



WE'RE THE BEST AT THINNING



Strojírna Novotný s.r.o. specialises in the production of forestry, agricultural and construction machinery. We have been producing machinery since 1991, when the founder of the company, RNDr. Ing. Vojtěch Novotný, Csc., started with the production of weldments – frames for German loaders by Weidemann – now member of the Wacker Neuson Group. The company grew, but we still produce weldments to this day. Mr. Novotný was enthusiastic about making his own machines and worked together with several design offices and research institutes on their development. In 1997, we made our first skid-steer loader, then trademarked Bobek, named after a character from a popular Czech children's show. We have been making skid-steer loaders ever since, and they are one of the mainstays of our production programme. We currently offer two models: B861 and B961.

However, we were constantly on the lookout for ways to expand our production programme. In 2004, we were happy to be able to produce our first lightweight forwarder. We caught on to the trend of cut-to-length logging and were absolutely thrilled to see it being used in thinning operations. Gradually, we began upgrading our models based on operational feedback. Currently, we produce 3 types of forwarder – LVS 511, LVS 520 and LVS 720 – which differ primarily in their load capacities. As of today, over 1,700 skid-steer loaders and 250 forwarder have left the gates of our production plant in Vitošov. Our machines have their customers not only in the Czech Republic, but are sold all over the world. Our advantage is, among other things, our ability to provide complete production of machinery in our production plant, which houses cutting machines, welding shop, paint shop, assembly line and everything else under a single roof, so we can respond flexibly to your requirements.



Forwarder **Novotný LVS 511** – the perfect tool for thinning



ADVANTAGES OF THE LVS 511 FORWARDER

- ▲ Reliable and powerful engine
74 hp/2500 rpm
- ▲ Permanent 8-wheel drive
- ▲ Width of only 1.86 metres
- ▲ High pulling force of 77 kN
- ▲ Low ground pressure
– weight distribution
on 8 wheels
- ▲ Optional hydraulic crane
- ▲ Spacious and comfortable cab
- ▲ 5,000 kg load capacity

The forwarder LVS 511 is the smallest forwarder. This forwarder of Novotný family designed to forward wood primarily from thinning and random salvage logging. The loading area is used for transporting 2 to 5 metre long assortments. Load capacity is of 5,000 kg. Model LVS 511 has great parameters for thinning, a 75 horse-power, 3.4 litre, four-cylinder, turbocharged IVECO engine that meets the requirements of the Stage 5 emission standard and provides the forwarder with enough power and low fuel consumption. The efficient hydraulic system with 2 pumps and 4 hydraulic motors by Rexroth provides a maximum pulling force of 77 kN. The forwarder is equipped with a flow divider, which, when engaged, evenly distributes the effect of the traction force of the hydraulic motors in a 1:1 ratio between the right and left axle. The model has 400 mm tires as a standard, but 500 mm tires are also very popular, providing the forwarder with even lower ground pressure. The 511 model has the most spacious cabin in its class and provides enough space even for the most robust of operators, while providing great view. The LVS 511 forwarder uses proven Swedish hydraulic cranes MOWI P25, MOWI P30 or MOHEDA M40 with telescopic extension. The hydraulic crane can have a reach of 6.6 metres and a loading capacity of 1,100 kg at 3 metres.

Thanks to its parameters, the LVS 511 is the ideal tool for cut-to-length logging in thinning. The wheels on the front and rear axle, as with all Novotný forwarder, keep the same footprint, which is essential for easy manoeuvrability in clearings.



Machine type	LVS 511
Engine	FPT
Type	F34
Engine power	55 kW / 2,300 rpm
Travel	Hydrostatic
Drive	8x8
Hydraulic system	Bosch Rexroth
Locks	Hydraulic – flow divider
Number of speeds	2 + power control
Tires	400/60-15.5 (500/40-17.5)
Electric system	
Voltage	12 V
Alternator	90 A
Working lights	8 x 70 W

Crane	MOWI P25	MOWI P30	Moheda M40
Reach in m	5.2	5.7	6.5
Load capacity at max. reach in kg	420	450	450
Telescope	-	-	YES
Dimensions			
Width	1,860 mm (2,100 mm)		
Height	2,960 mm		
Length	6,950 – 7,750 mm		
Ground clearance	450 mm		
Weight	4,475 – 5,500 kg		
Load capacity	5,000 kg		
Cabin	Spacious and safety cabin with perfect visibility. Comfortable revolving seat with electronic joysticks, radio with CD		

The machine comes with a wide range of optional add-ons and accessories.

Forwarder **Novotný LVS 520** – the best forwarder in its class

ADVANTAGES OF THE LVS 520 FORWARDER

- ▲ Reliable and powerful 101 hp/2,400 rpm engine
- ▲ Mechanical differentials with 100% locking
- ▲ Permanent 8-wheel drive
- ▲ High pulling force of 95 kN
- ▲ Cranab 6.1-8.5 m hydraulic crane
- ▲ Turnable cabin
- ▲ 6,000 kg load capacity



The LVS 520 forwarder is a true hard worker, universally useful for concentrating timber in forest stands of all ages. Forwarder is designed to meet the needs of modern forestry, where changes in forest management often take place dynamically and flexible response is necessary. The LVS 520 uses components from the best and most reliable suppliers. The Perkins internal combustion engine meets the latest Stage 5 emissions standard, and provides the forwarder with convenient power with plenty of reserve. We use Danfoss hydraulics, which, with the Plus1 control system, take the ride and handling characteristics of the forwarder up several notches. Since the beginning, we have been using Swedish hydraulic arms by Cranab, which excel in their durability and excellent operational properties. The drive of the forwarder is unrivalled in the small forwarder category. The forwarder has differentials with mechanical locking on all 8 wheels. The rate of climb even when loaded is, thanks to the excellent distribution, incredible. The load capacity of the LVS 520 is 6 tonnes. The forwarder is very compact – only 2.1 m wide, less than 3 m high. Logs from 2 to 5 metres long can be loaded on the loading area. Users appreciate the symmetrical distance between the front and rear axles from the centre pivot, thanks to which the LVS 520 has great traction, especially in thinning operations. The comfortable, spacious, 180° turnable cabin with excellent view is a great advantage.

Machine type	LVS 520
Engine	Perkins
Type	Type 904J-E36
Engine power	74.4 kW / 2400 rpm
Travel	Hydrostatic with mechanical differentials
Drive	8x8
Hydraulic system	Danfoss
Locks	Mechanical – 100% differential locks
Number of speeds	2 + potentiometer control
Tires	500/50-20 Alliance 331 Forest (600/40-22.5)
Electric system	
Voltage	24 V
Alternator	120 A
Working lights	8 x 70 W
Colour display	7"

Crane	CRANAB FC 45 Tele (CRANAB FC 53 Tele)
Reach	6.1 m (6.5 m)
Load capacity at max. reach	570 kg (632 kg)
Telescope	YES
Dimensions	
Width	2,100 mm (2,300mm)
Height	2,910 mm
Length	7,160 – 7,960 mm
Ground clearance	440 mm
Weight	6,400 – 7,200 kg depending on equipment
Load capacity	6,000 kg
Cabin	180° turnable with perfect visibility. Cabin equipped with air-suspended, heated seat with electronic mini-joysticks, comfortable armrests, radio with CD, air-condition

The machine comes with a wide range of optional add-ons and accessories.

Forwarder **Novotný LVS 720**

– truly universal



ADVANTAGES OF THE LVS 720 FORWARDER

- ▲ Reliable and powerful engine
134 hp/2200 rpm
- ▲ Mechanical differentials with
100% locking by NAF
- ▲ All 8-wheel drive
- ▲ High pulling force of 120 kN
- ▲ Cranab hydraulic crane
with a reach of 8.5 metres
- ▲ Turnable cabin
- ▲ 7,500 kg load capacity



The LVS 720 forwarder is a machine for thicker thinning, universally usable in forest stands of higher age classes. You can hardly feed this forwarder with timber after manual harvesting. The forwarder is an excellent partner for medium-sized harvesters, with a minimum daily output of around 100 m³. The huge advantage is the ratio of power, size, weight of the machine and its load capacity. It has great utility parameters. The machine is very flexible, and with its low weight and wide 600 mm standard tyres (710 mm optional), it causes very little damage to the soil. Again, we use components for the LVS 720 from the best suppliers that you can rely on. The Perkins internal combustion engine meets the latest Stage 5 emissions standard, and provides the forwarder with convenient power with plenty of reserve. We use Danfoss hydraulics which, with the Plus1 control system, give the balancer sufficient power on any terrain. The standard variant uses a Cranab FC53 hydraulic arm with double extension and a reach of 8.5 metres. The transmission is made by NAF, a proven supplier, and the mechanical locking of all 8 wheels is a matter of course in this category. The LVS 720 forwarder has a load capacity of 7.5 tonnes. The forwarder has still very acceptable dimensions – width only 2.4 m on 600 mm tyres, height around 3 metres, and the loading area can take 2 to 5 metres long logs. The LVS 720 has the same comfortable and spacious cabin as the LVS 520 and is also rotatable by 180°. If you have a medium-sized harvester and don't want an unnecessarily large forwarder behind you, the LVS 720 is a great choice.

Machine type	LVS 720
Engine	Perkins
Type	Type 904J-E36
Engine power	100 kW / 2400 rpm
Travel	Hydrostatic with mechanical differentials
Drive	8x8
Hydraulic system	Danfoss
Axles	NAF tandem boogie axles
Locks	Mechanical – 100% locking in differentials
Number of speeds	2 + potentiometer control
Tires	600/50-22.5 (500/ 60-22.5 or 710/40-22.5)
Electric system	
Voltage	24 V
Alternator	120 A
Working lights	8 x 70 W
Colour display	7"

Crane	CRANAB FC 53T	CRANAB FC 53 DT
Reach	6.5 m	8.5 m
Load capacity at max. reach	632 kg	418 kg
Extension length	1.55 m	3.21 m
Dimensions		
Width	2,400 mm (2,200 mm)	
Height	3,034 mm	
Length	8,323 mm	
Ground clearance	534 mm	
Weight	8,500 kg depending on equipment	
Load capacity	7,500 kg	
Cabin	180° turnable cabin, perfect visibility. Equipped with air-suspended, heated seat with electronic mini-joysticks, comfortable armrests, radio with CD, air-condition	

The machine comes with a wide range of optional add-ons and accessories.

Application of Novotný Loaders in Forestry

THE ADVANTAGES OF NOVOTNÝ LOADERS

- ▲ Powerful and economical engines
- ▲ Higher load capacity
- ▲ Reliable hydraulic system
- ▲ Maintenance-free chains
- ▲ Hydraulic joystick control
- ▲ Easy maintenance
- ▲ Practical and quick servicing



Thanks to their versatility, Novotný loaders are used in agriculture and construction, as well as in municipal technology, composting plants and forestry.

The loaders come with a wide range of optional equipment that expands the possibilities of their use even further. The vast majority of Novotný loaders are used on the domestic market in the Czech Republic. If you are not one of the lucky owners of a Novotný loader, I firmly believe that you have already encountered a nicely designed blue and white loader bearing the Novotný name in your area.

Today, Novotný loaders use high-quality and efficient engines from FPT that meet the current Stage 5 emission standard. The loaders are equipped with a reliable hydraulic system by Bosch Rexroth. In the gearboxes we use a maintenance-free, chain-driven transmission. A glazed cabin with heater and hydraulic joystick controls are standard. The electric system of the loader stands out for its simplicity. The skid-steer loader is a versatile machine that can be fitted with a variety of work equipment instead of a basic bucket. Thanks to this fact, skid-steer loaders are also used in forestry or sawmill operations, as well as in forest nurseries and other associated industries. More than once we have supplied a loader with a log grab. More recently we have supplied a loader designed to load 6 metre logs into containers. Also very interesting was the installation of a carried chipper on a Novotný B961 loader, which chipped biomass in the technical services of a municipality.

Type of loader	B861	B961
Operating weight	3,350 kg	3,580 kg
Load capacity (payload)	1,000 kg	1,200 kg
Tipping load	2,080 kg	2,185 kg
Base bucket capacity	0.53 m ³	0.60 m ³
Capacity of buckets according to user needs	0.53 – 0.80 m ³	0.6 – 0.9 m ³
Max. driving force	29 kN	32 kN
Lifting force	21.3 kN	29.6 kN
Shearing force	21.3 kN	28.7 kN
Maximum speed	12 kmph (18)	12.5 kmph (18.5)
Tires – dimensions	10.75 x 15.3 mm	12 x 16.5 mm
Engines – make	FPT/F34	FPT/F34
Type – model	F34	F34
Max. engine output (kW)	43 kW	55 kW



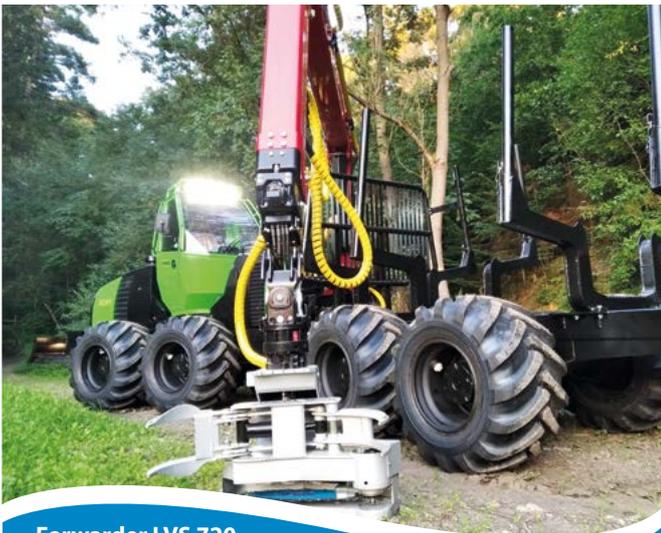
We have solutions
for every customer



Forwarder LVS 511
on tracks with clembank



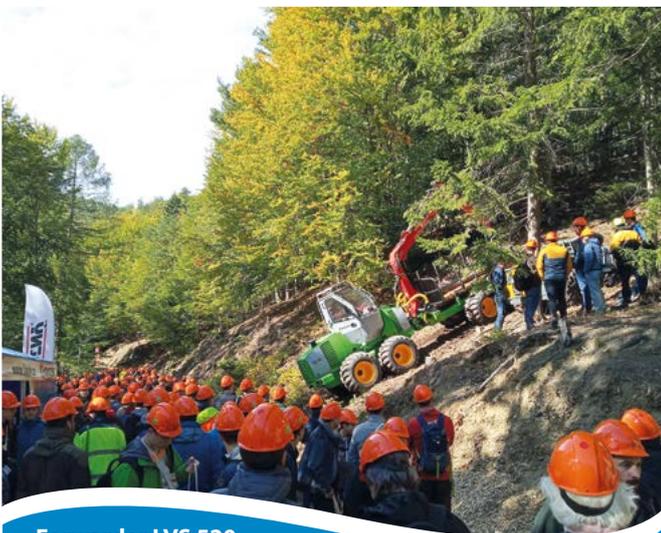
Forwarder LVS 720
with rubber tracks



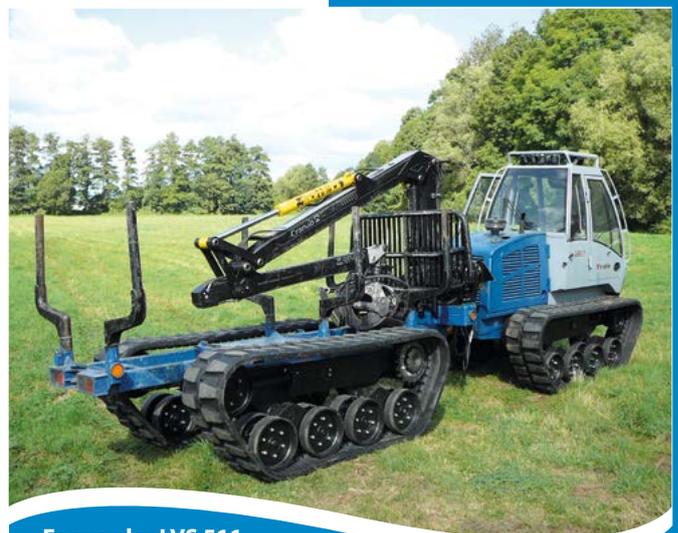
Forwarder LVS 720
with saw grapple



Harvester H50



Forwarder LVS 520
with traction winch



Forwarder LVS 511
with rubber tracks



The product portfolio of **STROJÍRNA NOVOTNÝ** is very varied. We focus on small, but powerful and environmentally friendly technologies for demanding forest applications. We often meet unusual requirements of our customers and many machines are built to order to best meet your requirements.

Much emphasis in modern forestry is placed on nature-friendly management, with an emphasis on minimising damage to existing forest stands. Using nature-friendly forestry technology from Strojírna Novotný will make you and your forest happier!

**FORESTRY MACHINES FROM NOVOTNÝ IS THE BEST CHOICE!
.....WITH YOU FOR 30 YEARS.**

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