



SIDE ARM FOR VERGE MOWING AND HEDGE CUTTING

Professional range from 4.90 to 5.40 metres

Dextra M49 - M54 **Visiobra** M54T



Dexterity in action!

Dextra M49 - M54: Offset pivot and forward cranked arm

Dextra Visiobra M54T: Offset pivot and forward cranked arm with telescopic

 **NOREMAT**



Lateral reach

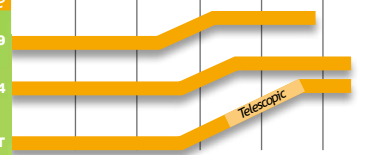
1 m 2 m 3 m 4 m 5 m 6 m

Professional range

Dextra M49

Dextra M54

Dextra Visiobra M54T



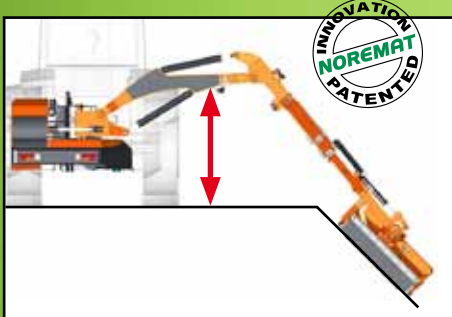
High quality standards

➤ Visiobra concept



Dextra M54T benefits from the Visiobra concept : (Offset pivot to the left and forward cranked arm with telescopic) for a complete clearview on the moving head and an improved comfort for the operator.

➤ Curved first-arm



The curved first-arm which allows exceptional clearance under the arm, (very welcomed when cutting the far-side of ditches or over fences).

➤ Safety between sites



In its transport position, *Dextra* remains inside the width of the tractor. A semi automatic latching system controlled from the driver's cab locks the machine mechanically.



***Dextra* Visiobra M54T**

Dextra M49 - M54 **Visiobra M54T**

Designed for an annual use between 300 and 500 hours the **Dextra** flail-mower range perfectly fulfills the requirements of local authorities, communities and green-space maintenance contractors.

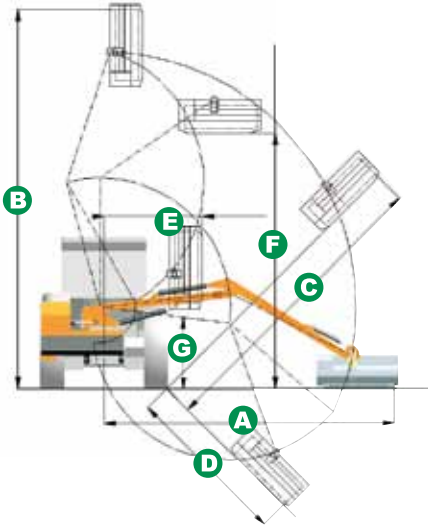
Numerous NOREMAT innovations assure a very long working life and unequalled operator comfort, notably :
the curved first-arm, the reversing shock-absorber, the dual-pressure break-back,
the three-point linkage shock-absorber.



*Easily adaptable and removable from the 3 points hitch of the tractor,
Dextra concentrates latest innovations for more efficiency, comfort and profitability.*

Handle any type of work!

Reach kinematics



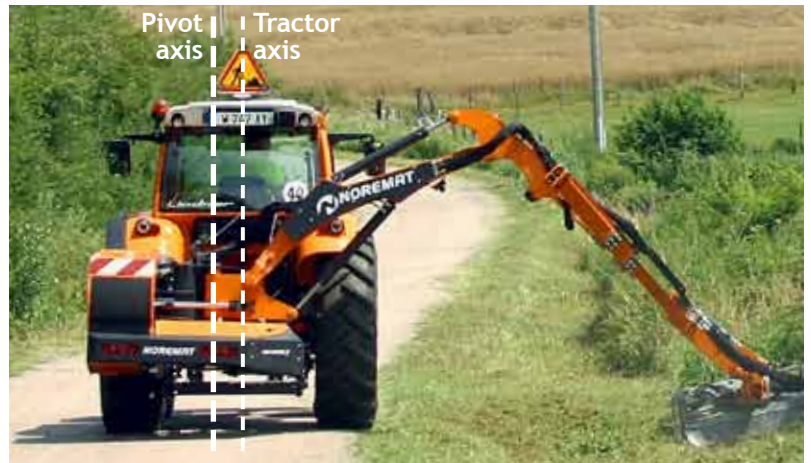
	M49	M54	Visiobra M54T	
			Telescopic in	Telescopic out
<i>with a 1.25 m wide mowing head</i>				
A Max. horizontal reach*	4.90m	5.40m	4.90m	5.40m
B Max. vertical reach**	6.15m	6.65m	6.15m	6.65m
C Upper embankment 45°	4.95m	5.45m	4.95m	5.45m
D Lower embankment 45°	3.00m	3.50m	3.00m	3.55m
E Mini lateral reach*	1.75m	1,75m	1.75m	
F Max. over hedge reach	4.12m	4.46m	4.10m	4.35m
G Under-first arm clearance	1.45m	1.49m	1.44m	1.52m
Slew angle	100°	100°	100°	
Telescopic section length	-	-	0.54m	
Head orientation angle	230°	230°	230°	
Overall transport height***	3.63m	3.91m	3.65m	
Operating weight	1450kg	1480kg	1605kg	

* measured from the tractor centre line
 ** 50 cm ground clearance
 *** may vary according to type of tractor

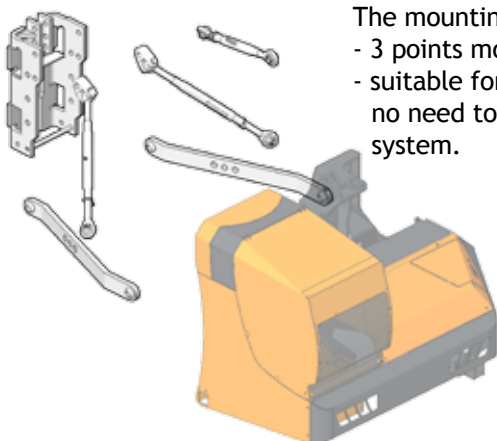
Stability and safety kinematics

The offset pivot and forward cranked arm 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.



Mounting frame



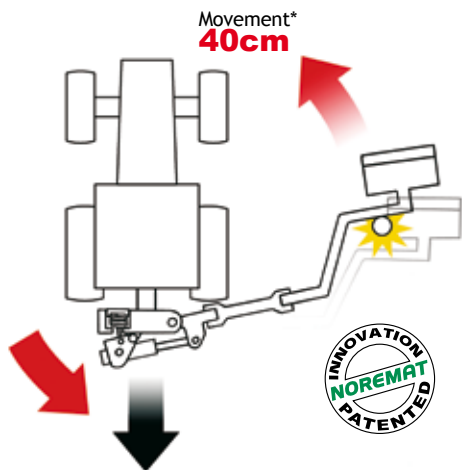
The mounting frame:
 - 3 points mounting frame
 - suitable for all types of tractors, no need to dismount the hitching system.



3 devices to protect the structure of the machine

1 The reversing shock-absorber

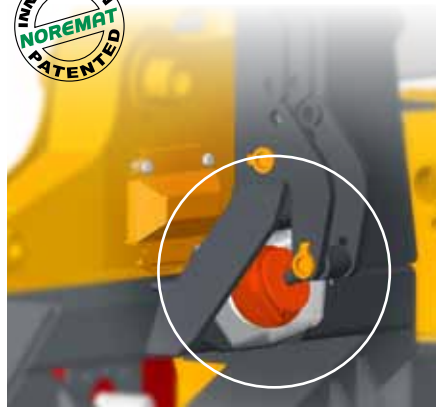
Integral with the machine pivot, it prevents shock loading of the arm during a reversing manoeuvre.



*Arm working at lateral reach of 5.40m

2 Three-point linkage shock-absorber (option)

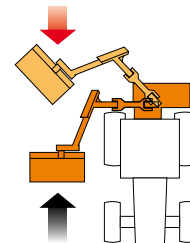
Situated between the chassis and upper link, it reduces shock loadings on the tractor when travelling between worksites.



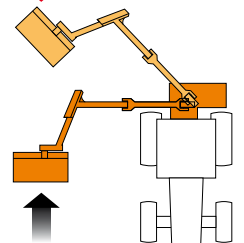
3 Dual pressure retraction

Mechanically designed, this device is able to handle with two different pressures in the machine slew cylinder in order to maintain the arm in its working position. The resistance force on the head is the same regardless of the arm position.

Low pressure for a retracted arm



Higher pressure for an extended arm



TECHNICAL

➤ Accessibility



A vertically opening, hinged, bonnet gives easy access to the radiator and the hydraulic valve block. Other hydraulic components are protected by a separate, removable cover.

➤ Safety



The hydraulic hoses are easily accessible and are enclosed within the first and second arm for protection and to improve the appearance.

➤ Electric digital proportional controls

- Hour counter (daily and totalizer)
- Oil temperature indicator
- Events log
- Emergency stop button, full stop of the rotor in less than 5 sec.





SIDE ARM FOR VERGE MOWING AND HEDGE CUTTING

The right tool for every job...

Semi-automatic tools coupling

Unibroyeur 2

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

Rotor bearings fastened at 3 points with double contact surface

Totally protected motor

Fast-fit, totally incorporated belt casing

Front hood with an angle for better penetration in the vegetation

Stickers according to EC rules

7 reinforced and removable flaps

Wearskids made from a 50 mm diameter bar

Front hood reinforced with tube

Construction	HY steel (high yield)
Cutting width	1.25m
Overall width	1.43m
Rotor rotation speed	2950 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 3 positions 5, 7 and 9cm
Bearing protection	double chicane
Anti-projection cover	no sharp edges (improves slide)

* enables automatic following of the terrain to be cut

↗ Universal rotor

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



↗ "Y" flails

Special extra-wide mowing.



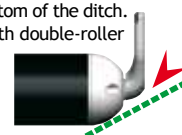
↗ Fixa-Speed system

Fast fitting mowing flails.



↗ Feeler roller

- The rounded profile of the support allows it to slide along the bottom of the ditch.
- Removable end-cap with double-roller bearings.



Adaptable tools

↗ Unibroyeur 1000

Versatile head for mowing and hedge-cutting



- Front hood with an angle for better penetration in the vegetation
- Working width 1.00m.
- Rotor bearings fastened at 3 points with double contact surface.

↗ Saw-blade unit



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



- Cutting disk used for light cutting tasks (ø up to 25mm)

↗ Branch cutter



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

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%.

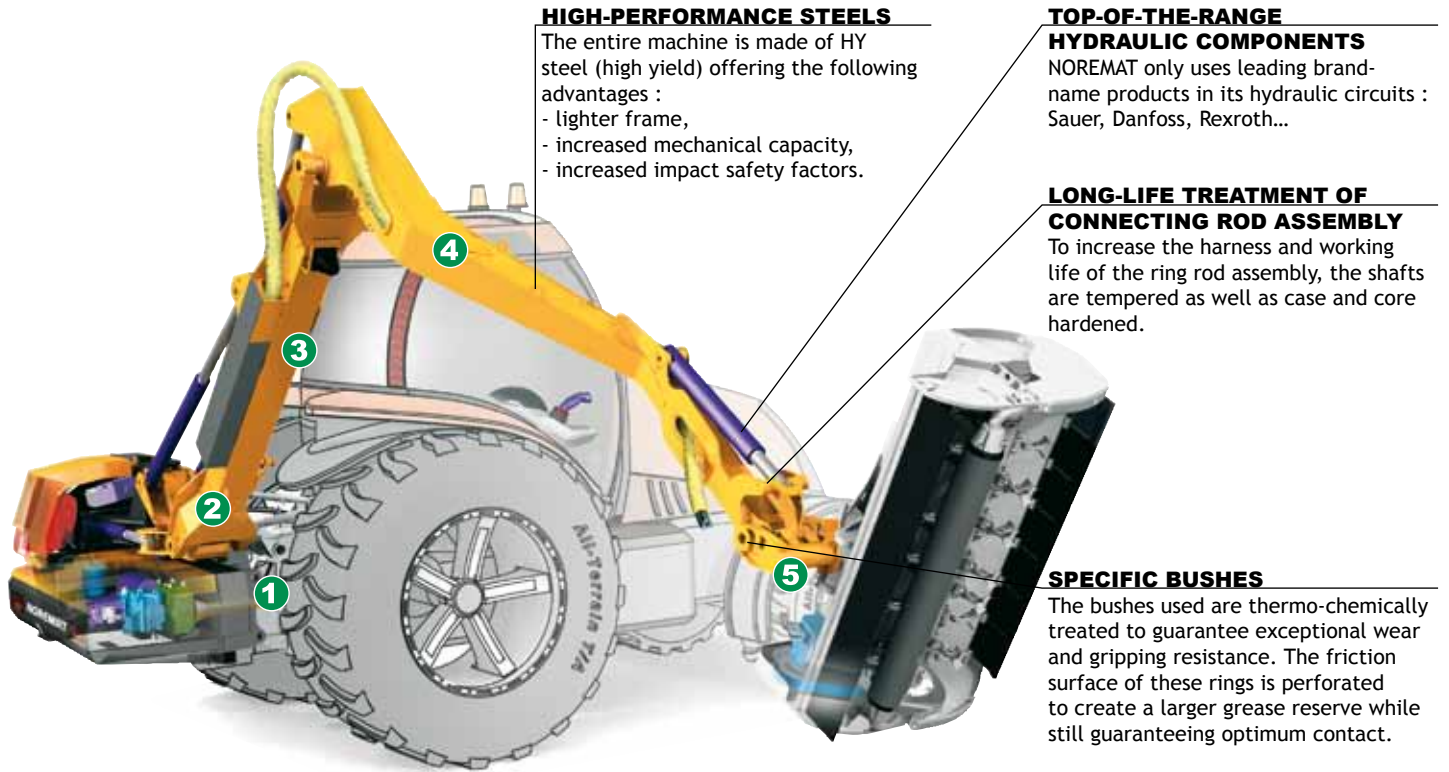


Types of controls

Electrical digital proportional with joystick	standard
3 rd proportional movement (digital)	option
4 th proportional movement (digital)	option

With your needs in mind

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 factors.

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 BUSHES

The bushes 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.

● Rotor hydraulic circuit

PTO	540rpm	1 000rpm
Gear ratio	1 : 3.58	1 : 1.93
Hydraulic pump		
Type et cylindrée	piston - 46cc	
Flow-rate	89l/mn.	
Maximum pressure	300bar	
Power	60cv	
Controls	electric	
Rotor's full stopping time	less than 5 seconds	
Fastening	pump flanged to gearbox	
Hydraulic motor		
Type	piston	
Cubic capacity	35cc	
Transfer valve incorporated	yes	
Rotor's full stopping time	less than 5 seconds	

● Movement hydraulic circuit

PTO	540rpm	1 000rpm
Gear ratio	1 : 3.58	1 : 1.93
Hydraulic pump		
Type	geared	
Cubic capacity	19cc	
Flow-rate	37l	
Pression maximum	230bar	
Fastening	pump flanged to gearbox	

● Movement hydraulic circuit (continued)

Electrical and mixed controls	dual pressure
Maximum service pressure	250bar
Safety device	parachute valve
Electric controls	
Distributor	electric with proportional controls
Controls	ergonomic joystick
Hydro-pneumatic suspension*	
Accumulator	0.7 liter - 250bar
Control of the accumulator	
Machines with electrical control	electric

● Filtering and cooling

Tank	
Capacity	70 liters
Oil	
Type	HV 46
return and suction filters	
Filter type	dipped return and suction
Filtration	10 microns absolut
Cooling	
Radiator	aluminium
Fan	electric - Ø 305mm
Heat exchange capacity	9kW

1 Frame

Material	HY steel*
Composition and materials used	tube 60x60x6mm
	tube 120x120x8mm
	sheet metal 8 and 15

2 Machine swivel

Material	HY steel*
Composition and materials used	sheet metal 8 and 12

3 Beam

Material	HY steel*
Composition and materials used	tube thick 8mm
Beam section ranging from	from 130x140 to 130x280

4 Straight and M-Type compensating arm

Material	HY steel*
Composition and materials used	reconstituted tube 6 to 10mm
Arm section ranging from	from 100x112 to 195x180
Déport avant pour balancier type M	650mm

4 2nd arm "Visiobra"

Material	HY steel*
Composition and materials used	reconstituted tube 6 to 10mm
Section de balancier évolutive	from 150x150 to 180x200
Télescopique	tube 120x120x6,3mm

5 Head angle bracket

Material	cats-iron GS foundry
Hitching element	special pin Ø 70

* High Yield

At NOREMAT, The Customer Service conviction is a force

“**NO**uvelle **RE**ntabilité du **MAT**ériel”

The very name of the company conveys its aim: to use all technical and commercial means possible to improve the profitability of roadside verge maintenance equipment for our business customers.

**New Profitability from your Equipment*

NOREMAT'S independence

NOREMAT is a family owned French company, founded in 1981 and specialising in the construction and maintenance of equipment for maintaining roadside verges and large green areas (airports, railways, navigable waterways, etc).



NOREMAT spare parts

Initially, NOREMAT's activity was concentrated around direct customer service : supply of spare parts and after sales service to businesses using flail mowers. Direct contact with users and listening to their needs led NOREMAT to start designing their own spare parts. The success of these parts bearing the logo “NR” (for Noremata Reinforced) progressively led NOREMAT to start designing its own machines as of 1988.



NOREMAT holds a large stock of more than 7000 part numbers, ready for dispatch for the following day

A range for professional users

NOREMAT designs, assembles and tests side flail arms at their Ludres factory.

11 basic models are available, all designed for professional use and using hydraulic components from respected brands.



Training by NOREMAT

At NOREMAT we provide training to operators, drivers and technicians, and allocates significant resources to fully train all our own staff to a very high standard (30 sales persons and 25 after sales technicians).



Recognition

Some prestigious prizes have rewarded NOREMAT's research and innovation work.

INPI International
Trophy for
Innovation 2002



Certificate
of approval
as a Mercedes Benz
partner
since 2001



“Lorraine Quality” prize 1997



“Lorraine Performance”
prize 1993



 **NOREMAT**

Dynapôle Ludres/Fléville
166, rue Ampère - BP 60093
54714 LUDRES Cedex

Tél. : +33 (0)3 83 25 69 60

Fax : +33 (0)3 83 26 12 85

Mail : contact@noremata.fr

www.noremata.fr