

# FARMMI®

## PROFI FOREST

CRANES / LOG LOADERS

FOREST TRAILERS



Efficient and versatile machine combinations for forestry – since 1962

## For contractors and forest owners who appreciate quality

The far-reaching FARMI 4571/4581 loaders and the sturdy FARMI 101 forest trailer are suitable for everyday work on forest terrain of all types. Thanks to their modular structure, accessories can be added according to the customer's needs. The amount of timber transferred is 2037–4814 yd<sup>3</sup>/year.



### VARIO 101:

- Load area 26 ¼ ft<sup>2</sup>
- 3 sets of bolsters (max 8)
- Climbing bogie
- Ground clearance 21 ⅝" - 25 ⅜", depending on tires
- Hydraulic steering with 2 cylinders
- Adjustable bolsters and bogies
- Frame tube profile 7 ⅞" x 7 ⅞" x 5/16"
- Ingenious modular structure, enabling an extensive range of accessories
- Correctly designed load area, resulting in a low centre of gravity and easy towing

### ACCESSORIES:

- Roller drive (4WD) tractive force 4270 lbs
- Different tire sizes available
- Hydraulic and pneumatic brake alternatives
- Load area extension (3' ¼")
- Hydraulic unit (gear pump or variable displacement pump)

### FARMI 4571 and 4581:

- Reach: FARMI 4581 (26' 9/16") and FARMI 4571 (23' 5/16")
- Excellent lifting capacity, gross lifting torque: 34562 lbft (2611 PSI) / 37509 lbft (2828 PSI)
- Staggering slewing torque of 12822 lbft with two racks (loading also possible on a slope)
- Wide-angle joint (efficient lifting geometry)
- Articulated support legs (distance between support points 10' 3/8")
- Torsion-resistant hexagonal extension boom for good centralisation (FARMI 4571)
- Double extension with chain in the 4581 loader
- Booms and column of special steel (HSLA steel of grade 650)
- Slewing shafts and racks of special hard steel
- 3/8" hydraulic hoses
- Well-designed grapple

### FARMI 4571/4581-VARIO 101 Combinations for forest owners and contractors.

#### VARIO 101 Forest Trailer:

- Load capacity 24251 lbs
- Extensive range of accessories
- Frame tube profile: 7 ⅞" x 7 ⅞" x 5/16"
- Low center of gravity

#### FARMI 4571/4581 Loader:

- Lifting torque 37509 lbft
- Slewing torque 12822 lbft
- Slewing shafts and racks of special steel
- Booms and column of special steel

## For contractors and forest owners who appreciate quality

The FARMI 6167/6185 loader, FARMI 121 forest trailer and a 4WD tractor constitute an efficient, productive and reliable unit for year-round timber transport in forest areas and on roads. The amount of timber transferred is 2037–6388 yd<sup>3</sup>/year.



### VARIO 121:

- Load area 28 7/8 ft<sup>2</sup>
- 3 sets of bolsters (max 8)
- Climbing bogie
- Ground clearance 27 3/8"
- Hydraulic steering with 2 cylinders
- Adjustable bolsters/stakes and bolster bogies
- Frame tube profile 9 13/16" x 9 13/16" x 5/16"
- Ingenious modular structure, enabling an extensive range of accessories
- Correctly designed load area, resulting in a low centre of gravity and easy towing

### ACCESSORIES:

- Roller drive (4WD) tractive force 4270 lbs
- Different tire sizes available
- Hydraulic and pneumatic brake alternatives
- Load area extension (3' 1/4")
- Hydraulic unit (gear pump or variable displacement pump)

### FARMI 6167 and 6185:

- Reach: FARMI 6167 (22') and FARMI 6185 (27' 7/8")
- Excellent lifting capacity, gross lifting torque: 45321 lbft (2611 PSI) / 49079 lbft (2828 PSI)
- Staggering slewing torque of 12822 lbft with two racks (loading also possible on a slope)
- Wide-angle joint (efficient lifting geometry)
- Articulated support legs (distance between support points 10' 3/8")
- Torsion-resistant hexagonal extension boom for good centralisation (FARMI 6167)
- Double extension with chain in the 6185 loader
- Booms and column of special steel (HSLA steel of grade 650)
- Slewing shafts and racks of special hard steel
- 1/2" hydraulic hoses

### FARMI 6167/6185- VARIO 121 Combinations for contractors

#### VARIO 121 Forest Trailer:

- Load capacity 28660 lbs
- Extensive range of accessories
- Frame tube profile: 9 13/16" x 9 13/16" x 5/16"
- Low center of gravity

#### FARMI 6167/6185 Loader:

- Lifting torque 49079 lbft
- Slewing torque 12822 lbft
- Slewing shafts and racks of special steel
- Booms and column of special steel

**Combinations for demanding daily professional use**

The Flagship of the FARMI Crane-Forest Trailer Combinations is a FARMI 8070/8085-PROFDRIVE 12-4WD. This Forest Trailer has a staggering tractive force of 12590 lbs and a load capacity of 26456 lbs. FARMI 8070/8085 - when equipped with a loader and connected to a 4WD tractor. This trailer is equivalent to a load-carrying forestry forwarder. The PROFDRIVE 12-4WD is designed for professional use. Thanks to its excellent features, your tractor and trailer will become an efficient combination for timber transport. The PROFDRIVE 12-4WD trailer has its own load-sensing hydraulic unit and Parker IQAN control system, which is used for the trailer driving hydraulics and loader hydraulics. Thanks to the separate hydraulics, the hydraulic oils of the trailer do not mix with those of the tractor, and the trailer is easy to hitch to and unhitch from the tractor. Steel-reinforced forest tires, oil-bath multi-disc brakes and a parking brake are standard equipment on this ruggedly constructed trailer. With the drive off, the trailer can be towed on roads at a speed of up to 18.65 mph. Therefore the unit can easily be transferred from one site to another. The amount of timber transferred is 5925 – 12037 yd<sup>3</sup>/year.



**PROFDRIVE 12-4WD:**

- Tractive force 12590 lbs
- Load area 30 1/8 ft<sup>2</sup>
- Max driving speed 18.64 mph
- DANA shafts (oil-bath multi-disc brakes)
- PARKER IQAN control system (loader and trailer)
- Mechanical differential lock (electro-hydraulic locking)
- Versatile function monitoring system: pressures, temperatures, driving speed, operating hours, filters, locking differential, etc.
- Load-sensing hydraulics
- Hydraulic brakes
- 4 sets of bolsters
- Ground clearance 21 1/4" or 23 1/4"
- Articulated support legs (distance between support points 11' 1/8")
- Frame tube profile 9 13/16" x 9 13/16" x 3/8"
- Different tire sizes available
- Pneumatic brakes as alternative

**FARMI 8070 and 8085:**

- Reach: FARMI 8070 (22' 15/16") and FARMI 8085 (27' 7/8")
- Excellent lifting capacity, lifting torque: 59396 lbft (gross 2828 PSI)
- Staggering slewing torque of 14738 lbft with two racks (loading also possible on a slope)
- Wide-angle joint (efficient lifting geometry)
- Torsion-resistant hexagonal extension boom for good centralisation (FARMI 8070)
- Booms of special steel (HSLA steel of grade 650)
- Slewing shafts and racks of special hard steel
- Operator-specific speed adjustment (four memory slots)

**When equipped with a FARMI loader and connected to a 4WD tractor, this hub-driven trailer performs on a par with purpose build forwarder.**

**PROFDRIVE 12 Forest Trailer:**

- Load capacity 26456 lbs
- Versatile movement-/operation-specific programmability
- Automatic parking brake in loading situations

**FARMI 8070/8085 Crane:**

- Lifting torque 59396 lbft
- Slewing torque 14738 lbft

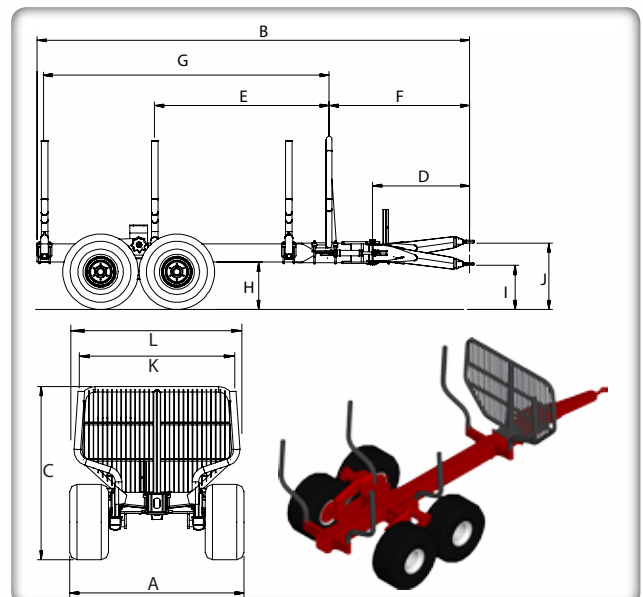
# TECHNICAL SPECIFICATIONS – PROFI FOREST TRAILERS

# PROFI

| TECHNICAL SPECIFICATIONS                                   | VARIO 101               | VARIO 121                   | PROFDRIVE                  |
|------------------------------------------------------------|-------------------------|-----------------------------|----------------------------|
| Load capacity (lbs)                                        | 24251                   | 28660                       | 26456                      |
| Own weight (lbs)                                           | 3483 - 4034             | 4398 - 4806                 | 8157 2/16                  |
| Load area (ft <sup>2</sup> )                               | 26 ¼                    | 28 ¼                        | 30 ⅛                       |
| Frame tube (mm)                                            | 7 7/8" x 7 7/8" x 5/16" | 9 13/16" x 9 13/16" x 5/16" | 9 13/16" x 9 13/16" x 3/8" |
| <b>RECOMMENDED FARM CRANES/LOADERS</b>                     |                         |                             |                            |
| Farmi 4571 / 4581                                          | X                       | -                           | -                          |
| Farmi 6167 / 6185                                          | -                       | X                           | -                          |
| Farmi 8070 / 8085                                          | -                       | -                           | X                          |
| <b>EQUIPMENT AND ACCESSORIES</b>                           |                         |                             |                            |
| Hydraulic drawbar lock                                     | S                       | S                           | S                          |
| Extra bolsters/stakes                                      | O                       | O                           | O                          |
| Hydraulic steering with two cylinders                      | S                       | S                           | S                          |
| Parking support                                            | S                       | S                           | S                          |
| Rear light beam (can be turned)                            | O                       | O                           | O                          |
| Hydraulic unit/variable-volume pump                        | O                       | O                           | S                          |
| Hydraulic unit/fixed-volume pump                           | O                       | O                           | -                          |
| Electrical control valve for crane/loader or trailer drive | O                       | O                           | -                          |
| Load area extension, L = 3' ¼"                             | O                       | O                           | -                          |
| 4WD device, tractive force 4270 lbs                        | O                       | O                           | -                          |
| 4WD device, tractive force 12590 lbs (tire size = 21 5/8") | -                       | -                           | S                          |
| PARKER IQAN control/monitoring system                      | -                       | -                           | S                          |
| Low drawbar with rotating eye                              | S                       | S                           | S                          |
| High drawbar with fixed eye                                | O                       | O                           | -                          |
| Low drawbar with fixed eye                                 | O                       | O                           | O                          |
| Parking level                                              | O                       | O                           | -                          |
| <b>BRAKES</b>                                              |                         |                             |                            |
| Without brakes                                             | O                       | O                           | -                          |
| Hydraulic brakes in front wheels                           | S                       | S                           | -                          |
| Hydraulic brakes in all wheels                             | O                       | O                           | S                          |
| 2-pipe air brakes with safety brake                        | O                       | O                           | O                          |
| 2-pipe air brakes                                          | O                       | O                           | O                          |
| <b>TIRES, TRAILERS WITHOUT DRIVE</b>                       |                         |                             |                            |
| 400/60-15.5 TRI-15 PR14, S6 / M6 -bogies, ø 35 1/16"       | S <sup>1)</sup>         | -                           | -                          |
| 500/55-17 ELS PR12, M6 -bogies, ø 39 9/16"                 | O <sup>2)</sup>         | -                           | -                          |
| 16/70-20 PR14, 1320 (TT), L8 -bogies, ø 42 5/16"           | -                       | S <sup>1)</sup>             | -                          |
| 500/60-22.5 F328 PR16, X8 -bogies, ø 46 1/16"              | -                       | O <sup>3)</sup>             | -                          |
| 600/50-22.5 F328 PR16, X8 -bogies, ø 46 1/16"              | -                       | O <sup>4)</sup>             | -                          |
| <b>TIRES, TRAILERS WITH HYDRAULIC DRIVE</b>                |                         |                             |                            |
| 500/55-17 ELS PR12, M6 -bogies, ø 39 9/16"                 | S <sup>2)</sup>         | -                           | -                          |
| 550/45-22.5 PR12, L8 -bogies, ø 42 1/8"                    | O <sup>3)</sup>         | S <sup>2)</sup>             | -                          |
| 550/45-22.5/10 331F, PR16 offset +50, Steel, 42 1/8"       | -                       | -                           | S                          |
| 600/50-22.5/10 331F, PR16 offset +35, Steel, 46 1/16"      | -                       | -                           | O <sup>2)</sup>            |

S = Standard, O = Accessory/Optional

|                 | VARIO 101           | VARIO 121             | PROFDRIVE (600/50) |
|-----------------|---------------------|-----------------------|--------------------|
| A <sup>1)</sup> | 85 13/16 - 81 7/8   | 89                    | 94 1/8             |
| A <sup>2)</sup> | 90 3/16             | 96 7/16               | 96 7/8             |
| A <sup>3)</sup> | 94 1/8              | 96 7/16               |                    |
| A <sup>4)</sup> |                     | 100 3/16              |                    |
| B               | 237 - 239           | 266 - 268 1/2         | 274                |
| C               | 87 13/16 - 91 3/4   | 93 7/8 - 95 7/8       | 107 1/2            |
| D               | 51 - 52 15/16       | 51 15/16 - 53 15/16   | 59 1/16            |
| E               | 102 3/16 - 114 3/16 | 105 11/16 - 117 11/16 | 120 7/8            |
| F               | 78 3/4 - 80 11/16   | 80 5/16 - 82 5/16     | 88 9/16            |
| G               | 153 1/8             | 181 1/4               | 179 15/16          |
| H               | 21 7/8 - 25 3/16    | 26 - 27 15/16         | 28 3/4 (30 11/16)  |
| I               | 19 5/16 - 22 13/16  | 24 7/16 - 26 3/8      | 28 3/4 (30 11/16)  |
| J               | 32 1/16 - 35 1/4    | 36 - 38               | -                  |
| K               | 82 5/16             | 82 11/16              | 82 5/16            |
| L               | 86 5/8              | 89 3/8                | 89                 |



| CRANE      | LIFTING CAPACITY, lbs <i>without grapple and rotator – 2828 PSI (2611 PSI)</i> |             |             |             |             |             |             |
|------------|--------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|            | At full reach                                                                  | 9' 13/16"   | 13' 1/8"    | 16' 3/8"    | 19' 11/16"  | 22' 15/16"  | 26' 1/4"    |
| FARMI 4571 | 23' 5/16": 1080 (997)                                                          | 2491 (2299) | 2017 (1861) | 1587 (1464) | 1323 (1219) | 1091 (1005) |             |
| FARMI 4581 | 26' 9/16": 871 (805)                                                           | 2425 (2238) | 1929 (1779) | 1510 (1393) | 1246 (1149) | 1014 (935)  | 882 (814)   |
| FARMI 6167 | 22": 1510 (1393)                                                               | 3417 (3153) | 2657 (2452) | 2050 (1892) | 1709 (1576) |             |             |
| FARMI 6185 | 27' 7/8": 1014 (937)                                                           | 3285 (3031) | 2524 (2328) | 1885 (1739) | 1587 (1464) | 1356 (1250) | 1080 (997)  |
| FARMI 8070 | 22' 15/16": 1742 (1607)                                                        | 4189 (3865) | 3307 (3051) | 2646 (2441) | 2050 (1892) | 1742 (1607) |             |
| FARMI 8085 | 27' 7/8": 1367 (1261)                                                          | 3549 (3276) | 3120 (2879) | 2635 (2432) | 2116 (1953) | 1786 (1647) | 1499 (1382) |

| TECHNICAL SPECIFICATIONS                      |                     | 4571             | 4581             | 6167             | 6185             | 8070             | 8085             |
|-----------------------------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Max reach,                                    | ft                  | 23' 5/16"        | 26' 9/16"        | 22"              | 27' 7/8"         | 22' 15/16"       | 27' 7/8"         |
| Gross lifting torque (2611 / 2828 PSI)        | lbft                | 34562 / 37509    | 34562 / 37509    | 45321 / 49079    | 45321 / 49079    | ----- / 59396    | ----- / 59396    |
| Lifting torque (2611 / 2828 PSI)              | lbft                | 24761 / 26824    | 23139 / 25055    | ----- / 35225    | ----- / 33383    | ----- / 39941    | ----- / 38836    |
| Max operating pressure                        | PSI                 | 2828             | 2828             | 2828             | 2828             | 2828             | 2828             |
| Boom slewing angle                            | °                   | 400              | 400              | 400              | 400              | 370              | 370              |
| Slewing torque                                | lbft                | 12822            | 12822            | 12822            | 12822            | 14738            | 14738            |
| Rotator (as standard)                         | continuous rotation | FR10             | FR10             | FR15             | FR15             | FR21             | FR21             |
| Rotator slewing torque                        | lbft                | 663 – 719        | 0,9 – 0,975      | 763 – 826        | 763 – 826        | 970              | 970              |
| Grapple area tip to tip                       | ft <sup>2</sup>     | 2 1/4 (2 9/16)   | 2 1/4 (2 9/16)   | 2 9/16           | 2 9/16           | 2 15/16          | 2 15/16          |
| Weight of grapple and rotator + fittings      | lbs                 | 254 (320)        | 254 (320)        | 346              | 346              | 496              | 496              |
| Weight (incl. rotator and grapple)            | lbs                 | 2326 (2392)      | 2447 (2513)      | 2723             | 2855             | 3252             | 3538             |
| Weight of adapter and support legs            | lbs                 | 589              | 589              | 589              | 589              | 650              | 650              |
| Recommended pump capacity                     | gal / min           | 7 15/16 - 15 7/8 | 7 15/16 - 15 7/8 | 15 7/8 - 26 7/16 | 15 7/8 - 26 7/16 | 18 1/2 - 26 7/16 | 18 1/2 - 26 7/16 |
| Extension boom                                | pcs                 | 1                | 2                | 1                | 2                | 1                | 2                |
| Type of adapter and support legs              | FARMI SL            | 45 - 61          | 45 - 61          | 45 - 61          | 45 - 61          | 80               | 80               |
| Hosing                                        | "                   | 3/8              | 3/8              | 1/2              | 1/2              | 1/2              | 1/2              |
| <b>PROPERTIES</b>                             |                     |                  |                  |                  |                  |                  |                  |
| Hexagonal extension boom                      |                     | S                | -                | S                | -                | S                | -                |
| Wide-angle joint                              |                     | S                | S                | S                | S                | S                | S                |
| Slewing base with double roller bearing       |                     | S                | S                | S                | S                | S                | S                |
| 4-cylinder slewing device                     |                     | S                | S                | S                | S                | S                | S                |
| Double linkage for hydraulic hoses/pipes      |                     | S                | S                | S                | S                | S                | S                |
| 3-point linkage                               |                     | O                | O                | O                | O                | -                | -                |
| Oil bath lubrication                          |                     | S                | S                | S                | S                | S                | S                |
| <b>VALVES</b>                                 |                     |                  |                  |                  |                  |                  |                  |
| LC8/8 mechanical, with 8 levers               |                     | O                | O                | O                | O                | -                | -                |
| LC2/8 mechanical, with 2 levers               |                     | O                | O                | S                | S                | -                | -                |
| LEC2/6+2, with 2 levers (on/off)              |                     | S                | S                | O                | O                | -                | -                |
| HPC2/6+2 hydraulic pressure control           |                     | O                | O                | O                | O                | -                | -                |
| EHC 2/8 electro-hydraulic control             |                     | O                | O                | O                | O                | -                | -                |
| EHC 2/8, with remote control                  |                     | O                | O                | O                | O                | -                | -                |
| PARKER IQAN control                           |                     | -                | -                | -                | -                | S                | S                |
| <b>ACCESSORIES</b>                            |                     |                  |                  |                  |                  |                  |                  |
| Operator's seat                               |                     | O                | O                | O                | O                | -                | -                |
| Grapples (standard in bold)                   |                     | PTK 021(S) / 024 | PTK 021(S)       | PTK 024          | PTK 024          | VAHVA 27B        | VAHVA 27B        |
| Gravel bucket for PTK021 (46 gall)            |                     | O                | O                | -                | -                | -                | -                |
| Silage grapple for PTK021 (56 gall)           |                     | O                | O                | O                | O                | -                | -                |
| Hydraulic winch 3089 lbs, 2538 PSI, 148' 1/4" |                     | O                | O                | O                | O                | -                | -                |
| Grapple oscillation brake                     |                     | O                | O                | O                | O                | -                | -                |
| Hydraulic unit/variable displacement pump     |                     | O                | O                | O                | O                | -                | -                |
| Hydraulic unit/gear pump                      |                     | O                | O                | -                | -                | S                | S                |

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S = Standard, O = Accessory/Optional

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