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ACTIVE SINGLE-DISC PLOUGH P1T/P1T-H Plough



A main advantage of the **active disc plough** is leaving the fertile soil layer in almost intact condition, and shoveling only the top layer that is dry and loose. On periodic wetlands there is a possibility of forming ridges after adjustment of the angle of the

transmission box and after disassembling the subsoiler. The P1T-H plough equipped with a subsoiler and own hydraulic system has been designed for a complex pre-planting soil cultivation. It combines advantages of an active plough and cultivation with a soil ripper. Single-disc active plough with own hydraulic system is a new construction based on existing P1T ploughs. It has a modified power transmission – own hydraulic system – PTO shaft powered, designed for soil plowing and cultivation on forest areas, works with a tractor of a power of 60-90 kW. The active P1T-H plough has been designed for tractors of a low efficiency of the hydraulic system. The minimum requirement for a proper operation of the plough is 40-50 l/min. **For tractors of a high efficiency of the hydraulic system it is recommended to apply the early P1T plough.**

The single-disc plough P1T-H aggregated with a tractor while in the working position and being carried on the area for planting makes a furrow formed as a result of a rotary motion of the milling disc that tears off the top layer of soil and disposes it aside. The furrow is U-shaped and its bottom is aerated to a depth of 4 cm. The ridge is formed from mixed top soil layer. The plough can be applied for preparation of post-clearcutting or post-agricultural areas for planting as well as for introduction of planting into existing forests. After disassembling the subsoiler and after adjustment of the angle of the transmission box there is a possibility of forming ridges on periodic wetlands. The single-disc active plough with a subsoiler reduces costs in preparing soil for planting.



Gold Medal on EKO-LAS Fair 2006 (Tuchola) for P1T plough with subsoiler and SZU seeder

Gold Cone of V International Forest Fair in Warsaw, 1998
P1T Plough with subsoiler (U162)

Special Distinction of Torun Regional Directorate of the State Forests on EKO-LAS Forest Fair 1998 (Tuchola)
P1T active plough with subsoiler





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A single work ride allows for:

- furrow formation
 - subsoiling up to 500 mm
 - pulverizing of the furrow
- The active plough's main frame enables aggregating with SZU and SAU seeders.

TECHNICAL PARAMETERS

Description	Parameters
Width	1310 mm
Height	1200 mm
Length	2950 mm + 350 mm
Weight (with weights)	ca. 850 kg + 50 kg
Weights' weight	ca. 200 kg
Milling discs number	1 pc
Milling disc adjustment angle	17°, 32°, 47°
Furrow width	Up to 600 mm
Furrow depth	Up to 250 mm
Milling disc diameter	970 mm
Milling rpm	ca. 36-38 min ⁻¹
Plough's drive	Hydraulic engine
Subsoiling depth	Max. 500 mm
Subsoiling depth control	skid
Attendance	Tractor's operator
Required tractor power	60 ÷ 90 kW (ok. 80 ÷ 120 KM)
Capacity	max . 2,0 ha