

HYPRO[®]

HYPRO 755

NEW! Hypro Felling grapple FG45
Also available as energy-wood felling grapple.



FG45

HYPRO 755 wheel carried

The wheel carried 755 only adds 200 kg to the tractor hitch. This makes the use of lighter tractors (min. effect 70 hk.) an option.

It is quick and limber with articulated steering, hydraulic stabilizer for ideal stability. It is a fully equipped machine with built in hydraulic system, and a wide angles axle for PTO. Pump and tank are both mounted on the machine.

The machine is operated with EHC Canbussystem with mini joysticks from the tractor cabin. Length and diameter measurements are standard on all 755 models.

The new 0,5 meter longer crane pillar provides increased range and enables the grapple to reach the centre of the processor table. This also provides the possibility to cut and drop trees in the centre of the processor table when using a felling grapple without having to make any repeating grabs on the tree with the grapple to place it correctly.

The machine can be delivered with either rubber- or steel feeder wheels.

The HYPRO tractor processor range

A range of machines designed to appeal equally to contractors and to self-employed forest owners. It goes without saying that HYPRO machines combine kindness to the environment with high capacity and reliability.

Technical data 755 wheel carried

Weight incl. hydr. oil	2350 kg
Width when folded away	2,3 m
Ground clearance	50 cm
Length	3,6 m
Hydraulic steering	yes
Cylinders for steering	2 st
Steering ability	+/-25°
Feed rate	>3,5m/sek
Tilt angle	65°
Slew	280°
Crane length	7,5 m
Crane slewing radius	360°
Min. tractor output	70 hp
Min. diameter	5 cm
Max delimbing diameter	40 cm
Max diameter	45 cm
Winch traction force	2 ton
Winch rope length	50 m
Hydraulic system, variable, load-sensing	74cc
Hydraulic flow	max 150 l/min
Hydraulic pressure	250 bar
Tank capacity	150 liter
PTO speed	400-540 r / min



Hypno 755 has hydraulic struts as standard.

HYPRO 755



The HYPRO 755 is a generously equipped tractor-processor with a 7 metre crane. Processor and crane both have a working radius of 280 degrees, allowing felling on both sides.

The HYPRO 755 has its own hydraulic system with pump and tank for mounting on the front of the tractor. The hydraulic system is loadsensing- and variable, giving speed, smoothness and strength.

The HYPRO 755 is also available for fitting to tractors with a built-in variable hydraulic system with the necessary flow and pressure. The machine is operated with EHC Canbussystem with mini joysticks from the tractor cabin. Simply by pressing a button you can choose between crane and processor. Both can be operated with the same levers.

The HYPRO 755 is suitable for thinning operations and for final felling. A remarkable 280° slewing radius and lateral displacement provide ample adjustment to suit the direction of fall of the tree and allow distances of up to 3.3 metres between timber stacks.

The machine has a radio controlled winch which can winch in from both sides. The design of the crane, with a tilting pedestal, gives a low centre of gravity at full reach, as well as compactness when folded. Hypro 755 has hydraulic struts as standard.

If you have a tractor with a reversible driving position, a high level of comfort and a dual controls, fit it with a multifeature HYPRO 755 processor and you'll have a fast, efficient and highly competitive harvesting machine.



Hydraulic kit mounted in front.



Technical data 755

Weight incl. hydr. oil	1400 kg
Width when folded away	2,0 m
Feed rate	>3,5m/sec
Tilt angle	65°
Slew	280°
Crane length	7 m
Crane slewing radius	280°
Min. tractor output	80 hp
Max diameter	45 cm
Max delimbing diameter	40 cm
Min. diameter	5 cm
Winch traction force	2 ton
Winch rope length	50 m
Hydraulic system, variable, load-sensing	74cc
Hydraulic pressure	250 bar
Hydraulic flow, recommended ..	max 150 l/m
Tank capacity	130 litres
PTO speed	1500-2000 r / min



HYPRO 450 XL

450 XL has high and low speed, which allows very high feeding rate, 5 m/sec. This is an advantage for first and second thinning.

The 450 XL has a high feeding force and raw power for processing in heavier forest. The machine is available in a lightweight design with a separate hydraulic system, with the pump unit and tank mounted on the tractor.

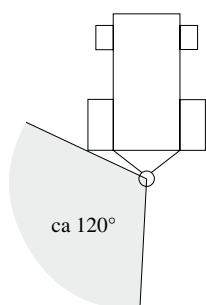
There is no drive shaft between tractor and machine, only hoses with quick-release couplings. These ensure quick, easy connection and disconnection.

As standard, the 450 XL model has a double joint, a feature which brings many benefits during processing, as well as for transport and transfer. In this position, with or without feeder crane, the entire machine is always narrower than the tractor. The outstanding hydraulic winch on the machine, which has both infeed and outfeed and immediate braking when stopped, is always operated with professional digital radio equipment.

The HYPRO 450 XL processor has an opening diameter of 45 cm. Versatile and powerful, simple and easy to operate. The perfect all-round machine from first thinning to lighter final felling. All our machines have a double joint as standard. The effect is that cut timber always falls away from the tractor, so there is no timber on the skid road. Because of the oscillatory motion of the joint there is a remarkable scope for sorting the timber.

HYPRO TELESCOPIC CRANE

Tailor-made for crane makes working in the area close to the machine easier and more efficient. The crane works regardless of the position of the head. Spreading branch wood is simple, thanks to the slew angle and reach of the crane.



Working area of crane



CRANE SPECIFICATION

Lengths: 4 m 6 m
 Weight: 180 kg 300 kg
 Tractive force: 1500 kg
 Lifting force 2 m: 1200 kg
 Grapple diameter: max 45 cm

Technical data 450 XL

Weight incl. hydr. oil 1130 / 1150 kg
 Length max 1,90 m
 Length min 1,50 m
 Width when folded away 1,60 m
 Feed rate >3,5m/s / >5,0 m/s
 Tilt angle 60°
 Slew 140°
 Min. tractor output 65 hp
 Max diameter 45 cm
 Max delimbing diameter 40 cm
 Min. diameter 5 cm
 Winch traction force 2 ton
 Winch rope length 50 m
 Hydraulic system, load-sensing 54 cc
 Hydraulic pressure 230 bar
 Hydraulic flow, recommended 85 – 100 l / m
 Tank capacity 100 liter
 PTO speed 400 - 500 r / min

HYPRO 300



HYPRO 300 is a rational, quick, three point carried thinning processor which completes its tasks fast despite its small composition and light weight (700kg).

HYPRO 300 has its own hydraulic system where the pump is mounted directly on the tractor. The machine has a load sensing valve which provides a smooth handling experience and flow control possibilities without using throttle functions. Hypro 300 is now also equipped with a feed roller engine in the bottom feed roller. The machine feeds with three feed rollers which provides considerably increased feeding power.

This machine does an excellent job with delimbing and cutting dimensions up to 30 cm.



Hydraulic winch placed in machine frame. Maneuvered via radio alt. lever. When signaled the winch drum is released and while winding up it is automatically locked at stop.



The pump/gear unit is mounted directly on the power shaft of the tractor which gives lighter weight and a more compact montage.

The processor is fitted with a highly powerful and fast cutting saw which cuts so quickly that the log does not have time to drop before the chain has passed through the stem.

It has an integrated hydraulic driven winch for both loading and unloading which is done radio controlled. When stopped the winch is locked in place. The winch can also be maneuvered with hand lever on the operating valve. Through HYPRO 300's construction trees are carried automatically to its designated position by the winch.

This machine is a good investment, giving you high quality for a low price. It has greater engine efficiency because of its own hydraulic system, which in the long run saves you money. The gearbox of the hydraulic system in the machine provides decreased engine RPM, which also causes reduced consumption of diesel and thereby provides an improved overall cost.



The machines control table is placed in a comfortable working height and has easily maneuverable levers, where it also is possible to adjust the speed in both directions individually on all functions. The measuring system is optimal placed for a comfortable use.



Height adjustable support legs

Technical data 300

Weight incl. Oil.....	ca: 700 kg
Feed rate	>3m / sec.
Tilt angle	40°
Slew	45°
Min. Tractor output	50 hp
Max diameter	30 cm
Min diameter	3 cm
Winch rope length	35 m
Winch tractor force	1,5 tons
Hydraulic pressure	210 bar
Hydraulic flow	90 lit
Oil capacity	90 lit
Length	1,65 m
Width	1,60 m

HYPRO Felling Grapple FG45 / Energy FG45



HYPRO felling grapple is very well suited for handling anything from standing trees to fallen logs. The felling grapple can be mounted on all cranes equipped with rotator.

HYPRO FG45 is also available as energy-wood felling grapple, which is equipped with a special sword to make it possible to cut both small shrubberies and all the way up to 35 cm thick trees. As energy grapple, FG45 is equipped with open grapple claws.

HYPRO FG45 automatically tilts the grapple up to felling position when the grapple claws reach maximum open position. If one wishes to lower the grapple back to horizontal position, one does only need to activate the cutting function and the grapple falls back to horizontal position instantly.

The valve block of the crane needs to be supplemented with an extra valve for the activation of the saw motor. This extra valve must be a motor slide model which is open to the tank line in neutral position.

The flexibility of the swift hydraulic spine of the felling grapple makes it possible to reach tree trunks in the correct felling direction. This also delivers a very rational and easily maneuvered felling experience.

Technical data Felling grapple FG45

Cutting diameter max.....	45 cm
Tilt angle	100°
Total weight	140 kg
Saw hydraulic motor	5 cm³/varv
Max hydraulic pressure	250 bar
Oil flow, min	50 l/min
Oil flow, max	80 l/min



HYPRO Radio

HYPRO machines are fitted with professional digital radio equipment. They satisfy the strict demands imposed in terms of speed and ultra-safe operation for radio control of winches. The units are our own design, with dual control, emergency stop function and highly impact-resistant casing.



HYPRO Measuring Equipment

HYPRO has its own specially designed length measuring equipment which is capable of meeting very strict reliability requirements in a tough working environment. The system includes cable fault tracing and calibration features. The large black digits of the display are very easy to read, even in bright sunlight. Photocells automatically set the start point of the measurement and zero the system. No more time lost searching for the butt end.



HYPRO Measuring Computer MD 320

In its basic version, the MD 320 has length and diameter measurement and it can be upgraded for printing of log data as well as with nine pre-set lengths. Printing and pre-set lengths are separate items which are available as optional extras. A printer is included. Tree species breakdown can be provided if required. This simply means pressing a button for pine, spruce, hardwood or miscellaneous.

HYPRO Forwarder Trailer HV14

The most stable trailer on the market!

Standard equipment has three loading bunks. Low placed slewing cylinders and a protective cover gives best over-view of the loading area

Technical data HV14

Loading capacity	14 tons
Loading area	3,1 m ²
Lenght	5,50 m / 6,25 m
Width	2,38 m
Lenght of loading area	3,8 m / 4,55 m
Number of bunks, standard	3
Additional bunks, incl. Lengthening	1
Wheels with strengthened rim 500 / 60x22,5	
Hydraulic disc brakes	2
Hydraulic wheel motor running	2
Cylinders for beam steering	2
Steering ability	+/-48°
Ground clearance	70 cm
Weight	2500 kg / 2800 kg



A Cranab FC45 with max lenght of 8,0 meters is used as crane.



Bogie with 22° oscillate ability for good manoeuvre capacity at though terrain conditions.



Additional bunk with manual telescopic length adjustment.



Hydraulic disc brakes on the bogie's front wheel pair and hydraulic drive on the rear wheel pair.



On the Hypro HV14 you have the option of choosing between robson drive or planetary gear. Hypro 4 WD rulldrift gives much higher drivepower and the driveunit is well protected



The drive device is placed in the rear wheel pair. Hydraulic motor drive via planetary gear generates very strong work force. With the drive activated, the hydraulic motor has automatic free rolling up to 40 km/h with the LS-system.



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