

**TMK 300-F**

with Solid Extension Beam, Collector & TMK Turbo cylinder.

**TMK**  
MACHINERY



# **TMK<sup>®</sup> TREE SHEAR MODELS**

**SIMPLE AND HIGH-QUALITY TREE SHEARS TAILORED TO YOUR NEEDS**

**TMK 300 - THE ORIGINAL ONE-ARMED GUILLOTINE SHEAR SINCE 2009**

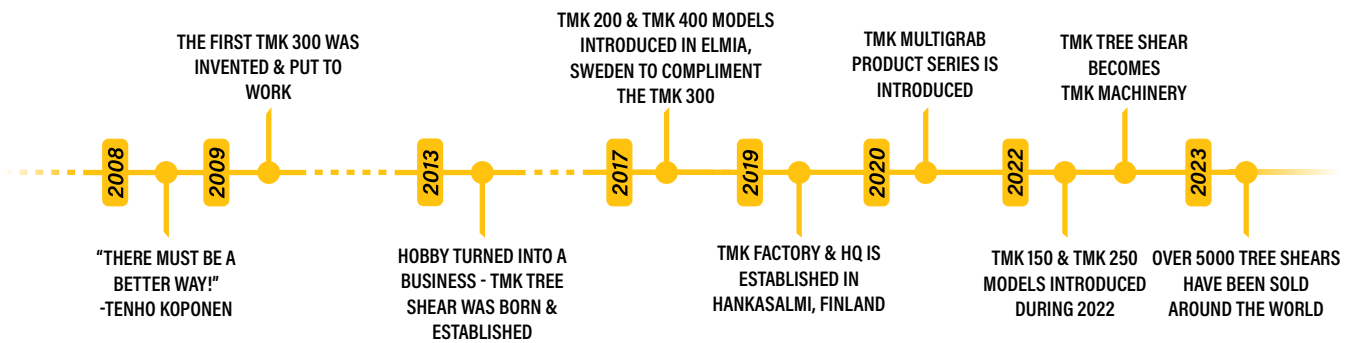




## WHY CHOOSE TMK TREE SHEAR?

It all started in 2008 from our own need when TMK's CEO Tenho wanted to provide work for his employees throughout the cold Finnish winter and maintain his forests. The shear he bought from the market had broken down again and this is when he decided it's time to make one suitable for his own needs with 3 main goals: as simple, robust and carefree as possible.

Fast forward 13 years to this day: TMK has five different tree shear models and countless attachments for them. By investing into a TMK product you ensure that you will get support and use out of your shear for years to come.



We know the requirements of effective tree clearing and safe problem tree removal, as this was the foundation of our company. Drawing on all our know-how and experience along with constant development via customer feedback, we have created the TMK range of products for both professional and occasional forestry work. Throughout our years in business we have shipped thousands of products and they're now widely used all around the world.

Hardox-steel, unique capsular structure and the user-oriented design ensure that our products withstand even the toughest conditions. The TMK Tree Shear and the numerous attachments available for it are easy to install on most machines: be it an excavator, forwarder, skid steer, timber crane / forest loader or even an agricultural tractor.







**TMK 200-F**  
 With Collector & Bigger cylinder on a Kubota KX027-4.



With the TMK Tree Shear and our innovative valve & electric packages you can use up to 4 functions with just only one double acting hydraulic circuit.



We understand that your jobs & needs may change, so all the attachments can be retrofit on the TMK Tree Shears thanks to its modular design.



All TMK products are produced and assembled from the best possible materials in our own factory in Finland. TMK is a family business with over 30 employees.



# MOUNTING OPTIONS

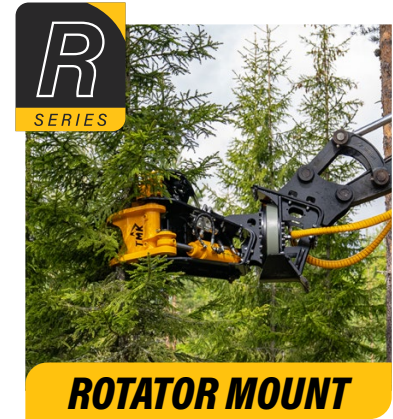
**TMK TREE SHEARS ARE DIVIDED INTO THREE DIFFERENT PRODUCT SERIES THAT SIMPLY DETERMINE HOW THE TREE SHEAR IS CONNECTED TO YOUR BASE MACHINE OR ITS ACCESSORIES: F-, H- AND R-SERIES**



- For excavators, telehandlers, skid steers
- Equipped with a bolt-on adapter plate for mounting a suitable fixed quick connector e.g. S-45, NTP-10, CW or MS-couplers - or you can build your own easily on top of it
- Widest selection of attachments on the market
- Can be retrofitted to a H- or R-series



- For tractor loaders, forwarders, timber cranes, forestry trailers
- Equipped with a Hanging Tilt that provides you 165 degree up/down tilting motion to easily cut, handle & drop the trees
- Easily replace a regular wood grapple with our innovative valve & TMK Wireless control system
- Most common rotator adapters available



- For excavators, skidsteers, wheel loaders, telehandlers
- Equipped with a rotator and heel along with an adapter plate to attach a suitable connector
- Up to 360 degree rotation
- Widest selection of attachments on the market

**F-SERIES** (Fixed) means that the TMK Tree Shear is directly attached to your base machine with a suitable adapter plate without any extra rotators or Hanging Tilt. F-series shears are suitable for excavators, mini loaders, skid steers, telehandlers, or even the front loader of a tractor to name a few. The strengths of the F-series shears are their simplicity and durability, along with the widest attachment range due to its modular design. F-series products can also be retrofitted to H- or R-series.

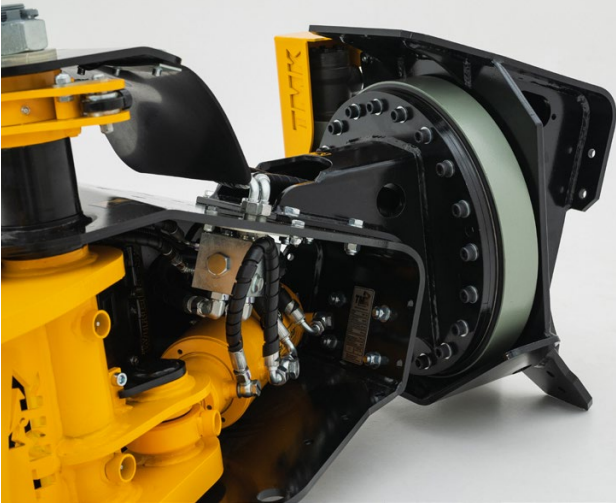
**H-SERIES** (Hanging) means that the TMK Tree Shear is directly equipped with a Hanging Tilt to enable easy installation for different types of timber cranes. H-series shears are installed under a rotator and they use the same hydraulic circuit of the normal log grapple. The Hanging Tilt enables smooth operation and access to the base of the trees even in unlevel terrain with a tilt angle of 165 degrees. The powerful cylinder in the tilt and the strong structure make sure that the handling of the cut tree, the felling and piling is controlled and efficient under the rotator. H-series shears are suitable for tractor cranes, forestry trailers, and forwarders to name a few.

**R-SERIES** (Rotator) means that the TMK Tree Shear is directly equipped with a rotator to make the operation more agile in challenging environments. Cutting down large branches or trees growing in unbalanced or steep ground becomes more efficient and easy with the help of the Rotator. The R-series shears are suitable for excavators, mini loaders, skid steers, telehandlers, or even the front loader of a tractor to name a few. The strengths of the R-series shears are its agility and efficiency and a wide range of other attachments.

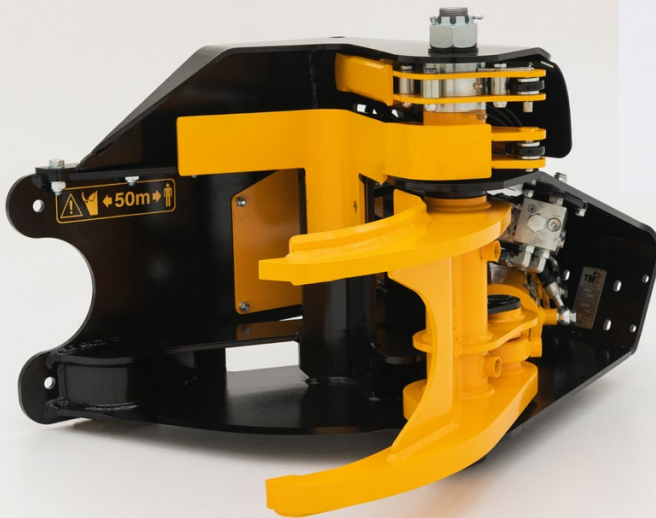
	TMK 150	TMK 200	TMK 250	TMK 300	TMK 400
<b>F</b> SERIES	✓	✓	✗	✓	✓
<b>H</b> SERIES	✓	✓	✓	✗	✗
<b>R</b> SERIES	✗	✓	✗	✓	✗*

\*Coming soon!

**ROTATOR MOUNT**



**HANGING MOUNT**



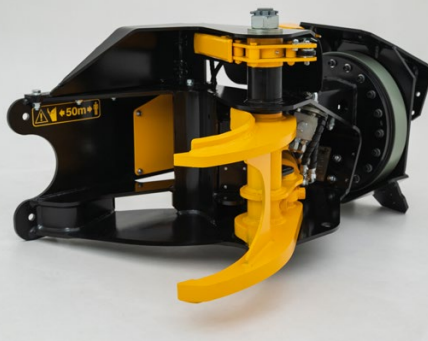
**FIXED MOUNT**

# TREE SHEAR MODELS

**TMK 150-H**



**TMK 300-R**



**TMK 250-H**








**TMK 400-F**



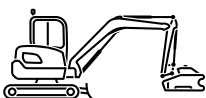
**TMK 200-F**



	TMK 150	TMK 200	TMK 250	TMK 300	TMK 400
<b>SUITABLE FOR:</b>	  	  		 	 
Excavator size	1-4 tonnes (2200-8800 lb)	2-8 tonnes (4400-18000 k lb)	○	5-20 tonnes (11000-44000 lb)	10-30 tonnes (22000-66000 lb)
Timber crane	Small cranes / tractors	Medium to large tractors	Forwarders & large tractors	○	○
Skid steer / Wheel loader	Small	Small to Medium	○	Medium to Large	Large
<b>GENERAL SPECS:</b>					
Max. opening	427 mm (16,81")	700 mm (27,5")	747 mm (29,4")	730 mm (28,7")	1070 mm (42,1")
Max. cutting soft woods	150 mm (5,91")	200 mm (7,87")	250 mm (9,84")	300 mm (11,8")	400 mm (15,75")
Max. cutting hard woods	130 mm (5,12")	180 mm (7,08")	230 mm (9,05")	250 mm (9,84")	350 mm (13,78")
Weight without attachments	85 kg (190 lb)	175 kg (385 lb)	300 kg (660 lb)*	280 kg (615 lb)	620 kg (1365 lb)
			*Hanging Tilt included		
<b>ATTACHMENTS:</b>					
BrushGrapple	○	●	●	●	●
Collector	○	●	●	●	●
Delimber	○	●	●	●	●
Solid Extension	○	●	○	●	●
Hydraulic Extension	○	●	●	●	○
Rotator	○	●	○	●	○
Fixed Tilt	○	○	○	●	●
Hanging Tilt	●	●	●	○	○
Adapter Linkage	○	●	○	●	○
Heel	●	●	○	●	●
Splitting blade	○	●	○	●	●

● Available

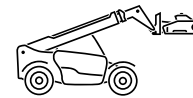
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**EXCAVATORS**



**TRACTOR CRANES  
& FOREST MACHINES**

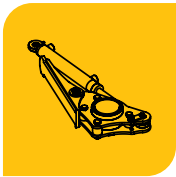


**MINI LOADERS  
& TELEHANDLERS**

# ATTACHMENTS

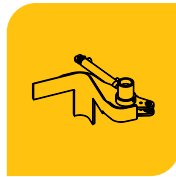
TMK provides the widest selection of attachments on the market. Over the years we've come up with plenty of different tools based on our own and customer experience: to make the tasks at your hand as easy and efficient as possible.

With the modular design of TMK Tree Shear you can retrofit any of these attachments when your needs change. We will happily assist you and go through your specific needs and suggest the most suitable combination and control methods based on them.



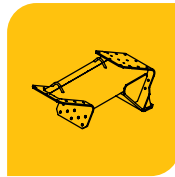
## COLLECTOR

- Our #1 attachment - Collect multiple stems at one go
- Eliminate extra movement & save time and fuel



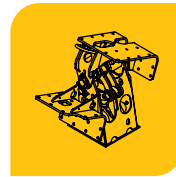
## DELIMBER

- When you need to delimit the trees and peel the bark - Delimber allows you to do so up to your machines max reach
- Perfect for firewood



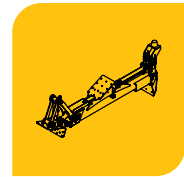
## SOLID EXTENSION

- Easily add 1 m (3 ft) of extra reach and additional protection for tiltrotators, hydraulic hoses & fittings
- Comes with a sturdy heel included



## FIXED TILT

- Gain the total advantage of 180 degree tilting with our robust Tilt Unit
- Available for TMK 300 & TMK 400



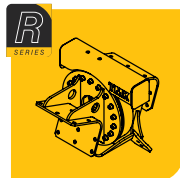
## HYDRAULIC EXTENSION

- 3 meters (10 ft) of extra reach for your excavator
- Perfect for forestry thinning, maintenance & railroads



## HANGING TILT

- Included in the H-series for TMK 150, TMK 200 & TMK 250
- Tilt 165 degrees up/down under your crane rotator and handle trees with ease



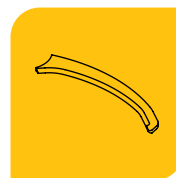
## ROTATOR

- Included in the R-Series for TMK 200 & TMK 300
- Up to 360 degree rotation for your Tree Shear with special TMK adapter kit including a support heel



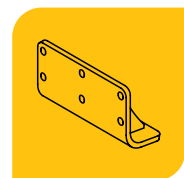
## ADAPTER LINKAGE

- Gain the advantage of tilting up and down at the end of a forestry boom of your own
- Available for Palfinger & can be customized to fit others products



## BRUSHGRAPPLE

- Must-have upgrade if you wish to efficiently cut the smallest stems and bushes without pulling them out with roots and dirt
- 99% of the new shears have it



## HEEL

- Bolt-on heel for extra support on the bottom / back of the Tree Shear
- Allows more support on icier / softer surfaces



## SPLITTING BLADE











- Used to split large logs
- Easily bolt the splitting blade in place with 3 bolts & voilà - you can start slicing!



## CUTTING CYLINDERS

As the base machines vary, so do their hydraulic output and capabilities. This paired with the difference on the hardness of trees depending on your geographical location, we've come up with a selection of main cylinders to optimize the fit of our Tree Shears to your base machine and specific needs.

TMK 150 is only available with a standard cylinder. TMK 200, TMK 250 & TMK 300 models are available with 4 cylinder options: Standard, Bigger, HD & TMK Turbo. TMK 400 is available with 3 cylinder options: Standard, HD & TMK Turbo.

	 <b>TMK 150</b>	 <b>TMK 200</b>	 <b>TMK 250</b>	 <b>TMK 300</b>	 <b>TMK 400</b>
<b>STANDARD CYLINDER:</b>					
Pressure (min - max):	180 bar 2610 psi	280 - 300 bar 4060 - 4350 psi	280 - 300 bar 4060 - 4350 psi	280 - 300 bar 4060 - 4350 psi	300 - 320 bar 4350 - 4640 psi
Oil flow (min - max):	40 - 100 l/min 10 - 26 gal/min	80 - 150 l/min 21 - 39 gal/min	80-150 l/min 21 - 39 gal/min	80 - 150 l/min 21 - 39 gal/min	100 - 180 l/min 26 - 47 gal/min
<b>BIGGER CYLINDER:</b>					
Pressure (min - max):	○	220 - 250 bar 3190 - 3625 psi	220 - 250 bar 3190 - 3625 psi	220 - 250 bar 3190 - 3625 psi	○
Oil flow (min - max):	○	100 - 150 l/min 26 - 39 gal/min	100 - 150 l/min 26 - 39 gal/min	100 - 150 l/min 26 - 39 gal/min	○
<b>HD CYLINDER:</b>					
Pressure (min - max):	○	180 - 220 bar 2610 - 3190 psi	180 - 220 bar 2610 - 3190 psi	180 - 220 bar 2610 - 3190 psi	220 - 250 bar 3190 - 3625 psi
Oil flow (min - max):	○	100 - 150 l/min 26 - 39 gal/min	100 - 150 l/min 26 - 39 gal/min	100 - 150 l/min 26 - 39 gal/min	80 - 180 l/min 21 - 47 gal/min
<b>TMK TURBO CYLINDER:</b>					
Pressure (min - max):	○	220 - 250 bar 3190 - 3625 psi	220 - 250 bar 3190 - 3625 psi	220 - 250 bar 3190 - 3625 psi	220 - 250 bar 3190 - 3625 psi
Oil flow (min - max):	○	50 - 150 l/min 13 - 39 gal/min	50 - 150 l/min 13 - 39 gal/min	50 - 150 l/min 13 - 39 gal/min	80 - 180 l/min 21 - 47 gal/min

○ Not available





## CONTROL OPTIONS

### **ALL WHAT THE BASE MODEL TMK TREE SHEAR NEEDS TO FUNCTION IS ONE DOUBLE-ACTING HYDRAULIC CIRCUIT**

Our TMK Tree Shear has two ½" BSP standard quick couplers (inlet & outlet) on top of the frame where your machine's hydraulic circuit will be hooked up into, feeding directly to the cutting cylinder on a standard model, or to our custom valve body on a model with attachments.

Adding attachments such as the Collector and Delimber do not necessarily require any additional hydraulics from your machine, as they can be easily installed and set up with our innovative and customer-oriented valve & installation kits.

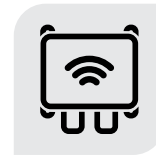
By default, the electrical wiring kit or pressure-diversion valving is included in the price of the attachment, whereas gaining the fully wireless radio control with TMK Wireless Kit comes at extra cost, but is extremely useful in certain situations such as using the product with a tiltrotator or between multiple different machines.



**ELECTRICAL WIRING KIT**

This option is always included in the price of Collector or Delimber and is very simple, requiring our electrical wiring harness to be installed between the tree shear and the cabin by the user.

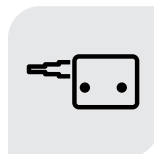
Only one electrical push button required / attachment for control. The electric push button is used when you want to drop the cut trees from the hold of the Collector or activate the Delimber around the tree.



**TMK WIRELESS KIT**

TMK Wireless Kit is the best option for tree shears installed under tiltrotators or usage between multiple host machines. Biggest benefit is to not to have any extra electrical cables in the harms way, but it definitely simplifies the first-hand installation process too.

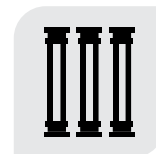
Receiver in the shear can be powered with either Makita or Milwaukee tool batteries and the transmitter can easily be used with our plug&play system, or directly wired to the excavator power supply and controller handles.



**PRESSURE DIVERSION**

With pressure-diversion it is possible to have everything working without any electricity or additional hydraulics. It uses our innovative sequencing valve body and utilizes the pressure from your hydraulic system.

This control option is limited to models with only one attachment: meaning TMK Tree Shear models equipped only with a Collector, or only with a Delimber.



**DIRECT HYDRAULIC LINES**

If you wish to use either Collector or Delimber fully manually from a separate pump / hydraulic circuit available from your base machine, it is always possible.

With base machines and positioning of hydraulic outputs, quick couplers and hose lengths varying in each case: the customer is responsible for the hydraulic installation with this option.

# ROTATOR

Rotator allows the operator to rotate the Tree Shear into a more advantageous position - allowing the operator to cut tree limbs with ease.

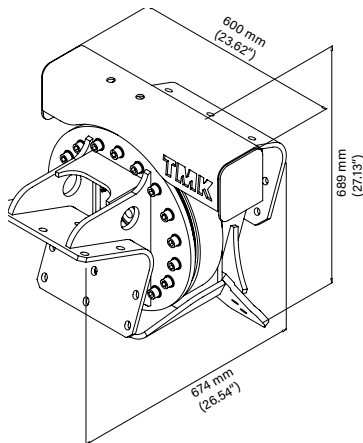
Rotator has optional 360 rotation by adding a swivel joint to get the oil through the rotator to the shear. Rotator has a 125cc motor and it can be driven on its own hydraulic line, or through the same hydraulic line as the Tree Shear with an electric valve.

Rotators come with a support heel that helps maneuver the machine.

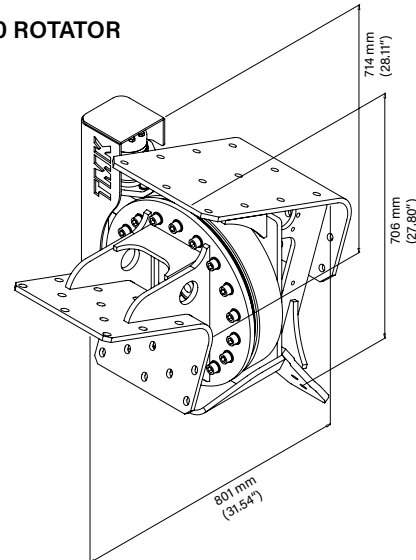
Rotator is available for TMK 200 and TMK 300 models.

	<b>TMK 200-R</b>	<b>TMK 300-R</b>
Shear's total weight with rotator	385 kg (850 lb)	505 kg (1 110 lb)
Rotator kit weight	210 kg (460 lb)	225 kg (500 lb)
Rotator max. pressure	200 bar (2 900 psi)	200 bar (2 900 psi)
Flow	50-120 l/min (13-32 gal/min)	50-120 l/min (13-32 gal/min)

**TMK 200 ROTATOR**



**TMK 300 ROTATOR**





## **TMK 300-F**

with Bigger cylinder on a John Deere 325G Skid steer.



***WANT TO KNOW MORE?  
CONTACT US OR FIND  
YOUR LOCAL DEALER!***



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