THE DRUMS CAN AFFORD HIGH WORK RATES THANKS TO THEIR HIGHLY RESISTANT MATERIAL THAT EXTENDS THEIR USEFUL LIFE.

2 AUTOMATIC SCREENING SYSTEM

THE NEW ROTARY DOUBLE DRUM CONCEPT WITH HYDRAULIC CONTROL FROM THE CAB ALLOWS TO SELECT THE MATERIAL SIZE, FROM 25 TO 60 MM (1 - 2,4 IN) AND UP TO 65 MM (2,5 IN) FOR THE VMS20-VMS30, WITHOUT STOPPING THE WORK CYCLE.

3 OPERATING LOAD

OPTIONAL

4 DC TEETH DTE TEETH

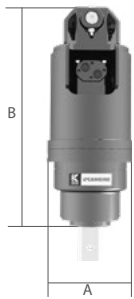
5 6-WAY SOLENOID VALVE KIT



IT ALLOWS BOTH THE ROTATING AND THE HYDRAULIC SLIDING MOVEMENTS OF THE SIEVES ON MACHINES WITH SINGLE AND DOUBLE-EFFECT LINE. CONTROL KIT WITH MAGNETS TO EASILY PUT IT INSIDE THE CAB.

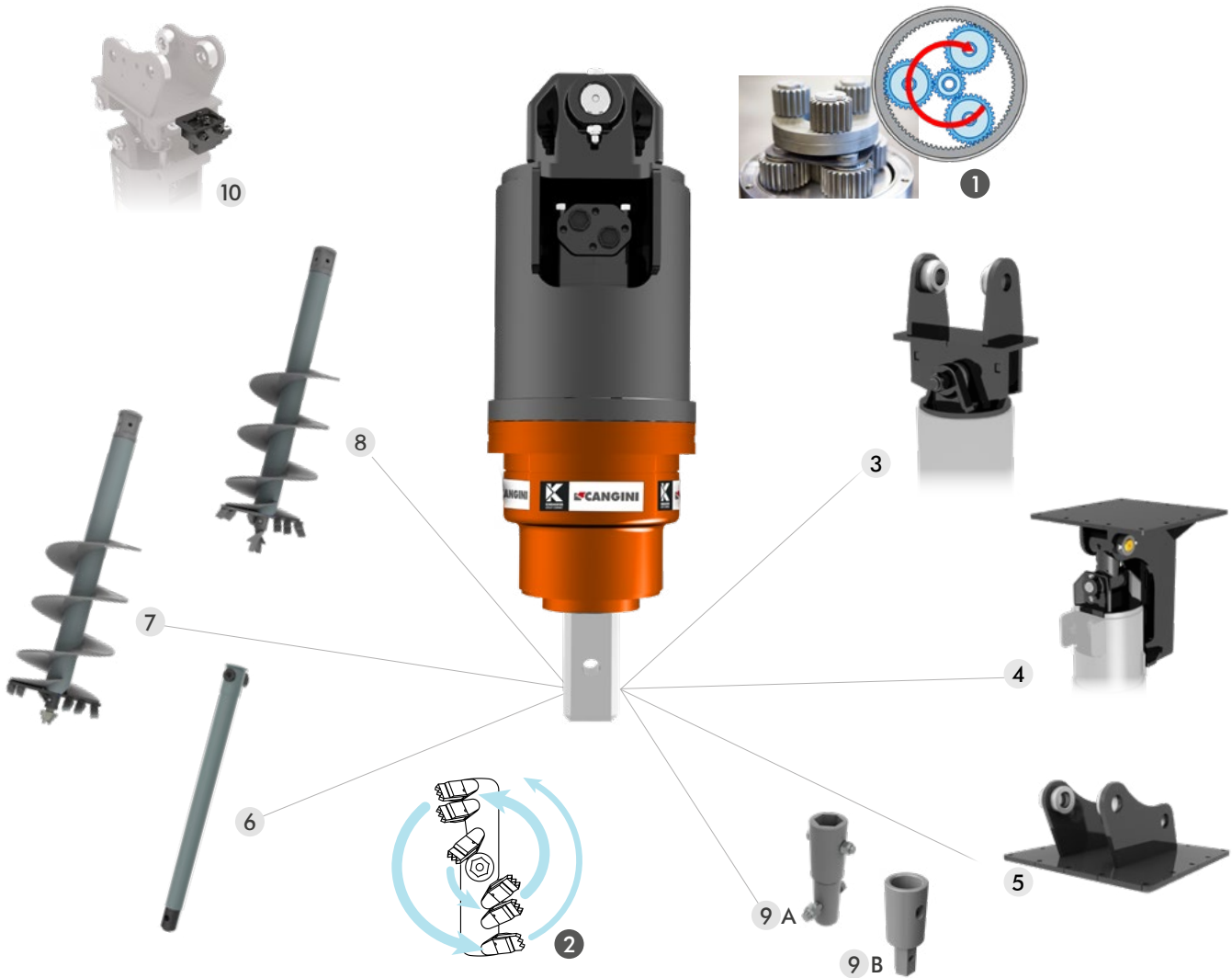




THE ATC MODEL AUGER IS BUILT IN HIGH QUALITY STEEL AND DESIGNED FOR EFFECTIVE, RAPID BORING THANKS TO AUGER LENGTH OPTIMISED IN RELATION TO ITS DIAMETER. THE CONSTANT SPIRAL CUTTING ENABLES THE TEETH TO BE PLACED AT ANGLES TO OPTIMISE DIGGING AND THUS DIRECT SPOIL TOWARDS THE MIDDLE OF THE AUGER, WHERE IT WILL BE THOROUGHLY CRUSHED TO AVOID ANY CLOGGING. WITH A VARIETY OF COMBINATIONS, AUGERS ARE VERSATILE AND CAN BE ADAPTED FOR SOFT, ROCKY, MIXED AND EVEN FROZEN GROUND. THE AUGER IS SUPPLIED COMPLETE WITH TWO-HOSE KIT.



|  | TONS (LB)        | 1,0 - 2,0<br>(2205 - 4409) | 1,5 - 3,0<br>(3307 - 6614) | 2,5 - 4,5<br>(5512 - 9921) | 4,0 - 6,0<br>(8818 - 13228) | 5,5 - 10,0<br>(121254 - 22046) | 10,0 - 15,0<br>(22046 - 33069) | 15,0 - 22,0<br>(33069 - 48502) |
|--|------------------|----------------------------|----------------------------|----------------------------|-----------------------------|--------------------------------|--------------------------------|--------------------------------|
|  | MOD.             | ATC150                     | ATC250                     | ATC350                     | AT550                       | AT1000                         | AT1500                         | AT2500                         |
|  | A                | MM (IN)                    | 200 (8)                    | 200 (8)                    | 245 (10)                    | 270 (10,6)                     | 290 (11,4)                     | 345 (13,5)                     |
|  | B                | MM (IN)                    | 690 (8)                    | 690 (8)                    | 775 (30,5)                  | 905 (35,6)                     | 1025 (40,3)                    | 1250 (49,2)                    |
|  | BIT COUPLING     | MM (IN)                    | Ø65 (2,5)                  | Ø65 (2,5)                  | Ø65 (2,5)                   | SQUARE 75 MM (2,9)             | SQUARE 75 MM (2,9)             | SQUARE 75 MM (2,9)             |
|  | WITHOUT COUPLING | KG (LB)                    | 65 (143)                   | 66 (145)                   | 98 (216)                    | 140 (309)                      | 230 (507)                      | 355 (783)                      |
|  | BIT ROTATION     | RPM                        | 44-98                      | 36-87                      | 42-90                       | 30-87                          | 27-58                          | 12-26                          |
|  | MINIMUM - MAX    | L/MIN (GAL/MIN)            | 20-45 (5,2 - 11,8)         | 27-65 (7,1 - 17,2)         | 40-85 (10,5 - 22,4)         | 40-115 (10,5 - 30,3)           | 70-150 (10,5 - 30,3)           | 80-170 (21,1 - 44,9)           |
|  | MAX              | BAR (PSI)                  | 205 (2973)                 | 240 (3480,9)               | 240 (3480,9)                | 260 (3770,9)                   | 260 (3770,9)                   | 240 (3480,9)                   |
|  | MAX TORQUE       | N/M (FT/LBS)               | 1500 (1106,3)              | 2500 (1843,9)              | 3600 (2655,2)               | 5500 (4056,5)                  | 10600 (7818,1)                 | 15000 (11063,4)                |
|  | AUGER BIT LENGTH | MM (IN)                    | 1200 (47,2)                | 1200 (47,2)                | 1200 (47,2)                 | 1500 (59)                      | 1800 (70)                      | 1800 (70)                      |
|  | AUGER BIT CLASS  |                            | S4                         | S4                         | S4                          | S5                             | S6                             | S6                             |



STANDARD TECHNICAL FEATURES

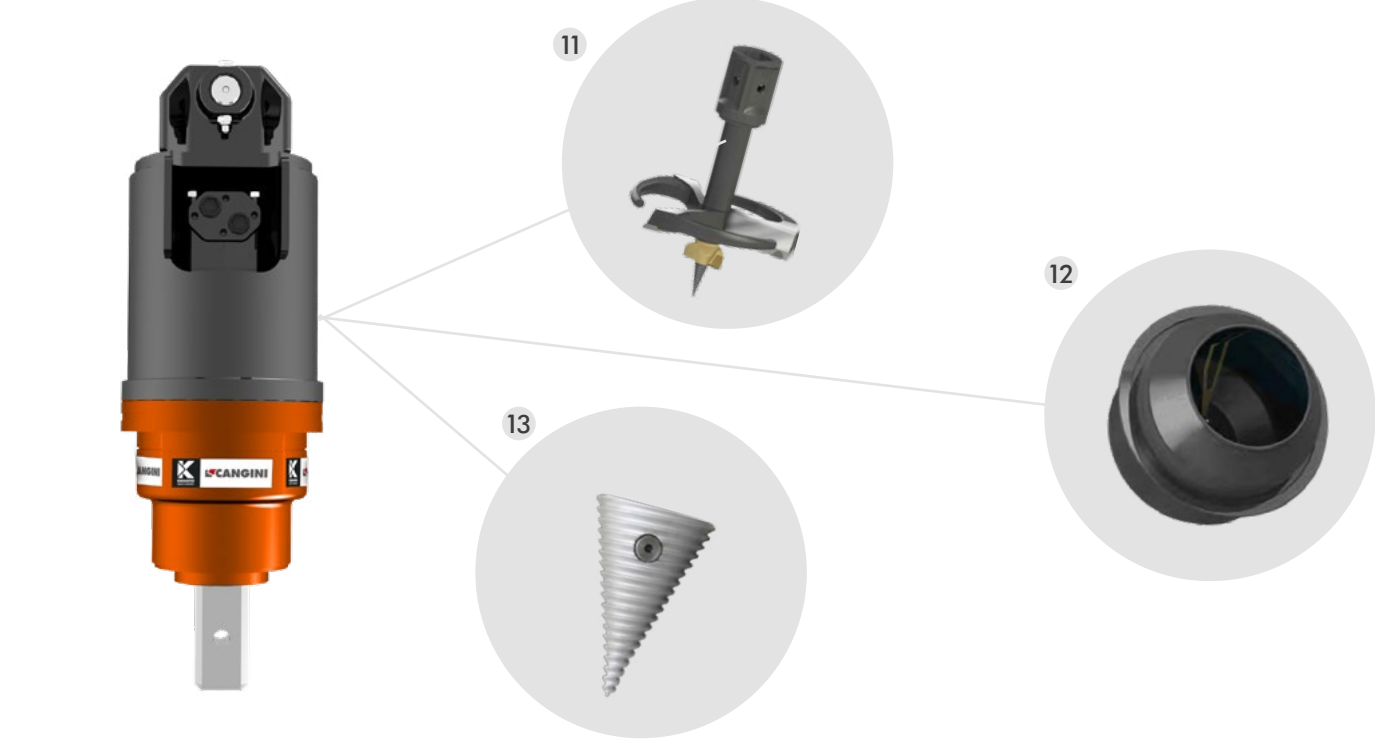
- 1 PLANETARY REDUCTION GEARBOX  
USED FOR SPEED REDUCTION, IT GUARANTEES HIGH EFFICIENCY THANKS TO REDUCED ROTATION POWER EVEN ON MACHINES WITH LOW HYDRAULIC FLOW RATES.
- 2 TOOTH FIXING SYSTEM  
THE PATENTED TOOTH FIXING SYSTEM ENSURES SAFE LOCKING OF THE TEETH AND PROTECTS THEM AGAINST POSSIBLE IMPACT FRACTURES. THE TEETH ARE ARRANGED FOR OPTIMISED DIGGING.

NB : THE ATTACHMENT IS IS SUPPLIED COMPLETE WITH PIPES.

OPTIONAL

- 3 SINGLE PIN COUPLING
- 4 5 CRADLE JOINT  
IT SUPPORTS THE AUGER TO ENABLE EVEN HORIZONTAL DRILLING. IT ALSO PREVENTS AUGER OSCILLATION DURING SPOIL DISCHARGE, ENABLING SAFE TRANSPORTATION AND PRECISE HOLE ALIGNMENT.  
THE CADLE SADDLE IS MANDATORY WHEN PURCHASING THE OPTIONAL CRADLE JOINT.
- 6 EXTENSION S4 - S5 - S6 1000MM
- 7 STANDARD BIT S4 - S5 - S6  
SUITABLE FOR DRILLING GROUND OF AVERAGE CONSISTENCY, WITH OPTION OF REPLACING THE INSERTS AND BIT CENTRING DEVICE TO RESTORE THE INITIAL CONDITIONS.
- 8 ROCK BIT S4 - S5 - S6  
SUITABLE FOR DRILLING VERY HARD GROUND WITH ROCKS OR RUBBLE.
- 9 MT - ATC BIT ADAPTER (A) ATC - MT BIT ADAPTER (B)
- 10 PRESSURE REDUCER VALVE  
AVAILABLE ON REQUEST





OPTIONAL

- 11

**STUMP PLANER S4 - S5**  
FOR EFFECTIVE, EASY AND CLEAN REMOVAL OF TREE STUMPS OF ANY SIZE IN A SHORT TIME.  
IDEAL FOR SOIL PREPARATION AND FOREST MAINTENANCE.
- 12

**CEMENT MIXER BOWL S4 - S5**  
MIXER BOWL ENABLES QUICK AND EASY MIXING OF CONCRETE.  
IDEAL FOR WORK ON ROUGH TERRAIN REQUIRING THE CONCRETE MIXING IN SMALL QUANTITIES.
- 13

**LOG SPLITTER S4**  
THE LOG SPLITTER ATTACHMENT IS COMPACT AND ROBUST FOR EASY PROCESSING AND RECYCLING OF LOGS.  
THE CONICAL SHAPE MAKES ITS WAY INTO THE LOG, SPLITTING IT IN TWO.

BIT

|   |                 | BIT COUPLING       | 150 Ø | 200 Ø | 250 Ø | 300 Ø | 350 Ø | 400 Ø | 500 Ø | 600 Ø |
|---|-----------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 7 | STANDARD BIT S4 | Ø65 (2,5)          | •     | •     | •     | •     | •     | •     | •     | •     |
| 7 | STANDARD BIT S5 | SQUARE 75 MM (2,9) | •     | •     | •     | •     | •     | •     | •     | •     |
| 7 | STANDARD BIT S6 | SQUARE 75 MM (2,9) | •     | •     | •     | •     | •     | •     | •     | •     |
| 8 | ROCK BIT S4     | Ø65 (2,5)          | •     | •     | •     | •     | •     | •     | •     | •     |
| 8 | ROCK BIT S5     | SQUARE 75 MM (2,9) | •     | •     | •     | •     | •     | •     | •     | •     |
| 8 | ROCK BIT S6     | SQUARE 75 MM (2,9) | •     | •     | •     | •     | •     | •     | •     | •     |

ACCESSORIES

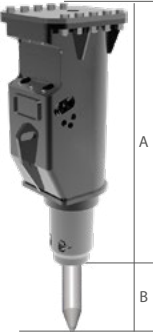




|    |                            | BIT COUPLING       | DIAMETER MM (IN) | ATC150 | ATC250 | ATC350 | AT550 | AT1000 | AT1500 | AT2500 |
|----|----------------------------|--------------------|------------------|--------|--------|--------|-------|--------|--------|--------|
| 11 | STUMP PLANER S4            | Ø65                | 250 (10)         | •      | •      | •      | /     | /      | /      | /      |
| 11 | STUMP PLANER S4            | Ø65                | 350 (14)         | •      | •      | •      | /     | /      | /      | /      |
| 11 | STUMP PLANER S5            | SQUARE 75 MM (2,9) | 250 (10)         | /      | /      | /      | •     | /      | /      | /      |
| 11 | STUMP PLANER S5            | SQUARE 75 MM (2,9) | 350 (14)         | /      | /      | /      | •     | /      | /      | /      |
| 12 | CEMENT MIXER BOWL S4 180 L | Ø65                | -                | •      | •      | •      | /     | /      | /      | /      |
| 12 | CEMENT MIXER BOWL S5 180 L | SQUARE 75 MM (2,9) | -                | /      | /      | /      | •     | /      | /      | /      |
| 13 | LOG SPLITTER S4            | Ø65                | 185 (7)          | •      | •      | •      | /     | /      | /      | /      |

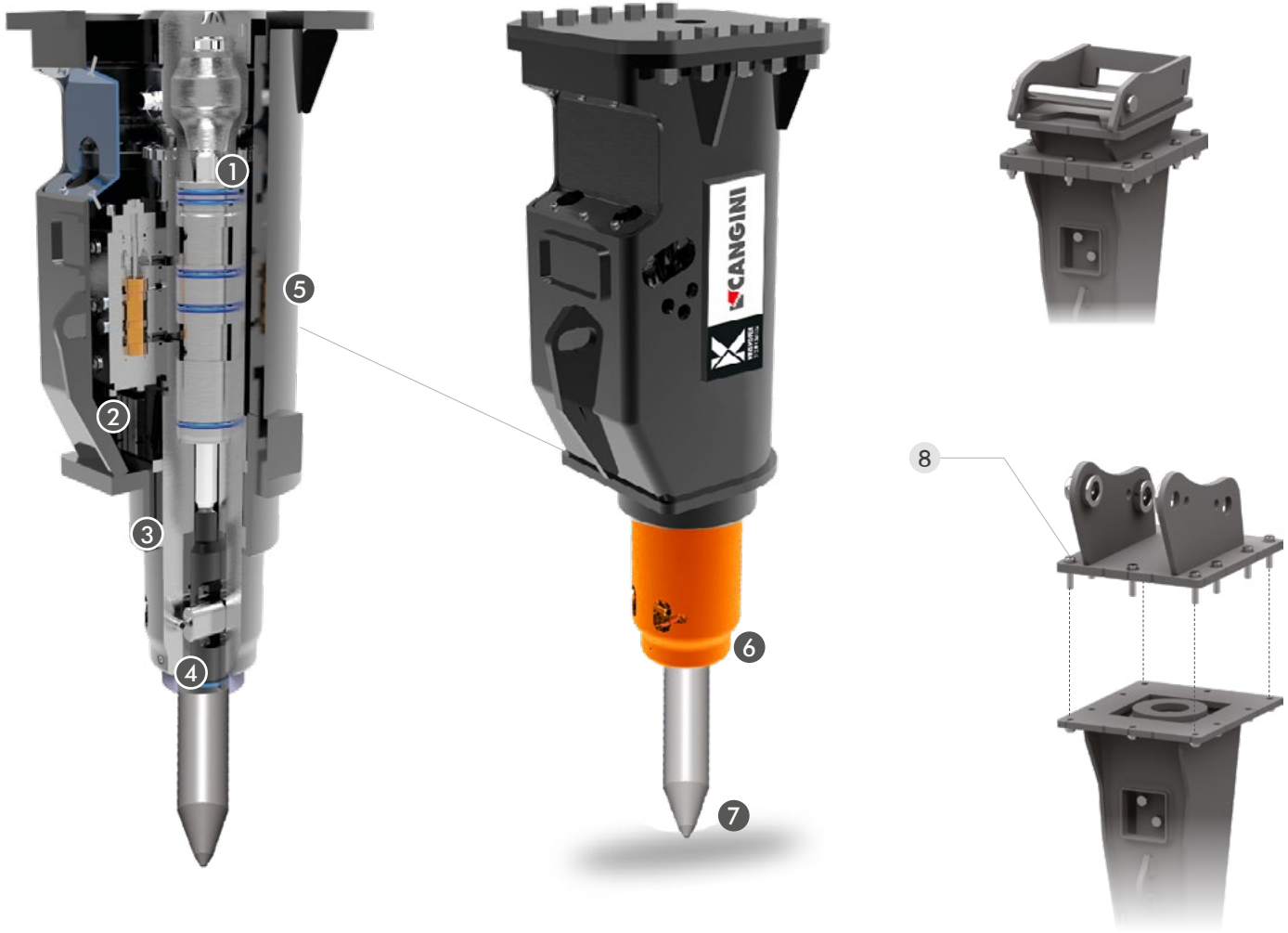






THE C.B. SERIES HYDRAULIC DEMOLITION HAMMER IS AVAILABLE IN 9 MODELS FOR EXCAVATORS WITH WORKING WEIGHT FROM 0,5 TO 12,5 TONNES. ITS ENCASED STRUCTURE IS DESIGNED TO MINIMISE THE NOISE LEVELS EMITTED BY THE HAMMER. THE SYSTEM IS DEVELOPED TO RECOVER THE NITROGEN'S INERTIAL ENERGY IN ORDER TO BOOST POWER. THE PRODUCT'S DESIGN ENABLES GREATER VISIBILITY WHEN AT WORK.

|   |                   |                    |                          |                          |                          |                          |                          |                          |                           |                            |                             |
|---|-------------------|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|----------------------------|-----------------------------|
|  |                   | TONS (LB)          | 0,5 - 1,4<br>(1102-3086) | 0,6 - 1,8<br>(1323-3968) | 1,5 - 2,5<br>(1323-3968) | 1,5 - 3,8<br>(3307-8378) | 2,5 - 5,0<br>(3307-8378) | 3,0 - 6,5<br>(3307-8378) | 4,5 - 8,5<br>(6614-18740) | 6,0 - 10,0<br>(6614-22046) | 8,0 - 12,5<br>(17637-26455) |
|   | MOD.              |                    | CB55                     | CB70                     | CB100                    | CB150                    | CB200                    | CB250                    | CB300                     | CB400                      | CB500                       |
|   | A                 | MM (IN)            | 583 (23)                 | 583 (23)                 | 666 (26)                 | 666 (26)                 | 869 (34)                 | 869 (34)                 | 904 (36)                  | 1135 (46)                  | 1135 (46)                   |
|   | B                 | MM (IN)            | 200 (8)                  | 228 (9)                  | 255 (10)                 | 255 (10)                 | 275 (11)                 | 300 (12)                 | 295 (12)                  | 378 (15)                   | 431 (17)                    |
|   | WITHOUT COUPLING  | KG (LB)            | 60 (132)                 | 70 (154)                 | 100 (220)                | 135 (298)                | 190 (419)                | 240 (529)                | 300 (529)                 | 430 (529)                  | 480 (529)                   |
|   | TOOL DIAMETER     | MM (IN)            | 40 (2)                   | 40 (2)                   | 45 (2)                   | 48 (2)                   | 55 (2)                   | 65 (3)                   | 75 (3)                    | 80 (3)                     | 90 (4)                      |
|   | MAX               | BAR (PSI)          | 110 (1595)               | 110 (1595)               | 110 (1595)               | 110 (1595)               | 130 (1885)               | 140 (2030)               | 160 (2321)                | 150 (2176)                 | 150 (2176)                  |
|   | MAX.              | L/MIN<br>(GAL/MIN) | 15-20<br>(4 - 5)         | 18-23<br>(5 - 6)         | 20-30<br>(5 - 8)         | 22-40<br>(6 - 10)        | 25-55<br>(7 - 15)        | 30-60<br>(8 - 16)        | 50-70<br>(13 - 18)        | 75-90<br>(20 - 24)         | 85-110<br>(22 - 29)         |
|   | ROUNDS PER MINUTE | N.                 | 800 - 1700               | 800 - 1750               | 800 - 2300               | 800 - 2000               | 900 - 1900               | 850 - 1800               | 600 - 1500                | 500 - 1300                 | 600 -1200                   |
|   | BACKPRESSURE      | BAR (PSI)          | 30<br>(435)              | 30<br>(435)              | 30<br>(435)              | 30<br>(435)              | 30<br>(435)              | 30<br>(435)              | 30<br>(435)               | 30<br>(435)                | 30<br>(435)                 |
|   | IMPACT ENERGY     | J                  | 250                      | 280                      | 400                      | 580                      | 750                      | 950                      | 1200                      | 1700                       | 2300                        |



STANDARD TECHNICAL FEATURES

- 1 NITROGEN CHAMBER

IT RECOVERS THE NITROGEN'S INERTIAL ENERGY, REDUCING MAINTENANCE COSTS SINCE IT DOES NOT CONTAIN DIAPHRAGMS.
- 2 PROTECTED PIPELINES

THEY ARE SUITABLE FOR DRILLING OPERATIONS OF ALL KINDS AND ARE PROTECTED BY A CASING
- 3 LOW-NOISE BODY

THE CASING CONSISTS OF A SOUNDPROOFING MATERIAL IN ORDER TO REDUCE THE LEVEL OF NOISE GENERATED
- 4 DOUBLE TOOL RETAINER

THE DOUBLE PIN TOOL LOCKING SYSTEM REDUCES ITS WEAR
- 5 MONOBLOC UNIT

THE DEMOLITION HAMMER IS BUILT IN A SINGLE BLOCK FOR HIGH RESISTANCE TO LEVERAGE FORCES
- 6 TAPERED SHAPE

PROVIDES GREATER VISIBILITY WHEN AT WORK
- 7 CONICAL BIT

SUITABLE FOR CONCRETE AND MODERATELY HARD UNSTRATIFIED ROCKS

OPTIONAL

- 8 BOLTED-IN ADAPTER PLATE

IT CAN BE MANUFACTURED FOR ANY BRAND OR MODEL OF HAMMER. IT ENABLE THE COUPLING TO THE MACHINE WITH FIXED OR QUICK COUPLER.
- 9 PILE DRIVER BIT

SUITABLE FOR DRIVING POSTS OF VARIOUS KINDS
- 10 ASPHALT CUTTER BIT

SUITABLE FOR CUTTING ASPHALT





8 BOLTED-IN ADAPTER PLATE FOR CB55 - CB70



|                 |
|-----------------|
| AR15            |
| CR15            |
| CS10            |
| CS10 JANUS PRO  |
| PL10 PIN LOCK   |
| CW05 AUT'O'LOCK |
| S               |
| CM              |

8 BOLTED-IN ADAPTER PLATE FOR CB100



|                 |
|-----------------|
| AR15            |
| AR30            |
| CR15            |
| CR30            |
| CS10            |
| CS10 JANUS PRO  |
| PL20 PIN LOCK   |
| CW05 AUT'O'LOCK |
| S               |
| CM              |

8 BOLTED-IN ADAPTER PLATE FOR CB150



|                 |
|-----------------|
| AR30            |
| AR40            |
| CR30            |
| CR40            |
| CS10            |
| CS30            |
| CS10 JANUS PRO  |
| CS30 JANUS PRO  |
| PL20 PIN LOCK   |
| PL40 PIN LOCK   |
| CW05 AUT'O'LOCK |
| S               |
| CM              |

8 BOLTED-IN ADAPTER PLATE FOR CB200



|                 |
|-----------------|
| AR40            |
| AR50            |
| CR40            |
| CR50            |
| CS30            |
| CS30 JANUS PRO  |
| PL40 PIN LOCK   |
| PL60 PIN LOCK   |
| CW05 AUT'O'LOCK |
| CW10 AUT'O'LOCK |
| S               |
| CM              |

8 BOLTED-IN ADAPTER PLATE FOR CB250



|                 |
|-----------------|
| AR40            |
| AR50            |
| CR40            |
| CR50            |
| CS30            |
| CS30 JANUS PRO  |
| PL40 PIN LOCK   |
| PL60 PIN LOCK   |
| CW05 AUT'O'LOCK |
| CW10 AUT'O'LOCK |
| S               |
| CM              |

8 BOLTED-IN ADAPTER PLATE FOR CB300



|                 |
|-----------------|
| AR50            |
| AR70            |
| CR50            |
| CR70            |
| CS30            |
| CS80            |
| CS30 JANUS PRO  |
| CS80 JANUS PRO  |
| PL60 PIN LOCK   |
| PL80 PIN LOCK   |
| CW10 AUT'O'LOCK |
| S               |
| CM              |

8 BOLTED-IN ADAPTER PLATE FOR CB400

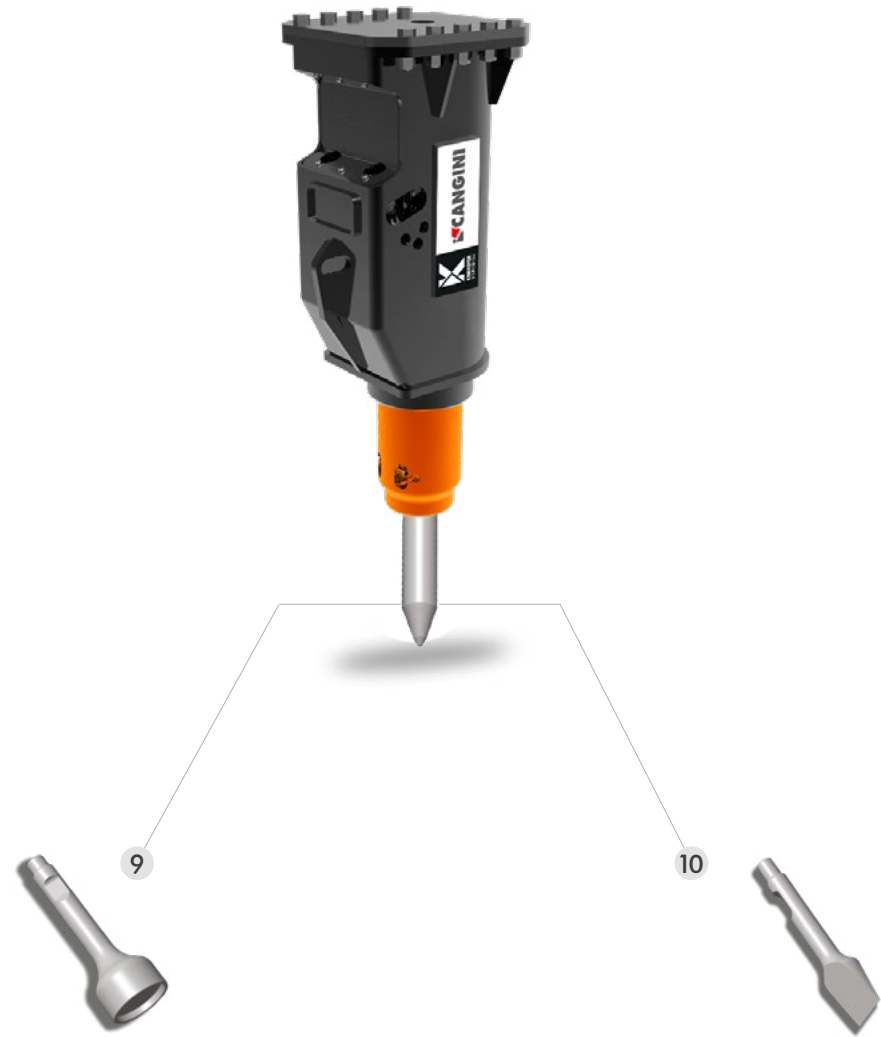


|                 |
|-----------------|
| AR70            |
| CR70            |
| CS80            |
| CS10 JANUS PRO  |
| PL60 PIN LOCK   |
| PL80 PIN LOCK   |
| CW10 AUT'O'LOCK |
| S               |
| CM              |

8 BOLTED-IN ADAPTER PLATE FOR CB500



|                 |
|-----------------|
| CR70            |
| CS80            |
| CS80 JANUS PRO  |
| PL80 PIN LOCK   |
| CW10 AUT'O'LOCK |
| S               |
| CM              |



| MOD.  | DIAMETER  |
|-------|-----------|
|       | MM (IN)   |
| CB70  | 100 (3,9) |
|       | 120 (4,7) |
|       | 145 (5,7) |
| CB100 | 100 (3,9) |
|       | 120 (4,7) |
|       | 145 (5,7) |
| CB150 | 180 (7,0) |
|       | 100 (3,9) |
|       | 120 (4,7) |
| CB200 | 145 (5,7) |
|       | 180 (7,0) |
|       | 120 (4,7) |
| CB250 | 175 (6,8) |
|       | 120 (4,7) |
|       | 145 (5,7) |
| CB300 | 200 (7,8) |
|       | 120 (4,7) |
|       | 145 (5,7) |
| CB400 | 175 (6,8) |
|       | 220 (8,6) |
|       | 120 (4,7) |
|       | 145 (5,7) |
|       | 175 (6,8) |
|       | 200 (7,8) |

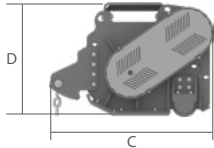
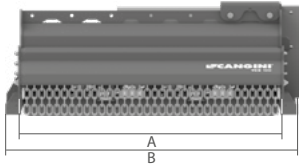
| MOD.  | DIAMETER  | ASPHALT CUTTER BIT |
|-------|-----------|--------------------|
|       | MM (IN)   |                    |
| CB70  | 120 (4,7) |                    |
|       | 150 (5,9) |                    |
| CB100 | 120 (4,7) |                    |
|       | 150 (5,9) |                    |
| CB150 | 120 (4,7) |                    |
|       | 150 (5,9) |                    |
| CB200 | 100 (3,9) |                    |
|       | 120 (4,7) |                    |
| CB250 | 150 (5,9) |                    |
|       | 195 (7,6) |                    |
| CB300 | 150 (5,9) |                    |
|       | 195 (7,6) |                    |
| CB400 | 120 (4,7) |                    |
|       | 150 (5,9) |                    |
| CB500 | 195 (7,6) |                    |
|       | 195 (7,6) |                    |












NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

DESIGNED FOR HEAVY-DUTY OPERATIONS, IT IS EQUIPPED WITH A REINFORCED DOUBLE-FRAME; AN ANTI-SHOCK SHIELDING PROTECTS THE BEARINGS. STANDARD Y BLADES WITH INTERMEDIATE KNIFE OR HAMMERS. FLOW-DIVIDER, PRESSURE RELIEF AND BYPASS VALVES (FOR TC0-50 AND TC0-70 ONLY PRESSURE RELIEF VALVE) . MAX BACK-PRESSURE ALLOWED IS 10 BAR, THEREFORE TC MULCHERS DO NOT REQUIRE ANY DRAINAGE LINE IN MOST OF THE CASES.



| TONS<br>(LB)   |                     | 1,0 - 1,5<br>(2204 - 3307) |                     | 1,5 - 3,5<br>(3307 - 7716) |                     |                     | 3,5 - 6,5<br>(7716 - 14330) |                     |                     | 6,5 - 10,0<br>(14330 - 22046) |                     | 10,0 - 15,0<br>(22046 - 33069) |                      |                      |            |
|--|---------------------|----------------------------|---------------------|----------------------------|---------------------|---------------------|-----------------------------|---------------------|---------------------|-------------------------------|---------------------|--------------------------------|----------------------|----------------------|------------|
| MOD.   |                     | TC0-50                     | TC0-70              | TC1-60                     | TC1-80              | TC1-100             | TC2-80                      | TC2-100             | TC2-120             | TC3-110                       | TC3-130             | TC4-110                        | TC4-130              | TC4-150              |            |
| A  | MM<br>(IN)          | 500 (20)                   | 700 (28)            | 600 (24)                   | 800 (31)            | 1000 (39)           | 800 (31)                    | 1000 (39)           | 1200 (47)           | 1100 (43)                     | 1300 (51)           | 1100 (43)                      | 1300 (51)            | 1500 (59)            |            |
| B  | MM<br>(IN)          | 715 (28)                   | 915 (36)            | 800 (31)                   | 1000 (39)           | 1200 (47)           | 980 (39)                    | 1180 (46)           | 1380 (54)           | 1280 (50)                     | 1480 (58)           | 1300 (51)                      | 1600 (63)            | 1800 (71)            |            |
| C  | MM<br>(IN)          | 516 (20)                   | 516 (20)            | 640 (25)                   | 640 (25)            | 640 (25)            | 810 (32)                    | 810 (32)            | 810 (32)            | 830 (33)                      | 830 (33)            | 855 (34)                       | 855 (34)             | 855 (34)             |            |
| D  | MM<br>(IN)          | 417 (17)                   | 417 (17)            | 461 (18)                   | 461 (18)            | 461 (18)            | 530 (21)                    | 530 (21)            | 530 (21)            | 575 (23)                      | 575 (23)            | 620 (24)                       | 620 (24)             | 620 (24)             |            |
|  | W/O COUPLER         | KG (LB)                    | 70 (154)            | 83 (183)                   | 100 (220)           | 115 (254)           | 125 (276)                   | 245 (540)           | 270 (595)           | 300 (661)                     | 375 (827)           | 412 (908)                      | 455 (1003)           | 505 (1113)           | 540 (1190) |
|  |                     |                            | DIRECT              | DIRECT                     | DIRECT              | DIRECT              | 2                           | 2                   | 2                   | 2                             | 2                   | 3                              | 3                    | 3                    |            |
|  |                     | MM<br>(IN)                 | 55 (2,2)            | 55 (2,2)                   | 80 (3,1)            | 80 (3,1)            | 80 (3,1)                    | 114 (4,5)           | 114 (4,5)           | 114 (4,5)                     | 133 (5,2)           | 133 (5,2)                      | 133 (5,2)            | 133 (5,2)            |            |
|  | MIN.                | LMIN<br>(GAL/MIN)          | 14 (3,6)            | 14 (3,6)                   | 18 (5)              | 18 (5)              | 18 (5)                      | 28 (7)              | 28 (7)              | 28 (7)                        | 55 (15)             | 55 (15)                        | 65 (17)              | 65 (17)              |            |
|  | MAX                 | LMIN<br>(GAL/MIN)          | *                   | *                          | 90 (24)             | 90 (24)             | 90 (24)                     | 90 (24)             | 90 (24)             | 90 (24)                       | 150 (40)            | 150 (40)                       | 150 (40)             | 150 (40)             |            |
|  | MAX                 | BAR<br>(PSI)               | 250 (3626)          | 250 (3626)                 | 250 (3626)          | 250 (3626)          | 250 (3626)                  | 250 (3626)          | 250 (3626)          | 280 (4061)                    | 280 (4061)          | 280 (4061)                     | 280 (4061)           | 280 (4061)           |            |
|  | MAX WITH<br>HAMMERS | MM<br>(IN)                 | 15-20<br>(0,6 -0,8) | 15-20<br>(0,6 -0,8)        | 20-30<br>(0,8 -1,2) | 20-30<br>(0,8 -1,2) | 20-30<br>(0,8 -1,2)         | 40-60<br>(1,6 -2,4) | 40-60<br>(1,6 -2,4) | 40-60<br>(1,6 -2,4)           | 60-80<br>(2,4 -3,1) | 60-80<br>(2,4 -3,1)            | 80-100<br>(3,1 -3,9) | 80-100<br>(3,1 -3,9) |            |

\* Following the engine capacity




STANDARD TECHNICAL FEATURES

- 1 **INTEGRATED VALVE UNIT**  
THROTTLE, PRESSURE RELIEF AND BYPASS VALVES.
- 2 **COUPLING ADJUSTMENT SLIDE**  
THE COUPLING POSITION CAN BE DIFFERENTLY ADJUSTED.
- 3 **REINFORCED BODY**  
DOUBLE REINFORCED BODY FOR A HIGHER RESISTANCE TO SHOCKS.
- 4 **SHAFT WITH HAMMERS**  
SUITABLE FOR THE CUTTING OF SHRUBS OR SIMILAR PLANTS.
- 5 **SHAFT WITH BLADES**  
SUITABLE FOR THE CUTTING OF GRASS OR SIMILAR VEGETATION.

 6 **GEAR MOTOR**  
MOTOR WITH REINFORCED SEAL. IN CASE OF BACKPRESSURE HIGHER THAN 10 BAR, DRAINAGE LINE LINKED TO THE TANK IS MANDATORY.

OPTIONAL

- 7 **FLOATING SYSTEM**  
IT ENABLES THE MULCHER TO FOLLOW THE SOIL.
- 8 **4 PIPES HYDRAULIC SLEWING RING**  
IT STEERS THE MULCHER TO ADAPT TO ANY CUTTING NEED AND ALLOWS IT TO CUT IN BOTH DIRECTIONS, FORWARDS AND BACKWARDS.
-  9 **PISTON ENGINE**  
FIT FOR PARTICULARLY HARD AND CONTINUOUS WORKS. IT NEEDS THE DIRECT DRAINING PIPE TO THE TANK. THE APPLICATION ON THE OPERATING MACHINE WILL BE CHECKED BEFORE ORDER CONFIRMATION

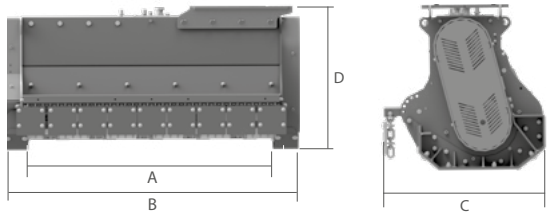
**NB: ADAPTERS NOT INCLUDED**  
THE MACHINE CONNECTION PLATE IS INCLUDED FOR ALL THE ADAPTERS IN CANGINI CATALOGUE EXCEPT FOR MOD. ADAPTERS CS 100 JANUS PRO, CW 20S, CW30S.











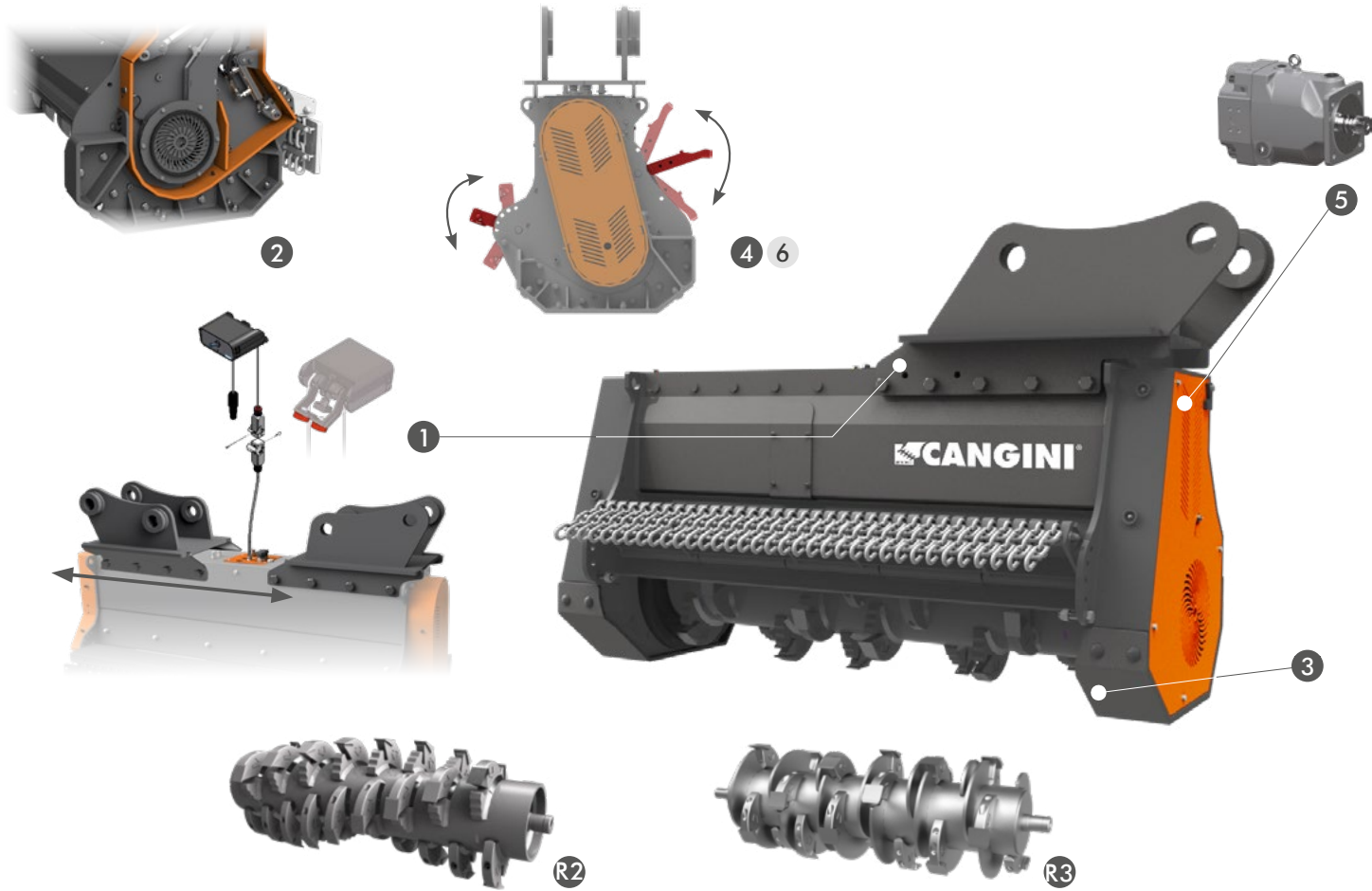


NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

THE FORESTRY MULCHER HAS BEEN DESIGNED TO MANAGE THE HEAVIEST WORKLOADS: THE DEEP CLEARING OF WOODS AND FORESTS. IT IS EQUIPPED WITH A PISTON ENGINE TO RUN AT THE MOST INTENSE WORK PACE. THE EXCAVATOR-TYPE MULCHER CAN REACH THE NARROWEST AREAS.



|  |     |             |                 |                               |                               |   |
|--|-----|-------------|-----------------|-------------------------------|-------------------------------|---|
|  | R2  | W/O COUPLER | TONS (LB)       | 10,0 - 15,0 (22046,2-33069,3) | 14,0 - 20,0 (30864,7-44092,5) |   |
|  |     |             | MOD.            | TX5-100                       | TX5-120                       | TX6-110 TX6-130 TX6-150                   |
|  | R3  | W/O COUPLER | MM (IN)         | 1015 (39,96)                  | 1280 (50,39)                  | 1150 (45,2) 1350 (53,14) 1550 (61,02)     |
|  |     |             | MM (IN)         | 1300 (51,18)                  | 1540 (60,62)                  | 1520 (59,8) 1740 (68,5) 1950 (76,7)       |
|  | R2  |             | MM (IN)         | 720 (28,34)                   | 720 (28,34)                   | 760 (29,9) 760 (29,9) 760 (29,9)          |
|  |     |             | MM (IN)         | 740 (29,13)                   | 740 (29,13)                   | 910 (35,8) 910 (35,8) 910 (35,8)          |
|  | R3  |             | KG (LB)         | 535 (1179,47)                 | 600 (1322,77)                 | 980 (2160,53) 1060 (2336,9) 1130 (2491,2) |
|  |     |             | MM (IN)         | 220 (8,66)                    | 220 (8,66)                    | 280 (11) 280 (11,02) 280 (11,02)          |
|  | R3  |             | MM (IN)         | 220 (8,66)                    | 220 (8,66)                    | 280 (11) 280 (11,02) 280 (11,02)          |
|  |     |             | N.              | 3                             | 3                             | 4 4 4                                     |
|  |     |             | CC              | 23-46                         | 23-46                         | 32-64 32-64 32-64                         |
|  |     |             | MM (IN)         | 405 (16)                      | 405 (16)                      | 460 (18) 460 (18) 460 (18)                |
|  | MIN |             | L/MIN (GAL/MIN) | 90 (24)                       | 90 (24)                       | 110 (16) 110 (29) 110 (29)                |
|  | MAX |             | L/MIN (GAL/MIN) | 300 (79)                      | 300 (79)                      | 300 (79) 300 (79) 300 (79)                |
|  | MAX |             | BAR (PSI)       | 400 (5801)                    | 400 (5801)                    | 400 (5801) 400 (5801) 400 (5801)          |
|  |     |             |                 |                               |                               |   |



STANDARD TECHNICAL FEATURES

- 1 MECHANICAL COUPLING ADJUSTMENT

THE COUPLING TO THE MACHINE MAY BE PLACED ALONG THE SURFACE OF THE MULCHER DEPENDING ON THE CUSTOMER'S REQUIREMENTS.
- 2 AUTOMATIC COOLING SYSTEM

IT IS EQUIPPED WITH A FORCED-AIR VENTILATION SYSTEM TO HELP REDUCE OVERHEATING OF THE MULCHER'S HYDRAULIC COMPONENTS.
- 3 HB400 REINFORCED SKIDS
- 4 MECHANICAL FLAPS OPENING

IT ENHANCES THE ROTOR POWER TO DEEPLY CRUSH TRUNKS.
- 5 PISTON ENGINE (VARIABLE CC ENGINE CAPACITY)

IT NEEDS THE DIRECT DRAINING PIPE TO THE TANK.
- R2 R2 ROTOR

DESIGNED FOR HEAVY-DUTY WORKS, IT SPECIALLY FITS THE PLANT MULCHING.
- R3 R3 ROTOR

R3 ROTOR IS HIGHLY VERSATILE AND SUITABLE FOR MULTIPLE USES FROM CUTTING BRUSHWOOD TO TREE GRINDING. IT ALLOWS CUTTING FROM A DIAMETER OF 22CM UP TO A MAXIMUM OF 28CM DEPENDING ON THE MODEL USED.
- 6 HYDRAULIC FLAPS OPENING

IT ALLOWS THE OPENING OF THE SINGLE FLAP DIRECTLY FROM THE CAB (THANKS TO A CONTROL KIT WITH MAGNETS TO EASILY PUT IT INSIDE THE CAB) TO ENHANCE THE ROTOR POWER TO DEEPLY CRUSH TRUNKS UP TO 220 MM.

NB: ADAPTERS NOT INCLUDED  
THE MACHINE CONNECTION PLATE IS INCLUDED FOR ALL THE ADAPTERS IN CANGINI CATALOGUE EXCEPT FOR MOD. ADAPTERS CS 100 JANUS PRO, CW 20S, CW30S.





BTC SHARP-CUT BRANCH CUTTER BAR  
FOR EXCAVATOR

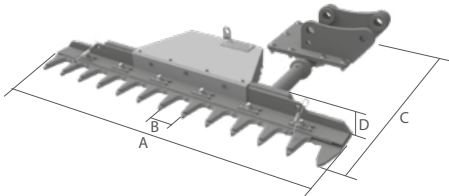


HB450

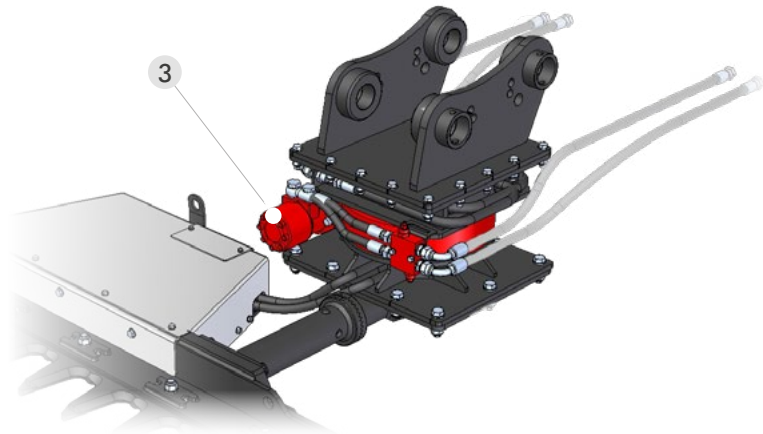


**NB:** AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

SUITABLE FOR THE TREE PRUNING UP TO 100 MM (3,9 IN). IT DOES NOT HARM THE PLANT, BECAUSE IT CUTS SHARPLY AND PRECISELY WITHOUT UPROOTING THE BRANCH. THE BAR'S BLADES IN HB450 GRANT RESISTANCE AND EXTENDED USEFUL LIFE.



|  |                  | TONS<br>(LB)    | 2,5 - 12,0<br>(5512 - 26455) |            | 4,0 - 14,0<br>(8818 - 30865) |             |             |  |
|--|------------------|-----------------|------------------------------|------------|------------------------------|-------------|-------------|--|
|  | MOD.             |                 | BTC 50-150                   | BTC 50-180 | BTC 100-160                  | BTC 100-190 | BTC 100-220 |  |
|  | <b>A</b>         | MM (IN)         | 1500 (59)                    | 1800 (71)  | 1600 (63)                    | 1900 (75)   | 2200 (86,6) |  |
|  | <b>B</b>         | MM (IN)         | 50 (2)                       | 50 (2)     | 100 (3,9)                    | 100 (3,9)   | 100 (3,9)   |  |
|  | <b>C</b>         | MM (IN)         | 670 (26,4)                   | 670 (26,4) | 810 (31,8)                   | 810 (31,8)  | 810 (31,8)  |  |
|  | <b>D</b>         | MM (IN)         | 130 (5,1)                    | 130 (5,1)  | 155 (6,6)                    | 155 (6,6)   | 155 (6,6)   |  |
|  | W/O COUPLER      | KG (LB)         | 175 (386)                    | 190 (419)  | 240 (530)                    | 260 (574)   | 285 (629)   |  |
|  | MAX.             | BAR (PSI)       | 250 (3626)                   | 250 (3626) | 250 (3626)                   | 250 (3626)  | 250 (3626)  |  |
|  | MIN.             | L/MIN (GAL/MIN) | 40 (11)                      | 40 (11)    | 50 (11)                      | 50 (11)     | 50 (11)     |  |
|  | MAX.             | L/MIN (GAL/MIN) | 50 (13,2)                    | 50 (13,2)  | 60 (15,8)                    | 60 (15,8)   | 60 (15,8)   |  |
|  | BLOWS PER MINUTE | N.              | 195                          | 195        | 86                           | 86          | 86          |  |



STANDARD TECHNICAL FEATURES

- 1 HB450 BLADE**  
HB450 BLADES FOR A HIGHER RESISTANCE TO WEAR.
- 2 REVOLVING JOINT**  
THE TOOTHED FLANGE NEXT TO COUPLING AREA ALLOWS TO SETTLE THE TILTING DEGREE ACCORDING TO THE CUSTOMER'S NEED.

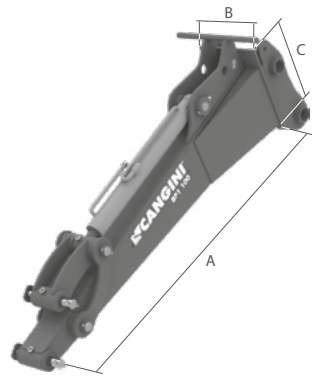
OPTIONAL

- 3 4 PIPES HYDRAULIC SLEWING RING**  
IT ORIENTS THE BRANCH-CUTTER BAR FOR DIFFERENT NEEDS AND IT ALLOWS TO CUT IN BOTH DIRECTIONS.





PARTICULARLY SUITED TO OPERATIONS IN AREAS WHERE THE MACHINE'S STANDARD RANGE OF ACTION IS NOT SUFFICIENT. THE EXTENSION ARM IS SUPPLIED AS A "PARTLY COMPLETED MACHINERY" CERTIFICATION IN ACCORDANCE WITH THE ANNEX II-B OF THE 2006/42/EC MACHINERY DIRECTIVES. ITS EC COMPLIANCE WILL BE DECLARED AFTER IT HAS BEEN ATTACHED TO THE MACHINE AND BEFORE ITS REGULAR USE.



|  |             |           |            |            |            |            |            |            |            |            |
|--|-------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
|  | W/O COUPLER | KG (LB)   | 75 (165)   | 85 (187)   | 185 (408)  | 210 (463)  | 430 (948)  | 460 (1014) | 495 (1091) | 525 (1157) |
|  | MAX         | BAR (PSI) | 200 (2901) | 200 (2901) | 200 (2901) | 200 (2901) | 200 (2901) | 300 (4351) | 300 (4351) | 300 (4301) |

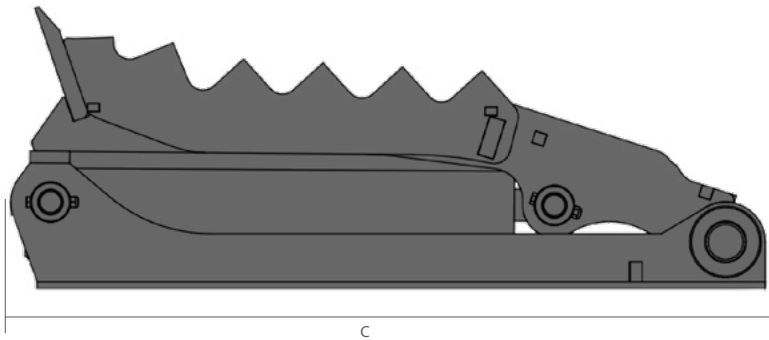
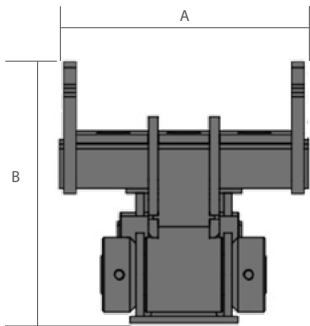
|   | TONS<br>(LB) | 2,0 - 4,0<br>(4409-8818) |            | 4,0 - 7,5<br>(8818-16535) |            | 7,5 - 10,0<br>(16535-22046) |            | 10,0 - 12,0<br>(22046-26455) |            | 12,0 - 14,0<br>(26455-30865) |  | 12,0 - 14,0<br>(26455-30865) |  |
|---|--------------|--------------------------|------------|---------------------------|------------|-----------------------------|------------|------------------------------|------------|------------------------------|--|------------------------------|--|
|   | MOD.         | BP1-100                  | BP1-120    | BP2-150                   | BP2-180    | BP3-190                     | BP3-220    | BP3-250                      | BP3-275    |                              |  |                              |  |
| A | MM (IN)      | 1000 (39)                | 1200 (47)  | 1500 (59)                 | 1800 (71)  | 1900 (75)                   | 2200 (87)  | 2500 (98)                    | 2750 (108) |                              |  |                              |  |
| B | MM (IN)      | 250 (10)                 | 250 (10)   | 350 (14)                  | 350 (14)   | 650 (26)                    | 650 (26)   | 650 (26)                     | 650 (26)   |                              |  |                              |  |
| C | MM (IN)      | 300 (12)                 | 300 (12)   | 470 (19)                  | 470 (19)   | 670 (26)                    | 670 (26)   | 670 (26)                     | 670 (26)   |                              |  |                              |  |
|   | KG (LB)      | 75 (165)                 | 85 (187)   | 185 (408)                 | 210 (463)  | 430 (948)                   | 460 (1014) | 495 (1091)                   | 525 (1157) |                              |  |                              |  |
|   | BAR (PSI)    | 200 (2901)               | 200 (2901) | 200 (2901)                | 200 (2901) | 200 (2901)                  | 300 (4351) | 300 (4351)                   | 300 (4301) |                              |  |                              |  |



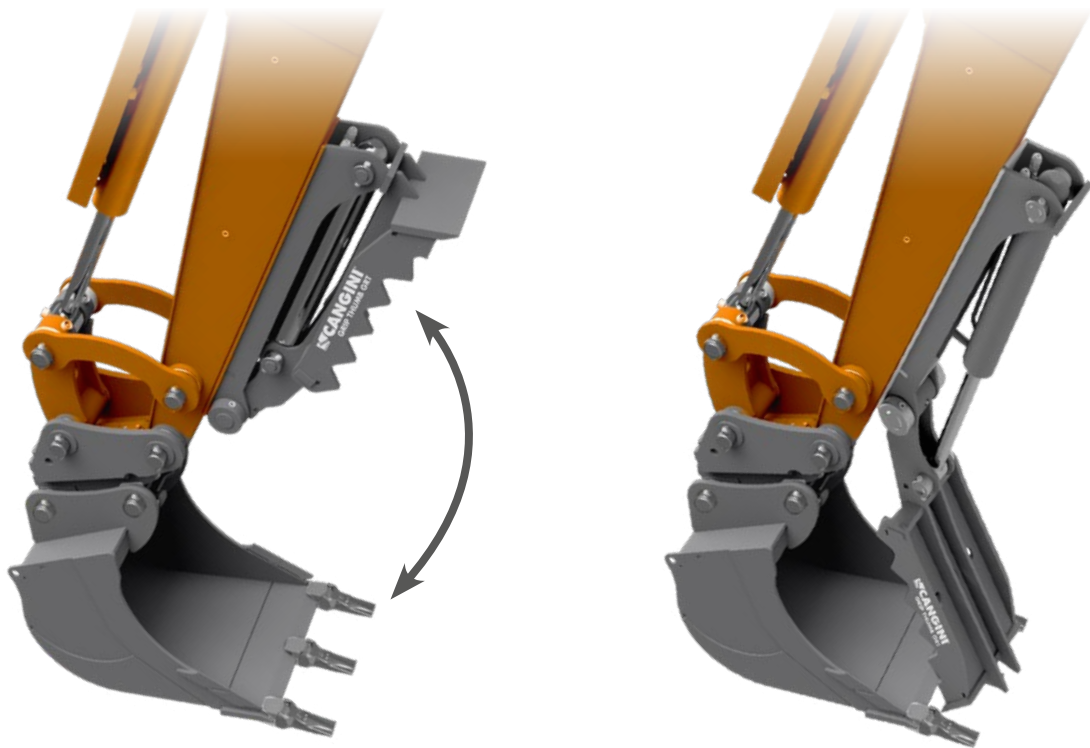




WELDED TO THE ARM OF THE EXCAVATOR, THE CANGINI GRT THUMB FACILITATES GRIPPING OF ROCKY MATERIALS, LOGS AND MANY OTHER ITEMS, SERVING AS A GRAPPLE. ONCE FOLDED AWAY, IT ALLOWS THE BUCKET TO FUNCTION NORMALLY, SIMPLIFYING PROCEDURES FOR THE OPERATOR. CHECK THE APPLICATION'S FEASIBILITY WHEN ORDERING TO AVOID TOOL MALFUNCTIONS.



|  |     | TONS<br>(LB) | 1,8 - 2,5<br>(3968,32-5511,56) | 2,5 - 4,0<br>(5511,56-8818,49) | 4,0 - 7,5<br>(8818,49 16534,7) | 7,5 - 10,0<br>(16534,7-22046,2) | 10,0 - 14,0<br>(22046,2-30864,7) | 14,0 - 18,0<br>(30864,7-39683,2) |                 |
|--|-----|--------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------|----------------------------------|-----------------|
|  |     | MOD.         | GRT 20                         | GRT 25                         | GRT 30                         | GRT 40                          | GRT 45                           | GRT 50                           |                 |
| A  | B   | C            | MM (IN)                        | 200<br>(7,8)                   | 250<br>(9,8)                   | 300<br>(11,8)                   | 400<br>(15,7)                    | 450<br>(7,87)                    | 500<br>(17,7)   |
|  |     |              | MM (IN)                        | 245<br>(9,6)                   | 245<br>(9,6)                   | 355<br>(13,9)                   | 355<br>(13,9)                    | 485<br>(19,0)                    | 485<br>(19,0)   |
|  |     |              | MM (IN)                        | 583<br>(22,9)                  | 583<br>(22,9)                  | 915<br>(36,0)                   | 915<br>(36,0)                    | 1620<br>(63,7)                   | 1620<br>(63,7)  |
|  | MAX | MAX          | KG (LB)                        | 25<br>(55)                     | 30<br>(66)                     | 95<br>(209,4)                   | 135<br>(297,6)                   | 355<br>(782,6)                   | 374<br>(824,5)  |
|  |     |              | BAR (PSI)                      | 200<br>(2900,7)                | 200<br>(2900,7)                | 250<br>(3625,9)                 | 250<br>(3625,9)                  | 300<br>(4351,1)                  | 300<br>(4351,1) |











RCB SINGLE-FORCE RIPPER & RN MULTI-FORCE RIPPER



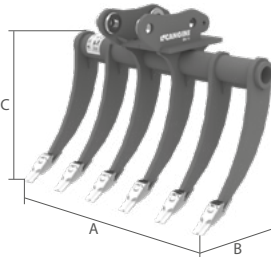




HB400



SINGLE-FORCE RIPPER IS MANUFACTURED ENTIRELY IN HB400. SUITABLE FOR SOIL TILTING, DIGGING, ROOT AND STONE GRUBBING WORKS.

|  |         |                            |                  |                            |                  |                             |  |                               |  |
|--|---------|----------------------------|------------------|----------------------------|------------------|-----------------------------|--|-------------------------------|--|
|              | TONS    | 0,6 - 2,5<br>(1323 - 5512) |                  | 2,5 - 4,0<br>(5512 - 8818) |                  | 4,0 - 7,5<br>(8818 - 16535) |  | 7,5 - 14,0<br>(16535 - 30865) |  |
|  | MOD.    | RCB45                      |                  | RCB53                      |                  | RCB67                       |  | RCB80                         |  |
|  | A       | MM (IN)                    | 250 (10)         | 265 (10)                   | 295 (12)         | 340 (13)                    |  |                               |  |
|  | B       | MM (IN)                    | 490 (19)         | 530 (20)                   | 665 (26)         | 790 (31)                    |  |                               |  |
|  | C       | MM (IN)                    | 450 (18)         | 520 (20)                   | 660 (26)         | 820 (32)                    |  |                               |  |
|  W/O COUPLER | KG (LB) | 23 (50)                    | 32 (70)          | 60 (132)                   | 100 (220)        |                             |  |                               |  |
|  DC TEETH    |         | DC 3<br>KG 2,1             | DC 6<br>KG 4,0   | DC 8<br>KG 5,4             | DC 13<br>KG 13   |                             |  |                               |  |
|  DTE TEETH   |         | DTE 13<br>KG 1,7           | DTE 17<br>KG 3,0 | DTE 17<br>KG 3,0           | DTE 23<br>KG 8,8 |                             |  |                               |  |

MULTI-FORCE RIPPER IS PARTICULARLY SUITABLE FOR SOIL TILLING AND ROOT OR STONE GRABBING WORKS. ENTIRELY REALIZED IN HB400.

|   |           |                            |                    |                            |                    |                             |                    |                               |                    |           |
|---|-----------|----------------------------|--------------------|----------------------------|--------------------|-----------------------------|--------------------|-------------------------------|--------------------|-----------|
|  | TONS      | 1,2 - 2,5<br>(2646 - 5512) |                    | 2,5 - 4,0<br>(5512 - 8818) |                    | 4,0 - 7,5<br>(8818 - 16535) |                    | 7,5 - 14,0<br>(16535 - 30865) |                    |           |
|   | MOD.      | RN30                       | RN30               | RN40                       | RN40               | RN50                        | RN50               | RN70                          | RN70               |           |
|   | A         | MM (IN)                    | 400 (16)           | 600 (24)                   | 500 (20)           | 800 (31)                    | 600 (24)           | 1000 (39)                     | 800 (31)           | 1200 (47) |
|   | B         | MM (IN)                    | 300 (12)           | 300 (12)                   | 320 (14)           | 320 (14)                    | 380 (15)           | 380 (15)                      | 507 (20)           | 507 (20)  |
|   | C         | MM (IN)                    | 400 (16)           | 400 (16)                   | 465 (18)           | 465 (18)                    | 555 (22)           | 555 (22)                      | 710 (28)           | 710 (28)  |
|   | KG (LB)   | 27 (60)                    | 33 (72)            | 35 (77)                    | 46 (101)           | 64 (141)                    | 83 (182)           | 137 (302)                     | 170 (374)          |           |
|   | N.        | 3                          | 4                  | 3                          | 4                  | 4                           | 5                  | 5                             | 6                  |           |
|   | DC TEETH  | DC 1<br>(KG 1,4)           | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)           | DC 1<br>(KG 1,4)   | DC 3<br>(KG 2,1)            | DC 3<br>(KG 2,1)   | DC 6<br>(KG 4,0)              | DC 6<br>(KG 4,0)   |           |
|   | DTE TEETH | DTE 13<br>(KG 1,7)         | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7)         | DTE 13<br>(KG 1,7) | DTE 17<br>(KG 3,0)          | DTE 17<br>(KG 3,0) | DTE 17<br>(KG 3,0)            | DTE 17<br>(KG 3,0) |           |



STANDARD TECHNICAL FEATURES

- 1 DC TEETH DTE TEETH

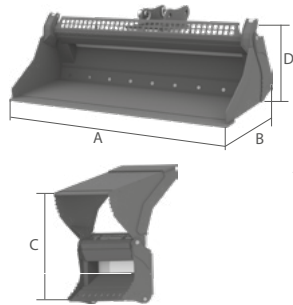




HB400



SUITABLE FOR LOADING, UNLOADING AND HANDLING OPERATIONS. THANKS TO ITS HYDRAULIC OPENING IT IS SUITABLE ALSO FOR VARIOUS MATERIAL GRABBING, WASTE DISCHARGE CONTROL AND GROUND LEVELLING.

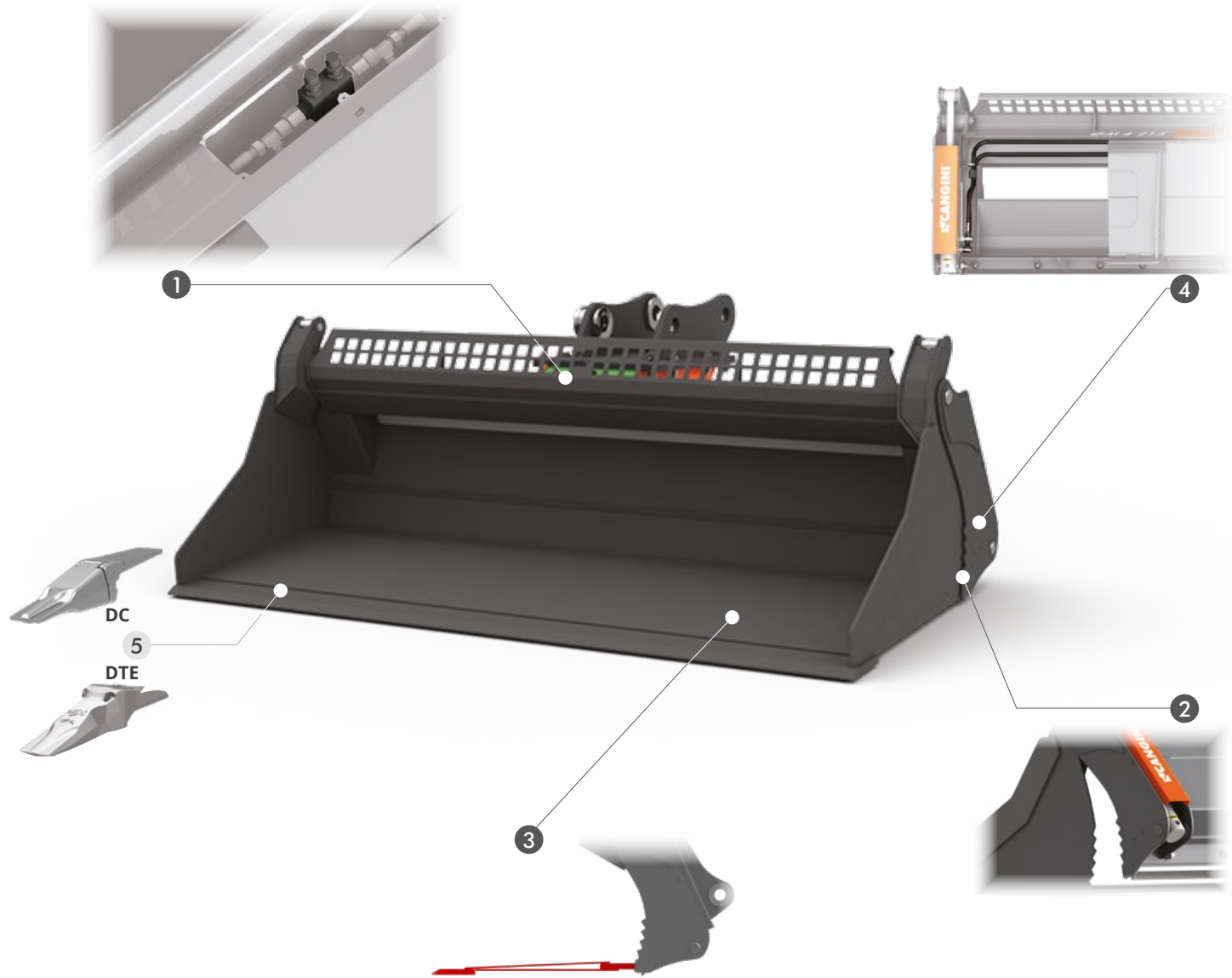


W/O COUPLER

SAE CAP.

| MOD.             | M4-102    | M4-110     | M4-125     | M4-140     | M4-152      | M4-170      | M4-188      | M4-200      | M4-215      |
|------------------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| <b>A</b> MM (IN) | 1020 (40) | 1100 (43)  | 1250 (49)  | 1400 (55)  | 1520 (60)   | 1700 (67)   | 1880 (74)   | 2000 (79)   | 2150 (85)   |
| <b>B</b> MM (IN) | 850 (33)  | 850 (33)   | 850 (33)   | 850 (33)   | 850 (33)    | 950 (37)    | 950 (37)    | 950 (37)    | 950 (37)    |
| <b>C</b> MM (IN) | 900 (35)  | 900 (35)   | 900 (35)   | 900 (35)   | 900 (35)    | 950 (37)    | 950 (37)    | 950 (37)    | 950 (37)    |
| <b>D</b> MM (IN) | 650 (26)  | 650 (26)   | 650 (26)   | 650 (26)   | 650 (26)    | 700 (28)    | 700 (28)    | 700 (28)    | 700 (28)    |
| KG (LB)          | 240 (529) | 250 (551)  | 265 (584)  | 285 (628)  | 300 (661)   | 370 (816)   | 390 (860)   | 410 (904)   | 440 (970)   |
| L (GAL)          | 265 (70)  | 290 (76,6) | 330 (87,2) | 375 (99,1) | 410 (108,3) | 490 (129,4) | 550 (145,3) | 580 (153,2) | 630 (166,4) |

|             | M4-102             | M4-110             | M4-125             | M4-140             | M4-152             | M4-170             | M4-188             | M4-200             | M4-215             |
|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| N.          | 5                  | 5                  | 6                  | 6                  | 6                  | 7                  | 7                  | 8                  | 8                  |
| 5 DC TEETH  | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   |
| 5 DTE TEETH | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) |



### STANDARD TECHNICAL FEATURES

- SAFETY CHECK-VALVE**  
IT ALLOWS TO KEEP THE TOOL SAFE EVEN IN CASE OF DAMAGE OF THE PIPES OR PRESSURE LOSS IN THE SYSTEM.
- SIDE TOOTHING**  
ITS PROFILE ENABLES TO KEEP THE GRABBED MATERIAL.
- HB400 REINFORCEMENT STRIPES AND CUTTING EDGE**  
THEY GRANT HIGH RESISTANCE AGAINST DEFORMATION OF THE MORE STRESSED PARTS.
- HYDRAULIC SYSTEM INTEGRATED INTO THE BODY**  
IT'S INTEGRATED INTO THE BODY THUS PROTECTING PIPES FROM DAMAGES DURING THE WORKING PHASE.

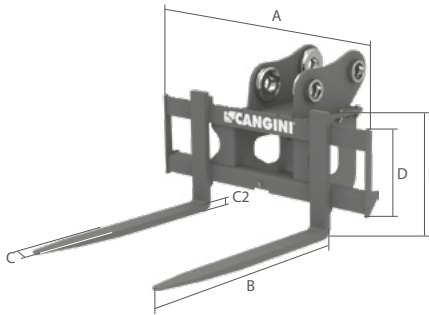
### OPTIONAL

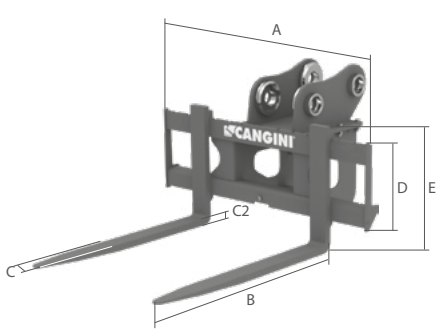

- DC TEETH DTE TEETH**





THIS CONFIGURATION ENABLES THE COUPLING TO EXCAVATORS MAKING IT SUITABLE FOR THE HANDLING OF LOADS IN HARD-TO-REACH AREAS. HOWEVER, IT IS IMPORTANT TO CHECK THAT THE EXCAVATOR IS COMPLIANT FOR LIFTING IN ACCORDANCE WITH THE MACHINERY DIRECTIVE.



|              |  | MOD.    | FK10 S  |        | FK10  |        | FK18 S |        |       |
|--|--|---------|---------|--------|-------|--------|--------|--------|-------|
|  |  | A       | MM (IN) | 1150   | (45)  | 1150   | (45)   | 1150   | (45)  |
|  |  | B       | MM (IN) | 1000   | (39)  | 1200   | (47)   | 1200   | (47)  |
|  |  | C       | MM (IN) | 80     | (3,1) | 80     | (3,1)  | 100    | (3,9) |
|  |  | C2      | MM (IN) | 30     | (1,2) | 30     | (1,2)  | 35     | (1,4) |
|  |  | D       | MM (IN) | 406    | (16)  | 406    | (16)   | 406    | (16)  |
|  |  | E       | MM (IN) | 620    | (24)  | 620    | (24)   | 620    | (24)  |
|  W/O COUPLER |  | KG (LB) | 170     | (375)  | 182   | (401)  | 210    | (463)  |       |
|  |  | KG (LB) | 1000    | (2205) | 1000  | (2205) | 1800   | (3968) |       |

**\*\*NB:** THESE CONFIGURATIONS CAN BE INSTALLED ON THE FOLLOWING MODELS: CR, CS UP TO CS80, CW UP TO CW10





MIX-SF MIXING BUCKET SAFE DISCHARGE



EXCAVATOR



PATENTED

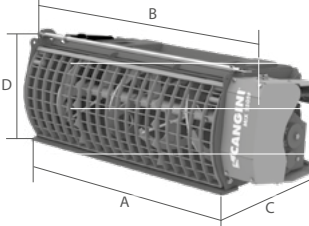








HB400



NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

GEARBOX TRANSMISSION DELIVERS HIGH PERFORMANCE AND IS ALMOST MAINTENANCE-FREE HIGH PERFORMANCES AND DOES NOT REQUIRE CONTINUOUS MAINTENANCE INTERVENTIONS. THE USE OF DUAL CROSS RELIEF AND FLOW DIVIDER VALVES GRANTS EFFECTIVENESS AND RELIABILITY EVEN IN THE MOST DIFFICULT WORK CONDITIONS.

|  |                | MOD.            | MIX 150SF.2 |             | MIX 200SF.2 |             | MIX 250SF.2 |             | MIX 350SF.2 |  | MIX 450SF.2 |  | MIX 600SF.2 |  |
|--|----------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|-------------|--|-------------|--|
|  |                | A               | MM (IN)     | 1000 (39)   | 1100 (43)   | 1350 (53)   | 1350 (53)   | 1670 (66)   | 1750 (69)   |  |             |  |             |  |
|  |                | B               | MM (IN)     | 1265 (49,8) | 1360 (53,5) | 1610 (63,3) | 1630 (64)   | 1946 (77)   | 2018 (79)   |  |             |  |             |  |
|  |                | C               | MM (IN)     | 620 (24)    | 650 (26)    | 650 (26)    | 720 (28)    | 720 (28)    | 835 (33)    |  |             |  |             |  |
|  |                | D               | MM (IN)     | 530 (21)    | 580 (23)    | 610 (24)    | 680 (27)    | 680 (27)    | 800 (31)    |  |             |  |             |  |
|  | W/O COUPLER    | KG (LB)         | 260 (573)   | 315 (694)   | 350 (771)   | 405 (892)   | 460 (1014)  | 555 (1223)  |             |  |             |  |             |  |
|  |                | KG (LB)         | 600 (1323)  | 775 (1708)  | 925 (2039)  | 1210 (2667) | 1495 (3295) | 1930 (4254) |             |  |             |  |             |  |
|  |                | L (GAL)         | 150 (39,6)  | 200 (52,8)  | 250 (66)    | 350 (92,5)  | 450 (118,9) | 600 (158,5) |             |  |             |  |             |  |
|  | DISCHARGE PIPE | MM (IN)         | 210 (8)     | 210 (8)     | 210 (8)     | 210 (8)     | 210 (8)     | 210 (8)     |             |  |             |  |             |  |
|  | MAX            | L/MIN (GAL/MIN) | 70 (19)     | 70 (19)     | 70 (19)     | 70 (19)     | 70 (19)     | 70 (19)     |             |  |             |  |             |  |
|  | MAX            | BAR (PSI)       | 200 (2901)  | 200 (2901)  | 200 (2901)  | 200 (2901)  | 200 (2901)  | 200 (2901)  |             |  |             |  |             |  |



STANDARD TECHNICAL FEATURES

1 SAFE LOCKING/DISCHARGE (PATENTED)

THE OPERATOR LOCKS THE DISCHARGE PIPE FROM THE BUCKET'S SIDE IN THE SAFEST WORK CONDITION.

2 CONTROL ROD FOR THE DISCHARGE PIPE

IT ENABLES THE PIPE'S DISPLACEMENT FOR THE SIDE POURING.

3 AUGER REMOVAL

THE BUCKET'S BODY HAS BEEN DESIGNED IN A SUCH WAY THAT THE ENTIRE AUGER CAN BE REMOVED THUS MAKING THE MAINTENANCE OPERATION EASIER.

4 GEARMOTOR

IT GUARANTEES HIGH PERFORMANCES TO THE ENTIRE SYSTEM.

5 ELECTRIC KIT

ENABLES SELECTION OF MIXING OR UNLOADING HATCH FROM THE CAB.

NB : THE ATTACHMENT IS IS SUPPLIED COMPLETE WITH PIPES.

OPTIONAL

6 FLOWRATE REDUCERS

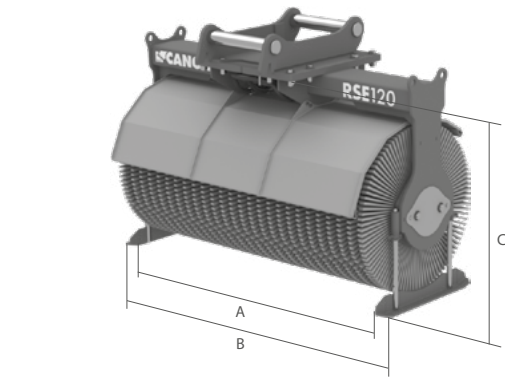
ADVISED FOR MACHINES WITH OILFLOW HIGHER THAN 70 L/MIN.



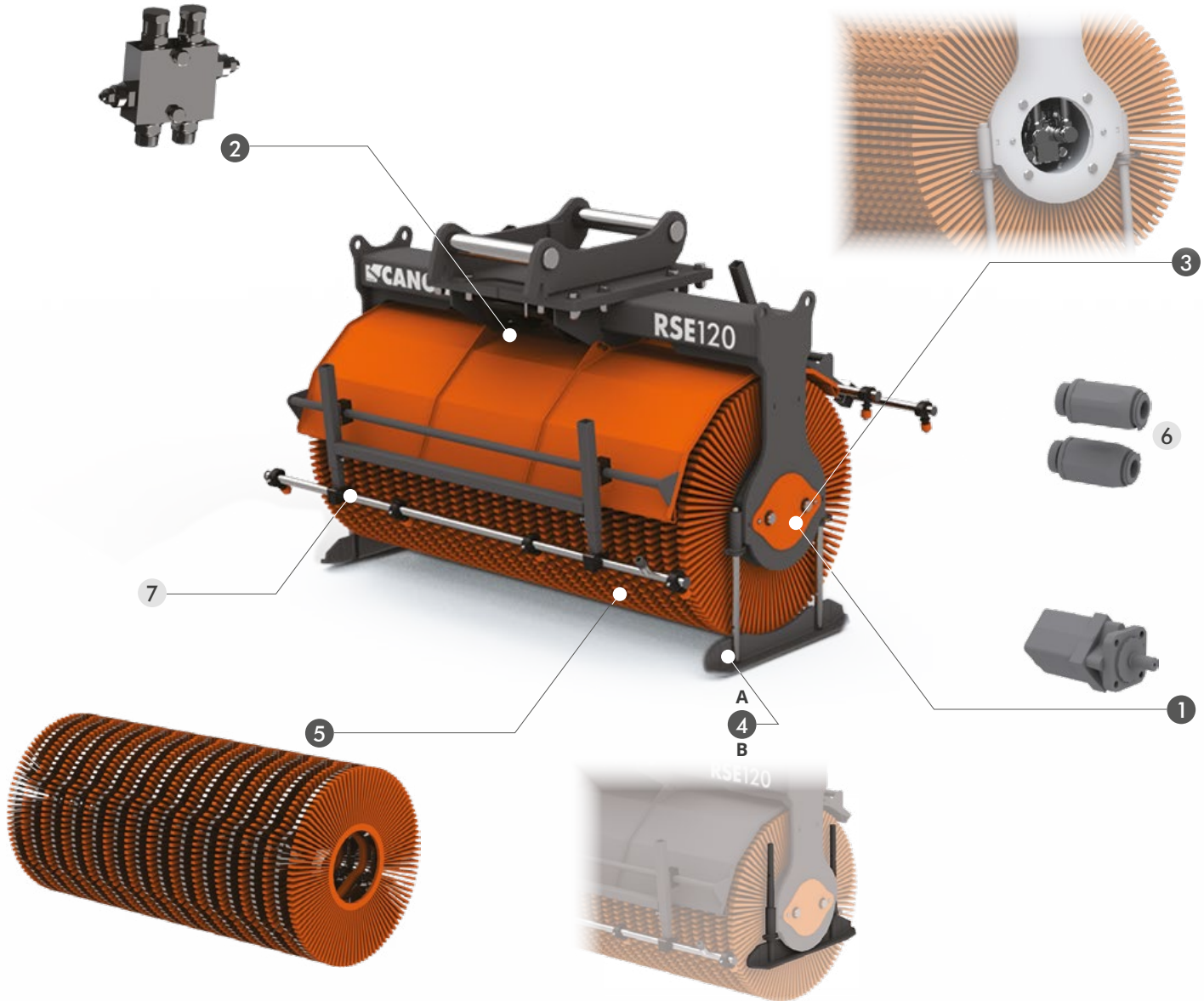




THE BROOM SWEEPER FOR EXCAVATORS IS SUITABLE FOR THE CLEANING OF HORIZONTAL AND VERTICAL SURFACES AND OF AREAS THAT MACHINES WITH FRONTAL ATTACHMENTS CANNOT REACH. IT IS EQUIPPED WITH STABILIZING SHOES TO SAFEGUARD BRUSHES WHEN THE BROOM IS SET TO THE GROUND. STANDARD THROTTLE VALVES AND PRESSURE RELIEF VALVES. THE DIRECT DRIVE ENGINE WITH DISK GEARBOX IS PLACED INSIDE THE BRUSH SHAFT TO REDUCE THE TOOL'S OPERATING OVERALL WIDTH.



|  | MOD. | RSE120          |            |
|--|------|-----------------|------------|
|  | A    | MM (IN)         | 1210 (48)  |
|  | B    | MM (IN)         | 1310 (52)  |
|  | C    | MM (IN)         | 800 (31)   |
|  |      | KG (LB)         | 155 (342)  |
|  |      | MM (IN)         | 600 (24)   |
|  |      | N.              | 25 + 2     |
|  |      | L/MIN (GAL/MIN) | 70 (19)    |
|  |      | BAR (PSI)       | 180 (2611) |



STANDARD TECHNICAL FEATURES

- 1 **ENGINE WITH SQUARE FLANGES AND DISK GEARBOX**
- 2 **PRESSURE RELIEF VALVE**  
THEY PREVENT THE ENGINE FROM PRESSURE PEAKS DURING WORKING PHASES CALIBRATED AT 180 BAR.
- 3 **DIRECT DRIVE ENGINE**  
THE SOLUTION OF THE DISK GEARBOX ENGINE MOUNTED DIRECTLY ON THE BRUSH SHAFT ALLOWS TO REDUCE THE OVERALL DIMENSIONS OF THE ROLLER CONSIDERABLY AND MAKE IT MORE VERSATILE.
- 4 **ADJUSTABLE STABILIZING SHOES: A) STAND-BY POSITION - B) WORK POSITION**
- 5 **PPL + STEEL BRUSH KIT**  
RECOMMENDED FOR THE CLEANING OF PARTICULARLY ABRASIVE SURFACES.

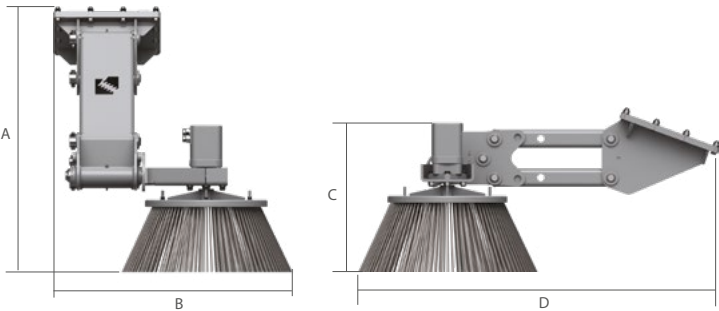
OPTIONAL

- 6 **FLOWRATE REDUCERS**  
ADVISED FOR MACHINES WITH OILFLOW HIGHER THAN 70 L/MIN
- 7 **OUTSIDE SPRINKLERS KIT**  
THIS KIT DOES NOT INCLUDE TANK AND PUMP.

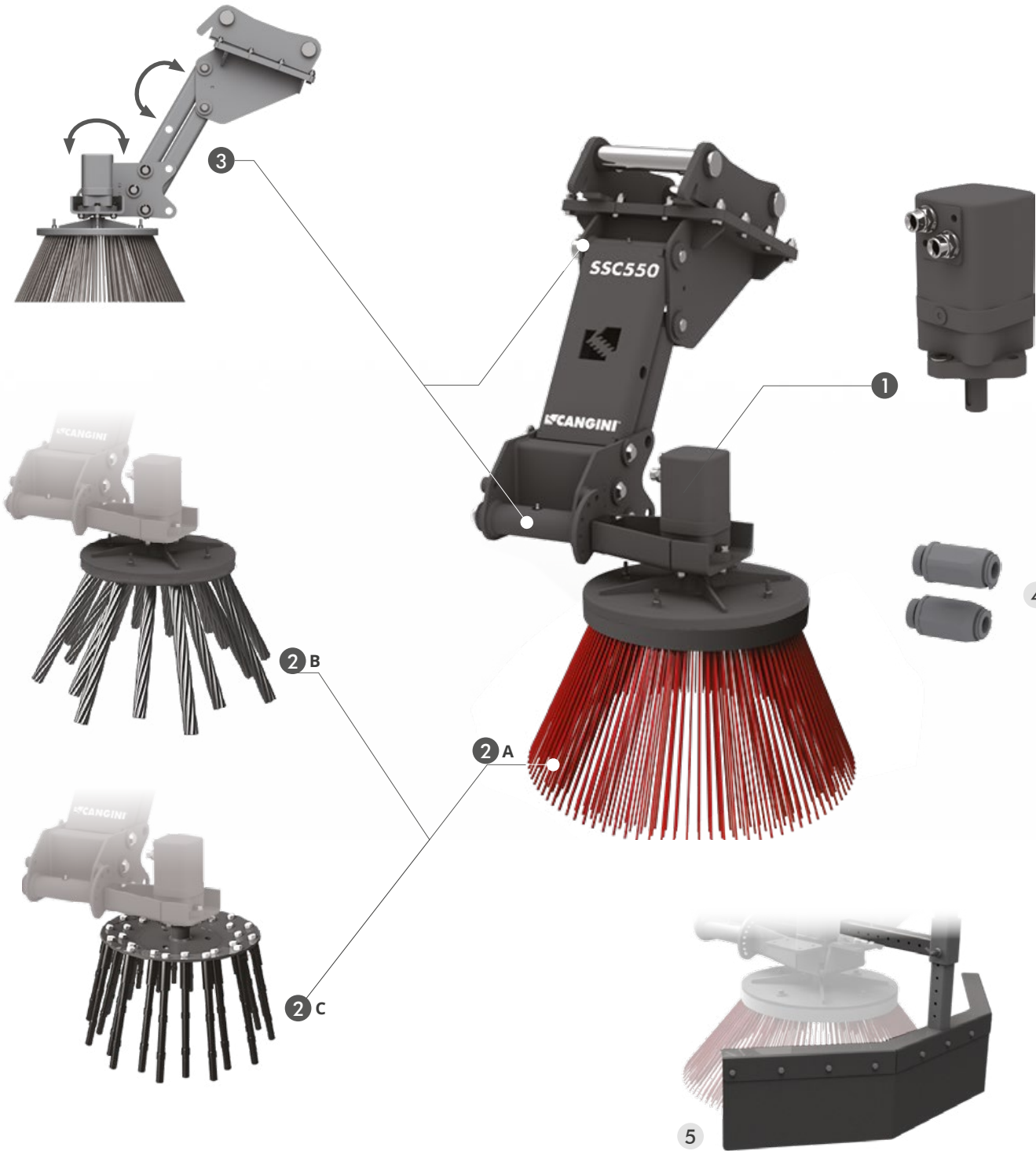




THIS BRUSH CAN BE APPLIED TO EXCAVATORS. IT IS MADE OF STEEL BRISTLES AND THEREFORE IDEAL FOR THE DEEP CLEANING AND WEED-REMOVAL OF CURBS, PLATFORMS AND BANKS, AND ASPHALTED AREAS. IT IS EQUIPPED WITH STANDARD FLOATING SYSTEM AND JOINT ON ITS HEAD THAT ENABLE THE BRUSH TO ADAPT TO ANY SURFACE. BOTH POSITIONING SYSTEMS CAN BE BLOCKED TO A FIX POSITION FOLLOWING THE UTILIZER'S NEEDS. IN ITS PPL BRISTLE VERSION THE BRUSH CAN CLEAN MORE DELICATE SURFACES WHERE THE WEED-REMOVAL IS NOT NECESSARY.



| MOD.            | SSC550          |      |        |
|-----------------|-----------------|------|--------|
| A               | MM (IN)         | 890  | (35)   |
| B               | MM (IN)         | 850  | (33)   |
| C               | MM (IN)         | 550  | (22)   |
| D               | MM (IN)         | 1260 | (50)   |
| FLOATING STROKE | MM (IN)         | 340  | (13)   |
| W/O COUPLER     | KG (LB)         | 100  | (220)  |
|                 | MM (IN)         | 640  | (25)   |
| MAX.            | L/MIN (GAL/MIN) | 70   | (19)   |
| MAX.            | BAR (PSI)       | 200  | (2901) |



STANDARD TECHNICAL FEATURES

- 1 ENGINE WITH SQUARE FLANGES AND DISK GEARBOX
- 2 PPL BRUSH (A) STEEL BRUSH + RUBBER PLATE (B) STEEL BRUSH + STEEL PLATE (C)
- 3 FLOATING SYSTEM AND JOINT

OPTIONAL

- 4 FLOWRATE REDUCERS  
ADVISED FOR MACHINES WITH OILFLOW HIGHER THAN 70 L/MIN
- 5 STONE DEFLECTOR



FRONTAL ATTACHMENTS



SKID LOADER



MINI SKID













































WHEEL LOADER



BACKHOE LOADER



TELEHANDLER

|                                       |    |   |   |   |   |   |   |
|---------------------------------------|----|---|---|---|---|---|---|
| WG-F FRONT WOOD GRABS                 | 58 |    |    |    |    |    |    |
| V-F SCREENING BUCKET                  | 60 |    |    |    |    |    |    |
| VMS-F MULTISCREENING BUCKET           | 62 |    |    |    |    |    |    |
| VMS TWIN-F MULTISCREENING BUCKET      | 64 |    |   |   |    |    |    |
| TC-F FRONT MULCHER                    | 66 |  |  |  |  |   |   |
| TX-F FORCE ONE FRONT FORESTRY MULCHER | 68 |  |  |   |  |   |   |
| BTC-F SHARP-CUT BRANCH CUTTER BAR     | 70 |  |  |  |  |   |   |
| M4 4 IN 1 BUCKET                      | 72 |  |  |  |   |   |   |
| FK FRONT PALLET FORK                  | 74 |  |  |  |  |  |  |

FRONTAL ATTACHMENTS



SKID LOADER



MINI SKID













































WHEEL LOADER



BACKHOE LOADER



TELEHANDLER

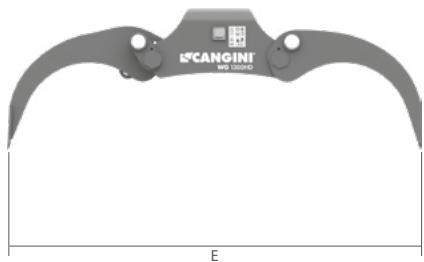
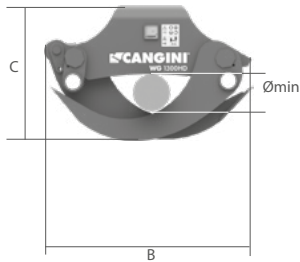
|                                       |    |   |   |   |   |   |   |
|---------------------------------------|----|---|---|---|---|---|---|
| MIX-SF MIXING BUCKET SAFE DISCHARGE   | 76 |    |    |    |    |    |    |
| LN STANDARD SNOW BLADE                | 78 |    |    |    |    |    |    |
| LBD DOZER BLADE                       | 80 |    |    |   |    |    |    |
| XPLANE LASER DOZER BLADE              | 82 |    |    |   |    |   |   |
| XPLANE LASER DOZER BLADE - IOT SYSTEM | 84 |   |  |   |  |   |   |
| SPZ SWEEPER BUCKET                    | 86 |  |  |  |  |  |  |
| S EASY SWEEPY SWEEPER                 | 88 |  |  |   |  |  |  |
| R EASY SWEEPY FRONT ROLLER            | 90 |  |  |   |  |  |  |
| F ALL DUSTER JOINTED BRUSH            | 92 |  |  |   |  |   |   |





**NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)**

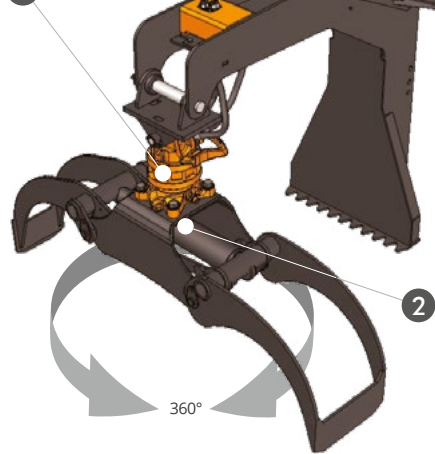
THE LOG GRAPPLE CAN BE EQUIPPED WITH 360° HYDRAULIC ROTATION, PARTS SUBJECT TO GREATER WEAR ARE MADE OF DOMEX 700. STANDARD EQUIPMENT INCLUDES A BLOCK VALVE ON THE CLOSING CYLINDER.



| MOD.        |                 | WGF 100 |        | WGF 110 |        | WGF 130 |        |
|-------------|-----------------|---------|--------|---------|--------|---------|--------|
| <b>A</b>    | MM (IN)         | 330     | (13)   | 395     | (16)   | 425     | (17)   |
| <b>B</b>    | MM (IN)         | 610     | (24)   | 655     | (26)   | 735     | (29)   |
| <b>C</b>    | MM (IN)         | 410     | (16)   | 440     | (17)   | 495     | (19)   |
| <b>D</b>    | MM (IN)         | 650     | (25)   | 695     | (27)   | 790     | (31)   |
| <b>E</b>    | MM (IN)         | 1090    | (43)   | 1180    | (46)   | 1400    | (55)   |
| W/O COUPLER | KG (LB)         | 166     | (366)  | 210     | (462)  | 240     | (529)  |
| MIN.        | MM (IN)         | 70      | (2)    | 80      | (3,1)  | 75      | (2,9)  |
| MAX.        | L/MIN (GAL/MIN) | 50      | (13)   | 50      | (13)   | 50      | (13)   |
| MAX.        | KG (LB)         | 500     | (1102) | 1000    | (2204) | 1000    | (2204) |
| MAX.        | BAR (PSI)       | 200     | (2901) | 200     | (2901) | 200     | (2901) |

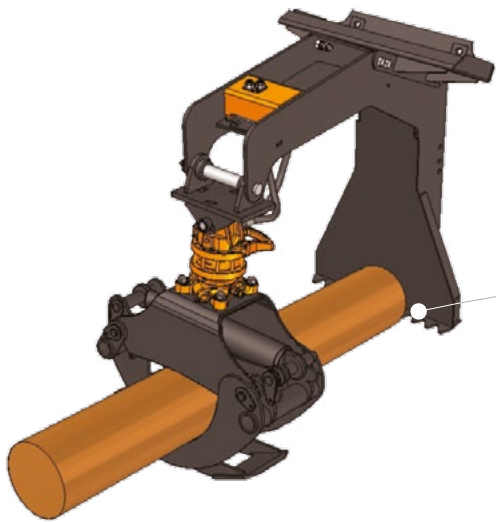


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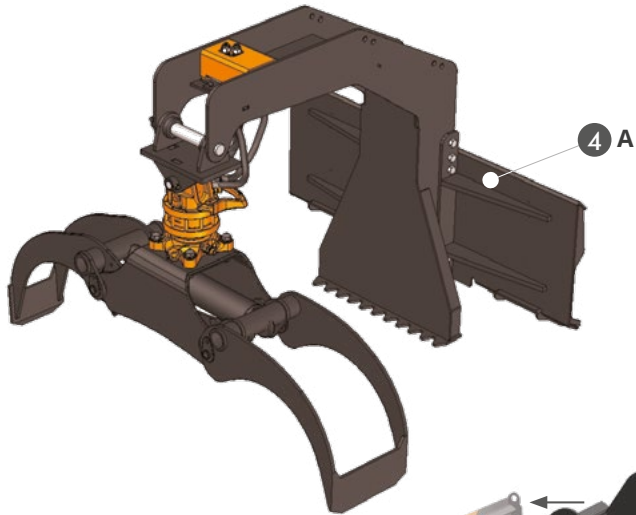


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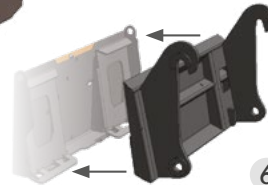
360°



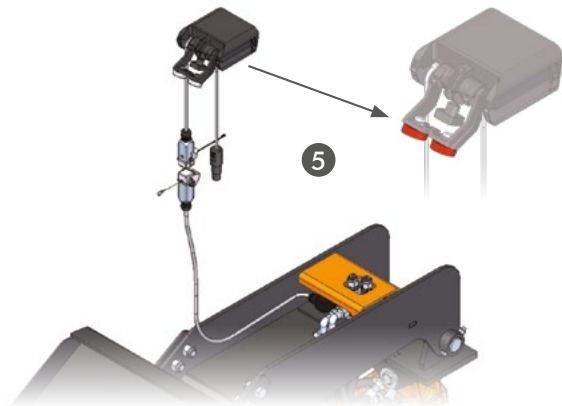
3



4 A



4 B



5

## STANDARD

### 1 FRONT WOOD GRABS WITH HYDRAULIC 360° ROTATION

### 2 BLOCK VALVE ON THE CYLINDER

### 3 SERRATED BLADE AS SUPPORT TO MATERIAL HANDLING

IT OFFERS A SUPPORT BASE DURING THE HANDLING OF THE LIFTED MATERIAL

### 4A SKID LOADER HITCH

### 4B MINI SKID LOADER HITCH

### 5 2 HOSES KIT

IT ALLOWS THE FUNCTIONING OF THE ROTATION AND OPENING/CLOSING OF THE CLAWS ON MACHINES PROVIDED WITH ONE DOUBLE EFFECT LINE.IL CONTROL KIT WITH MAGNETS TO EASILY PUT IT INSIDE THE CAB.

## OPTIONAL

### 6 ARTICULATED LOADERS, BACKHOE LOADERS HITCH





V-F FRONTAL  
SCREENING BUCKET



PATENTED



HB400



SKID LOADER



MINI SKID



WHEEL LOADER



BACKHOE LOADER

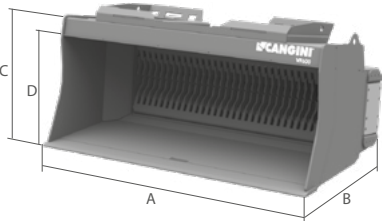


TELEHANDLER



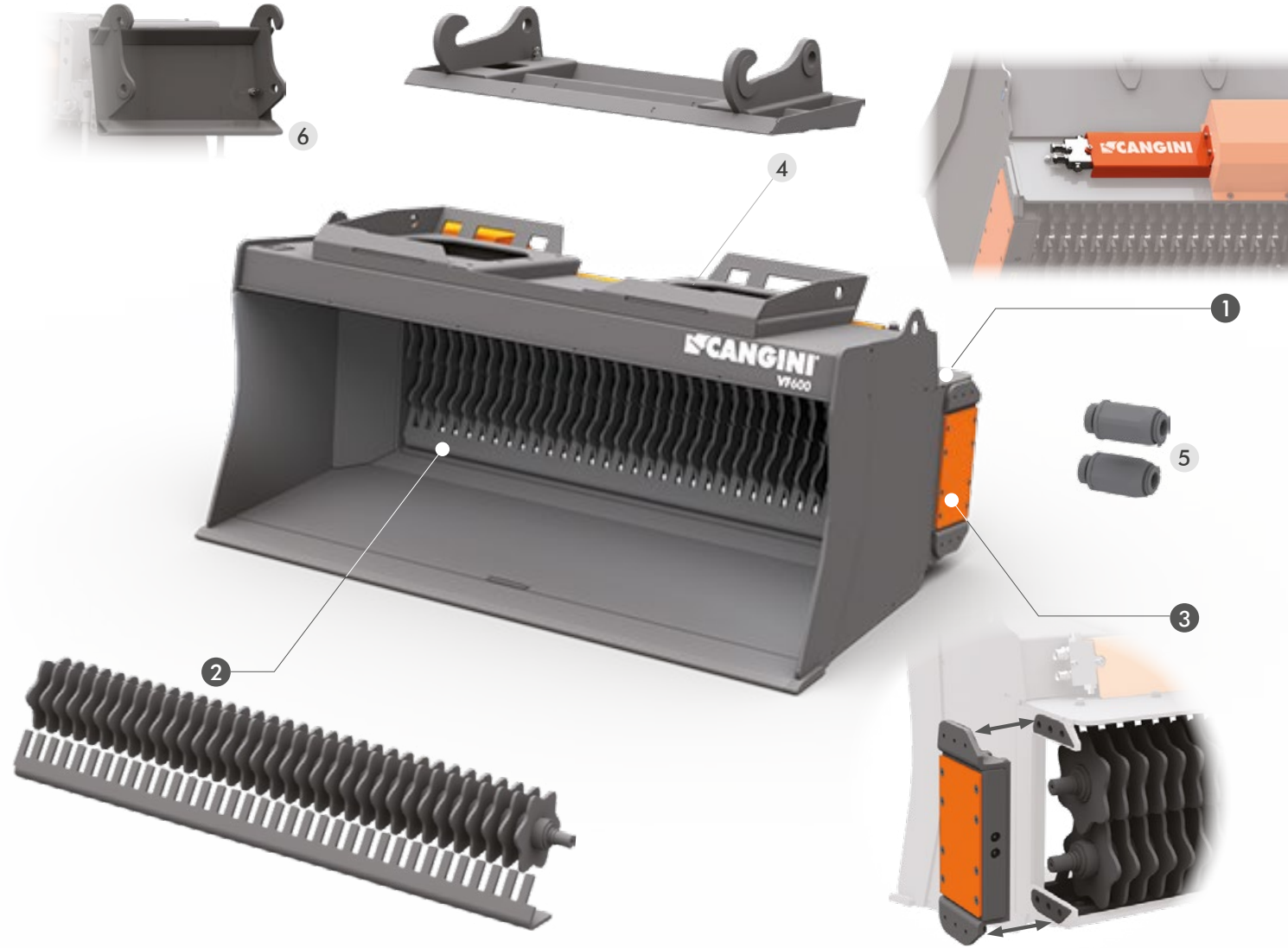
NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

IT GRADES MATERIALS FROM DEMOLITION, DIGGING AND EARTH-MOVING WORKS. IT IS IDEAL ALSO FOR THE MIXING OF TERRAIN AND PEAT. THE CORE-ELEMENT IS AN HYDRAULIC SIEVE WITH ROTATING HB400 KNIVES. THE MATERIAL THICKNESS CAN VARY FROM 0 TO 20 (0 - 0,8 IN) AND FROM 0 TO 35 (0 - 1,4 IN) WITH A STANDARD EQUIPMENT.



|  | MOD. | VF600           |                         | VF700                   |                         | VF1000                  |                         | VF1300 |  | VF1600 |  |
|--|------|-----------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------|--|--------|--|
| <br><br><br> | A    | MM (IN)         | 1200 (47)               | 1400 (55)               | 1600 (63)               | 1 800 (71)              | 2000 (79)               |        |  |        |  |
|  | B    | MM (IN)         | 720 (28)                | 840 (33)                | 840 (33)                | 1050 (41)               | 1050 (41)               |        |  |        |  |
|  | C    | MM (IN)         | 620 (24)                | 650 (26)                | 650 (26)                | 780 (31)                | 780 (31)                |        |  |        |  |
|  | D    | MM (IN)         | 550 (22)                | 580 (23)                | 580 (23)                | 710 (28)                | 710 (28)                |        |  |        |  |
|    |      | KG (LB)         | 320 (705)               | 370 (816)               | 420 (926)               | 670 (1477)              | 800 (1764)              |        |  |        |  |
|    |      | KG (LB)         | 600 (1323)              | 700 (1543)              | 915 (2017)              | 1300 (2866)             | 1550 (3417)             |        |  |        |  |
|    |      | MM (IN)         | 0/20-0/35 (0/0,8-0/1,4) | 0/20-0/35 (0/0,8-0/1,4) | 0/20-0/35 (0/0,8-0/1,4) | 0/20-0/35 (0/0,8-0/1,4) | 0/20-0/35 (0/0,8-0/1,4) |        |  |        |  |
|    |      | L/MIN (GAL/MIN) | 40-70 (11/19)           | 40-70 (11/19)           | 40-70 (11/19)           | 60-90 (16/24)           | 60-90 (16/24)           |        |  |        |  |
|    |      | N.              | 2                       | 2                       | 2                       | 2                       | 2                       |        |  |        |  |
|    |      | L (GAL)         | 186 (49,1)              | 220 (58,1)              | 330 (87,2)              | 420 (111)               | 500 (132,1)             |        |  |        |  |

|  | VF600 | VF700 | VF1000 | VF1300 | VF1600 |
|--|-------|-------|--------|--------|--------|
|--|-------|-------|--------|--------|--------|



STANDARD

1 SAFETY VALVE

IT PROTECTS THE ENGINE AGAINST THE PRESSURE PEAKS OCCURRING DURING THE WORKING CYCLES.

2 SHAFT SYSTEM

ALL KNIVES ARE MADE OF HB400.

3 PATENTED SHAFT REPLACEMENT SYSTEM

THANKS TO THE PATENTED SYSTEM, IT IS POSSIBLE TO REPLACE SHAFTS RAPIDLY AND MODIFY THE SIEVED MATERIAL SIZE, WITHOUT INTERVENING ON TRANSMISSION.

OPTIONAL

4 ARTICULATED LOADERS, BACKHOE LOADERS AND TELEHANDLER HANDLERS HITCH

THE WHEEL LOADER COUPLING PLATE CAN BE ADDED TO THE STANDARD SKID COUPLING SYSTEM.

5 FLOWRATE REDUCERS

MANDATORY ON HIGHFLOW MACHINES OR WITH OILRATE HIGHER THAN 70 L/MIN.

6 ARTICULATED LOADERS HITCH





VMS-F MULTISCREENING  
FRONTAL BUCKET



SKID LOADER



MINI SKID



WHEEL LOADER



BACKHOE LOADER



TELEHANDLER



PATENTED

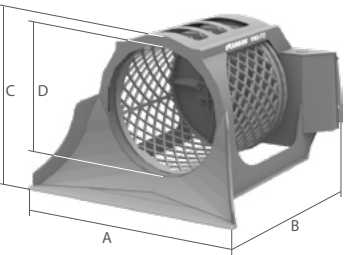


HB400



**NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)**

THE MULTISCREENING BUCKET WITH THE NEW ROTARY DOUBLE DRUM CONCEPT FOR FRONTAL COUPLING AND MACHINES UP TO 14 TONS (30865 LB) IS SUITABLE FOR SELECTION DUTIES ON TURNED SOILS AND RESULTING MATERIALS. THE MATERIAL SIZE CHANGE - FROM 25 TO 60 MM (1 - 2,4 IN). - IS CONTROLLED DIRECTLY AND HYDRAULICALLY FROM THE CAB WITHOUT REPLACING ANY MECHANICAL PART THUS REDUCING THE WORK TIMES CONSIDERABLY.

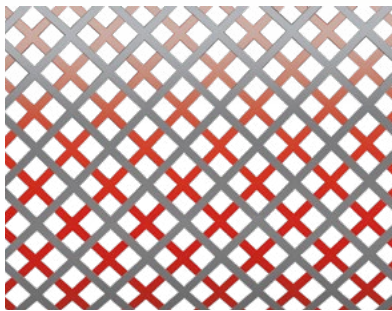
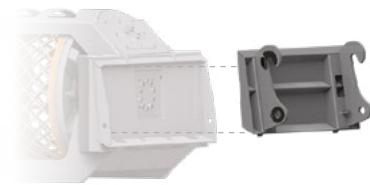
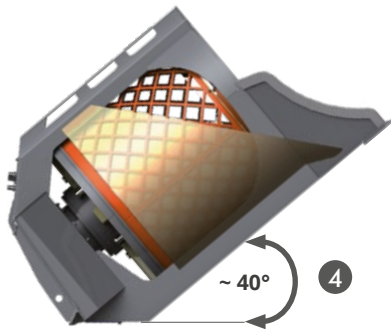


|             | MOD.            |  | VMS-F6 |        | VMS-F8 |        | VMS-F10 |         |
|-------------|-----------------|--|--------|--------|--------|--------|---------|---------|
| W/O COUPLER | KG (LB)         |  | 360    | (794)  | 450    | (992)  | 600     | (1323)  |
| OPERATING   | KG (LB)         |  | 550    | (1213) | 770    | (1698) | 1050    | (2315)  |
| MIN.        | MM (IN)         |  | 25     | (1)    | 25     | (1)    | 25      | (1)     |
| MAX.        | MM (IN)         |  | 65     | (2,6)  | 65     | (2,6)  | 65      | (2,6)   |
| MAX.        | L/MIN (GAL/MIN) |  | 80     | (21)   | 80     | (21)   | 80      | (21)    |
| MAX.        | BAR (PSI)       |  | 350    | (5076) | 350    | (5076) | 350     | (5076)  |
|             | L (GAL)         |  | 170    | (44,9) | 285    | (75,3) | 400     | (105,7) |

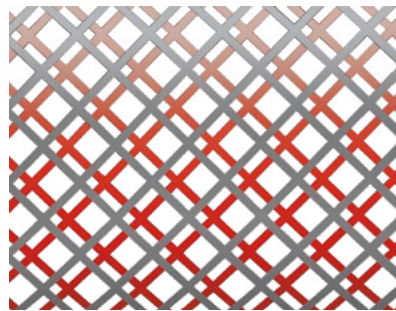
VMS-F6

VMS-F8

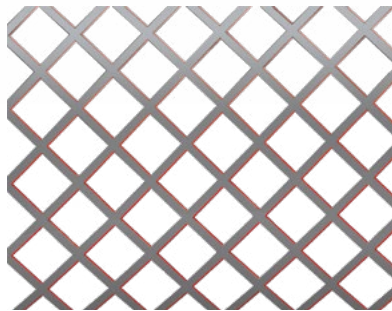
VMS-F10



25 MM



INTERMEDIATE



65 MM

STANDARD TECHNICAL FEATURES

**1 HB400 DRUMS**

THE DRUMS CAN AFFORD HIGH WORK PACES THANKS TO THEIR HIGHLY RESISTANT MATERIAL THAT EXTENDS THEIR USEFUL LIFE.

**2 AUTOMATIC SCREENING SYSTEM**

THE NEW ROTARY DOUBLE DRUM CONCEPT WITH HYDRAULIC CONTROL FROM THE CAB ALLOWS TO SELECT THE MATERIAL SIZE, FROM 25 TO 60 MM (1 - 2,4 IN), WITHOUT STOPPING THE WORK CYCLE.

**3 2 HOSES KIT**

IT ALLOWS THE FUNCTIONING OF THE ROTATION AND HYDRAULIC SHIFTING OF THE SCREENING DRUMS ON MACHINES PROVIDED WITH A DOUBLE EFFECT LINE. CONTROL KIT WITH MAGNETS TO EASILY PUT IT INSIDE THE CAB.

**4 OPERATING LOAD AND OPTIMAL WORKING CONDITION**

OPTIONAL

**5 HITCH FOR ARTICULATED LOADERS, BACKHOE LOADERS AND TELEHANDLER HANDLERS.**

IT'S POSSIBLE TO ADD THE HITCH FOR ARTICULATED LOADERS, BACKHOE LOADERS AND TELEHANDLER HANDLERS TO THE SKID LOADER HITCH PROVIDED WITH THE STANDARD EQUIPMENT.





VMS TWIN-F MULTISCREENING  
FRONTAL BUCKET



WHEEL LOADER

BACKHOE LOADER

TELEHANDLER



PATENTED

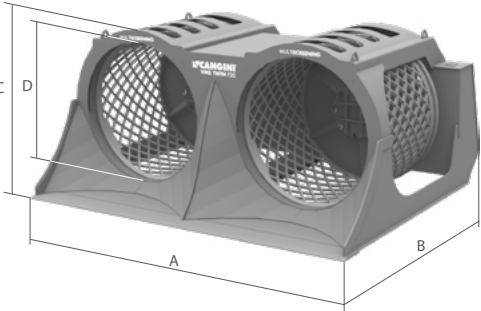


HB400



**NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)**

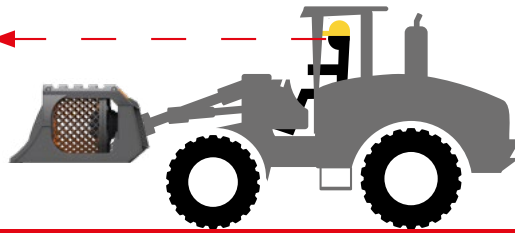
THE NEW MULTISCREENING BUCKET FOR FRONTAL COUPLING, WITH TWO ROTARY DOUBLE DRUMS COUPLED IN A SINGLE FRAME, IS SUITABLE FOR SELECTION DUTIES ON TURNED SOILS AND RESULTING MATERIALS. THE MATERIAL SIZE CHANGE, FROM A MINIMUM OF 25 MM TO A MAXIMUM OF 65 MM (1 - 2,4 IN), IS HYDRAULICALLY CONTROLLED FROM THE CAB WITHOUT REPLACING ANY MECHANICAL PART AND CONSIDERABLY REDUCING THE WORKING TIMES.



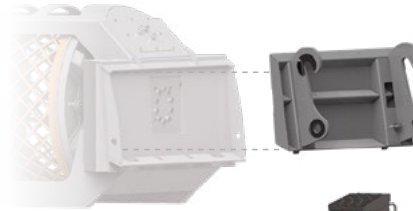
|             | MOD.            | VMS TWIN F20 |           |
|-------------|-----------------|--------------|-----------|
| A           | MM (IN)         | 2200         | (87)      |
| B           | MM (IN)         | 1755         | (70)      |
| C           | MM (IN)         | 1000         | (39)      |
| D           | MM (IN)         | 870          | (34)      |
| W/O COUPLER | KG (LB)         | 1280         | (2822)    |
| OPERATING   | KG (LB)         | 2540         | (5600)    |
| MIN.        | MM (IN)         | 25           | (1)       |
| MAX.        | MM (IN)         | 60           | (2,4)     |
| L/MIN       | L/MIN (GAL/MIN) | 60           | (16)      |
| MAX.        | L/MIN (GAL/MIN) | 150          | (39)      |
| BAR         | BAR (PSI)       | 350          | (5076)    |
| L           | L (GAL)         | 420 X 2      | (111 X 2) |

|     | VMS TWIN F20 |
|-----|--------------|
| 6 € | 977,00       |

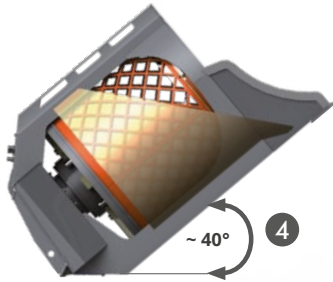
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6



DOUBLE PERFORMANCE- EXCELLENT VISIBILITY



4



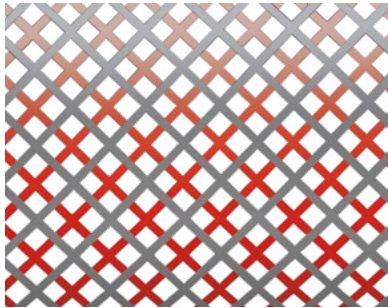
3

1

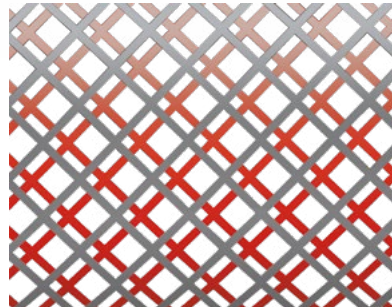
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2

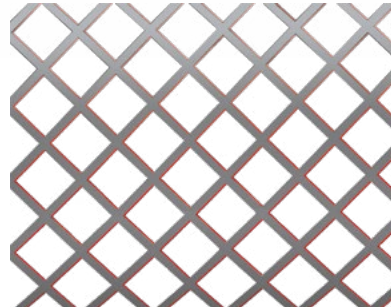
2



25 MM



INTERMEDIATE



65 MM

STANDARD TECHNICAL FEATURES

1 B400 DRUMS

THE DRUMS CAN AFFORD HIGH WORK PACES THANKS TO THEIR HIGHLY RESISTANT MATERIAL THAT EXTENDS THEIR USEFUL LIFE.

2 AUTOMATIC SCREENING SYSTEM

THE NEW ROTARY DOUBLE DRUM CONCEPT WITH HYDRAULIC CONTROL FROM THE CAB ALLOWS TO SELECT THE MATERIAL SIZE, FROM 25 TO 65 MM (1 - 2,4 IN), WITHOUT STOPPING THE WORK CYCLE.

3 2 HOSES KIT

IT ALLOWS THE FUNCTIONING OF THE ROTATION AND HYDRAULIC SHIFTING OF THE SCREENING DRUMS ALSO ON MACHINES PROVIDED WITH A DOUBLE EFFECT LINE. CONTROL KIT WITH MAGNETS TO EASILY PUT IT INSIDE THE CAB.

4 OPERATING LOAD

5 DOUBLE PERFORMANCE- EXCELLENT VISIBILITY (PATENTED)

THE TWO SCREENING DRUMS REDUCE THE VERTICAL FOOTPRINT, GRANTING AN EXCELLENT VISIBILITY AND THEREFORE A GREATER PRODUCTIVITY.

OPTIONAL

6 HITCH FOR ARTICULATED LOADERS, BACKHOE LOADERS AND TELEHANDLER HANDLERS.

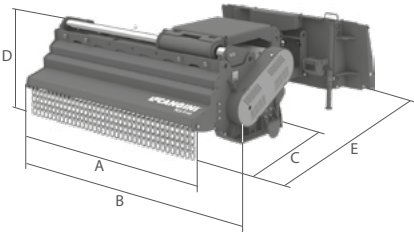
IT'S POSSIBLE TO ADD THE HITCH FOR ARTICULATED LOADERS, BACKHOE LOADERS AND TELEHANDLER HANDLERS TO THE SKID LOADER HITCH PROVIDED WITH THE STANDARD EQUIPMENT.



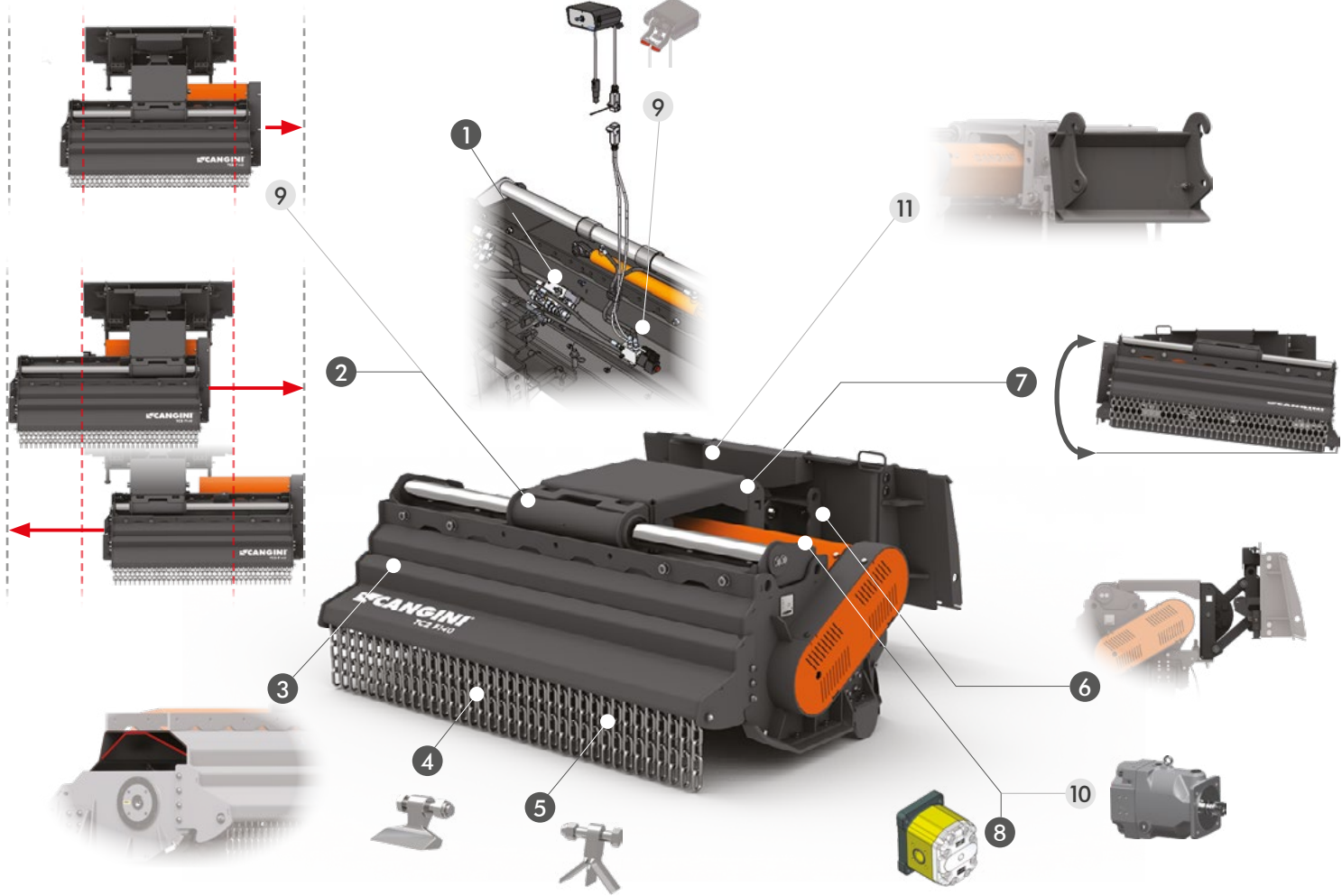


**NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)**

THE FRONT TC MULCHER IS MADE OF A DOUBLE BODY IN ORDER TO INCREASE THE TOOL'S RESISTANCE TO SHOCKS. IT'S EQUIPPED WITH MECHANICAL (HYDRAULIC UPON REQUEST) SIDE-SHIFTING AND VERTICAL FLOATING SYSTEMS. ADJUSTMENT TO THE HORIZONTAL PLANE OF  $\pm 10^\circ$ . ALSO EQUIPPED WITH BYPASS, PRESSURE RELIEF AND FLOW-DIVIDER VALVES, STANDARD Y BLADES WITH INTERMEDIATE KNIFE OR HAMMERS.



|                                       | MOD.            | TC1F-120          | TC2F-140           | TC3F-160           | TC3F-180           | TC4F-200           | TC4F-220           |
|---------------------------------------|-----------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>A</b>                              | MM (IN)         | 1200 (47)         | 1400 (55)          | 1600 (63)          | 1800 (71)          | 2000 (79)          | 2200 (87)          |
| <b>B</b>                              | MM (IN)         | 1400 (55)         | 1580 (62)          | 1780 (70)          | 1980 (78)          | 2200 (87)          | 2400 (94)          |
| <b>C</b>                              | MM (IN)         | 640 (25)          | 810 (32)           | 830 (33)           | 830 (33)           | 855 (34)           | 855 (34)           |
| <b>D</b>                              | MM (IN)         | 510 (20)          | 485 (19)           | 555 (22)           | 555 (22)           | 575 (23)           | 575 (23)           |
| <b>E</b>                              | MM (IN)         | 800 (31)          | 1300 (51)          | 1320 (52)          | 1320 (52)          | 1380 (54)          | 1380 (54)          |
| W/O COUPLER                           | KG (LB)         | 175 (385,80)      | 550 (1212,53)      | 610 (1344,81)      | 650 (1432,99)      | 820 (1807,77)      | 860 (1895,96)      |
|                                       |                 | DIRECT            | BELTS              | BELTS              | BELTS              | BELTS              | BELTS              |
| MIN.                                  | L/MIN (GAL/MIN) | 22 (6)            | 28 (7)             | 55 (14)            | 55 (14)            | 65 (17)            | 65 (17)            |
| MAX                                   | L/MIN (GAL/MIN) | 90 (24)           | 90 (24)            | 150 (40)           | 150 (40)           | 150 (40)           | 150 (40)           |
| MAX                                   | BAR (PSI)       | 250 (3626)        | 250 (3626)         | 280 (4061)         | 200 (4061)         | 200 (4061)         | 200 (4061)         |
| MAX WITH HAMMERS                      | MM (IN)         | 20-30 (0,8 - 1,2) | 40-60 (1,6 - 2,4)  | 60-80 (2,4 - 3,1)  | 60-80 (2,4 - 3,1)  | 80-100 (3,1 - 3,9) | 80-100 (3,1 - 3,9) |
| MAX. MECHANICAL SIDE-SHIFTING (DX-SX) | MM (IN)         | -                 | $\pm 350 (\pm 14)$ | $\pm 525 (\pm 21)$ | $\pm 525 (\pm 21)$ | $\pm 700 (\pm 28)$ | $\pm 875 (\pm 34)$ |
| MAX. HYDRAULIC SIDE-SHIFTING (DX)     | MM (IN)         | -                 | 450 (18)           | 450 (18)           | 450 (18)           | 450 (18)           | 450 (18)           |



## STANDARD TECHNICAL FEATURES

- 1 INTEGRATED VALVE UNIT**  
THROTTLE, PRESSURE RELIEF AND BYPASS VALVES.
- 2 MECHANICAL SIDE-SHIFTING (L-R)**  
IT SHIFTS THE MULCHER ON BOTH SIDES WITH RESPECT TO THE MACHINE TRACK.
- 3 REINFORCED BODY**  
DOUBLE REINFORCED BODY FOR A HIGHER RESISTANCE TO SHOCKS.
- 4 SHAFT WITH HAMMERS**  
SUITABLE FOR THE CUTTING OF SHRUBS OR SIMILAR PLANTS.
- 5 SHAFT WITH BLADES**  
SUITABLE FOR THE CUTTING OF GRASS OR SIMILAR VEGETATION.
- 6 FLOATING SYSTEM**  
IT ENABLES THE MULCHER TO FOLLOW THE SOIL.
- 7 SELF-LEVELLING OF THE HORIZONTAL PLANE OF  $\pm 10^\circ$ .**
- 8 GEAR MOTOR**  
MOTOR WITH REINFORCED SEAL. IN CASE OF BACKPRESSURE HIGHER THAN 10 BAR, DRAINAGE LINE LINKED TO THE TANK IS MANDATORY.

**NB : THE ATTACHMENT IS IS SUPPLIED COMPLETE WITH PIPES.**

## OPTIONAL

- 9 LATERAL HYDRAULIC SIDE-SHIFTING THANKS TO 2 HOSES TRANSLATION KIT**  
IT ALLOWS TO HYDRAULICALLY CONTROL THE SIDE-SHIFTING OF THE MULCHER TO THE RIGHT, DIRECTLY FROM THE CAB. CONTROL KIT WITH MAGNETS TO EASILY PUT IT INSIDE THE CAB.
- 10 PISTON ENGINE**  
FIT FOR PARTICULARLY HARD AND CONTINUOUS WORKS. IT NEEDS THE DIRECT DRAINING PIPE TO THE TANK. RECOMMENDED ON MACHINES EQUIPPED WITH HIGH FLOW AUXILIARY HYDRAULIC SYSTEM. **THE APPLICATION ON THE OPERATING MACHINE WILL BE CHECKED BEFORE ORDER CONFIRMATION.**
- 11 ARTICULATED LOADERS HITCH**







TX-F FORCE ONE  
FRONT FORESTRY MULCHER



SKID LOADER



WHEEL LOADER

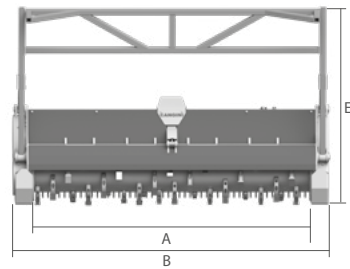










PATENTED  
PENDING

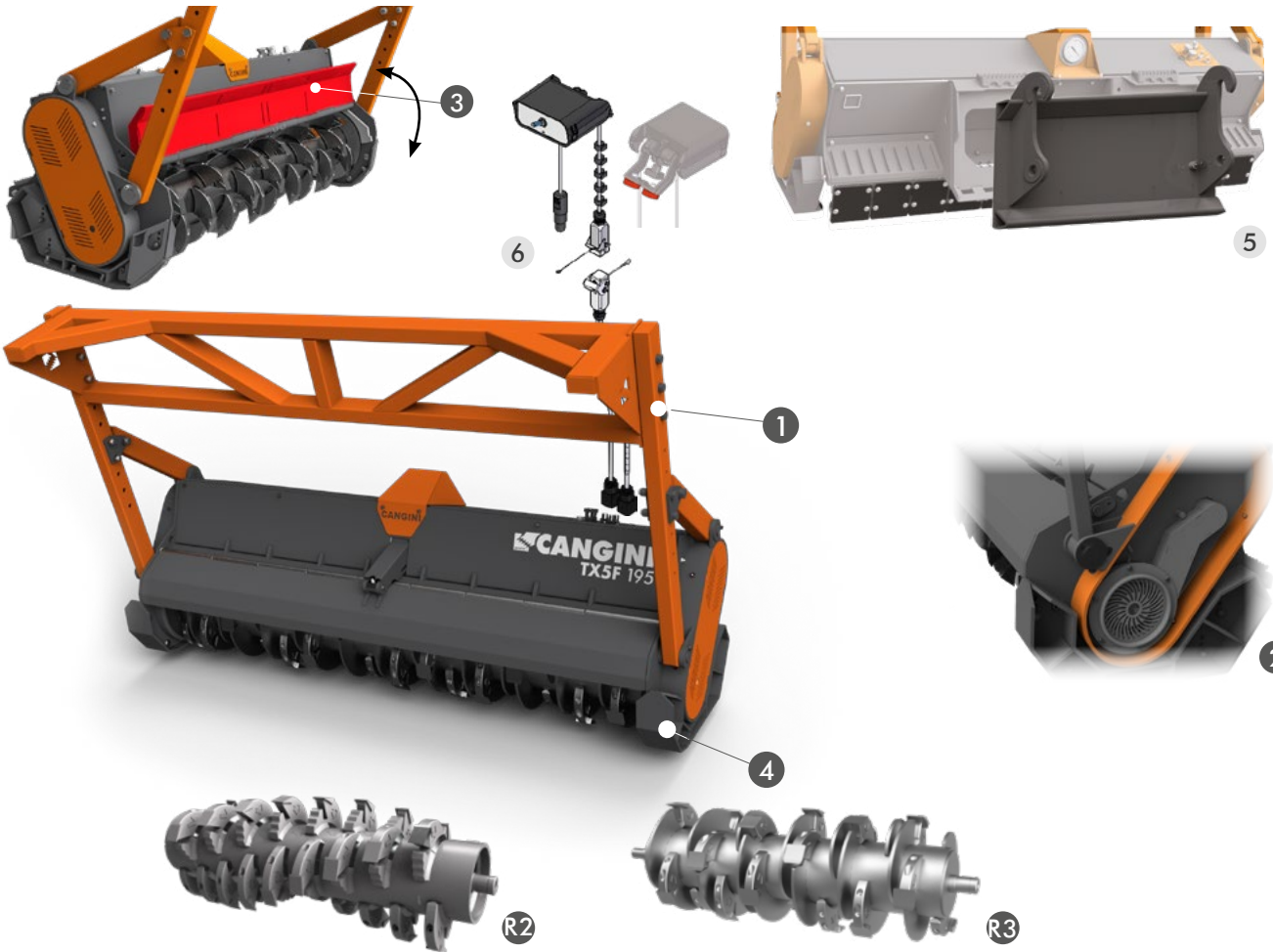


NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

SAME ENDURANCE FOR THE FRONTAL VERSION THANKS TO THE REINFORCED SHELL, VALVE KIT INCLUDED IN STANDARD EQUIPMENT PROTECTS PISTON ENGINE FROM PRESSURE PEAKS. IT'S THE PERFECT TOOL TO CREATE FIREBREAK LINES, OPEN TRACKS, PATHS AND CUT DOWN TREES.



|   | MOD.           | TX5F-170        | TX5F-195     |
|---|----------------|-----------------|--------------|
| A   | MM (IN)        | 2010 (79,1)     | 2260 (88,9)  |
| B   | MM (IN)        | 2010 (79,1)     | 2260 (88,9)  |
| C   | MM (IN)        | 750 (29,5)      | 750 (29,5)   |
| D   | MM (IN)        | 820 (32,2)      | 820 (32,2)   |
| E   | MM (IN)        | 1700 (66,93)    | 1950 (516)   |
|  Kg | R2 W/O COUPLER | KG (LB)         | 780 (1764,0) |
|  Kg | R3 W/O COUPLER | KG (LB)         | 830 (1830,2) |
|  R2 |                | MM (IN)         | 220 (8,6)    |
|  R3 |                | MM (IN)         | 220 (8,6)    |
|     |                | N.              | 3            |
|     | MIN            | L/MIN (GAL/MIN) | 90 (24)      |
|     | MAX            | L/MIN (GAL/MIN) | 300 (79)     |
|     | MAX            | BAR (PSI)       | 400 (5801)   |



STANDARD TECHNICAL FEATURES

1 FRONT PROTECTION FRAME

THE ADJUSTABLE PROTECTION FRAME ENSURES THAT THE PLANT FALLS AWAY FROM THE OPERATOR.

2 AUTOMATIC COOLING SYSTEM

IT IS EQUIPPED WITH A FORCED-AIR VENTILATION SYSTEM TO HELP REDUCE OVERHEATING OF THE MULCHER'S HYDRAULIC COMPONENTS.

3 HYDRAULIC HOOD OPENING

THE FRONT HOOD OPENING MAKES THE ROTOR PENETRATE THE VEGETATION.

4 HB400 REINFORCED SKIDS

R2 R2 ROTOR

DESIGNED FOR HEAVY-DUTY WORKS, IT SPECIALLY FITS THE PLANT MULCHING.

R3 R3 ROTOR

R3 ROTOR IS HIGHLY VERSATILE AND SUITABLE FOR MULTIPLE USES FROM CUTTING BRUSHWOOD TO TREE GRINDING. IT ALLOWS CUTTING FROM A DIAMETER OF 22CM UP TO A MAXIMUM OF 28CM DEPENDING ON THE MODEL USED.

OPTIONAL

5 ARTICULATED LOADERS HITCH

IT'S POSSIBLE TO ADD THE HITCH FOR ARTICULATED LOADERS TO THE SKID LOADER HITCH PROVIDED WITH THE STANDARD EQUIPMENT

6 2 HOSES KIT

IT ALLOWS THE FUNCTIONING OF THE HYDRAULIC OPENING/CLOSING OF THE ANTERIOR FLAP ON SINGLE HYDRAULIC LINE MACHINES. CONTROL KIT WITH MAGNETS TO EASILY PUT IT INSIDE THE CAB.





BTC-F SHARP-CUT FRONTAL  
BRANCH CUTTER BAR



SKID LOADER



MINI SKID



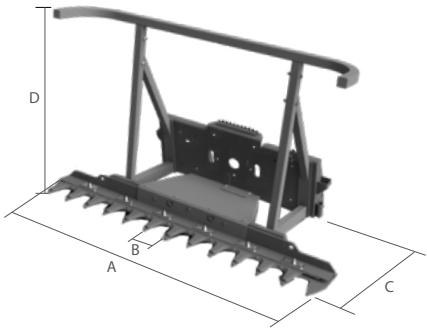
WHEEL LOADER



HB450



SUITABLE FOR THE TREE PRUNING UP TO 100 MM (3,9 IN). IT DOES NOT HARM THE PLANT, BECAUSE IT CUTS SHARPLY AND PRECISELY WITHOUT UPROOTING THE BRANCH. THE BAR'S BLADES IN HB450 GRANT RESISTANCE AND EXTENDED USEFUL LIFE.



MAX

MIN

MAX

MOD.

BTCF 50-150

BTCF 100-190

BTCF 100-220

A

MM (IN)

1500

(59)

1900

(75)

2200

(86,6)

B

MM (IN)

50

(2)

100

(3,9)

100

(3,9)

C

MM (IN)

670

(26,4)

810

(31,8)

810

(31,8)

D

MM (IN)

130

(5,1)

155

(6,6)

155

(6,6)

KG (LB)

175

(386)

260

(574)

285

(629)

BAR (PSI)

250

(3626)

250

(3626)

250

(3626)

L/MIN (GAL/

MIN)

40

(11)

50

(11)

50

(11)

L/MIN (GAL/

MIN)

90

(23,7)

90

(23,7)

90

(23,7)

1

2

3

STANDARD TECHNICAL FEATURES

1

**HB450 BLADE**

HB450 BLADES FOR A HIGHER RESISTANCE TO WEAR.

2

**FRONT PROTECTION FRAME**

THE ADJUSTABLE PROTECTION FRAME ENSURES THAT THE PLANT FALLS AWAY FROM THE OPERATOR.

OPTIONAL

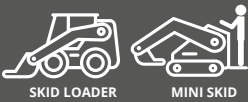
3

**ARTICULATED LOADERS HITCH**





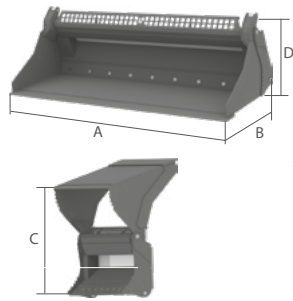
M4 4 IN 1  
FRONTAL BUCKET



HB400

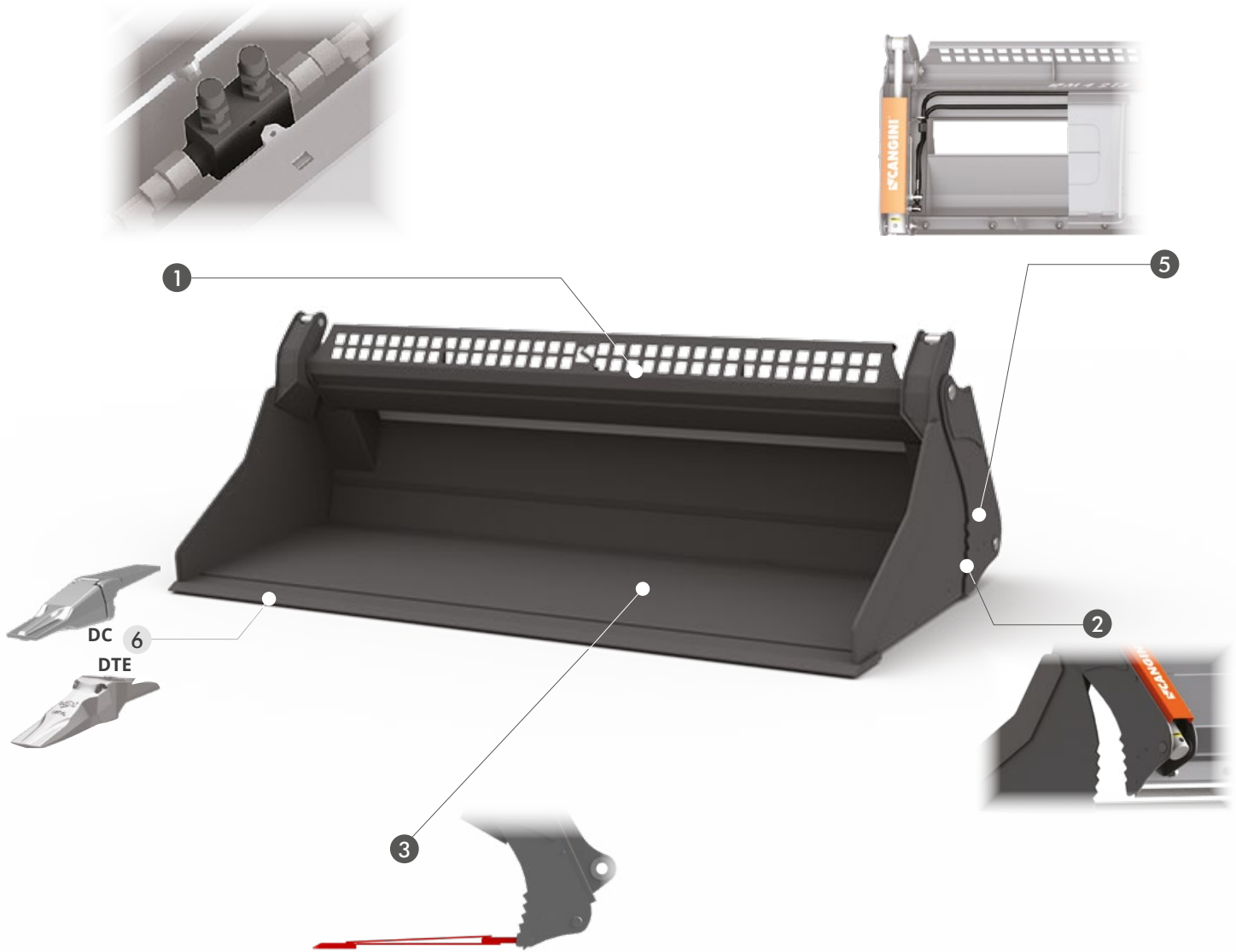


SUITABLE FOR LOADING, UNLOADING AND HANDLING OPERATIONS. THANKS TO ITS HYDRAULIC OPENING IT IS SUITABLE ALSO FOR VARIOUS MATERIAL GRABBING, WASTE DISCHARGE CONTROL AND GROUND LEVELLING.



|  |             | MOD.             | M4-102    | M4-110     | M4-125     | M4-140     | M4-152      | M4-170      | M4-188      | M4-200      | M4-215      |
|--|-------------|------------------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|
|  | W/O COUPLER | <b>A</b> MM (IN) | 1020 (40) | 1100 (43)  | 1250 (49)  | 1400 (55)  | 1520 (60)   | 1700 (67)   | 1880 (74)   | 2000 (79)   | 2150 (85)   |
|  |             | <b>B</b> MM (IN) | 850 (33)  | 850 (33)   | 850 (33)   | 850 (33)   | 850 (33)    | 950 (37)    | 950 (37)    | 950 (37)    | 950 (37)    |
|  |             | <b>C</b> MM (IN) | 500 (20)  | 500 (20)   | 500 (20)   | 500 (20)   | 500 (20)    | 550 (22)    | 550 (22)    | 550 (22)    | 550 (22)    |
|  |             | <b>D</b> MM (IN) | 650 (26)  | 650 (26)   | 650 (26)   | 650 (26)   | 650 (26)    | 700 (28)    | 700 (28)    | 700 (28)    | 700 (28)    |
|  | SAE CAP.    | KG (LB)          | 240 (529) | 250 (551)  | 265 (584)  | 285 (628)  | 300 (661)   | 370 (816)   | 390 (860)   | 410 (904)   | 440 (970)   |
|  |             | L (GAL)          | 265 (70)  | 290 (76,6) | 330 (87,2) | 375 (99,1) | 410 (108,3) | 490 (129,4) | 550 (145,3) | 580 (153,2) | 630 (166,4) |

|  |                   | M4-102             | M4-110             | M4-125             | M4-140             | M4-152             | M4-170             | M4-188             | M4-200             | M4-215             |
|--|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|  | N.                | 5                  | 5                  | 6                  | 6                  | 6                  | 7                  | 7                  | 8                  | 8                  |
|  | <b>5</b> DC TEETH | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   | DC 1<br>(KG 1,4)   |
|  | DTE TEETH         | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) | DTE 13<br>(KG 1,7) |



STANDARD TECHNICAL FEATURES

- 1 SAFETY CHECK-VALVE**  
IT ALLOWS TO KEEP THE TOOL SAFE EVEN IN CASE OF DAMAGE OF THE PIPES OR PRESSURE LOSS IN THE SYSTEM.
- 2 SIDE TOTHING**  
ITS PROFILE ENABLES TO KEEP THE GRABBED MATERIAL.
- 3 HB400 REINFORCEMENT STRIPES AND CUTTING EDGE**  
THEY GRANT HIGH RESISTANCE AGAINST DEFORMATION OF THE MORE STRESSED PARTS.
- 4 HYDRAULIC SYSTEM INTEGRATED INTO THE BODY**  
IT'S INTEGRATED INTO THE BODY THUS PROTECTING PIPES FROM DAMAGES DURING THE WORKING PHASE.

**NB : THE ATTACHMENT IS IS SUPPLIED COMPLETE WITH PIPES.**

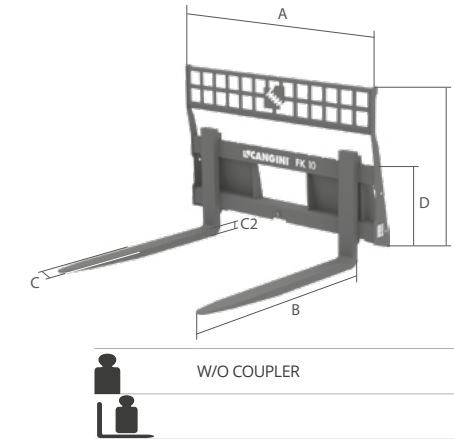
OPTIONAL

- 5 DC TEETH DTE TEETH**

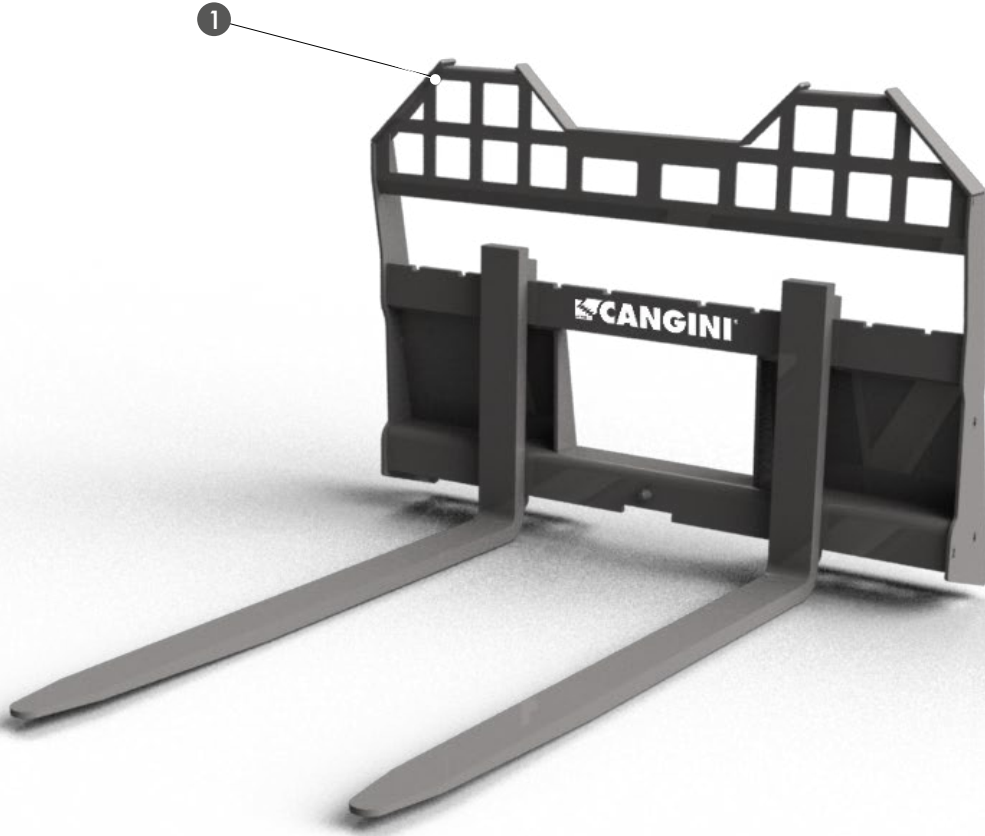




FRONT PALLET FORK FOR SKID, WHEEL, TELEHANDLER AND BACKHOE LOADERS. EQUIPPED WITH A SAFETY SYSTEM TO AVOID THE TILTING OF LOADS DURING ITS USE.



|             | MOD.    | FK8         | FK10S       | FK10        | FK15        | FK18        | FK25        |
|-------------|---------|-------------|-------------|-------------|-------------|-------------|-------------|
| A           | MM (IN) | 960 (45)    | 1150 (45)   | 1150 (45)   | 1150 (45)   | 1350 (53)   | 1350 (53)   |
| B           | MM (IN) | 1000 (39)   | 1000 (39)   | 1200 (47)   | 1200 (47)   | 1200 (47)   | 1200 (47)   |
| C           | MM (IN) | 80 (3,1)    | 80 (3,1)    | 80 (3,1)    | 100 (3,9)   | 100 (3,9)   | 100 (3,9)   |
| C2          | MM (IN) | 30 (1,2)    | 30 (1,2)    | 30 (1,2)    | 35 (1,4)    | 35 (1,4)    | 40 (1,6)    |
| D           | MM (IN) | 406 (16)    | 406 (16)    | 406 (16)    | 406 (16)    | 406 (16)    | 406 (16)    |
| E           | MM (IN) | 794 (31,2)  | 820 (32)    | 820 (32)    | 820 (32)    | 820 (32)    | 820 (32)    |
| W/O COUPLER | KG (LB) | 170 (374,7) | 170 (265)   | 182 (276)   | 210 (364)   | 230 (397)   | 240 (430)   |
|             | KG (LB) | 1000 (2205) | 1000 (2205) | 1000 (2205) | 1500 (3307) | 1800 (3968) | 2500 (5512) |



STANDARD TECHNICAL FEATURES

- 1
- PROTECTION FRAME**

IT PROTECTS THE OPERATOR, AVOIDING THE FALLING OF THE HANDLED MATERIAL INSIDE THE SKID LOADER'S CAB. THE SHAPE OF THE FRAME IS OPTIMISED FOR NEW-GENERATION SKID LOADERS.

OPTIONAL

- 2
- COUPLING SYSTEM FOR WHEEL LOADERS, BACKHOE LOADERS AND TELEHANDLERS**





MIX-SF FRONTAL MIXING BUCKET  
SAFE DISCHARGE



PATENTED



HB400



**NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)**

GEARBOX TRANSMISSION DELIVERS HIGH PERFORMANCE AND DOES NOT REQUIRE CONTINUOUS MAINTENANCE INTERVENTIONS. THE USE OF DUAL CROSS RELIEF AND FLOW DIVIDER VALVES GRANTS EFFECTIVENESS AND RELIABILITY EVEN IN THE MOST DIFFICULT WORK CONDITIONS.



STANDARD TECHNICAL FEATURES

**1 SAFE LOCKING/DISCHARGE (PATENTED)**

THE OPERATOR LOCKS THE DISCHARGE PIPE FROM THE BUCKET'S SIDE IN THE SAFEST WORK CONDITION.

**2 CONTROL ROD FOR THE DISCHARGE PIPE**

IT ENABLES THE PIPE'S DISPLACEMENT FOR THE SIDE POURING.

**3 AUGER REMOVAL**

THE BUCKET'S BODY HAS BEEN DESIGNED IN A SUCH WAY THAT THE ENTIRE AUGER CAN BE REMOVED THUS MAKING THE MAINTENANCE OPERATION EASIER.

**4 GEARMOTOR**

IT GUARANTEES HIGH PERFORMANCES TO THE ENTIRE SYSTEM.

**5 ELECTRIC KIT (MIX 800SF - MIX 1200SF)**

ENABLES SELECTION OF MIXING OR UNLOADING HATCH FROM THE CAB.

**6 14 PIN (A) CONNECT (MIX 150SF - MIX 600SF)**

THE 14-PIN PLUG IS SUPPLIED DISASSEMBLED, IF NO INFORMATION ON THE PLUG WIRING IS PROVIDED, PLEASE CHECK THAT THE MAIN MACHINE IS EQUIPPED WITH A 14-PIN MULTIPOLE SOCKET (STANDARD CANGINI CONFIGURATION). ON THE CONTRARY, THE OPTIONAL N.9 ELECTRICAL KIT IS REQUIRED.

**NB : THE ATTACHMENT IS IS SUPPLIED COMPLETE WITH PIPES.**

OPTIONAL

**7 ARTICULATED LOADERS, BACKHOE LOADERS AND TELEHANDLER HANDLERS HITCH**

IT'S POSSIBLE TO ADD THE HITCH FOR ARTICULATED LOADERS, BACKHOE LOADERS AND TELEHANDLER HANDLERS TO THE SKID LOADER HITCH PROVIDED WITH THE STANDARD EQUIPMENT.

**8 FLOWRATE REDUCERS**

COMPULSORY FOR MACHINES WITH OILFLOW EXCEEDING THE REQUIRED ONE

**9 8 PIN (B) CONNECT / ELECTRIC KIT (MIX 150SF - MIX 600SF)**

|  |                | MOD.            | MIX 150SF.2 | MIX 200SF.2 | MIX 250SF.2 | MIX 350SF.2 | MIX 450SF.2 | MIX 600SF.2 | MIX 800SF.2 | MIX 1000SF.2 | MIX 1200SF.2 |
|--|----------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
|  |                | A MM (IN)       | 1000 (39)   | 1100 (43)   | 1350 (53)   | 1350 (53)   | 1670 (66)   | 1750 (69)   | 1830 (72)   | 2000 (79)    | 2000 (79)    |
|  |                | B MM (IN)       | 1265 (49,8) | 1360 (53,5) | 1610 (63,3) | 1630 (64)   | 1946 (77)   | 2018 (79)   | 2230 (87,7) | 2440 (96)    | 2440 (96)    |
|  |                | C MM (IN)       | 620 (24)    | 650 (26)    | 650 (26)    | 720 (28)    | 720 (28)    | 835 (33)    | 910 (36)    | 990 (39)     | 1100 (43)    |
|  |                | D MM (IN)       | 530 (21)    | 580 (23)    | 610 (24)    | 680 (27)    | 680 (27)    | 800 (31)    | 840 (33)    | 910 (36)     | 980 (39)     |
|  | W/O COUPLER    | KG (LB)         | 260 (573)   | 315 (694)   | 350 (771)   | 370 (816)   | 425 (937)   | 555 (1223)  | 675 (1488)  | 850 (1874)   | 905 (1995)   |
|  |                | KG (LB)         | 600 (1323)  | 775 (1708)  | 925 (2039)  | 1175 (2590) | 1460 (3219) | 1930 (4254) | 2515 (5545) | 3150 (6944)  | 3665 (8080)  |
|  |                | L (GAL)         | 150 (39,6)  | 200 (52,8)  | 250 (66)    | 350 (92,5)  | 450 (118,9) | 600 (158,5) | 800 (211,3) | 1000 (264,2) | 1200 (317)   |
|  | DISCHARGE PIPE | MM (IN)         | 210 (8)     | 210 (8)     | 210 (8)     | 210 (8)     | 210 (8)     | 210 (8)     | 210 (8)     | 210 (8)      | 210 (8)      |
|  | MAX            | L/MIN (GAL/MIN) | 70 (19)     | 70 (19)     | 70 (19)     | 70 (19)     | 70 (19)     | 70 (19)     | 70 (19)     | 70 (19)      | 100 (26)     |
|  | MAX            | BAR (PSI)       | 200 (2901)  | 200 (2901)  | 200 (2901)  | 200 (2901)  | 200 (2901)  | 200 (2901)  | 200 (2901)  | 200 (2901)   | 200 (2901)   |





LN STANDARD SNOW BLADE



SKID LOADER

MINI SKID

WHEEL LOADER

BACKHOE LOADER

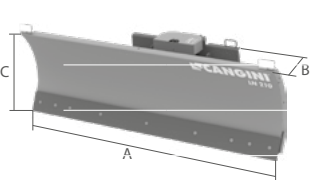
TELEHANDLER

TRACTOR

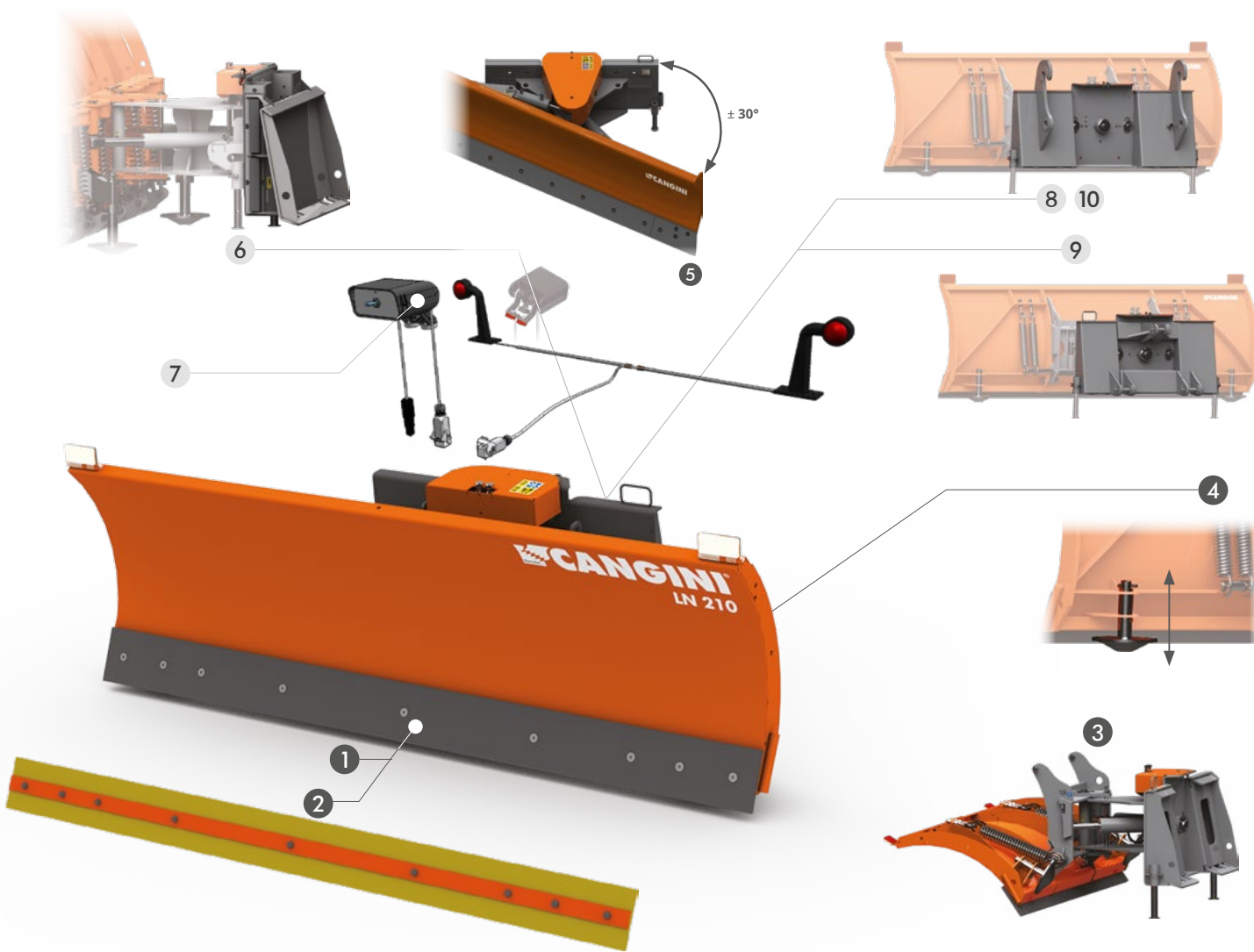


NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

EQUIPPED WITH ANTI-SHOCK VALVES. HYDRAULIC ANGLE ADJUSTMENT OF ± 30°, SELF-LEVELLING TO THE ROAD OF ± 10° AND ADJUSTABLE SHOES. ENTIRE MOLDBOARD OVERTURNING IN CASE OF COLLISION AND SPRING RETURN.



|  | MOD.         | LN 130    | LN 160     | LN 185     | LN 210     | LN 250     | LN 250HD   | LN 270HD   | LN 290HD   | LN 310HD   |            |
|--|--------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|  | A            | MM (IN)   | 700 (28)   | 700 (28)   | 700 (28)   | 700 (28)   | 700 (28)   | 900 (35)   | 900 (35)   | 900 (35)   | 900 (35)   |
|  | B            | MM (IN)   | 810 (32)   | 810 (32)   | 810 (32)   | 810 (32)   | 810 (32)   | 740 (29)   | 740 (29)   | 740 (29)   | 740 (29)   |
|  | C            | MM (IN)   | 1305 (51)  | 1605 (63)  | 1855 (73)  | 2105 (83)  | 2505 (99)  | 2505 (99)  | 2705 (106) | 2905 (114) | 3105 (122) |
|  | WIDTH AT 15° | MM (IN)   | 1125 (44)  | 1385 (55)  | 1605 (63)  | 1820 (72)  | 2165 (85)  | 2165 (85)  | 2350 (93)  | 2510 (99)  | 2690 (106) |
|  | W/O COUPLER  | KG (LB)   | 285 (628)  | 300 (661)  | 315 (694)  | 330 (728)  | 355 (783)  | 665 (1466) | 685 (1510) | 700 (1543) | 720 (1587) |
|  | MAX.         | BAR (PSI) | 280 (4062) | 280 (4062) | 280 (4062) | 280 (4062) | 280 (4062) | 280 (4062) | 280 (4062) | 280 (4062) | 280 (4062) |



STANDARD TECHNICAL FEATURES

- 1 INTERCHANGEABLE REVERSIBLE BLADE.**  
BOLTED-IN REVERSIBLE HB400 BLADE.
- 2 POLYURETHANE BLADE**  
SUITABLE FOR SURFACES THAT OTHERWISE MIGHT BE DAMAGED.
- 3 MOLDBOARD OVERTURNING AND SPRING RETURN**  
IN CASE OF A SHOCK THE ENTIRE MOLDBOARD OVERTURNS THUS ALLOWING TO OVERCOME THE OBSTACLE.
- 4 ADJUSTABLE SHOES**  
THE HEIGHT BETWEEN THE BLADE AND THE GROUND SURFACE CAN BE ADJUSTED.
- 5 ANGLE SIDE HYDRAULIC TILTING ADJUSTMENT OF ± 30°**  
HYDRAULIC ADJUSTMENT UP TO MAX. ± 30° OF THE BLADE HORIZONTAL TILTING ANGLE ON BOTH SIDES.

NB : THE ATTACHMENT IS IS SUPPLIED COMPLETE WITH PIPES.

OPTIONAL

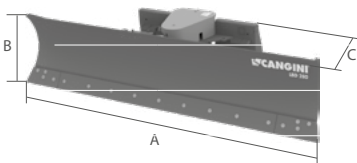
- 6 COMPACT FLOATING SYSTEM**  
IT ENABLES THE BLADE TO FOLLOW THE FEATHER-EDGE WITHOUT MANUAL ADJUSTMENT OF ITS POSITION.
- 7 OVERALL BLADE WIDTH LIGHT KIT**  
THE SIDE DIMENSIONS OF THE BLADE ARE VISUALLY PERCEIVED.
- 8 COUPLING SYSTEM FOR WHEEL LOADERS, BACKHOE LOADERS AND TELEHANDLERS**
- 9 3-POINT LINKAGE**
- 10 ARTICULATED LOADERS HITCH**  
IT'S POSSIBLE TO ADD THE HITCH FOR ARTICULATED LOADERS TO THE SKID LOADER HITCH PROVIDED WITH THE STANDARD EQUIPMENT

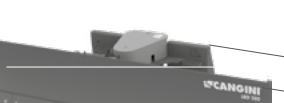




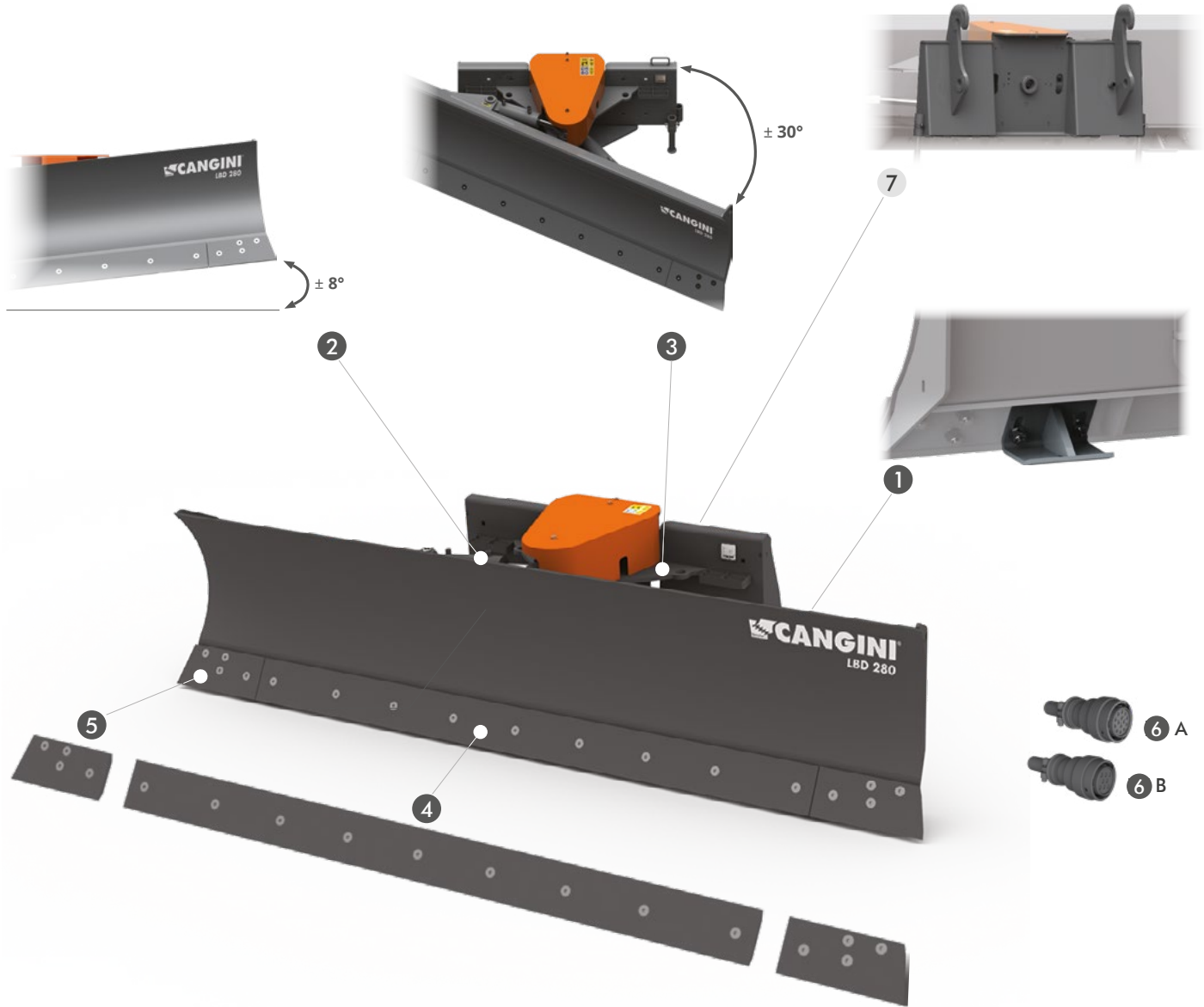


NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

THE DOZER BLADE IS PARTICULARLY SUITABLE FOR DIGGING, GROUND LEVELLING AND LAYING OF LANDFILL MATERIALS. ITS STRUCTURE IS EXTREMELY STRONG AND CONCEIVED TO RESIST HIGH STRESSES. IT IS EQUIPPED WITH A HORIZONTAL PLANE TILTING SYSTEM CALLED TILT AND WITH A SIDE TILTING SYSTEM CALLED ANGLE. TWO SKID SHOES ON THE MOLDBOARD ALLOW THE ADJUSTMENT OF THE BLADE SINKING INTO THE GROUND.



|              | MOD.      | LBD230     |            | LBD250     |            | LBD280 |  |
|--|-----------|------------|------------|------------|------------|--------|--|
|  | <b>A</b>  | MM (IN)    | 2300 (91)  | 2500 (98)  | 2800 (110) |        |  |
|  | <b>B</b>  | MM (IN)    | 640 (25)   | 640 (25)   | 640 (25)   |        |  |
|  | <b>C</b>  | MM (IN)    | 800 (31)   | 800 (31)   | 800 (31)   |        |  |
| WIDTH AT 30°   | MM (IN)   | 2000 (79)  | 2170 (85)  | 2420 (95)  |            |        |  |
|  W/O COUPLER | KG (LB)   | 420 (926)  | 460 (1014) | 500 (1102) |            |        |  |
|  MAX.        | BAR (PSI) | 200 (2901) | 200 (2901) | 200 (2901) |            |        |  |



STANDARD TECHNICAL FEATURES

- 1 ADJUSTABLE SHOES**  
THEY ALLOW TO ADJUST THE BLADE PENETRATION INTO THE SOIL.
- 2 TILT HORIZONTAL HYDRAULIC TILTING ADJUSTMENT OF ± 8°**  
HYDRAULIC ADJUSTMENT UP TO MAX. ± 8° OF THE BLADE VERTICAL TILTING ANGLE ON BOTH SIDES.
- 3 ANGLE SIDE HYDRAULIC TILTING ADJUSTMENT OF ± 30°**  
HYDRAULIC ADJUSTMENT UP TO MAX. ± 30° OF THE BLADE HORIZONTAL TILTING ANGLE ON BOTH SIDES.
- 4 REVERSIBLE AND INTERCHANGEABLE CENTRAL BLADE IN HB400**
- 5 INTERCHANGEABLE ANGLE BLADES IN HB400**
- 6 14 (A) OR 8 PIN (B) CONNECT**  
SUPPLIED SEPARATELY IF CLEAR INFORMATION ABOUT PLUG WIRING IS NOT PROVIDED

OPTIONAL

- 7 COUPLING SYSTEM FOR WHEEL LOADERS, BACKHOE LOADERS AND TELEHANDLERS**

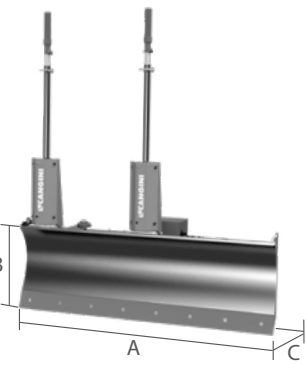




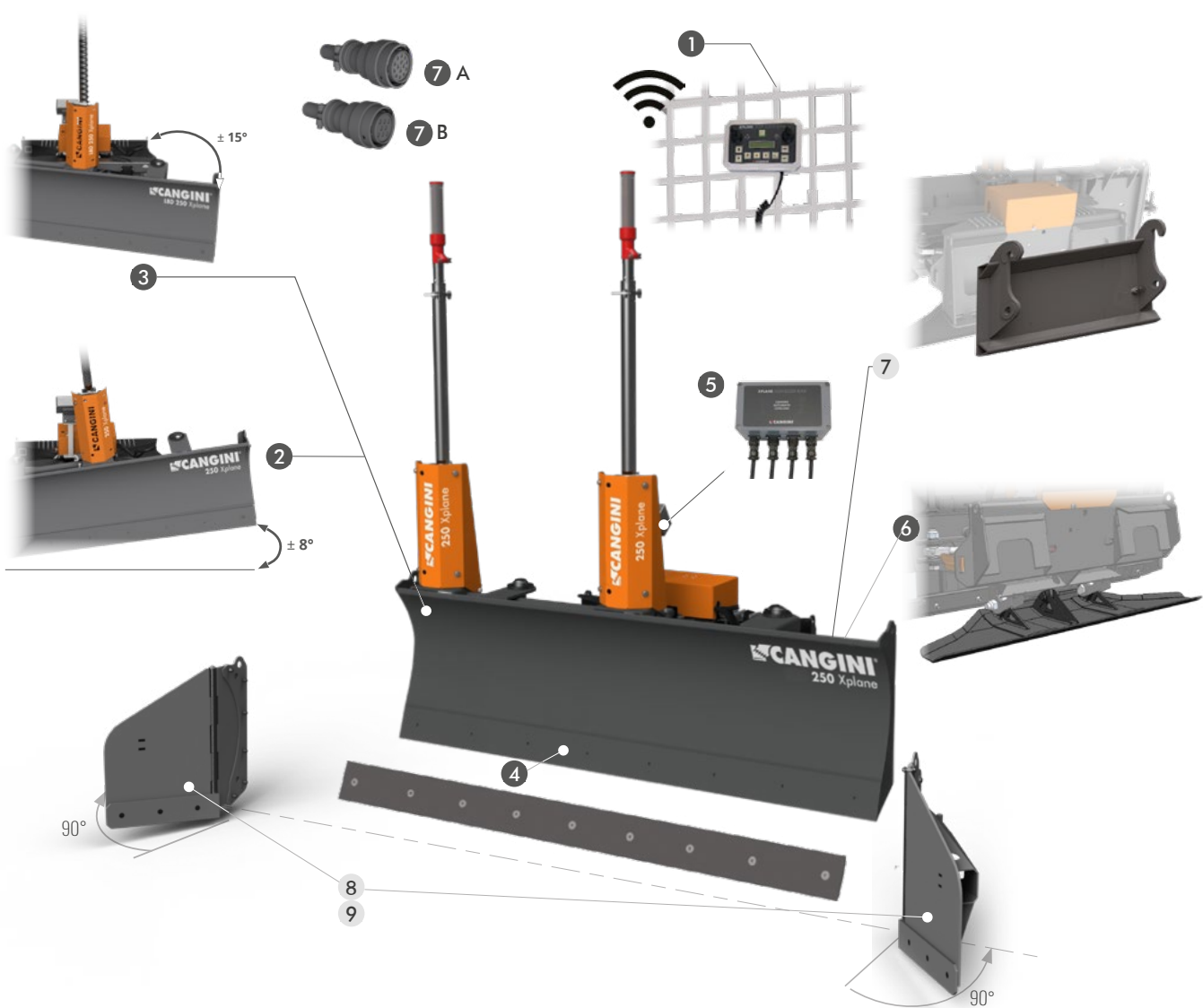
XPLANE LASER DOZER BLADE



THE DOZER LASER SYSTEM HAS THE SAME STRENGTH AND VERSATILITY AS THE STANDARD DOZER. IT ALSO ENABES CREATION OF A CONTROLLED PLANE THANKS TO A DUAL-SLOPE LASER TRANSMITTER. THE SIGNAL IS RECEIVED AND PROCESSED BY THE ELECTRONICS ON BOARD THE BLADE, WHICH ACTS DIRECTLY ON THE PROPORTIONAL ELECTRIC CONTROL VALVE TO PILOT THE BLADE. THE OPERATOR TERMINAL IN THE CAB COMMUNICATES WITH THE CONTROL BOX VIA WIRELESS NETWORK. THIS MEANS NO WIRES TO INTERFERE WHEN THE CAB DOORS ARE SHUT.



|              | MOD.      | DOZER230 XPLANE LASER | DOZER250 XPLANE LASER | DOZER280 XPLANE LASER |
|--------------|-----------|-----------------------|-----------------------|-----------------------|
| <b>A</b>     | MM (IN)   | 2300<br>(90,5)        | 2500<br>(98,4)        | 2800<br>(110,2)       |
| <b>B</b>     | MM (IN)   | 720<br>(28,3)         | 720<br>(28,3)         | 720<br>(28,3)         |
| <b>C</b>     | MM (IN)   | 870<br>(34,2)         | 870<br>(34,2)         | 870<br>(34,2)         |
| WIDTH AT 15° | MM (IN)   | 2200<br>(86,6)        | 2400<br>(94,4)        | 2700<br>(106,3)       |
| W/O COUPLER  | KG (LB)   | 695<br>(1532,2)       | 717<br>(1580,7)       | 736<br>(1622,6)       |
| MAX.         | BAR (PSI) | 220<br>(3190,8)       | 220<br>(3190,8)       | 220<br>(3190,8)       |



STANDARD TECHNICAL FEATURES

- 1 WIRELESS OPERATOR'S TERMINAL**  
ALLOWS PILOTING OF ALL BLADE FUNCTIONS FROM THE CAB OF THE MACHINE WITH NO WIRES TO INTERFERE WHEN DOORS ARE SHUT.
- 2 TILT HORIZONTAL HYDRAULIC TILTING ADJUSTMENT OF ± 8°**  
HYDRAULIC ADJUSTMENT UP TO MAX. ± 8° OF THE BLADE VERTICAL TILTING ANGLE ON BOTH SIDES.
- 3 ANGLE SIDE HYDRAULIC TILTING ADJUSTMENT OF ± 15°**  
HYDRAULIC ADJUSTMENT UP TO MAX. ± 15° OF THE BLADE HORIZONTAL TILTING ANGLE ON BOTH SIDES.
- 4 REVERSIBLE AND INTERCHANGEABLE CENTRAL CUTTING EDGE IN HB400**
- 5 CONTROL BOX**  
IT ALLOWS THE CONSTANT VIEW THE BLADE POSITIONING WITH RESPECT TO THE LASER SIGNAL AND INDICATES THE ADJUSTMENTS MANUALLY OR AUTOMATICALLY OPERATED.
- 6 STABILIZING SKID**  
CAN BE REGULATED DIRECTLY FROM THE CAB AND INCREASES PRODUCTIVITY WITH THE SAME QUALITY AND FINISHING. FOR CORRECT OPERATION, THE THIRD HOSE MUST BE CONNECTED TO A DUMP LINE.
- 7 14 (A) OR 8 PIN (B) CONNECT**  
SUPPLIED SEPARATELY IF CLEAR INFORMATION ABOUT PLUG WIRING IS NOT PROVIDED

**NB : THE ATTACHMENT IS IS SUPPLIED COMPLETE WITH PIPES.**

OPTIONAL

- 8 ARTICULATED LOADERS HITCH**
- 9 MECHANICAL ADDITIONAL SIDES**
- 10 HYDRAULIC ADDITIONAL SIDES**

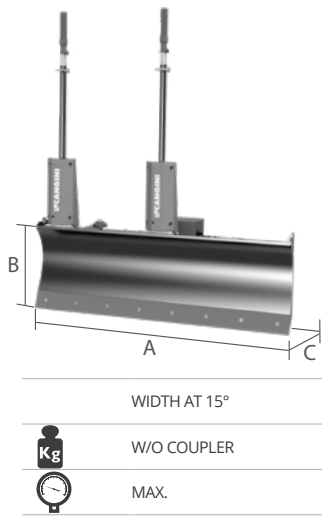




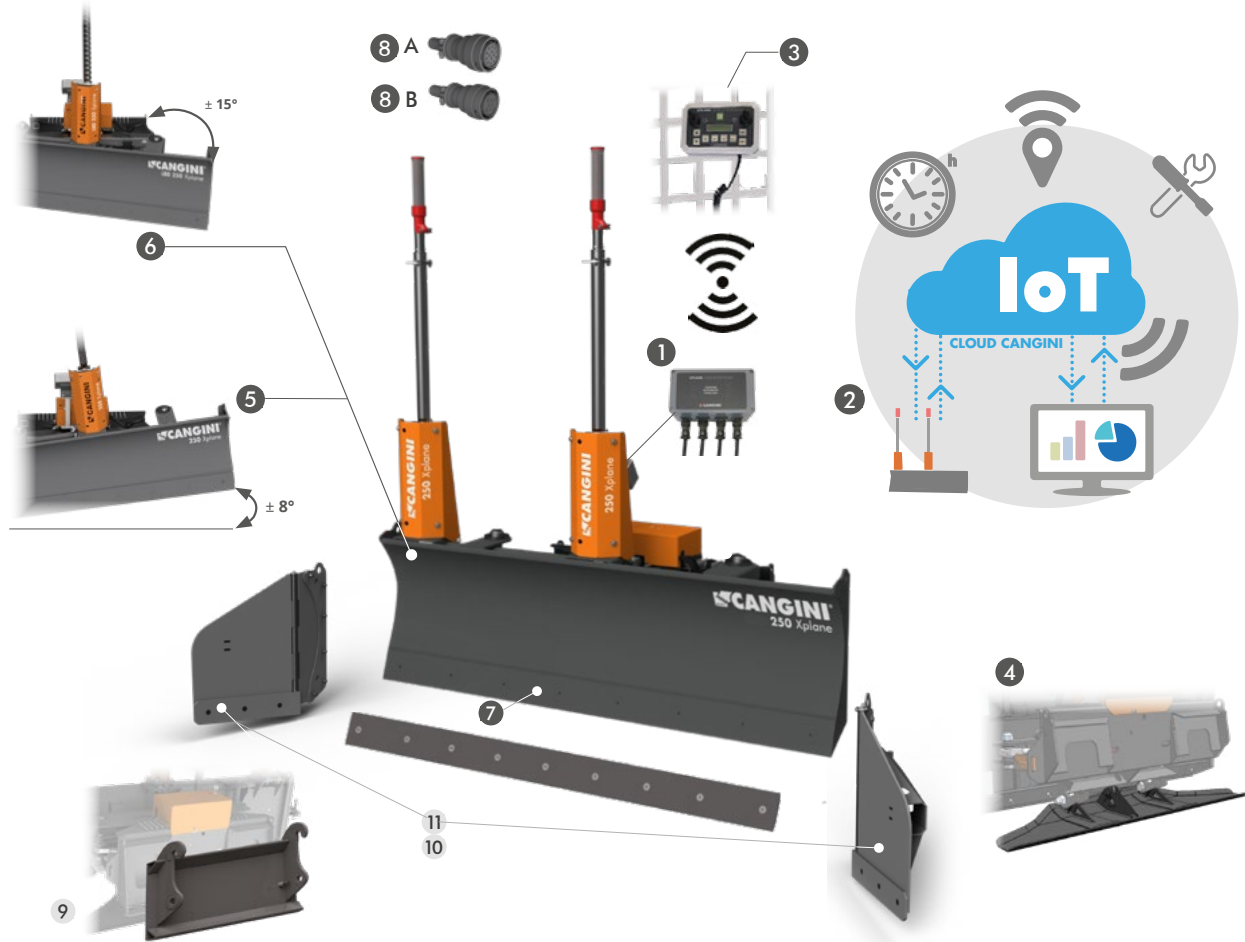
IOT - INTERNET OF THINGS



ALL XPLANE LASER DOZER BLADE MODELS ARE EQUIPPED WITH A CANGINI CLOUD CONNECTION SYSTEM THANKS TO THE IOT (INTERNET OF THINGS) TECNOLOGY. THE NEW CONNECTED ONBOARD CONTROL BOX, AUTOMATICALLY COLLECTS ACTIVITY DATA TO PROVIDE A COMPLETE AND UPDATED VIEW OF EQUIPMENT ACTIVITY IN REAL TIME : WORKING HOURS, POSITION AND MOVEMENTS, MODE OF USE OF THE BLADE (AUTOMATIC OR MANUAL), DIAGNOSTICS. THROUGHT THE CLOUD SYSTEM, CANGINI MAY ASSIST YOU TO CORRECT AND IMPROVE WORKING PARAMETERS OF THE BLADE. THE SYSTEM ALERTS ON REGULAR MAINTENANCE OPERATION REQUIRED,ALSO COMMUNICATED BY EMAIL. IN CASE OF THEFT IT IS POSSIBLE TO LOCK THE AUTOMATIC FUNCTIONALITY OF YOUR BLADE.



|           | MOD.         | DOZER230 XPLANE<br>LASER IOT | DOZER250 XPLANE<br>LASER IOT | DOZER280 XPLANE<br>LASER IOT |
|-----------|--------------|------------------------------|------------------------------|------------------------------|
| <b>A</b>  | MM (IN)      | 2300<br>(90,5)               | 2500<br>(98,4)               | 2800<br>(110,2)              |
| <b>B</b>  | MM (IN)      | 720<br>(28,3)                | 720<br>(28,3)                | 720<br>(28,3)                |
| <b>C</b>  | MM (IN)      | 870<br>(34,2)                | 870<br>(34,2)                | 870<br>(34,2)                |
|           | WIDTH AT 15° | 2200<br>(86,6)               | 2400<br>(94,4)               | 2700<br>(106,3)              |
| <b>kg</b> | W/O COUPLER  | 695<br>(1532,2)              | 717<br>(1580,7)              | 736<br>(1622,6)              |
| <b>h</b>  | MAX.         | 220<br>(3190,8)              | 220<br>(3190,8)              | 220<br>(3190,8)              |



## STANDARD TECHNICAL FEATURES

### 1 CONTROL BOX

IT CONSTANTLY DISPLAYS THE BLADE'S POSITION IN RELATION TO THE LASER SIGNAL, SHOWING THE ADJUSTMENTS REQUIRED, IN BOTH AUTOMATIC AND MANUAL MODE. INSTALLED ON THE BLADE, IT AUTOMATICALLY COLLECTS THE OPERATING DATA TO PROVIDE A COMPLETE, UPDATED, REAL-TIME VIEW OF THE ATTACHMENT'S OPERATION.

### 2 IOT SYSTEM

CANGINI CLOUD CONNECTION SYSTEM RECEIVES AND PROCESSES EQUIPMENT ACTIVITY DATA. ACCESS AND 36-MONTH SUBSCRIPTION AND SIM CARD WITH DATA TRAFFIC ARE INCLUDED.

### 3 WIRELESS OPERATOR'S TERMINAL

IT ALLOWS TO CONTROL THE BLADE IN ALL ITS FUNCTIONS DIRECTLY FROM THE CAB. OPERATOR'S TERMINAL, INSIDE THE CAB, TRANSMITS COMMANDS TO THE CONTROL BOX THROUGH WIRELESS COMMUNICATION. THIS ALLOWS THE CAB TO BE CLOSED WITHOUT WIRES OBSTACLE.

### 4 STABILIZING SKID

CAN BE REGULATED DIRECTLY FROM THE CAB AND INCREASES PRODUCTIVITY WITH THE SAME QUALITY AND FINISHING. FOR CORRECT OPERATION, THE THIRD HOSE MUST BE CONNECTED TO A DUMP LINE.

### 5 TILT HORIZONTAL HYDRAULIC TILTING ADJUSTMENT OF ± 8°

HYDRAULIC ADJUSTMENT ± 8° OF THE BLADE VERTICAL TILTING ANGLE ON BOTH SIDES.

### 6 ANGLE SIDE HYDRAULIC TILTING ADJUSTMENT OF ± 15°

HYDRAULIC ADJUSTMENT ± 15° OF THE BLADE TILTING ANGLE ON BOTH SIDES.

### 7 REVERSIBLE AND INTERCHANGEABLE HB400 BLADE

### 8 14 (A) OR 8 PIN (B) CONNECT

SUPPLIED SEPARATELY IF CLEAR INFORMATION ABOUT PLUG WIRING IS NOT PROVIDED

**NB : THE ATTACHMENT IS IS SUPPLIED COMPLETE WITH PIPES.**

## OPTIONAL

### 9 ARTICULATED LOADERS COUPLING

### 10 MECHANICAL ADDITIONAL SIDES

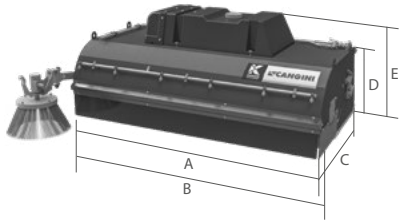
### 11 HYDRAULIC ADDITIONAL SIDES









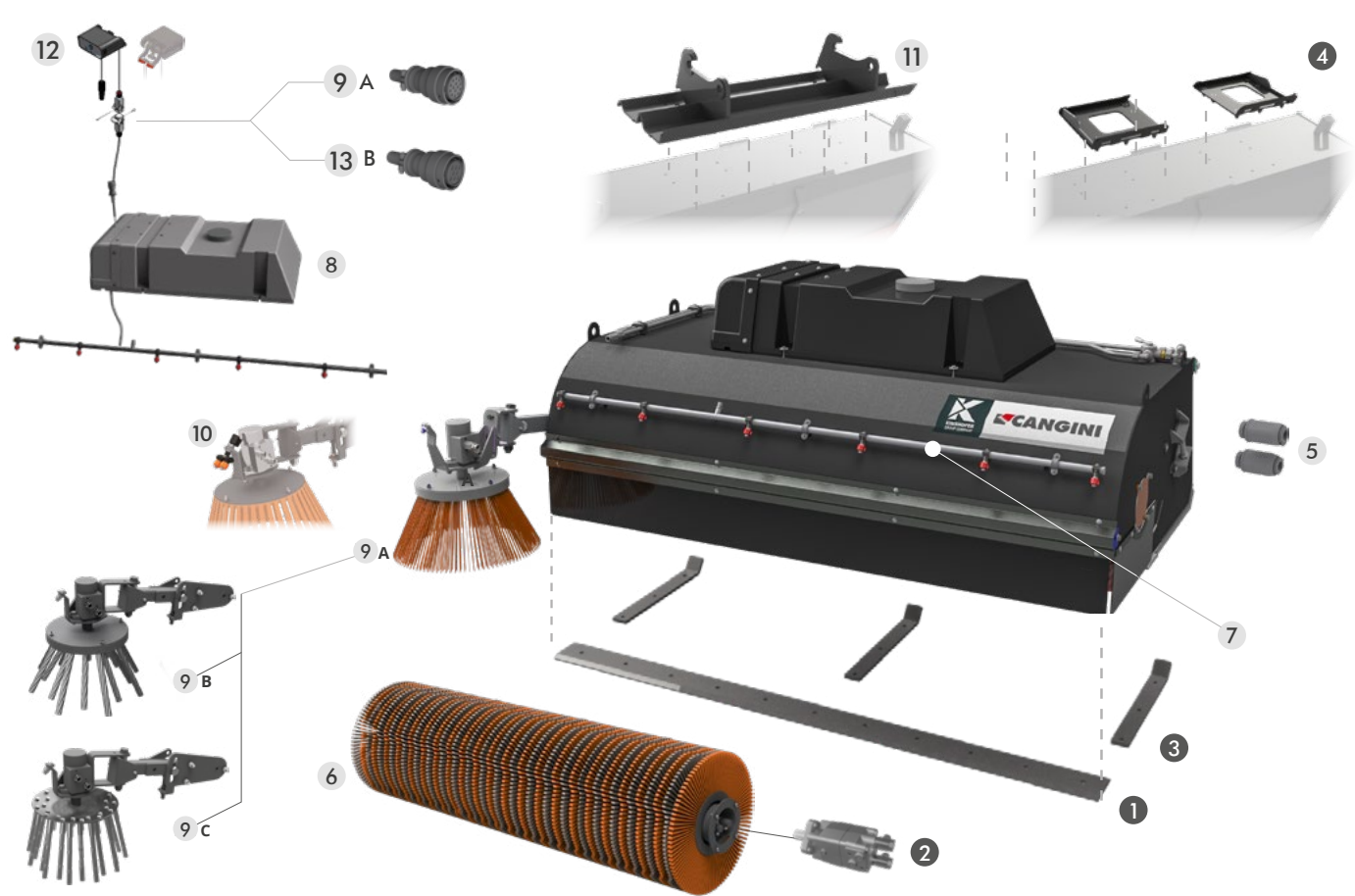


NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

THE SPZ SWEEPER IS EVEN MORE COMPACT THANKS TO THE SHAFT WITH INTEGRATED ENGINE, WHICH REDUCES ITS SIZE AND INCREASES ITS ERGONOMICS AND VISIBILITY FROM THE CAB. THE IDEAL EQUIPMENT FOR DEEP CLEANING OF ANY SURFACE. IT IS EQUIPPED WITH A COLLECTION TANK WITH BOLT-ON REVERSIBLE HB400 CUTTING EDGE, WHICH MAKES THE SWEEPER EVEN MORE RESISTANT.



|  |             |                 |            |            |            |            |            |            |
|--|-------------|-----------------|------------|------------|------------|------------|------------|------------|
|  | W/O COUPLER | KG (LB)         | 190 (418)  | 314 (692)  | 342 (753)  | 370 (815)  | 420 (925)  | 450 (992)  |
|  | FULL-LOAD   | L (GAL)         | 80 (21)    | 185 (49)   | 210 (55)   | 240 (63)   | 280 (74)   | 305 (81)   |
|  |             | MM (IN)         | 450 (18)   | 600 (24)   | 600 (24)   | 600 (24)   | 600 (24)   | 600 (24)   |
|  |             | N.              | 24 + 2     | 28 + 2     | 32 + 2     | 37 + 2     | 43 + 2     | 48 + 2     |
|  |             | L/MIN (GAL/MIN) | 50 (13)    | 70 (19)    | 70 (19)    | 70 (19)    | 70 (19)    | 70 (19)    |
|  | MAX         | BAR (PSI)       | 180 (2610) | 250 (3626) | 250 (3626) | 250 (3626) | 250 (3626) | 250 (3626) |



### STANDARD TECHNICAL FEATURES

- BOLT-ON REVERSIBLE HB400 CUTTING EDGE (SPZ120 EXCLUDED)**
- ENGINE WITH SQUARE FLANGES AND DISK GEARBOX**  
SHAFT WITH INTEGRAL MOTOR, NOT SUITABLE FOR HIGH FLOW SYSTEM
- INTERCHANGEABLE SKIDS**  
THEY ENSURE AN OPTIMAL WORKING POSITION. ONCE WORN OUT, THEY CAN BE REPLACED TO RESTORE THEIR ORIGINAL EFFICIENCY.
- SKID-STEER LOADER HITCH**

### OPTIONAL

- FLOWRATE REDUCERS**  
MANDATORY ON HIGHFLOW MACHINES OR WITH OILRATE HIGHER THAN 70 L/MIN.
- PPL + STEEL BRUSH**  
FOR PARTICULARLY ABRASIVE SURFACES. (SPZ120 EXCLUDED).
- INSIDE SPRINKLERS**  
THE KIT DOES NOT INCLUDE THE WATER TANK AND THE PRESSURE WATER PUMP. IT CAN BE EMPLOYED ONLY WHEN THE MACHINE ITSELF IS EQUIPPED WITH A WATER TANK. (ONLY EXTERNAL ON SPZ120)
- DUST-CONTROL SYSTEM WITH TANK AND PUMP**  
PRESSURIZED WATER SYSTEM WITH TANK FOR THE CONTROL OF DUSTS PRODUCED DURING THE WORKING CYCLE. SPRINKLERS ARE POSITIONED OUTSIDE THE SWEEPER. THE STANDARD 14-PIN PLUG IS SUPPLIED WITH DUST-CONTROL SYSTEM\*
- PPL BRUSH (A) STEEL BRUSH + RUBBER PLATE (B) STEEL BRUSH + STEEL PLATE (C) (SPZ120 EXCLUDED)**  
INDICATED FOR CURBS, WALLS AND SIDEWALKS CLEANING.
- SPRINKLERS FOR SIDE BRUSH (SPZ120 EXCLUDED)**
- HITCH FOR ARTICULATED LOADERS, BACKHOE LOADERS AND TELEHANDLER HANDLERS.**
- 8 PIN (B) CONNECT / ELECTRIC KIT**

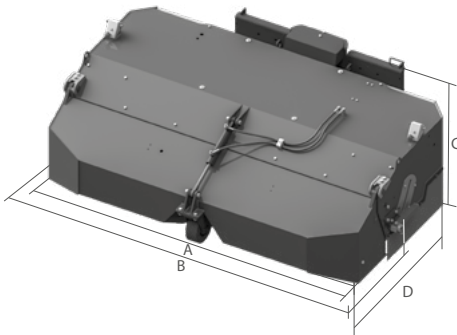
\*THE 14-PIN PLUG IS SUPPLIED DISASSEMBLED, IF NO INFORMATION ON THE PLUG WIRING IS PROVIDED, PLEASE CHECK THAT THE MAIN MACHINE IS EQUIPPED WITH A 14-PIN MULTIPOLE SOCKET (STANDARD CANGINI CONFIGURATION). ON THE CONTRARY, THE OPTIONAL N.13 ELECTRICAL KIT IS REQUIRED.





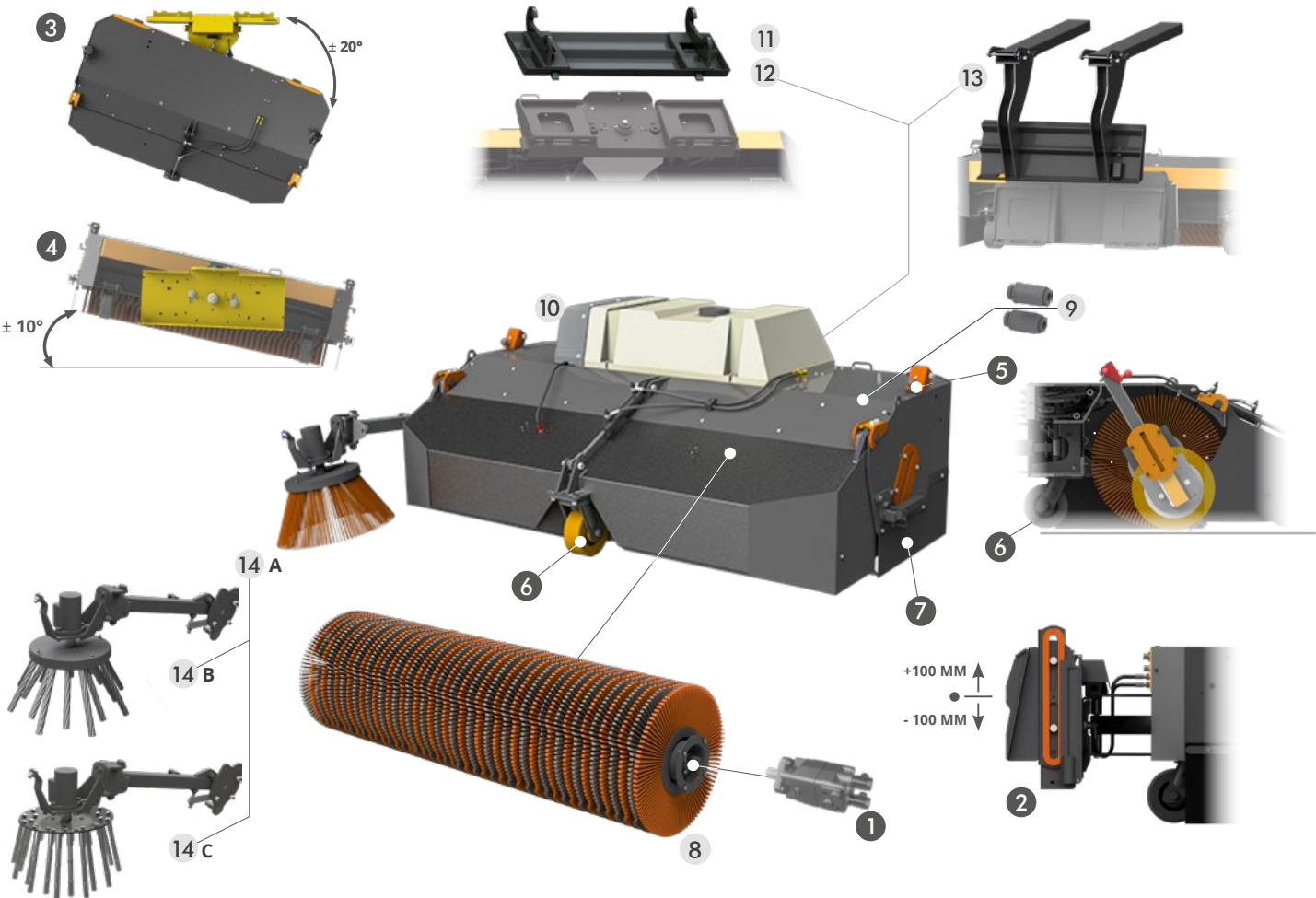


NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

IT IS PERFECT FOR THE MAINTENANCE AND CLEANING OF OPEN SURFACES, FLOORS, INDUSTRIAL HALLS AND STREETS THAT REQUIRE A HIGH-LEVEL CLEANING.



|   |             | MOD.            | EASY SWEEPY S160 | EASY SWEEPY S180 | EASY SWEEPY S210 | EASY SWEEPY S230 |
|---|-------------|-----------------|------------------|------------------|------------------|------------------|
|  | W/O COUPLER | KG (LB)         | 610 (1344,82)    | 640 (1410,96)    | 675 (1488,12)    | 700 (1543,24)    |
|   | MAX.        | L (GAL)         | 135 (35,66)      | 150 (39,62)      | 180 (47,55)      | 200 (52,83)      |
|   |             | MM (IN)         | 600 (23,62)      | 600 (23,62)      | 600 (23,62)      | 600 (23,62)      |
|   |             | N.              | 32 + 2           | 37 + 2           | 43 + 2           | 48 + 2           |
|  | MAX.        | L/MIN (GAL/MIN) | 70 (18,49)       | 70 (18,49)       | 70 (18,49)       | 70 (18,49)       |
|   | MAX.        | BAR (PSI)       | 250 (3625,94)    | 250 (3625,94)    | 250 (3625,94)    | 250 (3625,94)    |



### STANDARD TECHNICAL FEATURES

- ENGINE WITH SQUARE FLANGES AND DISK GEARBOX**  
SHAFT WITH INTEGRAL MOTOR, NOT SUITABLE FOR HIGH FLOW SYSTEM
- COMPACT FLOATING SYSTEM 200 MM**  
IT ALLOWS THE SWEEPER TO FOLLOW THE GROUND AND BETTER THE FINAL RESULT. DESIGNED FOR MACHINES SUCH AS LOADERS AND TELESCOPIC LOADERS.
- ANGLE SIDE HYDRAULIC TILTING ADJUSTMENT OF  $\pm 20^\circ$**   
IT ALLOWS THE HYDRAULIC ADJUSTMENT OF THE TILTING ANGLE UP TO A MAX. OF  $\pm 20^\circ$  ON EACH SIDE.
- TILT - HORIZONTAL MECHANICAL TILTING ADJUSTMENT OF  $\pm 10^\circ$**   
IT ALLOWS THE MECHANICAL ADJUSTMENT OF THE WORKING PLANE TILTING ANGLE UP TO A MAX. OF  $\pm 10^\circ$  ON EACH SIDE.
- ROLLER PRESSURE ADJUSTMENT SYSTEM**
- PIVOTING WHEELS**
- PARKING FEET**

### OPTIONAL

- PPL+STEEL BRUSH KIT**  
RECOMMENDED ON PARTICULARLY ABRASIVE SURFACES, ELECTRIC ON/OFF FROM OPERATOR TERMINAL.
- FLOWRATE REDUCERS**  
MANDATORY ON HIGHFLOW MACHINES OR WITH OILRATE HIGHER THAN 70 L/MIN.
- DUST-CONTROL SYSTEM WITH TANK AND PUMP**  
PRESSURIZED WATER SYSTEM WITH TANK FOR THE CONTROL OF DUSTS PRODUCED DURING THE WORKING CYCLE. SPRINKLERS ARE POSITIONED INSIDE THE SWEEPER
- ARTICULATED LOADERS, BACKHOE LOADERS AND TELEHANDLER HANDLERS COUPLING**
- ARTICULATED LOADERS HITCH**
- COUPLING FRAME FOR FORKS**
- SIDE BRUSH (CAN BE MOUNTED ON RIGHT OR LEFT) PPL BRUSH (A) STEEL BRUSH + RUBBER PLATE (B) STEEL BRUSH + STEEL PLATE (C)**



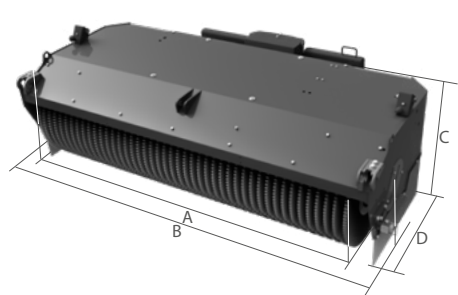


R EASY SWEEPY ROLLER

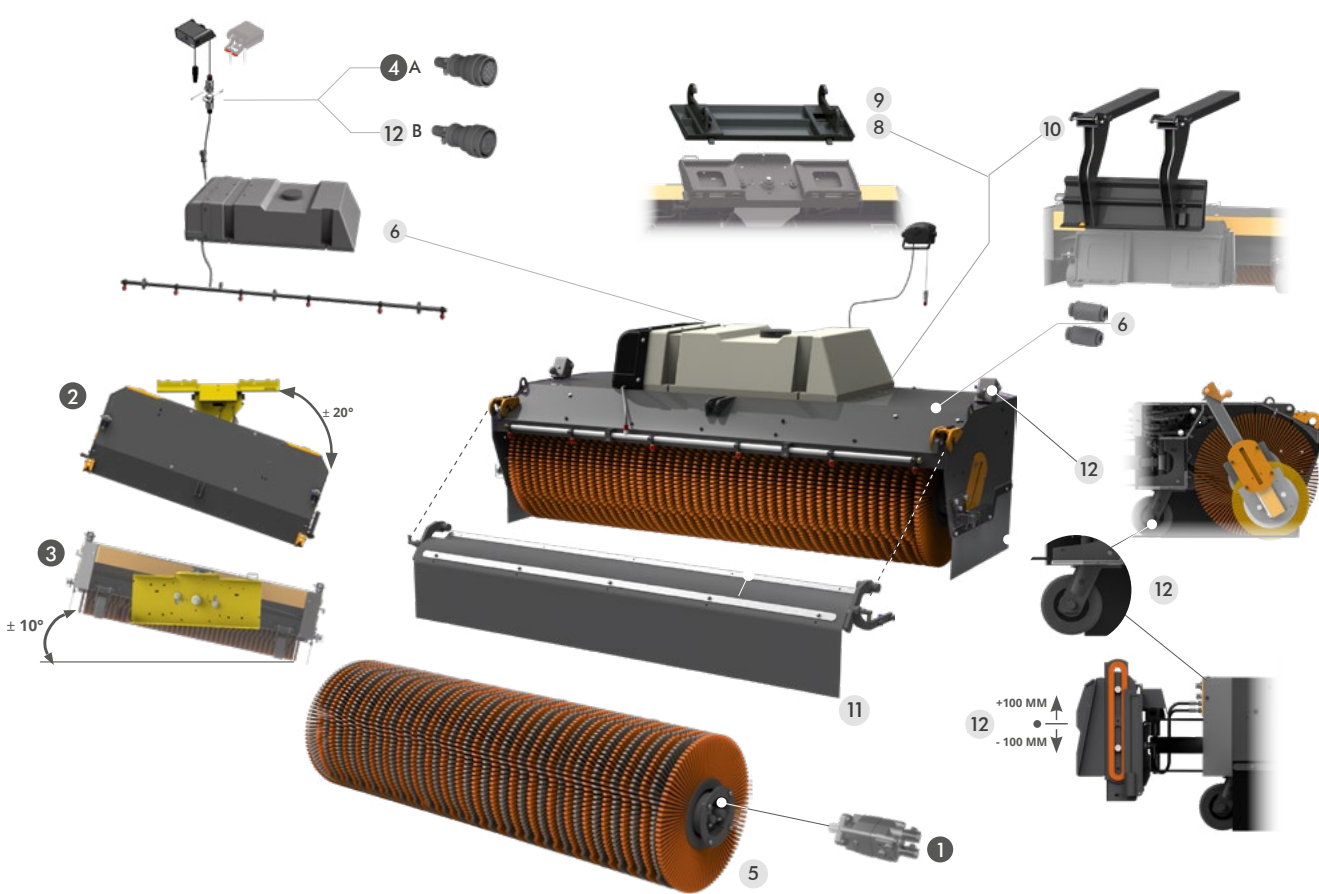


NB: AT THE TIME OF ORDER, PLEASE NOTIFY THE VOLTAGE OF THE ELECTRICAL SYSTEM (12-24 V)

IT IS PERFECT FOR THE MAINTENANCE AND CLEANING OF OPEN SURFACES, FLOORS, INDUSTRIAL HALLS AND STREETS THAT REQUIRE A HIGH-LEVEL CLEANING.



|  |   | KG<br>(LB)         | 330<br>(727,52)  | 350<br>(771,61)  | 375<br>(826,73)  | 395<br>(870,82)  |
|--|---|--------------------|------------------|------------------|------------------|------------------|
|  |  | MM<br>(IN)         | 600<br>(23,62)   | 600<br>(23,62)   | 600<br>(23,62)   | 600<br>(23,62)   |
|  |   | N.                 | 32 + 2           | 37 + 2           | 43 + 2           | 48 + 2           |
|  | MAX.  | L/MIN<br>(GAL/MIN) | 70<br>(18,49)    | 70<br>(18,49)    | 70<br>(18,49)    | 70<br>(18,49)    |
|  | MAX.  | BAR<br>(PSI)       | 250<br>(3625,94) | 250<br>(3625,94) | 250<br>(3625,94) | 250<br>(3625,94) |



STANDARD TECHNICAL FEATURES

- 1 ENGINE WITH SQUARE FLANGES AND DISK GEARBOX**  
SHAFT WITH INTEGRAL MOTOR, NOT SUITABLE FOR HIGH FLOW SYSTEM
- 2 ANGLE SIDE HYDRAULIC TILTING ADJUSTMENT OF ± 20°**  
IT ALLOWS THE HYDRAULIC ADJUSTMENT OF THE TILTING ANGLE UP TO A MAX. OF +/-20° ON EACH SIDE.
- 3 TILT - HORIZONTAL MECHANICAL TILTING ADJUSTMENT OF ±10°**  
IT ALLOWS THE MECHANICAL ADJUSTMENT OF THE WORKING PLANE TILTING ANGLE UP TO A MAX. OF +/- 10° ON EACH SIDE.
- 4 14 PIN (A) CONNECT**  
THE 14-PIN PLUG IS SUPPLIED DISASSEMBLED, IF NO INFORMATION ON THE PLUG WIRING IS PROVIDED, PLEASE CHECK THAT THE MAIN MACHINE IS EQUIPPED WITH A 14-PIN MULTIPOLE SOCKET (STANDARD CANGINI CONFIGURATION). ON THE CONTRARY, THE OPTIONAL N.14 ELECTRICAL KIT IS REQUIRED.

OPTIONAL

- 5 PPL+STEEL BRUSH KIT**  
RECOMMENDED FOR THE CLEANING OF PARTICULARLY ABRASIVE SURFACES.
- 6 DUST-CONTROL SYSTEM WITH TANK AND PUMP**  
PRESSURIZED WATER SYSTEM WITH TANK FOR THE CONTROL OF DUSTS PRODUCED DURING THE WORKING CYCLE. SPRINKLERS ARE POSITIONED INSIDE AND OUTSIDE THE SWEEPER.
- 7 FLOWRATE REDUCERS**  
MANDATORY ON HIGHFLOW MACHINES OR WITH OILRATE HIGHER THAN 70 L/MIN.
- 8 ARTICULATED LOADERS, BACKHOE LOADERS AND TELEHANDLER HANDLERS HITCH**
- 9 ARTICULATED LOADERS HITCH**
- 10 COUPLING FRAME FOR FORKS**
- 11 ADJUSTABLE FRONT SKIRT**
- 12 COMPACT FLOATING SYSTEM KIT 200 MM**  
IT ALLOWS THE SWEEPER TO FOLLOW THE GROUND AND BETTER THE FINAL RESULT. DESIGNED FOR MACHINES SUCH AS LOADERS AND TELESCOPIC LOADERS. IT IS SUPPLIED WITH ROLLER PRESSURE ADJUSTMENT SYSTEM AND WHEELS KIT.
- 13 8 PIN (B) CONNECT / ELECTRIC KIT**

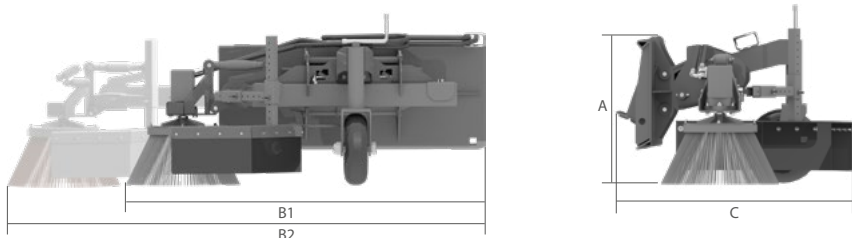




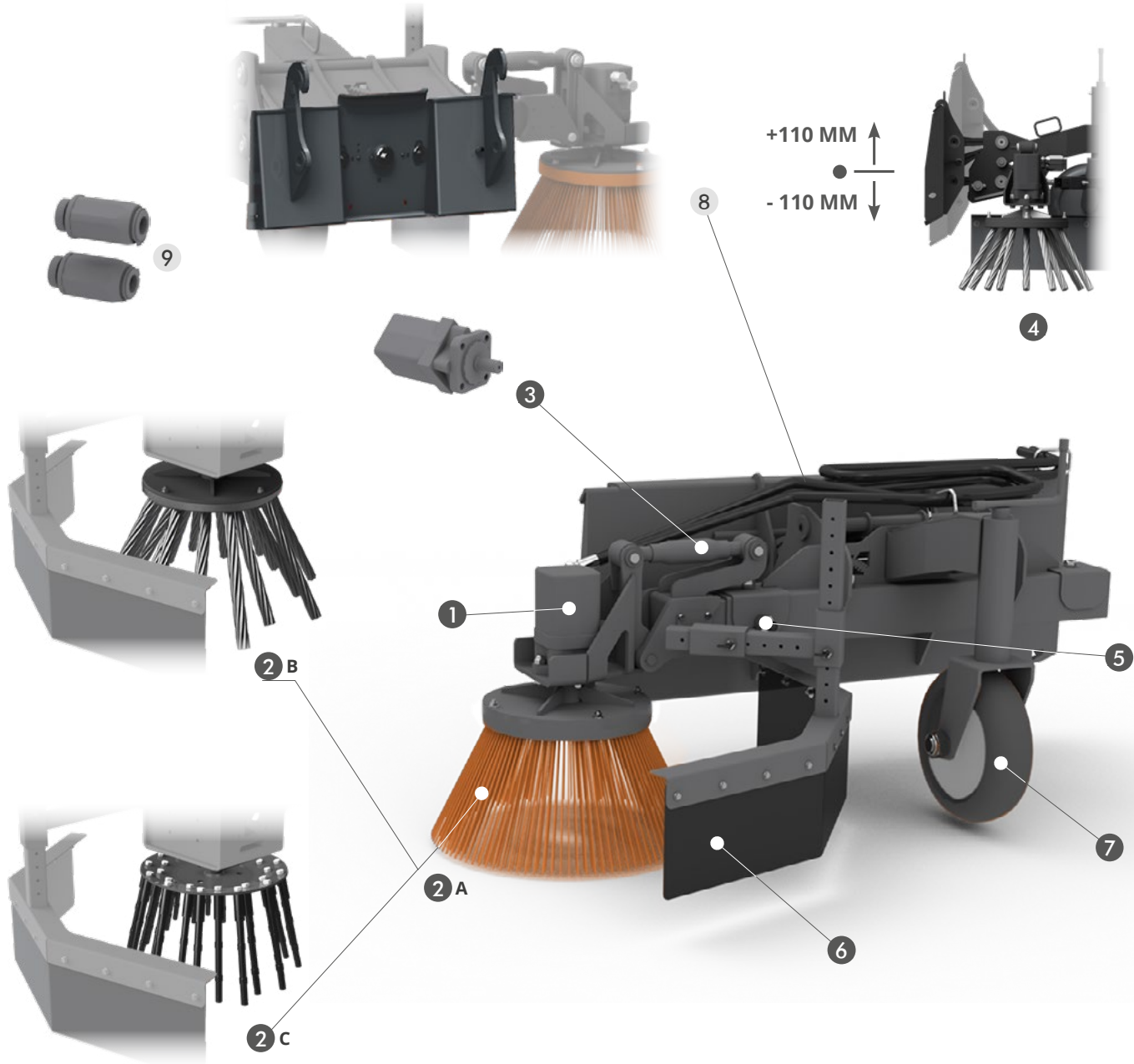
F ALL DUSTER  
FRONTAL JOINTED BRUSH



THE ALL DUSTER BRUSH FOR FRONTAL COUPLING CAN BE EASILY FITTED ON THE RIGHT OR LEFT SIDE, FOR THE SMOOTH CLEANING OF BOTH SIDES OF THE STREETS. JOINT AND FLOATING SYSTEM, ARE THE DEVICES THAT ALLOW IT TO FOLLOW THE GROUND PROFILE IN ANY CONDITION.



|                 |      | MOD.            | ALL DUSTER F |          |
|-----------------|------|-----------------|--------------|----------|
| A               |      | MM (IN)         | 700          | (27,5)   |
| B1              |      | MM (IN)         | 1600         | (63)     |
| B2              |      | MM (IN)         | 2100         | (82,6)   |
| C               |      | MM (IN)         | 900          | (35,4)   |
| FLOATING STROKE |      | MM (IN)         | 220          | (8,6)    |
|                 |      | KG (LB)         | 156          | (343,9)  |
|                 |      | MM (IN)         | 500          | (19,6)   |
|                 | MAX. | L/MIN (GAL/MIN) | 70           | (18,4)   |
|                 | MIN. | L/MIN (GAL/MIN) | 40           | (10,5)   |
|                 | MAX. | BAR (PSI)       | 200          | (2900,7) |



STANDARD TECHNICAL FEATURES

- 1 ENGINE WITH SQUARE FLANGES AND DISK GEARBOX AND FLOW REGULATORS
- 2 PPL BRUSH (A) STEEL BRUSH + RUBBER PLATE (B) STEEL BRUSH + STEEL PLATE (C)
- 3 MECHANICAL ANGLE ADJUSTMENT OF THE BRUSH
- 4 FLOATING SYSTEM AND JOINT 220 MM
- 5 TELESCOPIC BOOM
- 6 STONE DEFLECTOR
- 7 PIVOTING WHEEL, ADJUSTABLE IN HEIGHT

OPTIONAL

- 8 ARTICULATED LOADERS HITCH
- 9 FLOWRATE REDUCERS

MANDATORY ON HIGHFLOW MACHINES OR WITH OILRATE HIGHER THAN 70 L/MIN.



# GENERAL SALES CONDITIONS AND WARRANTY CONDITIONS

THESE GENERAL CONDITIONS OF SALE ARE BINDING AND CONSTITUTE AN INTEGRAL PART OF CONTRACTS SIGNED BY THE SELLER AND THE BUYER FOR THE SUPPLY OF THE SELLER'S PRODUCTS (THE "PRODUCTS").

THE CONDITIONS OF SALE APPLY TO ALL TRANSACTIONS CONCLUDED BETWEEN THE SELLER AND THE BUYER WITH NO NEED FOR SPECIFIC REFERENCE TO THEM OR A SPECIFIC AGREEMENT COVERING THEM ON THE FINALISATION OF EVERY SINGLE TRANSACTION; ANY CONDITION OR TERM AT VARIANCE WITH THEM WILL ONLY BE APPLIED IF CONFIRMED BY THE SELLER IN WRITING.

THE SELLER RESERVES THE RIGHT TO AMEND AND SUPPLEMENT OR VARY THE GENERAL TERMS AND CONDITIONS OF SALE BY ANNEXING ANY SUCH CHANGES TO ITS OFFERS OR ANY WRITTEN CORRESPONDENCE DISPATCHED TO THE BUYER.

## OFFERS AND ORDERS

THE SELLER'S OFFERS ARE NOT BINDING, IN PARTICULAR WITH REGARD TO QUANTITY, PRICES AND DELIVERY TERMS.

ORDERS MADE BY THE BUYER ARE NOT CONSIDERED ACCEPTED UNTIL CONFIRMED IN WRITING BY THE SELLER; THE BUYER MAY AMEND AND/OR CANCEL THE ORDER WITHIN 24 HOURS AFTER ITS RECEIPT, AS SPECIFICALLY STATED IN THE ORDER CONFIRMATION.

ORDERS AND/OR REQUESTS FOR AMENDMENTS TO ORDERS MADE VERBALLY OR BY TELEPHONE MUST BE CONFIRMED BY THE BUYER IN WRITING; OTHERWISE, THE SELLER ACCEPTS NO LIABILITY WITH REGARDS TO ANY POSSIBLE ERRORS OR MISUNDERSTANDINGS.

## PRICES AND PAYMENT TERMS

UNLESS OTHERWISE STATED IN THE ORDER CONFIRMATION, THE PRICE OF THE PRODUCTS IS THAT STATED IN THE 25.1.3 PRICE LIST IN FORCE AS OF THE DATE OF THE ORDER. PRICES OF THE PRODUCTS DO NOT INCLUDE VAT, WHICH SHALL BE PAYABLE ON DELIVERY OR IN ACCORDANCE WITH THE SPECIFIC INSTRUCTIONS PROVIDED IN THE INVOICE.

TAXES, DUTIES, SHIPPING, INSURANCE AND AFTER-SALES SERVICE ARE NOT INCLUDED IN PRICES UNLESS QUOTED SEPARATELY.

IN CASE OF LATE PAYMENT OR FAILURE TO PAY WITHIN THE AGREED TERMS, THE SELLER MAY CHARGE INTEREST FOR ARREARS, WHILE RETAINING THE RIGHT TO COMPENSATION FOR ANY OTHER DAMAGE INCURRED, AND MAY SUSPEND AND/OR CANCEL FURTHER DELIVERIES AND DEMAND IMMEDIATE PAYMENT OF THE SUMS DUE. THE PARTIES HEREBY AGREE THAT IN CASE OF DISPUTES BETWEEN THEM CONCERNING THIS CONTRACT, THE BUYER MAY NOT DELAY AND/OR SUSPEND PAYMENTS FOR THE ORDERS EXECUTED, ON ANY GROUNDS.

IN CASE OF CHANGES TO THE BUYER'S ECONOMIC STATUS, THE SELLER MAY DEMAND IMMEDIATE PAYMENT, IMPLEMENT THE ACCELERATION CLAUSE AND CHANGE THE PAYMENT TERMS, ALSO REQUIRING TOTAL OR PARTIAL PAYMENT IN ADVANCE BEFORE SHIPMENT.

IN ALL CASES THE BUYER SHALL NOT BE ENTITLED TO MAKE DEDUCTIONS OR WITHHOLD SUMS FROM, OR TO REDUCE, THE PRICE AND/OR THE SUMS DUE TO THE SELLER FOR ANY REASON, WITHOUT THE SELLER'S SPECIFIC WRITTEN CONSENT.

## DELIVERY TERMS

UNLESS OTHERWISE AGREED IN WRITING, NO DELIVERY TERM IS BINDING ON THE SELLER; UNLESS OTHERWISE AGREED BETWEEN THE PARTIES, THE GUIDELINE DELIVERY TERM IS THAT STATED IN THE ORDER CONFIRMATION. THE DELIVERY TERMS AND PROCEDURES FOR PRODUCTS AND/OR SPARE PARTS ARE THOSE STATED BY THE SELLER IN THE ORDER CONFIRMATION; THE SELLER HAS NO RESPONSIBILITY FOR DELAYS DUE TO CHANCE CIRCUMSTANCES, FORCE MAJEURE OR THE ACTIONS OF THIRD PARTIES OR PUBLIC AUTHORITIES, OR DUE TO CAUSES LINKED TO THE BUYER, AS SPECIFICALLY SET FORTH BY ART. 1341 OF THE ITALIAN CIVIL CODE.

THE SELLER IS NOT OBLIGED TO ACCEPT RETURNS OF THE PRODUCTS UNLESS SPECIFICALLY AGREED IN WRITING. ANY COSTS INCURRED FOR THIS PURPOSE ARE PAYABLE BY THE BUYER.

## WARRANTY CONDITIONS

- A) THE SELLER GUARANTEES THAT THE PRODUCTS AND/OR SPARE PARTS ARE FREE FROM DEFECTS AND THAT THEY COMPLY WITH THE TECHNICAL SPECIFICATIONS DECLARED IN THE PRODUCT TECHNICAL MANUALS AND THE DOCUMENTATION SUPPLIED TO THE BUYER.
- B) THE WARRANTY IS VALID FOR 12 MONTHS FROM THE TIME WHEN THE PRODUCT AND/OR SPARE PARTS AND/OR PRODUCT PARTS LEAVE THE SELLER'S PREMISES.
- C) THE SELLER IS NOT LIABLE, EVEN WITH REGARD TO DAMAGE TO THIRD PARTIES, FOR MISUSE OF THE PRODUCTS AND/OR SPARE PARTS, OR THEIR USE IN BREACH OF THE PROVISIONS OF THE USE AND MAINTENANCE MANUALS, OR FOR THEIR USE BY UNSKILLED PERSONNEL.
- D) IN CASE OF TAMPERING WITH THE PRODUCTS AND/OR SPARE PARTS OR ANY MAINTENANCE AND/OR REPAIR OF THE SAME, OR REPLACEMENT OF PARTS WITHOUT THE SELLER'S WRITTEN AUTHORISATION, THE WARRANTY SHALL BE VOIDED.
- E) ON RECEIPT OF THE PRODUCTS AND/OR SPARE PARTS, THE BUYER SHALL INSPECT THEIR PACKAGING AND CHECK THEIR QUANTITY AND THAT THEY COMPLY WITH THE ORDER CONFIRMATION, ENTERING ANY DISCREPANCIES IN THE DELIVERY NOTE.
- F) ALL DEFECTS OR NONCONFORMITIES IN PRODUCTS AND/OR SPARE PARTS MUST BE REPORTED TO THE SELLER, IN WRITING, WITHIN 8 DAYS AFTER RECEIPT, ENCLOSING A DETAILED REPORT AND PHOTOGRAPHIC DOCUMENTATION OF THE CLAIMED FAULTS AND A COPY OF THE DELIVERY NOTE CONTAINING THE COMPLAINTS ENTERED IN IT.
- G) CATALOGUES, PRICE LISTS AND MARKETING MATERIAL SUPPLIED BY THE SELLER CONTAINING GUIDELINE IMAGES AND DESCRIPTIONS OF THE PRODUCT CANNOT BE USED AS PROOF OF THE PRODUCT'S NONCONFORMITY.
- H) AFTER VERIFICATION THAT THE PRODUCT CLAIMED TO BE FAULTY IS ENTITLED TO WARRANTY COVER, CANGINI BENNE SHALL DECIDE NOW TO PROCEED, WHILE GUARANTEEING THAT THE PROBLEM WILL BE RESOLVED IN THE SHORTEST POSSIBLE TIMES.
- I) ALL PRODUCTS AND/OR SPARE PARTS, INCLUDING THOSE SENT AS REPLACEMENTS OR PRIOR TO VERIFICATION OF THE WARRANTY COVER, SHALL BE DISPATCHED WITH SALES DELIVERY DOCUMENT AND BILLED TO THE BUYER. AFTER THE APPROPRIATE CHECKS, IF THE REPLACEMENT IS FOUND TO BE WITHIN THE TERMS OF THE WARRANTY, THE SELLER WILL PROCEED TO ISSUE A CREDIT NOTE.
- L) THIS WARRANTY DOES NOT COVER ANY DIRECT OR INDIRECT DAMAGE TO THE CUSTOMER OR THIRD PARTIES, DAMAGE FROM LOSS OF EARNINGS, ACCIDENTAL DAMAGE, COMMERCIAL DAMAGE, DELAYS IN WORKS, REPUTATIONAL DAMAGE OR ANY OTHER DAMAGE TO THE BUYER, OR ITS INTERNAL HANDLING COSTS. THE WARRANTY DOES NOT COVER TRAVEL EXPENSES FOR THE DISPATCH 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 TIME NECESSARY FOR ANY CHECKS AND REPAIRS.

# GENERAL SALES CONDITIONS AND WARRANTY CONDITIONS

## LIABILITY LIMITATION

EXCEPT IN CASES OF JUSTIFIED CLAIMS, THE BUYER IS NOT GRANTED ANY FURTHER RIGHTS OR REMEDIES. IN PARTICULAR, THE SELLER IS NOT LIABLE FOR ANY COMPENSATION CLAIMED FOR BREACH OR VIOLATION OF CONTRACT OR FOR ANY DIRECT DAMAGE OR LOSS OF EARNINGS INCURRED BY THE BUYER AS A CONSEQUENCE OF THE USE OF OR FAILURE TO USE PRODUCTS, OR THEIR INSTALLATION IN OTHER PRODUCTS, EXCEPT FOR THE CIRCUMSTANCES COVERED BY THE WARRANTY SET OUT IN THE PREVIOUS POINT, OR IN CASE OF WILFUL MALPRACTICE OR SERIOUS NEGLIGENCE BY THE SELLER.

THE SELLER WILL DO EVERYTHING IN ITS POWER TO DELIVER THE PRODUCTS BY ANY TERM AGREED, BUT UNDER NO CIRCUMSTANCES SHALL IT BE HELD RESPONSIBLE FOR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY DELAY IN THE FULFILMENT OF A CONTRACT OR LATE DELIVERY OF THE PRODUCTS.

THE SELLER'S CATALOGUE, PRICE LIST OR OTHER MARKETING MATERIAL CONSTITUTES ONLY GUIDANCE CONCERNING THE PRODUCTS' TYPE, AND THE PRICES AND INDICATIONS CONTAINED THEREIN ARE NOT BINDING ON THE SELLER. THE SELLER THEREFORE DOES NOT ACCEPT ANY LIABILITY FOR ERRORS OR OMISSIONS IN ITS PRICE LIST OR MARKETING MATERIAL.

## INTELLECTUAL PROPERTY RIGHTS OF CANGINI BENNE S.R.L.

THE CUSTOMER SPECIFICALLY RECOGNISES THAT THE BRANDS, COMMERCIAL NAMES OR OTHER DISTINGUISHING MARKS APPLIED TO THE GOODS ARE THE EXCLUSIVE PROPERTY OF CANGINI BENNE S.R.L. AND MAY NOT BE ALTERED, MODIFIED, REMOVED OR ERASED IN ANY WAY. THE CUSTOMER HAS A LIMITED RIGHT TO USE OF THE BRANDS, COMMERCIAL NAMES OR OTHER DISTINGUISHING MARKS, AND OF ANY OTHER RIGHT TO INDUSTRIAL PROPERTY OR PRODUCTION AND COMMERCIAL KNOW-HOW INCORPORATED IN THE GOODS, WHICH CONTINUES TO BE THE EXCLUSIVE PROPERTY OF CANGINI BENNE S.R.L., FOR THE SOLE PURPOSE OF THE RETAIL SALE OF THE GOODS. ANY OTHER USE OF CANGINI BENNE S.R.L.'S INTELLECTUAL PROPERTY BY THE CUSTOMER, IF NOT SPECIFICALLY AUTHORISED BY THE FORMER IN WRITING, SHALL CONSTITUTE A VIOLATION ON THE PART OF THE CUSTOMER OF CANGINI BENNE S.R.L.'S AFORESAID EXCLUSIVE RIGHTS, AND SHALL LEAD TO PROSECUTION FOR BREACH OF CONTRACT.

ANY DOCUMENTS, DRAWINGS, DATA AND INFORMATION (WHETHER IN PAPER OR DIGITAL FORMAT) CONSIGNED TO THE CUSTOMER CONTINUE TO BE THE EXCLUSIVE PROPERTY OF CANGINI BENNE S.R.L.. THEY CONSTITUTE AN AID FOR THE CLEARER REPRESENTATION OF THE PRODUCT AND PROVIDE GUIDANCE AS TO THE PRODUCT'S PERFORMANCES.

THE CUSTOMER UNDERTAKES NOT TO COPY THEM, NOT TO DISCLOSE THEM TO THIRD PARTIES, AND TO ADOPT ALL APPROPRIATE PRECAUTIONS IN RELATION TO ITS STAFF TO ENSURE THEIR PROTECTION.

## PERSONAL DATA PROCESSING

- A) THE BUYER PERSONAL DATA WILL BE PROCESSED IN ACCORDANCE WITH ITALIAN LAW ON THE PROCESSING OF PERSONAL DATA, SUCH AS THE GDPR AND LEGISLATIVE DECREE 101/2018, AS AMENDED.
- THE SELLER INFORMS THE BUYER THAT THE FORMER IS THE DATA CONTROLLER AND THAT THE BUYER'S PERSONAL DATA ARE COLLECTED AND PROCESSED SOLELY FOR THE EXECUTION OF THIS AGREEMENT.
- B) THE DATA AND INFORMATION PROCESSED IN ACCORDANCE WITH THESE GENERAL CONDITIONS OF SALE WILL NOT BE DISCLOSED TO THIRD PARTIES IN ANY WAY UNLESS SPECIFICALLY AUTHORISED IN WRITING BY THE SELLER, SUBJECT TO LEGAL OBLIGATIONS REGARDING THE SUBMISSION TO PUBLIC AUTHORITIES OF DOCUMENTS CONTAINING PERSONAL DATA.
- C) EACH PARTY UNDERTAKES TO INFORM THE OTHER WITHOUT DELAY OF ANY VIOLATION OF RIGHTS TO THE BRAND WHICH COMES TO ITS KNOWLEDGE, AND ANY OTHER FORM OF UNFAIR COMPETITION BY THIRD PARTIES, TO ENABLE THE VICTIM PARTY TO TAKE THE DEFENSIVE ACTIONS IT CONSIDERS NECESSARY OR APPROPRIATE, IN THEIR JOINT INTEREST.

## APPLICABLE LAW

- A) IF THE BUYER IS AN ENTITY UNDER ITALIAN LAW, THESE GENERAL CONDITIONS OF SALE AND ALL THE CONTRACTS IT SIGNS WITH THE SELLER SHALL BE GOVERNED BY ITALIAN LAW.
- B) IF, ON THE OTHER HAND, THE BUYER IS OF NON-ITALIAN NATIONALITY, THESE GENERAL CONDITIONS OF SALE AND ALL THE CONTRACTS IT SIGNS WITH THE SELLER SHALL BE GOVERNED BY THE 1980 VIENNA CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS.

## LEGAL JURISDICTION

A) ALL DISPUTES ARISING FROM THIS CONTRACT SHALL BE SUBMITTED TO THE SOLE JURISDICTION OF FORLÌ LAW COURT.

THE PARTIES AGREE THAT ONLY THE SELLER, AT ITS OWN DISCRETION, MAY WAIVE THE SOLE JURISDICTION OF THE COURT REFERRED TO IN POINT A) ABOVE TO BRING PROCEEDINGS AGAINST THE BUYER AT ITS DOMICILE OR BEFORE THE COURT WITH COMPETENCE THERE.

## GENERAL PROVISIONS

- A) THE INVALIDITY OF ALL OR PART OF INDIVIDUAL PROVISIONS OF THESE GENERAL TERMS AND CONDITIONS OF SALE SHALL NOT AFFECT THE VALIDITY OF THE REMAINING PROVISIONS.
- B) EVERY AMENDMENT OR SUPPLEMENT TO THIS CONTRACT MUST BE MADE IN WRITING AND DULY SIGNED BY THE PARTIES.
- C) THESE GENERAL CONDITIONS OF SALE ARE ISSUED IN TWO LANGUAGES, ITALIAN AND ENGLISH. IN THE EVENT OF DOUBTS AS TO THEIR INTERPRETATION THE ITALIAN VERSION SHALL PREVAIL.





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