

AFM FOREST



PRODUCT LINE

WWW.AFM-FOREST.FI

AFMFOREST

AFM-Forest Ltd is a Finnish company manufacturing high quality logging equipment. AFM harvesting heads, processors, felling and energy wood heads are designed to be used in professional logging operations. Years of experience in the forest machine market, combined with the high competence of the personnel, ensures the good reputation in the forest machine market. AFM products have been developed in strong co-operation with forest contractors. AFM equipment are working world wide on large selection of base machines from excavators to wheeled and track based forest machines.



ROBUST BUT GENTLE AS STANDARD

All AFM harvesting heads have proportional processing pressures, which are automatically adjusted according the tree diameter. This will minimize stem damages and lower the fuel consumption.

OPTIMIZED CUTTING AS STANDARD

AFM head has automatic, hydraulic saw chain tensioning, as a standard. Proportional saw bar pressure ensures optimal saw bar force in different tree diameters.



AFM 35



 KG				
720 KG 1590 LBS	Ø 5-30 CM 2-12"	60-67 CM 24-26"	8-14 T	8-16 T

OPERATIONS:

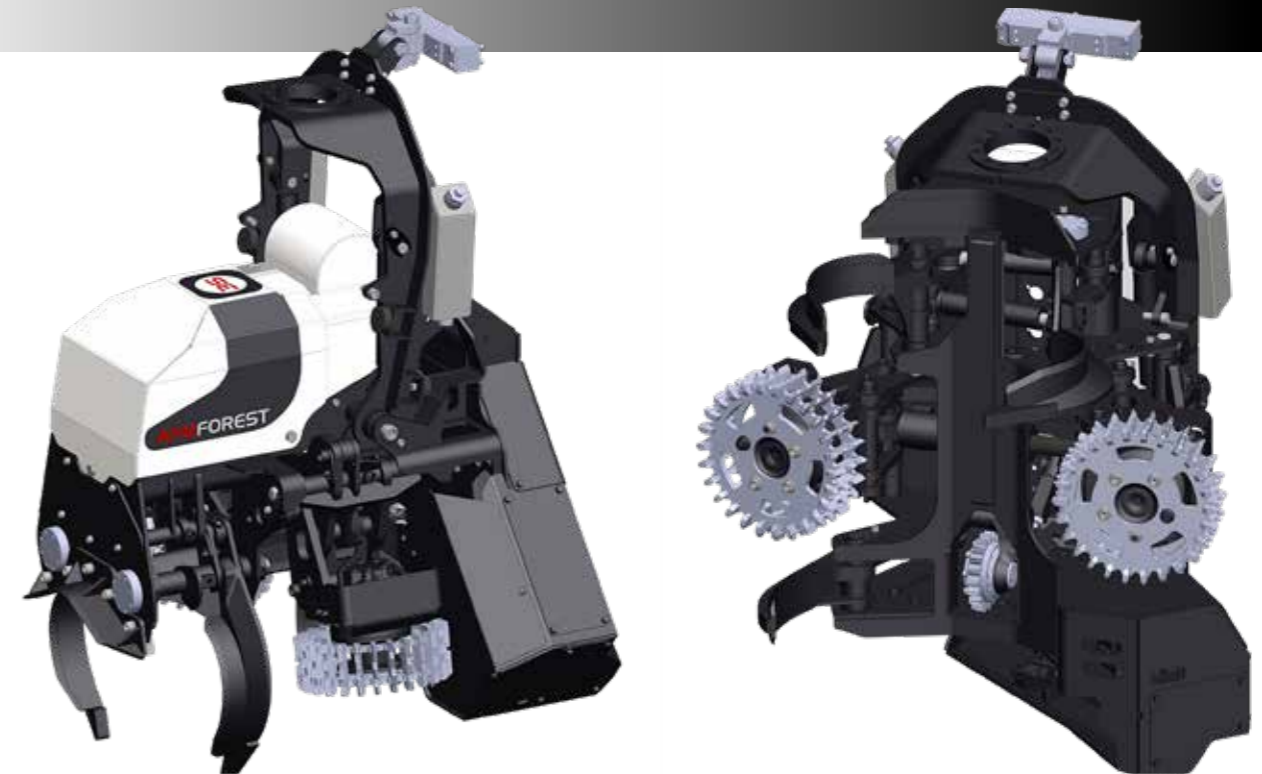
- Thinning operations
- Small clearcut operations

SUITABLE BASE MACHINES:

- Light harvesters
- Small excavators
- Combi forwarders
- Combi skidders

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TECHNICAL INFORMATION



AFM 35

HARVESTING HEAD	METRIC	IMPERIAL
Opening of front knives, max.	480 mm	19"
Opening of rollers, max.	470 mm	18,5"
Opening of back knives, max.	580 mm	22,8"
Width, max.	1210 mm	47,6"
Length, max.	1165 mm	45,9"
Felling diameter, max.	500 mm	19,7"
Delimiting knives	5 pcs	
Feeding unit	2 motors - 2 rollers	
Feeding speed	0-5,5 m/s	0-16 ft/s
Feeding power	18 kN	4 lbf
Needed engine power, min.	60 kW	80 hp
Needed hydraulic flow, min.	120-200 l/min	32-53 Gl/min

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AFM 45



 KG				
965 KG 2127 LBS	Ø 5-35 CM 2-14"	67-75 CM 26-29"	12-14 T	8-18 T

OPERATIONS:

- Thinning operations
- Clearcut operations

SUITABLE BASE MACHINES:

- Medium sized wheeled harvesters
- Medium sized tracked harvesters
- Excavators under 14 tons

TECHNICAL INFORMATION



AFM 45

HARVESTING HEAD	METRIC	IMPERIAL
Opening of front knives, max.	495 mm	19.5 "
Opening of rollers, max.	550 mm	21.7 "
Opening of back knives, max.	610 mm	24.0 "
Width, max.	1360 mm	53.5 "
Length, max.	1410 mm	56.0 "
Felling diameter, max.	650 mm	26.0 "
Delimiting knives	4 pcs	
Feeding unit	4 motors - 3 rollers	
Feeding speed	0-5,5 m/s	0-18 ft/s
Feeding power	18-22 kN	4-5 lbf
Needed engine power, min.	60 kW	80 hp
Needed hydraulic flow, min.	200 l/min	53 Gl/min

AFM 55



1260 KG
2778 LBS



Ø 20-45 CM
8-17"



75-82 CM
29-32"



12-18 T

OPERATIONS:

- Later thinning operations
- Clearcutting operations

SUITABLE BASE MACHINES:

- Medium sized wheeled harvesters

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TECHNICAL INFORMATION



AFM 55

HARVESTING HEAD	METRIC	IMPERIAL
Opening of front knives, max.	670 mm	26.4"
Opening of rollers, max.	720 mm	28.3"
Opening of back knives, max.	790 mm	31.0"
Width, max.	1330 mm	52.4"
Length, max.	1380 mm	54.3"
Felling diameter, max.	750 mm	29.5"
Delimiting knives	6 pcs	
Feeding unit	4 motors - 3 rollers	
Feeding speed	0-5,5 m/s	0-18 ft/s
Feeding power	26 kN	5.8 lbf
Needed engine power, min.	80 kW	107 hp
Needed hydraulic flow, min.	250 l/min	66 Gl/min

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AFM 60



 KG				
1500 KG 3306 LBS	Ø 15-35 CM 6-14"	67-82 CM 26-32"	16-25 T	16-25 T

OPERATIONS:

- Eucalyptus-debarking
- Clearcutting operations
- Roadside processing

SUITABLE BASE MACHINES:

- Excavators up to 25 tons
- Wheeled harvesters
- Track based harvesters

TECHNICAL INFORMATION



AFM 60

HARVESTING HEAD	METRIC	IMPERIAL
Opening of front knives, max.	650 mm	25.6"
Opening of rollers, max.	660 mm	26.0"
Opening of back knives, max.	700 mm	27.6"
Width, max.	1330 mm	52.4"
Length, max.	1380 mm	54.3"
Felling diameter, max.	750 mm	29.5"
Delimiting knives	3-4 pcs	
Feeding unit	4 motors - 3 rollers	
Feeding speed	0-6 m/s	0-19.7 ft/s
Feeding power	25 kN	5.6 lbf
Needed engine power, min.	80 kW	107 hp
Needed hydraulic flow, min.	250 l/min	66 Gl/min

AFM 65



 KG				
1960 KG 4321 LBS	Ø 30-50 CM 12-18"	75-90 CM 29-35"	20-25 T	20-25 T

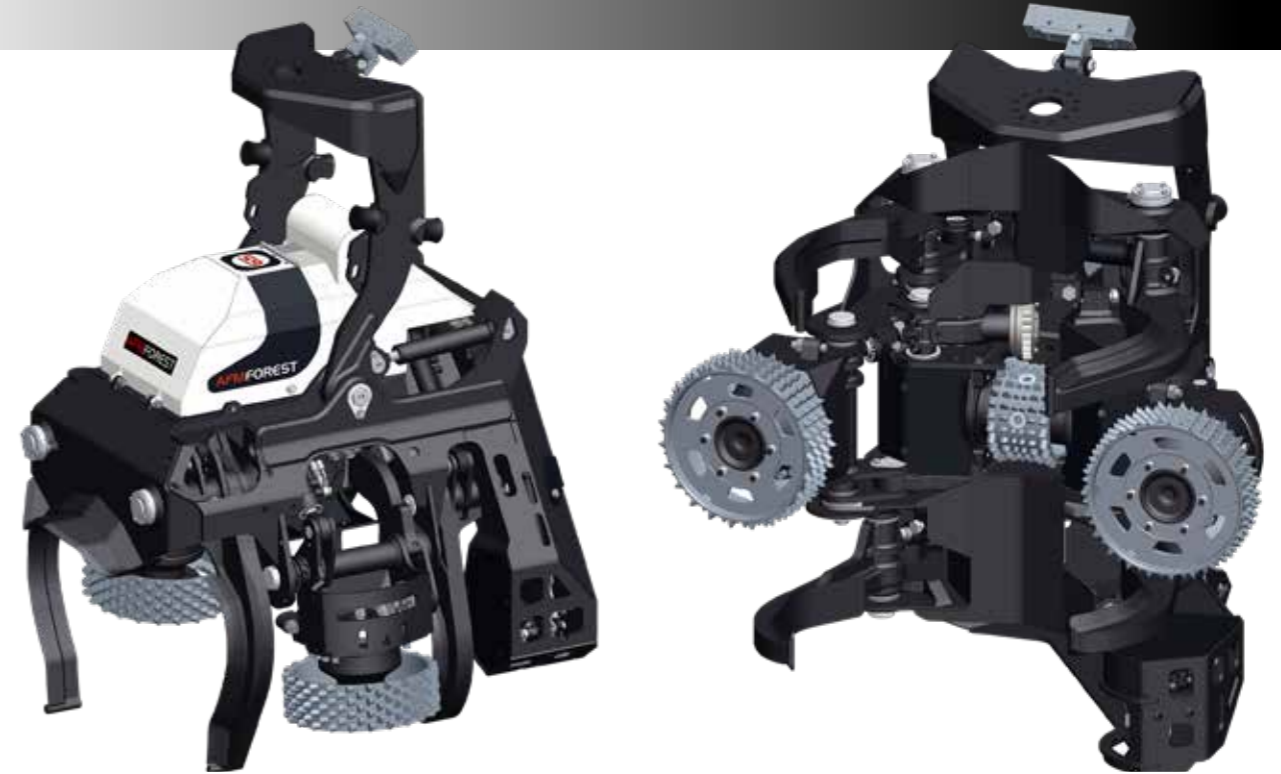
OPERATIONS:

- Clearcutting operations
- Later thinning operations
- Processing operations
- Eucalyptus-debarking

SUITABLE BASE MACHINES:

- Big wheel based harvesters
- Track based harvesters
- Excavators up to 25 tons

TECHNICAL INFORMATION



AFM 65

HARVESTING HEAD	METRIC	IMPERIAL
Opening of front knives, max.	750 mm	29,6 "
Opening of rollers, max.	775 mm	30,5 "
Opening of back knives, max.	850 mm	33,5 "
Width, max.	1785 mm	70,3 "
Length, max.	1544 mm	60,8"
Felling diameter, max.	860 mm	34 "
Delimiting knives	2-4 pcs	
Feeding unit	4 motors - 3 rollers	
Feeding speed	0-5,5 m/s	0-18 ft/s
Feeding power	35 kN	7,9 lbf
Needed engine power, min.	90 kW	120 hp
Needed hydraulic flow, min.	300 l/min	79 Gl/min

AFM 75 TS



2900 KG
6400 LBS



Ø 40-60 CM
16-24"



100 CM
40"



25-35 T

OPERATIONS:

- Clearcutting operations
- Processing operations
- Eucalyptus-debarking

SUITABLE BASE MACHINES:

- Excavators
- Tracked forest machines

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TECHNICAL INFORMATION



AFM 75 TS

HARVESTING HEAD	METRIC	IMPERIAL
Opening of front knives, max.	710 mm	30 "
Opening of rollers, max.	775 mm	30,5 "
Opening of back knives, max.	850 mm	33,5 "
Width, max.	1775 mm	70 "
Length, max.	1950 mm	76,7 "
Felling diameter, max.	860 mm	34 "
Delimiting knives	2-5 pcs	
Feeding unit	4 motors - 4 rollers	
Feeding speed	0-5,5 m/s	0-18 ft/s
Feeding power	35 kN	7,9 lbf
Needed engine power, min.	90 kW	120 hp
Needed hydraulic flow, min.	300 l/min	79 Gl/min

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AFM 85 MAGNUM TS



3200 KG
7055 LBS



Ø 40-70 CM
16-28"



112 CM
44"



30-40 T

OPERATIONS:

- Processing operations
- Clearcut operations

SUITABLE BASE MACHINES:

- Excavators
- Tracked forest machines

AFMFOREST

TECHNICAL INFORMATION



AFM 85 MAGNUM TS

HARVESTING HEAD	METRIC	IMPERIAL
Opening of front knives, max.	1180 mm	46,5 "
Opening of rollers, max.	1030 mm	41 "
Opening of back knives, max.	1350 mm	53 "
Width, max.	2060 mm	81 "
Length, max.	2305 mm	91 "
Felling diameter, max.	1000 mm	39,4 "
Delimiting knives	3-5 pcs	
Feeding unit	4 motors - 3 rollers	
Feeding speed	0-5 m/s	0-16 ft/s
Feeding power	50 kN	11,2 lbf
Needed engine power, min.	110 kW	147 hp
Needed hydraulic flow, min.	450 l/min	119 Gl/min

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AFM 550 FH



395 KG
870 LBS



Ø 5-40 CM
2-16"



67-75 CM
26-30"



8-14 T



8-15 T

OPERATIONS:

- Tree removal operations
- Energy wood collecting

SUITABLE BASE MACHINES:

- Mobile cranes
- Trucks with crane
- Forwarders
- Small harvesters
- Combi forwarders
- Excavators

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TECHNICAL INFORMATION



AFM 550 FH

FELLING HEAD	METRIC	IMPERIAL
Cutting diameter, max.	550-630 mm	2-25 "
Cutting diameter, min.	50 mm	2 "
Grapple opening	1005 mm	40 "
Saw bar, max	670 / 750 mm	26 / 30"
Chain	.404"	
Chain tensioning	Hydraulic	
Control system	Radio control	
Needed engine power min.	50-80 kW	
Needed engine power, min.	50-100 l/min / 3-26 gal for 10cc saw motor 100-180 l/min / 36-47gal for 20cc saw motor	

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AFM 650 FH



**FROM 1100 KG
FROM 2425 LBS**



**Ø 5-50 CM
2- 20"**



**90 CM
36"**



14-25T

OPERATIONS:

- Tree removal operations
- Controlled tree felling

SUITABLE BASE MACHINES:

- Excavators
- Telehandlers

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TECHNICAL INFORMATION



AFM 650 FH

FELLING HEAD	METRIC	IMPERIAL
Cutting diameter, max.	700 mm	28 "
Cutting diameter, min.	50 mm	2 "
Grapple opening	1210 mm	48 "
Saw bar, max	900 mm	35 "
Chain	.404"	
Chain tensioning	Hydraulic	
Control system	Radio control	
Needed engine power min.	50-80 kW	
Needed engine power, min.	50-100 l/min / 3-26 gal for 10cc saw motor 100-180 l/min / 36-47gal for 20cc saw motor	

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AFM 750 FH



 KG				
1400 KG 3086 LBS	Ø 40-60 CM 16-24"	90 CM 35"	20-30 T	20-30 T

OPERATIONS:

- Tree removal operations
- Storm area clearing operations

SUITABLE BASE MACHINES:

- Excavators
- Log loaders
- Tracked forest machines

TECHNICAL INFORMATION



AFM 750 FH

FELLING HEAD	METRIC	IMPERIAL
Width, max.	1400 mm	55"
Length, max.	980 mm	38,6"
Felling diameter, max.	900 mm	35,4"
Saw bar, max	670 / 750 mm	26 / 30"
Grapple opening	980 mm	38,6"
Grip area	0,42 m2	4,52 ft2
Saw bar, max	90cm	36"
Chain	.404"	
Chain tensioning	Hydraulic	
Control system	Radio	
Engine power,min	80 kW	107 hp
Hydraulic flow, min.	220 l/min	58 Gl/min

AFM 1000 SC



 KG		
200 KG 440LBS	90-100 CM 36-40"	15-25 T

OPERATIONS:

- Sorting
- Loading
- Storm area clearing
- Chipper feeding
- Tree removal
- Shortening
- Bundle cutting
- Fits to various grapple models
- Dangle or rigid mounting

SUITABLE BASE MACHINES:

- Log loaders
- Material handlers
- Excavators
- Telehandlers
- Mobile cranes
- Forwarders

TECHNICAL INFORMATION



AFM 1000 SC

SAW CASSETTE	METRIC	IMPERIAL
Saw motor	30, 40 or 60 cm3	30, 40 or 60 cm3
Saw chain	3/4"	3/4"
Saw bar max	1000 mm	40"
Weight	200-300 kg	440-660 lbs
Chain tensioning	Manual/Hydraulic	Manual//Hydraulic
Chain lubrication	Oil	Oil
Needed Oil flow	150-300 l/min	40-80 US gpm
Recommended grapple tip to tip area	0,3 m2 and up	3.20 ft ² and up
Bar feed	Hydraulic with load sense	
Bar return	Hydraulic	



AFM IS CLOSELY WORKING WITH MEASURING SYSTEM MANUFACTURERS TO BE ABLE TO PROVIDE BEST POSSIBLE TOOL FOR OUR CUSTOMERS

Measuring systems AFM offers are tailored for AFM heads to guarantee that all functions are working as designed without compromises. There is also cases where changing measuring system is not wanted because old system fullfills all the requirements or customer just wants to stay in old system. In these cases AFM harvester heads can be equipped to be able to run with other brand measuring systems.



AFM DASA PRODUCTS ARE WIDELY KNOWN FOR THE MODERN AND USER FRIENDLY USER INTERFACE WHICH MAKES THE SYSTEM EASY TO DEAL WITH

In addition to easy use of the system AFM Dasa products always have remote connection which allows technical support or machine owner remotely access to system settings, reporting, diagnostics or even remotely update the system.

AFM Dasa product range is highly modular which makes possible to upgrade measuring system to higher level without need to change all components if the requirements changes. AFM Dasa is available in three versions H50, H60 and H70 which all share the same user friendliness. H50 comes with 7" touch screen and H60 and H70 does have future proof 12,1" touch screen with integrated Windows PC which can run also map and other software used for production reporting.

LOGGER



FROM LOGGER PRODUCT RANGE YOU FIND PERFECT SOLUTION WHETHER YOU ARE BUYING A NEW HARVESTER HEAD OR UPGRADING AN OLDER HARVESTER TO MEET THE LATEST REQUIREMENTS

With AFM iLogger measuring systems you harvest efficiently and precisely. With AFM iLogger you maintain harvesting at the maximum speed for the best possible productivity. AFM iLogger can automatically select the optimal log lengths based on priority. AFM iLogger is suitable for all the market areas and it supports StanForD 2010.

When you require more AFM xLogger with bigger 12" touch screen is your solution. In addition to AFM iLogger functionalities AFM xLogger supports full value bucking

AFM LOGGER SYSTEM HARDWARE CONSISTS OF:

- Display (7" or 12")
- Interface module for connecting buttons, pumps, etc.
- Harvester head control unit

OTHER MEASURING SYSTEMS



AFM HARVESTER HEADS CAN BE EQUIPPED FOR OTHER MEASURING SYSTEMS AS WELL

If there is already working measuring system in base machine it is usually not needed to change complete system, in most cases changing suitable sensors to harvester head is enough.



**FINNISH HIGH-QUALITY
HARVESTER HEADS**

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