

# Technik-Plus

**TP-Turbo-Jet Super 12  
TP1230IN**



**OPERATING INSTRUCTION**

\*Translation  
from original\*



**TECHNIK-PLUS SÄMASCHINEN E.U.**

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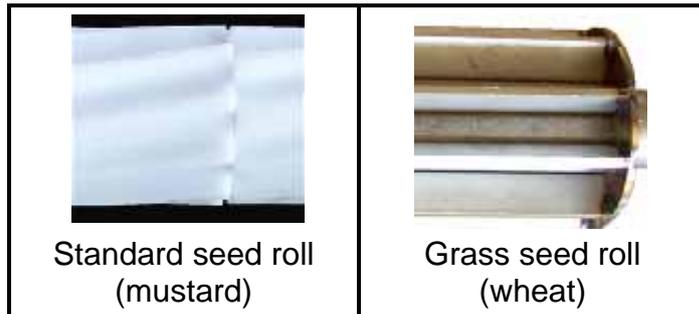
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Serial no.: \_\_\_\_\_

Version 01/11

**Mounting the suitable seed roll:**

There are different seed rolls. The seed rolls can vary depending on the desired application amount in kg/ha, the driven speed or the working width. (Have a look at the chart below!)



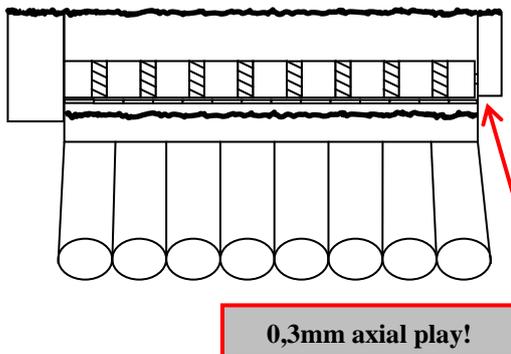
Working width	Km/h	Min. Kg/ha	Max. Kg/ha	Min. Kg/ha	Max. Kg/ha
3m	5	35,00	253,00	35,00	624,00
	10	19,00	126,00	29,00	310,00
	15	12,00	85,00	20,00	208,00
4m	5	20,00	143,00	24,00	469,00
	10	13,00	82,00	20,00	202,00
	15	8,00	42,00	15,00	156,00
6m	5	15,00	126,00	21,00	312,00
	10	9,00	63,00	17,00	155,00
	15	6,00	43,00	13,00	101,00

**These are approximate calculated figures and vary due to the different conditions of the seed!**

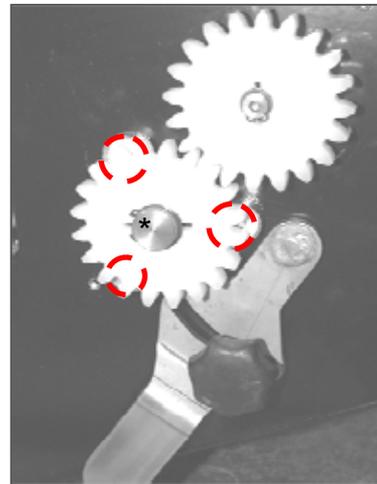
Errors and omissions excepted!

## Seed roll change:

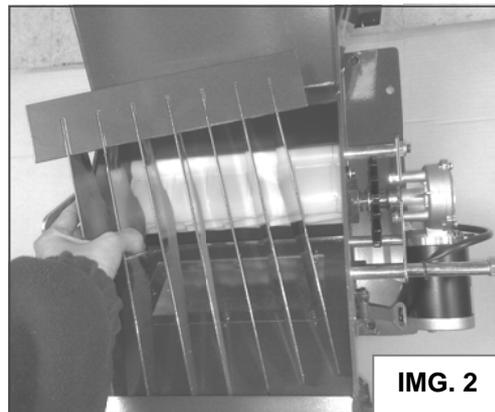
- Disconnect the power supply and put on your personal safety clothes
- Remove the protector for agitator!
- Knock out the roll pin of the seed roll gear and remove the gear wheel! (IMG. 1)
- Remove the bearing bracket.
- Remove the 3 screws (as marked on IMG.1)!
- Open the flaps and put out the lamella (IMG.2)!
- Pull out the seed wheel/metal seed roll from underneath und put in the desired seed wheel/metal seed roll from outside.
- Please note that you have an axial play of 0,3mm, especially when you mount the seed roll for small amounts: (IMG.3)



- Tighten the bearing bracket .
- Put on the gear wheel and knock in the spin ring of seed roll gear.
- Mount the protector for agitator
- Check the screws and the spin ring after a short time!



**IMG. 1:** Knock out roll pin\*!



**IMG. 2**



**IMG. 3**

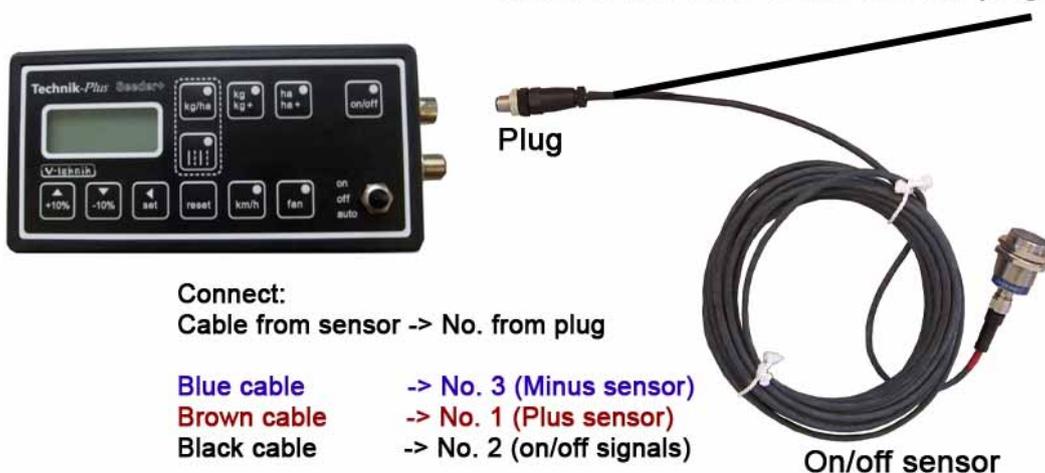
## Flaps:



## Connection to tractor unit:

If the customer has mounted the GPS or RADar later on the tractor, you must search for the cable where the speed signals come out.

Cable with speed signal from GPS or Radar.  
Conncet this cable to no. 4 in the plug.



**ATTENTION!!!**

**For tractors with a higher voltage (14V - new large tractors) the control unit can be damaged or may not work exactly any more. In this case it is necessary to install a 12V-relay for voltage limitation.**

For new tractors (f.ex. Claas) with 7-pin socket (signal-plugs) no signal is send to number 1 and number 2. According to the speed the voltage is lowered or increased. We recommend for this tractors to connect the speed signal directly at the plug of radar sensor cable or at gearbox sensor cable (see instructions).

Hirschmann-plug  
ELST 5012PG7

Signal plug to MF control unit  
Speed and area connection:  
Attention:

The diagram shows a circular Hirschmann-plug with four pins labeled 1, 2, 3, and 4. Pin 1 is connected to the '+' signal of the Speed sensor. Pin 2 is connected to the '-' signal of the Speed sensor. Pin 3 is connected to the '+' signal of the Rearlinkage Areaswitch. Pin 4 is connected to the '-' signal of the Rearlinkage Areaswitch.

**Hydraulic system:**

For the oil-pressure-transfer use only single-acting control unit (system max. 50lit./min., motor max. 20 lit./min.)

If this amounts are exceeded the hydraulic can be damaged. No warranty!

Return absolutely free into The hydraulic system (Not on double-acting-control-unit)

1. Close the valve complete



**Attention!!**

The hydraulic Motor provides 2.000 rpm, when valve is fully opened (may damage fan-wheel).

The motor also has enough strength in a lower speed to bring enough air power.

Please open the valve 1,5—2 turns on the adjusting knob (ca. 2.000 rpm when oil has an operation-temperature from 50°-60°). Otherwise they may be damaged.

**Attention!!** The screw has to be tightened close to avoid a self-adjusting of the oil amount.

2. Open the valve with 2,5 turns



Valve

Hydraulic

## **Working on the field:**

### **Before you begin to work:**

Please take the effort to calibrate the machine. Make notes of all the details for future. Notice the driven speed for the positioning if you work with Profi-control unit. When start working, make sure that the correct speed is driven.

After the calibration drive a short way and – **STOP**

### **CONTROL ...**

- ... that seed or granule is distributed even.
- ... that seed quantity seems to be correct.
- ... that the required quantity has left the hopper.

### **REPEAT ...**

- ... the above checks in certain intervals until you are sure the job is correct .

### **PLEASE ...**

- ... clean the machine every day after finishing work. The bottom of the machine must be cleaned by a brush (not hands). Wear your personal safety clothes (gloves, ...). Don't spray wash with water !

### **ATTENTION!**

- ! The seed shaft can catch fingers, hair and loose clothes. The motor has so much power, that it cannot be stopped. (only switched OFF).

### **NOTE!**

- ! In the process of operation the fan wheel should always run.  
! Switch only the seed roll motor on or off! Otherwise the hoses can be blocked .

## **Cleaning and service:**

All details, for hydraulic systems only apply to EURO-TURBO-JET SUPER with hydraulic fan drive:

- Before every service: pull down the basic unit, disconnect the seeder from the battery, make hydraulic system unpressurised, disconnect mechanical connections (f.e.: Power take off, ...), take off ignition key from tractor respectively separate the basic unit from the tractor.
- Use only original spare parts. We cannot prevent the machine from occurring damages or errors because of reproduction parts.
- Clean the fan daily respectively after every operation with compressed air (The wheel can get unbalanced because of dust and can get damaged).
- Control every 40 operation hours that bolts and fittings are tight fixed, hydraulic hoses and cables are not rubbed through, hydraulic system is leak proof, machine has no rust damages (especially the fitting flaps on the machine and the spreader plates), seeding hoses have no gap and are fitted thigh, the electrical connection is okay (no distant wires, a proper isolation).
- Don't clean the machine with the high-pressure-cleaner and don't clean with too much water. The electric system, hydraulic system and bearings can get damaged after some time (oxidation, rusting, and friction).
- Defect hydraulic hoses or cables (f.e.: rubbed, leaked) have to be replaced immediately .