## Technical data

### Engine (4 cyl.):

- **VOLVO PENTA TAD581VE EU Stage V**
- Engine output: 129 kW (175 HP) ab 1700 rpm
- Max. rpm: 800 Nm von 1100 - 1500 rpm
- Max. torque: 816 Nm bei 1380 rpm
- Engine capacity: 5.13 liters

### Optional:

- **VOLVO PENTA TAD583VE EU Stage V**
  - Power: 175 kW (238 HP) at 1750 rpm
  - Max. revolution: 947 Nm at 1200 - 1750 rpm
  - Max. torque: 969 Nm at 1380 rpm
  - Displacement: 5.13 liter

### Transmission:

- HSM TwinPowerDrive

### Axles:

- Planetary axles
- 100% separately selectable differential locks, front and rear

### Brake:

- 2-circuit brake, disk brake running in an oil bath
- Spring-loaded parking brake

### Steering:

- Articulated steering with 2 cylinders
- 45° steering angle

### Tank capacity:

- Diesel: 175 l
- AdBlue: 25 l
- Hydraulic fluid: 90 l

### Hydraulics:

- Load sensing
- Pump output:
  - Flow rate: 232 litres/min at 1600 rpm
  - Pressure: up to 350 bar
- Hydraulic fluid:
  - Saturated, synthetic ester
  - Panolin HLP SYNTH with Kleenoil
  - Microfiltration, WGK 1

### Cabin:

- HSM Panorama comfort cab
- ROPS, FOPS, OPS tested safety cab
- Swivel seat device, air-suspended comfort seat
- heating/air-conditioning

### Electrical system / Instruments:

- HSM Ecommand colour-display
- 5 operator programs + factory setting
- diagnosis-tool and error-indication, graphic support at parameter editing
- generator 110 A (28 V)
- 2 service-free dry batteries à 55 Ah

### Standard equipment:

- 12 LED work lamps, 24 V - 12 V voltage transformer, Radio with CD player, fire extinguisher, first-aid kit, warning, triangle, tool set
- Torsion lock with 2 hydraulic cylinders and much more

### Special accessories:

- Tiltable front polder shield, front loader (Hauer), trailer hitch, outer hydraulic connection, remote control for cable winch, wireless driving, auxiliary heating, sun blinds, seat damping pad
- Additional accessories on request
Winches:
- Serial: Adler HY 20 (2 x 100 kN) double-drum winch
  Max. cable take-up of 14 mm, 100 m
- Optional: Adler HY 24-SG (2 x 120 kN) double-drum winch
  Max. cable take-up of 14 mm, 130 m

Weight:
- from 14 100 kg

Forwarder:
- Epsilon S120 R80
  (max. range 8 m, lifting moment 139 kNm gross)
- Epsilon S120 R96
  (max. range 9.6 m, lifting moment 139 kNm gross)

Weight:
- from 14 600 kg / 14 800 kg

Payload:
- 9 t

Standard equipment:
- Fixed front polder shield, 2000 mm wide
- Lowerable straight shield
- Epsilon crane S120 R80

Special equipment:
- Clamping workbench on roll supports
- Engine bonnet protection and brush guard made from tubing
- Bogielift at the rear
- Additional accessories on request

Winches:
- Serial: Adler HY 16 (2 x 80 kN) double-drum winch
  Max. cable take-up of 14 mm, 100 m
- Optional: Adler HY 20 (2 x 100 kN) double-drum winch
  Max. cable take-up of 14 mm, 100 m

Tyres:
- Serial
  Size: Minimum width: H: F:
  At the front: 23.1 x 26 2550 mm 3170 530
  At the rear: 710/40x22.5

The minimum width changes when using belts (+100). Other tyres on request.

Standard equipment:
- Headboard grid and first stanchion removable
- Last stanchion can be removed and adjusted to
  (short) 1.9 m, 2.7 m and 3.2 m
  (long) 2.4 m, 3.1 m and 3.7 m
- Height-adjustable roller block
- Reversing camera with color monitor
- Rear headlights

Special equipment:
- Front polder shield
- Straight shield
- Clamping workbench with quick-change plate
- Rotating stanchion
- Kombi long: Twin stanchions as 2nd and 3rd stanchion on quick-change plate
- Additional accessories on request
Winches:
- Serial: Adler HY 20 (2 x 100 kN) double-drum winch
  Max. cable take-up of 14 mm, 100 m
- Optional: Adler HY 24-SG (2 x 120 kN) double-drum winch
  Max. cable take-up of 14 mm, 130 m
- Adler HY 32-SG (2 x 160 kN) double-drum winch
  Max. cable take-up of 16 mm, 100 m

Weight:
- from 12000 kg

Forwarder:
- Serial: Adler EHY 10 (1 x 100 kN) single-drum winch
  Max. cable take-up of 14 mm, 80 m
- Optional: Adler HY 20 (2 x 100 kN) double-drum winch
  Max. cable take-up of 14 mm, 100 m
- Adler HY 24-O (2 x 120 kN) double-drum winch
  Max. cable take-up of 14 mm, 130 m
- Adler HY 32-O (2 x 160 kN) double-drum winch
  Max. cable take-up of 16 mm, 100 m
- Adler HY 32-LO double-drum winch

Weight:
- from 12800 kg

Tyres:

<table>
<thead>
<tr>
<th>Size</th>
<th>Total width</th>
<th>H:</th>
<th>F:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23.1 x 26</td>
<td>2360 mm</td>
<td>3170</td>
<td>530</td>
</tr>
<tr>
<td>Optional:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28L-26</td>
<td>2600 mm</td>
<td>3176</td>
<td>536</td>
</tr>
<tr>
<td>620/75-26</td>
<td>2400 mm</td>
<td>3149</td>
<td>509</td>
</tr>
<tr>
<td>600/65-34</td>
<td>2360 mm</td>
<td>3202</td>
<td>562</td>
</tr>
<tr>
<td>710/55-34</td>
<td>2620 mm</td>
<td>3203</td>
<td>563</td>
</tr>
<tr>
<td>67x34-25</td>
<td>3000 mm</td>
<td>3162</td>
<td>525</td>
</tr>
</tbody>
</table>

Standard equipment:
- Fixed front polder shield, 2000 mm wide
- Lowerable straight shield
- Epsilon crane M80 R59

Special equipment:
- Hydraulically height-adjustable roller block
- Clamping workbench on height-adjustable roller block
- Straight shield with sprag brake
- "Skidder France" version pulley
- Engine bonnet protection and brush guard made from tubing
- Additional accessories on request

Winches:
- Serial: Adler HY 20 (2 x 100 kN) double-drum winch
  Max. cable take-up of 14 mm, 100 m
- Optional: Adler HY 24-SG (2 x 120 kN) double-drum winch
  Max. cable take-up of 14 mm, 130 m
- Adler HY 32-SG (2 x 160 kN) double-drum winch
  Max. cable take-up of 16 mm, 100 m

Weight:
- from 12000 kg

Forwarder:
- Serial: Adler EHY 10 (1 x 100 kN) single-drum winch
  Max. cable take-up of 14 mm, 80 m
- Optional: Adler HY 20 (2 x 100 kN) double-drum winch
  Max. cable take-up of 14 mm, 100 m
- Adler HY 24-O (2 x 120 kN) double-drum winch
  Max. cable take-up of 14 mm, 130 m
- Adler HY 32-O (2 x 160 kN) double-drum winch
  Max. cable take-up of 16 mm, 100 m
- Adler HY 32-LO double-drum winch

Weight:
- from 12800 kg

Tyres:

<table>
<thead>
<tr>
<th>Size</th>
<th>Total width</th>
<th>H:</th>
<th>F:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23.1 x 26</td>
<td>2360 mm</td>
<td>3170</td>
<td>530</td>
</tr>
<tr>
<td>Optional:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28L-26</td>
<td>2600 mm</td>
<td>3176</td>
<td>536</td>
</tr>
<tr>
<td>620/75-26</td>
<td>2400 mm</td>
<td>3149</td>
<td>509</td>
</tr>
<tr>
<td>600/65-34</td>
<td>2360 mm</td>
<td>3202</td>
<td>562</td>
</tr>
<tr>
<td>710/55-34</td>
<td>2620 mm</td>
<td>3203</td>
<td>563</td>
</tr>
<tr>
<td>71x34-25</td>
<td>3000 mm</td>
<td>3162</td>
<td>525</td>
</tr>
</tbody>
</table>

Standard equipment:
- Fixed front polder shield, 2000 mm wide
- Straight shield as sprag brake

Special equipment:
- Hydraulically height-adjustable roller block
- "Skidder France" version pulley
- Straight shield „France“
- Engine bonnet protection and brush guard made from tubing
- Additional accessories on request
805HD 6WD

Winches:
- Serial: Adler HY 20 (2 x 100 kN) double-drum winch
  Max. cable take-up of 14 mm, 100 m
- Optional: Adler HY 24-O (2 x 120 kN) double-drum winch
  Max. cable take-up of 14 mm, 130 m
  Adler HY 32-O (2 x 160 kN) double-drum winch
  Max. cable take-up of 16 mm, 100 m

Weight:
- from 15300 kg

Forwarder:
- Serial: Tiltable Epsilon X150 R80
  (Max. range 8 m, 170 kNm gross lifting moment)
- Optional: Tiltable Epsilon X150 R104
  (Max. range 10.4 m, 170 kNm gross lifting moment)

Tyres:
- Serial: Size: Minimum width: H: F:
  At the front: 23.1 x 26 2550 mm 3595 530
  At the rear: 710/45x26.5

The minimum width changes when using belts (+100). Other tyres on request.

Standard equipment:
- Fixed front polder shield, 2000 mm wide
- Straight shield as sprag brake

Special equipment:
- Clamping workbench on height-adjustable roller block
- "Skidder France" version pulley
- Engine bonnet protection and brush guard made from tubing
- Additional accessories on request
- Bogielift back

805HD Kombi short/long

Winches:
- Serial: Adler HY 20 (2 x 100 kN) double-drum winch
  Max. cable take-up of 14 mm, 100 m
- Optional: Adler HY 24-SG (2 x 120 kN) double-drum winch
  Max. cable take-up of 14 mm, 130 m
  Adler HY 32-SG (2 x 160 kN) double-drum winch
  Max. cable take-up of 16 mm, 100 m

Weight:
- from 15300 kg / 15500 kg

Payload:
- 11 t

Forwarder:
- Epsilon crane M70 F80 (Series)
- Additional cranes on request

Tyres:
- Serial: Size: Minimum width: H: F:
  At the front: 23.1 x 26 2550 mm 3670 530
  At the rear: 710/45x26.5
  28L-26 2600 mm 3164 631
  620/75-26 2400 mm 3137 604
  600/65-34 2360 mm 3190 657
  710/55-34 2620 mm 3191 658
  67x34-25 3000 mm 3150 620

The minimum width changes when using belts (+100). Other tyres on request.

Standard equipment:
- Headboard grid and first stanchion removable
- Last stanchion can be removed and adjusted to
  (short) 2.4 m, 3.2 m and 3.8 m
  (long) 2.8 m, 3.6 m and 4.2 m
- Height-adjustable roller block
- Rear camera with color monitor
- Rear headlights

Special equipment:
- Front polder shield
- Straight shield
- Clamping workbench with quick-change plate
- Twin stanchions as 2nd and 3rd stanchion on quick-change plate
- Rotating stanchion
- Bogielift at the rear
- Additional accessories on request
### The variable rear

#### HSM Crane-list

<table>
<thead>
<tr>
<th>Crane type</th>
<th>Lifting moment</th>
<th>Range</th>
<th>Gripper type</th>
<th>805F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Kombi</td>
<td></td>
</tr>
<tr>
<td>M70 F80</td>
<td>102/88 kNm</td>
<td>8,0 m</td>
<td>FG43S</td>
<td>O</td>
</tr>
<tr>
<td>M70 F86</td>
<td>102/88 kNm</td>
<td>8,6 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>M70 F101</td>
<td>102/65 kNm</td>
<td>10,1 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>M80 F80</td>
<td>114/79 kNm</td>
<td>8,0 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>M80 F86</td>
<td>114/79 kNm</td>
<td>8,6 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>M80 F101</td>
<td>114/75 kNm</td>
<td>10,1 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>S100 F80</td>
<td>128/91 kNm</td>
<td>8,0 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>S100 F86</td>
<td>128/90 kNm</td>
<td>8,6 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>S100 F101</td>
<td>128/86 kNm</td>
<td>10,1 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>S110 F80</td>
<td>143/104 kNm</td>
<td>8,0 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>S110 F86</td>
<td>143/104 kNm</td>
<td>8,6 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>S110 F101</td>
<td>143/100 kNm</td>
<td>10,1 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>X120 F80</td>
<td>159/111 kNm</td>
<td>8,0 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>X120 F86</td>
<td>159/110 kNm</td>
<td>8,6 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>X120 F102</td>
<td>159/107 kNm</td>
<td>10,2 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>X140 F80</td>
<td>173/123 kNm</td>
<td>8,0 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>X140 F86</td>
<td>173/122 kNm</td>
<td>8,6 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>X140 F102</td>
<td>173/119 kNm</td>
<td>10,2 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F71 F72</td>
<td>99/75 kNm</td>
<td>7,2 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>F71 FT85</td>
<td>99/70 kNm</td>
<td>7,2 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>F71 FT100</td>
<td>99/66 kNm</td>
<td>10,0 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>F71 FT100i</td>
<td>99/66 kNm</td>
<td>10,0 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>F83 F72</td>
<td>106/82 kNm</td>
<td>7,2 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>F83 FT85</td>
<td>106/76 kNm</td>
<td>8,5 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>F83 FT100i</td>
<td>106/73 kNm</td>
<td>10,0 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>M 92 F80i</td>
<td>130/84 kNm</td>
<td>8,0 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>M 92 FT86i</td>
<td>130/84 kNm</td>
<td>8,6 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>M 92 FT100i</td>
<td>130/84 kNm</td>
<td>10,0 m</td>
<td>FG43S</td>
<td>X</td>
</tr>
<tr>
<td>F111 F72</td>
<td>151/111 kNm</td>
<td>7,2 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>F111 F85</td>
<td>151/100 kNm</td>
<td>8,5 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>F111 FT85</td>
<td>151/100 kNm</td>
<td>8,5 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>F111 FT91</td>
<td>151/98 kNm</td>
<td>9,1 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>F111 FT100</td>
<td>151/101 kNm</td>
<td>10,0 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>M122 F85i</td>
<td>155/110 kNm</td>
<td>8,5 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>M122 F98i</td>
<td>155/ - kNm</td>
<td>9,6 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>M122 FT100</td>
<td>155/ - kNm</td>
<td>10,0 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>M142 F85i</td>
<td>178/132 kNm</td>
<td>8,5 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>M142 F96i</td>
<td>178/124 kNm</td>
<td>9,6 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
<tr>
<td>M142 FT100</td>
<td>178/ - kNm</td>
<td>10,0 m</td>
<td>FG43S</td>
<td>#</td>
</tr>
</tbody>
</table>

**Notes:**
- X = available with surcharge
- O = standard equipment
- # = not available

#### Technical features

- **Last stanchion variable in "short" position**
- **Last stanchion variable in "centre" position**
- **Last stanchion variable in "long" position**
- **Quick-change twin stanchion for 2 x 2 or 2 x 2.5 m wood (not for 805F short version)**
- **Height-adjustable pulleys Up to 2 m**
- **Rope forwarding possible Without reconfiguring the stanchion**
- **Log forwarding with quick-change clamping workbench**
- **Rope forwarding possible without reconfiguring the clamping workbench**

---

**Contact information:**

HSM Hohenloher Spezial-Maschinenbau GmbH & Co. KG

Technik die Freude macht.

D-74635 Neu-Kupfer
Im Greuti 10
Phone +49 7944 / 9191-0
Fax +49 7944 / 9191-77
E-mail: info@hsm-forest.com
www.hsm-forest.com