



THE TuLAKO X4 RANGE MADE IN 65. - 95.4 SIZES

X4 series are realized as triangle style tree feeding system with 3 feed rollers and 4 motors

PRINCIPLE OF THE TuLAKO X4 SERIES HEADS

The principle idea of the TuLAKO 4-series is the FLEXIBILITY, which is made by using a modulation of the frame and moving parts of the 4-series head frame. Several kinds of specifications can be generated by using different combinations of the existing modules and components based on customer needs. Also 4 moving knife configuration is available.

EXTREMELY STRONG and POWERFUL LAKO 4-series HEAD RANGE

The construction of the TuLAKO heads and both the steel material and welding procedures has been analyzed using the latest technology both in design and optimising the complete structure.

We have reached very rigid and long lasting construction of the frame and moving parts as well selected components.

OUTPUT OF THE LAKO HEADS

In addition to the hydraulic system of the 4-series consist of the latest revisions of the worlds largest hydraulic component suppliers like Bucher/Hydman-Hawe, Bosch Rexroth and Sauer-Danfoss and Hydac.

Using the latest technology, TuLako can ensure the highest possible efficiency by low operating cost in all kind of forest operation or cuttings/harvesting methods both hardwood and softwood not forgetting the environmental aspects.



THE FRAME OF THE TuLAKO X4 PRODUCT RANGE



The frame of the LAKO 4-series is short and agile

Short frame head is most suitable for handling difficult curved and crooked stems e.g. debarking acacia or eucalyptus or mixed hardwoods

There is pair of front knives as a standard, and ONE (1)pc moving back knife opposite side of the butt saw unit

Practically the this kind of head is the right choice when using the head as processor head and one back knives is needed. The lighter weight of the head is important feature (better agility) and the structure of the head is more simple

The back knife can be taken off if not needed.



The 65.4 with debarker rollers

THE LARGER SIZE TuLAKO X4 PRODUCT RANGE



The TuLAKO 85.4 harvester head can fell and cross cut dia a 85 cm tree

THE COMMON BASE MACHINE IS AN EXCAVATOR



The TuLAKO 85.4 harvester head working in Russia with 25 ton excavator

THE TREE HANDLING CAPACITY IS VERY HIGH



The TuLAKO 85.4 harvester head can fell and cross cut dia 85 cm trees

THE MID SIZE TuLAKO X4 PRODUCT RANGE



The TuLAKO 75.4 harvester head can fell and cross cut dia 75 cm trees

THE SMALLEST SIZE TuLAKO X4 PRODUCT RANGE



The TuLAKO 65.4 harvester head can fell and cross cut dia 65cm trees, typically in Eucalyptus

ALSO WHEELED HAREVSTER BASE MATCH TO X4



The TuLAKO 75.4 harvester head working with 8 wheeled base machine

ALSO WHEELED HARVESTER BASE MATCH TO X4



The TuLAKO 75.4 harvester head working with 8 wheeled COMBI base machine

INNOVATIVE X4 HARVESTER HEAD RANGE, 3 wd



The new product line is TuLako X4 series product line made for modern harvesters characterized low own weight compared its power

This X4-series are based on well proven over 40 years experience of different versions of LAKO heads.

We will collect all best features of those product series to this new TuLako X4 series product line to meet the increasing demand of efficiency and again save energy to at the logging operations

TuLako advanced multipurpose light built X4 -series

- Represents the most common way of mechanized forest harvesting operations globally both in softwood and hardwoods
- Generally X4 product ranges consist of harvester heads from 65 cm cutting capacity up to 85 cm as a single tree handling
- The unique part of this product families is their modular construction to enable ultimate efficiency, for all applications, globally and with any kind of base machines.

X4 Harvester head with 4 moving delimiting knife arms



The triangle arm geometry LAKO harvester head with 4 motors / 3wd drive and 4 knives for larger trees harvesting



HISTORY COMPANY-PRODUCT-PERSON INTRODUCTION

Continious operations with innovations and development



Lako 45 and 60 harvester heads from 80's



Modern LAKO 52.2 harvester head



Traditional 3wd LAKO 5-series head

**Dangle harvesting head is now the most common way to do Cut-To-Length around the world
Always intensive activity to solve existing problems like damage free feeding of the tree or
Eucalyptus and Acacia (harwood) handling, by debarking or semi-debarking (Tanac) method.
Intelligent control and measuring as well high efficient hydraulic systems has been generated.**

Content HISTORY OF TURKKA LASTUNEN AND HARVESTER HEADS

Everything started at 1980: There has been several high lights, both ref. products as well in the business



LAKO 80 workshop test in 1983 by Turkka



LAKO 45 and 60 with rubber wheels 1988



LAKO 550 debarking acacia in Asia 2004



LAKO 52 handling a big pine tree in 2013



LAKO 5-series debarking hardwood 2015



Concept of StemMaster bio energy head 2024



Smaller 42.2 & 52.5 head asymmetric feed roller arm geometry



Asymmetric harvester head both for the conifer or hardwood debarking application. Opt. heavier $\frac{3}{4}$ " saw chain



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