



Forest machinery

SALE AND SERVICE OF FORESTRY EQUIPMENT



www.forest-machinery.cz



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Dear friends of forest, nature and technology,



You are getting into your hands the Catalogue of forest cableways, silvicultural machines and accessories manufactured at the Forest Machinery of the University Forest Enterprise Masaryk Forest in Křtiny, which is an organizational part of Mendel University in Brno. We have more than seventy years of experience in research, development and introduction of forest machines into demanding forestry operations. Our production programme is extensive and constantly expanding. It consists of machines for silvicultural work and for concentrating timber in tractor and cable terrains, whose parameters are suitable for use in protected landscape areas and national parks.

We believe that our products will appeal to you and that you will become both our customers, and part of the circle of lovers of nature and our forests, who draw from them abundant wealth, beauty and renewable resources only to such an extent and with such an intention that future generations can be proud of us.

The collective of the Forest Machinery of UFE Křtiny wishes you much success not only at work, but also in business.

Ing. Přemysl Veselý, Ph.D.
Head of the Forest Machinery

The quality of our machines and service is best proved by the number of satisfied customers. To date, we have more than a hundred of our Larix cableways in operation, and we are rapidly approaching one thousand of sales of our silvicultural equipment.



4 — 8



Machines for silvicultural activities

These machines are great helpers in forest care. They are designed to save labour and money. Emphasis is placed on the quality of implementation, and of course, compliance with European Union regulations and the approval of machines for road transport is a matter of course. The machines are aggregated in the third three-point hitch of a farm tractor, but we can also fit some machines to LKT or forwarders. Pressure oil is taken from the tractor's external hydraulic circuit.

The weight and energy consumption is much lower compared to foreign products, while the efficiency and usability are at least comparable. The quality of production, service and price range are the reasons why almost 1000 of our silvicultural machines are in operation to date, not only in the Czech Republic, but also in Poland, Lithuania, Latvia, Estonia, Germany, Hungary, Slovakia, Austria, Finland, Russia and Canada.

- **High quality production**
- **Low energy consumption**
- **Full service support**



Furrow planting machine

Unique planter with excellent seedling yield. The machine is designed for mechanized planting of bare-rooted and container seedlings of forest woody plant (up to a container size of 8 cm). It is used in clear-cut areas without logging residues and with a stump height up to the clearance height of the tractor. Lifting of the planter when overcoming obstacles is provided by a foot-operated hydraulic distributor by a worker seated to the left of the planter.

Parameters	
Length	2180 mm
Width	1720 mm
Height	1620 mm
Weight	650 kg
Staff	2 persons
Output per shift	0,8–1,5 ha



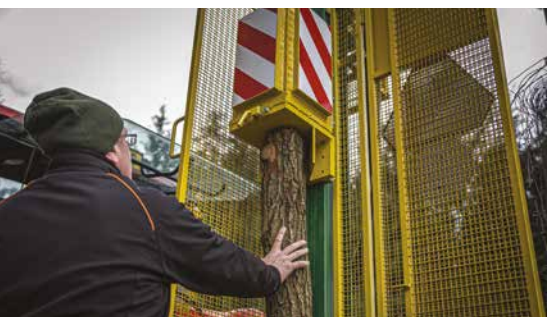
Disc trenchers

The soil trencher is designed for strip soil preparation for regenerating or artificial reforestation of the forest on heavy weedy or calamity sites. For both types of trenchers it is possible to tilt the disc in relation to the soil by means of a rotating circular plate with the possibility of adjusting the disc by 15°. The TPF-1N disc soil cutter trencher can be supplemented with a ripper tip that can rip the soil up to a depth of 45 cm. The ripper can be removed in a simple way (by removing the three pins) and the trencher can work independently.

Parameters	TPF-1N
Length	1400 mm
Width	1080 mm
Height	1150 mm
Weight	390 kg
Plate speed	25–50 circles/min
Output per shift	1–1,5 ha
Min. oil supply	40 l/min

Parameters	TPF-2
Length	1700 mm
Width	2200 mm
Height	1150 mm
Weight	875 kg
Plate speed	25–50 circles/min
Output per shift	2–2,5 ha
Min. oil supply	70–80 l/min





FENCE-R Fence construction machine

FENCE-R is a device designed for the construction of not only forest fences. A great advantage is the possibility of equipping the machine with a plough to create a furrow allowing the mesh to be inserted into the soil, thus preventing animals from crawling under. Of course, it is possible to set the stakes in a vertical position and hammer them in with a 300 kg hammer. The wire mesh can be unrolled and rolled up by means of an integrated hydraulically driven mesh holder, so it is possible to tear down the fence! The required distance between the stakes is monitored by a dragged chain. An additional feature that increases the working comfort of the operator is a magazine for up to 30 stakes and one spool of roll wire mesh.

Parameters	
Length	2050 mm
Width	1850 mm
Height	3750 mm
Weight	1660 kg
Stake length	1,5–2,7 m
Stake diameter	100–250 mm
Output per shift	cca 1 km



Training of forest cableway operators

We provide professional training for Larix forest cableway operators by our team of qualified staff with many years of experience in the field. We put great emphasis on occupational safety and the elimination of risks arising from the operation of forest cableways. By meeting the given conditions, the owner or operator of the rope system receives a Certificate of successful completion of training. Along with this service, we also provide expert advice and consultation in the installation and operation of forest cableways.



Machine service

A team of experienced and professionally trained staff fully equipped with modern technology and off-road service vehicles will take care of your equipment. We take care of above-standard warranty and after-warranty service for all forestry machines manufactured and supplied by us. We provide service in our equipped service workshops in Křtiny or directly at the customer's forest.



Implementation of special orders

The construction, repair or demolition of various building structures requires the development and innovation of technology, which is why they are moving forward all the time. By capturing these trends together with our experience and in-house know-how, we offer efficient and realistic solutions for the transport of various materials. Our aim is always to design an optimal and safe procedure for the customer, which we then implement.

10 — 14



Larix forest cableways

They are characterized by high terrain accessibility, reliability and high durability. A great advantage is the possibility of aggregating the tower yarders on a tractor, truck or trailer. The cableways are controlled by radio-controlled command stations with the possibility of automatic carriage ride. Mechanical cone clutches controlled by a pneumatic system take care of the power transmission. Larix cableways are cost-effective and environmentally friendly. These rope systems are designed for transporting timber on the flat, on the slope and against the slope, in both main and intermediate fellings. To simplify construction, lightweight POLYSTEEL rope is used. Superior warranty and after-warranty services and fast delivery of spare parts guarantee satisfaction. Larix tower yarders comply with the requirements of the European Union.

We provide on-site training, operational service and spare parts for all cableways. As a complement to our product range we offer processor forestry cable carriages and carriages from the Austrian companies MM Forsttechnik and Koller Forsttechnik. You can find Larix forest cableways in operation not only in the Czech Republic and Slovakia, but also in Hungary, Poland, Belarus, Ukraine, Russia, Spain, Germany, Colombia and Japan. Czech and Slovak cableway operators are successfully operating them in France, Austria and Germany.

The manufacture of cableways automatically entails the production and sale of tools and accessories such as cable carriages, directional and opening pulleys, compact steel ropes, cableway accessories and custom-made accessories.

- **High field accessibility, performance and reliability**
- **Long operating time**
- **Superior warranty and after-sales service**



Larix forest cableways



Larix Lamako Tower yarder

The modern easy-to-build three-rope system uses a skyline, main line and haul-back line. The best performance is achieved in conjunction with a smart carriage such as the Horal, MM Sherpa U3t or Koller USKA 1.5.

Parameters	
Tower height	8 m
Pulling force	2,7 t
Maximum route length	500 m
Weight	4100 kg
Required engine power	+70 kW

Larix forest cableways



Larix 3T Tower yarder

The unique four-rope system using a skyline, endless line, hoist line, auxiliary line brings energy savings. This eliminates the need for braking the load while driving. In addition, the load can be lowered while travelling on the skyline, saving further time. A lightweight mechanical carriage KOS-31 is used for this cable system.

Parameters	
Tower height	7,5 m
Pulling force	3 t
Maximum route length	600 m
Weight	4470 kg
Required engine power	+74 kW





Larix Kombi H Tower yarder

Universal modular three-rope system with the use of a skyline, main line and haul-back line. The base consists of a large-capacity double-drum winch with a proximity shield, which can be supplemented with a skyline. Both light mechanical carriages and carriages with cable clamps are used for this cable system.

Parameters	
Tower height	5,5 m
Pulling force	2,7 t
Maximum route length	300 m
Weight	2920 kg
Required engine power	+70 kW

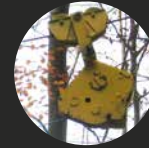
Cableway carriages



KOS-31 carriage



MM Sherpa U3t carriage



DOL 2t carriage



Horal carriage



VLN carriage



MOKO-25 carriage

Cableway accessories



Intermediate support



Shortening clips



End clip



Passable support



Mast support



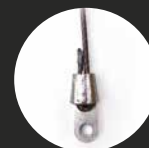
Assembly triangle



Directional block



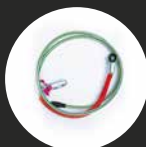
Tree climbing spurs



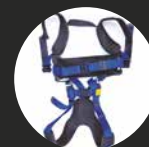
End clip with hole



Wide opening block 60 kN



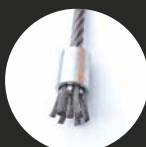
Adjustable positioning lanyard



Climbing harness



Opening block 50 kN



Rope end cylinder



Rope clamp



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SALE AND SERVICE OF FORESTRY EQUIPMENT

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