

# FARMMI<sup>®</sup>

## FOREST



EFFICIENT AND HIGHLY PRODUCTIVE DISK CHIPPER

## FARMI 182 chipper with manual feed

Use the **FARMI 182HF** chipper with hydraulic feed to produce cheap energy for private use! Thanks to three-step chipping (with double rotor disk and twig breakers), you are able to produce homogeneous energy chips from any wood material. Both trimmed as well as non-trimmed trunks, branches, twigs and slabs can perfectly be used as feed material for the **FARMI 182** chipper.

The **FARMI 180F** and **180HF** chippers with one rotor disk are more reasonably priced alternatives for landscaping. These machines can also be used to produce high-quality chips from trimmed trunks.

The chipper models **FARMI 180** and **182** come equipped with two knives which can cut wood with a maximum diameter of 18 cm. The chip length can be adjusted in steps of 10, 12 or 14 mm.

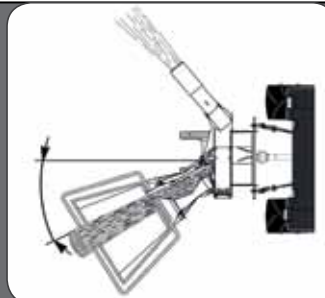


### FARMI 180 and 182

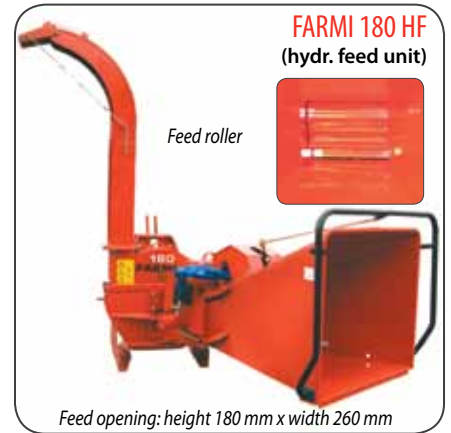
- cheap production of energy chips
- homogeneous chip quality
- sturdy and easy to maintain
- safe construction
- wide feeding angle – less power demand



The feed unit of the FARMI chipper 180F is designed to ensure a wide feeding angle for inclined infeed and thus to produce a self-pulling effect. The material to be cut is pulled into the chipper by the diagonally cutting knives.



Thanks to their wide feeding angle between knife and material, all FARMI chippers have a reduced power demand. The diagonal feed and the optimum design of the knives create a self-pulling effect which ensure the operation of the chipper without hydraulic feed unit.



Like the FARMI CH182HF, the FARMI CH180 HF model is equipped with hydraulic feed unit. Both machines can optionally be fitted with an own hydraulic unit (HD11).



The BT180 belt drive used as a speed increaser doubles the speed and therefore the chipping and discharge performance. This, however, causes a higher demand of power which must be generated by the tractor.

## FARMI 260 chipper with manual feed

The double rotor disk, three-step chipping and the adjustable knives of the FARMI series 260 with manual feed enable neat chips of appropriate length [(4)7 – 25 mm] to be produced **according to the pertinent safety regulations**. Therefore the machines of this series are suited for various purposes: energy generation, landscaping, mulching of garden beds, composting, animal bedding, etc.

In addition, the high-power breaker enables branches and twigs as well as slabs to be cut to produce **homogeneous** wood chips for incineration purposes. The chip quality is even improved by increasing the speed. The FARMI 260 chipper with manual feed can be supplied with any clean wood material with diameters up to 26 cm.



On the FARMI chipper 260 F, the feed system is designed to ensure a wide feeding angle for inclined infeed and thus to produce a self-pulling effect. For the FARMI 260 HF series, two hydraulic feed rollers are used for feeding. The CH260 HF-HM model is equipped with hydraulic control and the CH260 HF-EM model

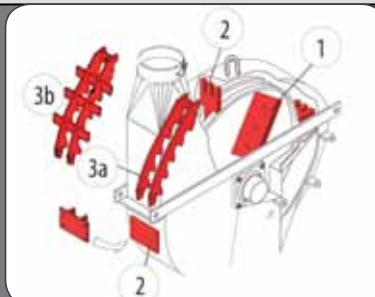
with electro-hydraulic control. Both models are offered with an optional NO STRESS revolution control device and an optional own hydraulic unit (HD11). The hydraulic unit is needed if there is no tractor hydraulic system available or if the chipper is to be used for different tractors.

### FARMI 260

- Homogeneous chips produced by three-step chipping
- Fail-safe
- Adjustable chip thickness (4) 7 – 25 mm
- Disk has also discharge function
- Feed roller with large diameter



Hydraulic unit HD11



Three-step chipping (CH182, CH260 and CH380)

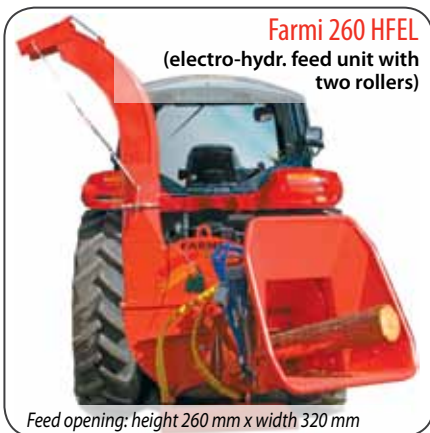
1. Knife
2. Additional knives/counter knives (2 pcs.)
- 3a. Twig breaker
- 3b. High-power breaker as accessories for some models

# FARMI 260 chipper for producing energy chips with grab loader feed



The **260 HFEL** disk chipper with grab loader feed is the ideal machine for producing energy chips. As basic material, clean wood such as trunks, trimmed log or slabs are used. Perfect infeed is ensured by the upper large-diameter feed roller and the movable roller swing of the feed unit with two rollers. The powerful hydraulic motors and the automated control of the feed system enable the operator to focus fully on the operation of the crane and thus ensure a considerable increase of productivity and efficiency.

Thanks to its efficient and sturdy conveyor feeder made of steel, the **260 HFC** is also suitable for chipping branches and short pieces of wood. Moreover, the steel conveyor feeder accelerates the feeding speed of long wood pieces.



The following optional equipment is offered for the FARM 260 HFEL and HFC models: an own hydraulic unit (HD11), electric pedal control of the feed unit and hydraulic functions for swiveling the discharge pipe, adjusting the discharge pipe lid and opening the upper chamber. When using the separate support unit, the chipper/crane combination FARM



260 can be mounted to the 3-point hitch of a tractor. Mounting and dismounting can be done very quickly, i.e. the tractor can easily be used for other purposes, as well. The chipper/crane combination FARM 260 – our convincing solution for season-specific work.



## FARMI 260 HFEL and HFC

- Neat and homogeneous chip quality even when chipping slabs
- The efficient and sturdy conveyor feeder made of steel enables the chipper to cut branches and short pieces of wood.
- Cost-effective solution for season-specific work.



FARMI 260, equipped with an electric motor on the SML232 mounting base

All FARM chippers are available with an external drive unit (electric motor or combustion engine); here, the force is transmitted to the chipper via a V-belt.

For the chippers of the 260 series, a mounting base for the direct drive via electric motor (SML232) is available. If this mounting base is used, the chipper can be mounted on the same mounting platform as the electric motor.

# FARMI 380 chipper for producing energy chips for contractors

The **FARMI 380 HF** and **HFC** chippers offer the best characteristics you may expect from FARMI chippers, e.g. excellent chip quality, efficient feed and optimum cost-effectiveness. This enables an outstanding productivity with low fuel consumption.

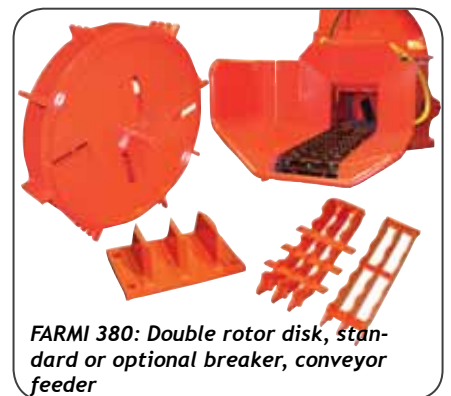
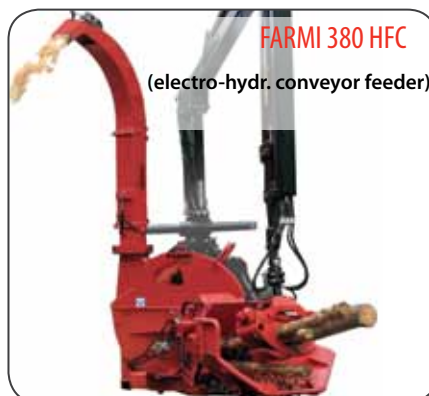
The dust-free and homogeneous chips of the **FARMI 380** chipper are perfect for the use in cogeneration plants and as fuel in biomass heat and power plants.

A high-performance feed unit with feed rollers (**FARMI 380 HF**) or with a steel conveyor feeder (**FARMI 380 HFC**) and with automated feed control ensures an outstanding throughput rate.

The chipper/crane combination **FARMI 380** with an output of 5,000–40,000 m<sup>3</sup>/year is a cost-effective chip production alternative for contractors. With a tractor driving power of approx. 200 HP, an optimum output of nearly 2 m<sup>3</sup>/min can be achieved – at a fuel consumption of less than 0.4 l/m<sup>3</sup>.

For further information on the efficiency of the Farmi 380 chipper, see: [www.farmiforest.fi](http://www.farmiforest.fi)

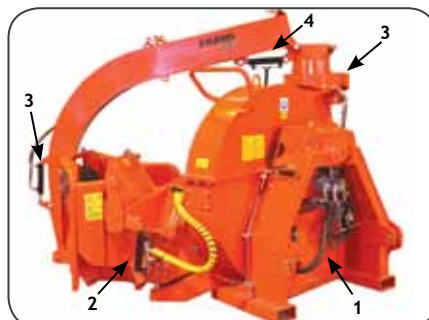
Feed opening: height 380 mm x width 420 mm  
length of the conveyor feeder 1400 mm



## FARMI 380

- Excellent, neat and homogeneous chip quality.
- Cost-effective chipper unit.
- Optimum throughput almost 2 m<sup>3</sup>/min.
- Low fuel consumption – less than 0.4 l/m<sup>3</sup>.

As standard, the FARMI chippers 380 HF and HFC are equipped with an **own hydraulic system (1)** which drives both the feed unit and the standard **roller swing of the upper feed roller (2)** and controls the **discharge pipe (3)**. However, the tractor hydraulic system is used to retract the pipe into its **transport position (4)** and to open the upper chamber.



**FARMI 380** in transport position

## FARMI chipper combinations

In combination with the FARMI crane and the FARMI forwarder, the FARMI 380 chipper enables a contractor to perform his work throughout the year at minimum cost. Moreover, our customers praise the easy and quick maintenance and the high productivity of the machine combination and the outstanding quality of the produced chips. The forwarder comes equipped with either 2 or 4 wheels.



**FARMI 380** Forwarder with 2 or 4 wheels

# FARMI chipper: Technical data and equipment

TECHNICAL DATA		180	182	260	260	380
Kind of feeding Application: landscaping / utilisation of bio-energy		Manual x/-	Manual x/x	Manual x/x	With grab loader x/x	With grab loader x/x
Output*	m <sup>3</sup> /h	5 - 20	5 - 20	10 - 20	10 - 40	30 - 100
Thickness of chip	mm	10, 12, 14	10, 12, 14	(4) 7-25	(4) 7-25	10 - 30
Max. log diameter	mm	180	180	250 / 260	260	380
Recommended tractor power*	kW	30 - 70	30 - 70	40/70 - 115	70 - 125	125 - 205
Speed	rpm	540 - 1000	1000	540 - 1000	540 - 1000	540-1000
Knives	Pcs.	2	2	2 (3)	2 (3)	4
*Output and power demand of the chipper may vary depending on the material to be cut, the status of the knives, the chip length, the kind of feeding and the speed.						
Chipper weight	kg	365-430	460	720 - 870	850 - 1500	1970 - 2500
Rotor diameter	mm	670	670	1050	1050	1460
Rotor weight	kg	100	120	240	240	615
Rotor drive		Direct	Direct	Direct	Direct	Direct
Belt drive (i=2.1 rpm), recommended for 540 rpm		BT180	BT180			
Drive		Tractor	Tractor	Tractor	Tractor	Tractor
Attachment to the tractor		3-point hitch	3-point hitch	3-point hitch	3-point hitch / forwarder	3-point hitch / forwarder
<b>CHIPPER EQUIPMENT</b>						
Discharge pipes, rotating		360°	360°	360°	360°	300°
Standard, discharge height above the floor		1.6 m	2.4 m	2.7 m	2.7 m	4.1 m
Option, discharge height above the floor		2.4 m	1.6 m	3.5 m	3.5 m	
Twig breaker		-	Standard	Standard	Standard	Standard
High-power breaker		-	-	Option	Option	Option
<b>FEED UNITS AND NO STRESS REVOLUTION CONTROL DEVICE</b>						
Feed hopper		F180		F260		
Hydr. feed unit with one roller (hydr. NO STRESS device)		HF180	HF180 (Option)			
Hydr. feed unit with two rollers (hydr. NO STRESS device)				HF260HM (Option)		
Electro-hydr. feed unit with two rollers Electr. NO STRESS device with reverse				HF260EM (Standard)	HF260EL (Standard)	HF380 (Standard)
Conveyor feeder Electr. NO STRESS device with reverse					HFC260 (Standard)	HFC380 (Standard)
<b>EQUIPMENT FOR PROFESSIONAL USE</b>						
Hydr. discharge pipe control (height + 300 mm)		-	-	Option	Option	Standard
Hydr. adjustment of the discharge pipe lid		-	-	Option	Option	Standard
Hydraulic opening of the upper chamber		-	-	Option	Option	Option
Pedal control of the feed unit		-	-	-	Option	Standard
Hydr. roller swing of the upper feed roller		-	-	-	-	Standard
Hydraulic unit		Option	Option	Option	Option	Standard
- pump capacity at 540 rpm, l/min		8.6		16.2	16.2	26-37
- pump capacity at 1000 rpm, l/min		16	16	30	30	48-70
<b>SPECIAL EQUIPMENT</b>						
Recommended electric motor for chipper with V-belt pulley		22-30 kW	22-30 kW	30-75 kW	55-75 kW	160 kW
Alternative cranes					3967-4571	4571-6185
Alternative forwarders		-	-	-	2 wheels	2 and 4 wheels

CHENGLIS /09/2011