

SIDE ARMS FOR MOWING AND HEDGE CUTTING

**Professional** range from 5.50 to 7.30 metres

**Magistra** M55-M60  
**Maxibra** 68T-73T

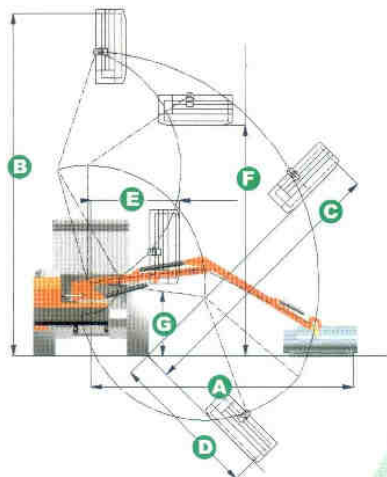


*Power at long reach...*

 **NOREMAT**

# Work with state-of-the-art equipment

## Scope of motion



Kinematik	Magistra		Maxibra	
	M 55	M 60	68 T	73 T
A Max. horizontal reach*	5,50* m	6,00* m	6,80 m*	7,30 m*
B Max. vertical reach	6,30 m	6,85 m	7,70 m	8,20 m
C Lower embankment reach	5,30 m	5,85 m	6,70 m	7,20 m
D Upper embankment reach	3,00 m	3,50 m	4,50 m	4,90 m
E Min. lateral reach	1,75 m	1,75 m	1,75 m	1,75 m
F Max. height on hedge, rotor horizontal	4,75 m	5,10 m	5,60 m	5,95 m
G Passage under 1 <sup>st</sup> arm	1,40 m	1,45 m	1,45 m	1,50 m
Transport height**	3,65 m	3,85 m	3,60 m	3,80 m
Slew angle	90°	90°	90°	90°
Head rotation angle	230°	230°	230°	230°
Overall width in transport position	2,45 m	2,45 m	1,80 m	1,80 m
Weight in running order	1795 kg	1840 kg	2105 kg*	2150 kg*

\* measured from the tractor axis

\*\* may vary according to tractor type

\* including counterweight of 210kg

## Safe and stable travel

The offset pivot and arm cranked to the front principle increases tractor stability and provides the driver with a better view of the mowing/head.



The offset pivot also enables work on narrow paths without the use of additional elements.



### Anti-tipping system.

As soon as the arm arrives in the vertical position, the system automatically transforms the on 1<sup>st</sup> arm two single-acting cylinders into double-acting cylinders. The arm position is therefore totally controlled at all times.



## Ergonomics and comfort

### Sliding armrest

The sliding armrest eliminates friction of the lower arm on the rest and reduces flexion and torsion of the wrist by 30 %. Single-lever LP mixed controls (electrical, hydraulic)



Single-lever LP mixed (elec. + hydr.) controls

### Type of controls

- multi-lever LP hydraulic assisted
- single-lever LP mixed (elec. + hydr.)
- single-lever electrical proportional

3<sup>rd</sup> proportional movement (mowing hd)  
Electronic support

	Magistra	Maxibra
M 50 and M 60	68 T and 73 T	
standard	standard	
optional	optional	
optional	optional	
option, if electrical control	option, if electrical control	
option, if electrical control	option, if electrical control	



Multi-lever LP hydraulic assisted controls

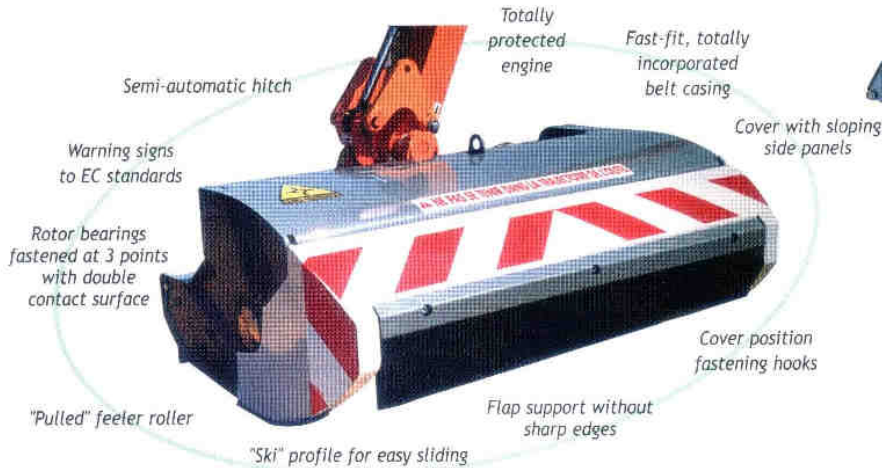


Single-lever electrical proportional controls

# The correct tool for each task

## Unibroyeur 1250

The unibroyeur is a versatile head for mowing and hedge-cutting

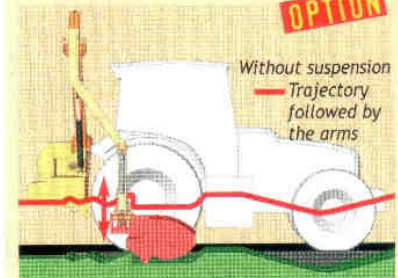
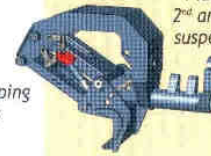


Construction	HY steel (high yield)
Cutting width	1,25 m
Overall width	1,43 m
Rotor rotation speed	2,950 rpm (+/- 50 rpm)
Double rotation direction	Yes (electrical control)
Float* position	Electrical standard feature
Hyd. motor	Axial pistons
Cubic capacity	35 cc
Drive	Synchronous belt
Cutting height	Adjustable in three positions 5, 7 and 9 cm
Bearing protection	Double chicane
Anti-projection cover	No sharp edges (improves slide)

\* enables automatic following of the terrain to be cut

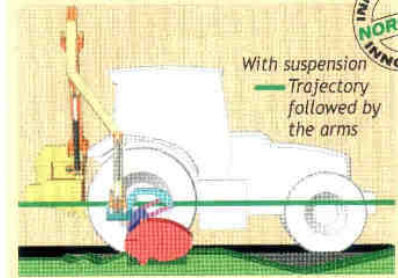
### MECHANICAL SUSPENSION

- Placed between the end of the 2<sup>nd</sup> arm and the cutting head, this suspension enables the machine to automatically adapt to ground height variations without modifying the arm position.



Without suspension  
Trajectory followed by the arms

Der Arm fängt alle mit dem Fahren verbundenen mechanischen Belastungen auf.



With suspension  
Trajectory followed by the arms

The mechanical suspension absorbs ground irregularities, all stress is removed from the arm.



### Universal flails

Serial fitted.



### FIXA SPEED system

Fast fitting mowing blades.



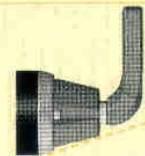
### UNIVERSAL ROTOR

Equipped with ø 14 mm screws and shackles  
Fastened to the rounded, anti-shock lugs.



### FEELER ROLLER

- The rounded profile of the support favours sliding along the bottom of the ditch.  
- Removable end-cap with double-roller bearings.



### FOREST SHREDDER

Special high-duty bush-cutter.



Rolmax

- Cutting width 1.25 m.
- Tubular frame.
- New generation Rolmax rotor.
- Flails fitted in spiral layout

### 14 A ND 16 MAX

Special extra-wide mowing



- Cutting width 1.40 m or 1.60 m.
- Reinforced rotor bearings.

### SAW-BLADE UNIT



- 2 to 5 blades
- Blade thickness 4 mm and ø 700 mm.
- Ecological cut.
- Kevlar belt.

- Cutting disk used for light cutting tasks (ø up to 30 mm).

OPTION



### CUTTER-BAR



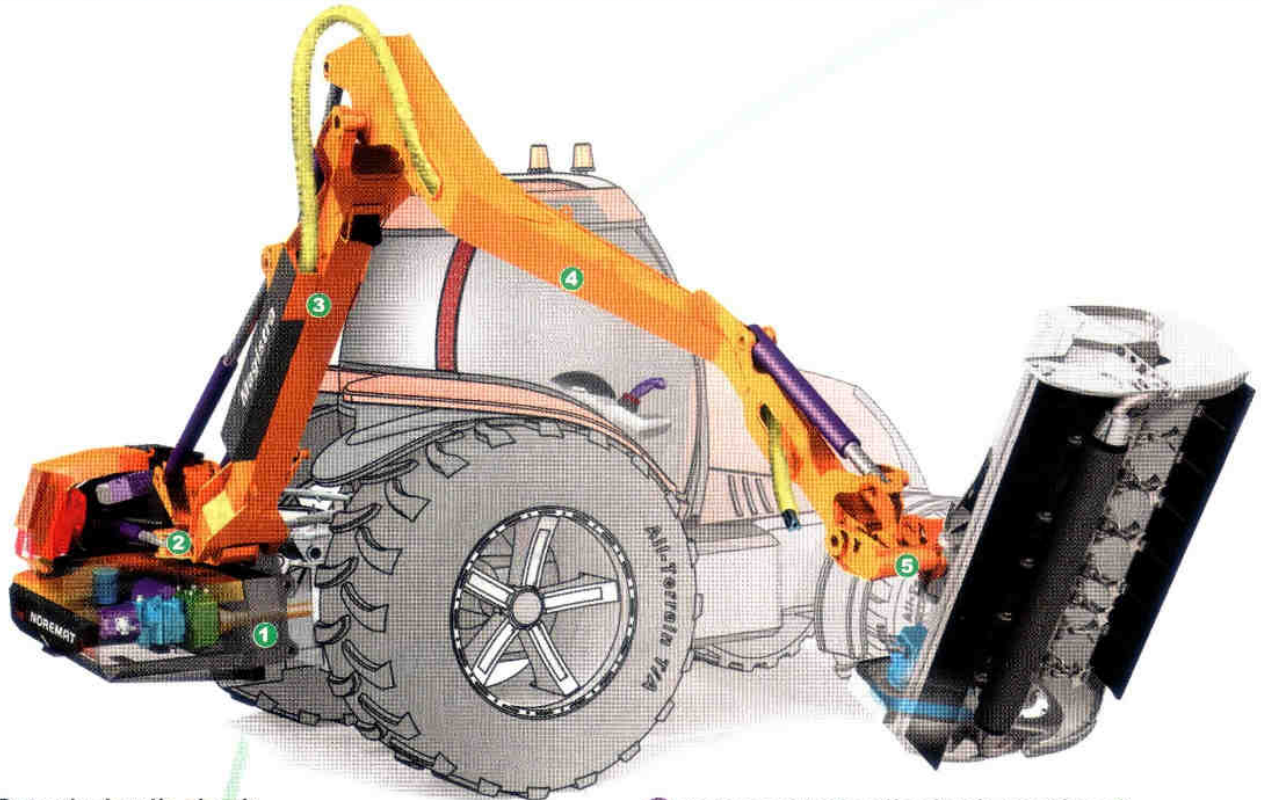
- Width 1.30 m or 2.20 m
- Max. branch ø 100 mm
- no maintenance, no sharpening required.

### DITCH CLEANER

- Rotor- ø 670 mm
- Rotation speed 410/625 rpm.



# With your needs in mind



## ● Rotor hydraulic circuit

PTO	540 rpm	1 000 rpm
Gear ratio	1 : 4	1 : 2,5
<b>Hydraulic pump</b>		
Type	piston	
Cubic capacity	46 cc	
Flow-rate	100 l/min.	115 l/mn.
Maximum pressure	325 bar	
Power	73 HP	84 HP
Controls	Electric	
Fastening	Pump flanged to gearbox	
<b>Hydraulic motor</b>		
Type	piston	
Cubic capacity	35 cc	
Transfer valve incorporated	Yes	

## ● Movement hydraulic circuit

PTO	540 rpm	1 000 rpm
Gear ratio	1 : 4	1 : 2,5
<b>Hydraulic pump</b>		
Type	geared	
Cubic capacity	22 cc	
Flow-rate	47,5 l	55 l
Maximum pressure	220 bar	
Fastening	Pump flanged to gerotor	
Hydraulic cylinders	double-acting	
Max. operating pressure	250 bar	
Special equipment	Beam and arm anti-drop system	

## ● Movement hydraulic circuit (continued)

<b>Electrical and mixed controls</b>	
Distributor	electrical proportional controls
Controls	single-lever electrical and ergonomic
<b>LP controls</b>	
Distributor	hydraulic proportional controls
Controls	multi-lever
<b>Oil-pneumatic* suspension</b>	
Accumulator on beam cylinders	0.7 litre - 250 bar
<b>Accumulator controls</b>	
Machines with electrical and mixed controls	electrical
Machine with mechanical and LP controls	manual

\*beam cylinder

## Filtering and cooling

<b>Tank</b>	
Capacity	80 litres
Pressurisation	0.35 bar
<b>Oil</b>	
Type	80 W 90-HV 46
<b>Return and suction filters</b>	
Filter type	Spin on
Filtration	10 microns nominal
<b>Cooling</b>	
Radiator	aluminium
Fan	electric - Ø 305 mm
Heat exchange capacity	11 kW

## Technology generally used in roadwork machinery



Durch den doppelt wirkenden Zylinders des Auslegers, erfolgen die mechanischen Belastungen perfekt in der Achse des Rahmens.

## Optional extras recommended for heavy-duty work

- Automatic arm return.
- Electrical hour counter.
- Oil temperature and level indicator kit.
- Cutting tool mechanical suspension.
- Lights protection kit.
- Electronic support\*.
- Proportional 3rd point movement (orientation of the cutting tool)

\* for electrical controls

### 1 FRAME

Material	HY steel*
Composition and materials used	tube 160 x 160 th. 8 mm tube 60 x 60 th. 6 mm sheet metal th. 15 mm

### 2 MACHINE SWIVEL

Material	HY steel*
Composition and materials used	sheet metal th. 10 and 20 mm

### 3 BEAM

Matière	HY steel*
Composition et matériaux utilisés	rectang. tube. 180x180 th. 8 & 10 mm

### 4 RIGHT AND M-TYPE COMPENSATING ARM

Material	HY steel*
Composition and materials used	sheet metal th. 6, 8 and 10 mm

### 4 T-TYPE COMPENSATING ARM (not visible on drawing)

Telescopic support	
Material	HY steel*
Composition and materials used	square tube. 150x150 th. 6 mm sheet metal th. 8 mm

#### Telescopic

Material	HY steel*
Composition and materials used	square tube. 120x120 th. 6.3 mm sheet metal th. 10 mm

### 5 HEAD ANGLE BRACKET

Material	acier HLE *
Composition and materials used	tube Ø 90 th. 10 mm sheet metal th. 8 and 12 mm round Ø 50 mm
Hitching element	

## Use of the best industrial components

### HIGH-PERFORMANCE STEELS

The entire machine is made of HY steel (high yield) offering the following advantages :

- lighter frame,
- increased mechanical capacity,
- increased impact safety factor.

### TOP-OF-THE-RANGE HYDRAULIC COMPONENTS

Noremat only uses leading brand-name products in its hydraulic circuits : Sauer, Danfoss, Rexroth...

### LONG-LIFE TREATMENT OF CONNECTING ROD ASSEMBLY

To increase the harness and working life of the ring rod assembly, the shafts are tempered as well as case and core hardened.

### SPECIFIC RINGS (TYPE TP)

The rings used are thermo-chemically treated to guarantee exceptional wear and gripping resistance. The friction surface of these rings is perforated to create a larger grease reserve while still guaranteeing optimum contact.

\* High yield

# The factory-direct services

## Noremat service pack: Your peace-of-mind contract

- On-site delivery of your equipment and fitting to your tractor
- Commissioning and operating tips by your Noremat service technician
- 50-hour technical inspection on site
- Guarantee extension for hydraulic components



## Spare parts service

Noremat, your spare parts specialist

- 6 dealerships for optimum service
- 11 travelling shop vehicle
- Sales consultants who come to you
- A specialist hotline at your service
- Spare parts delivered within 24H
- Parts on stock
- Customer service open on Saturday mornings during the season

## After-sales service

12 after-sales service technicians specialised in mowing/bush-cutting equipment

- Commissioning, hand-over and testing of equipment
- Servicing and maintenance
- Fitting and adaptation of equipment
- Technical diagnostics
- Safety checks
- On-site repair
- Consulting service



Specially equipped rapid intervention vehicles.

## Repair workshops

- Inspection of hydraulic circuits
- Repair
- Balancing of rotors up to 5 m long and 1.2 tons



## Training

Training of machine operators and mechanics

- To valorise and enhance your profession, Noremat proposes specialised machine operator and mechanic training courses.

## Financing

Noremat will help you define the financial conditions best adapted to your situation.

## Safety accessories kit



Tractor width indication kit



Temporary indicators and warning signs



Fold-away illuminated warning triangle



Specially-designed working cloths: body warmer, parka, polo, ...

**NOREMAT**  
Safe roads. environment preserved.  
The Passion of Specialists

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