

MANUAL & MOTOR DRIVEN  
FLATBED APPLICATORS EASY, EASY SHIFT



THE BENEFITS OF  
THREE POINT  
ERGONOMICS...



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## Introduction

Thank you for purchasing your LamiDesk Easy / Easy Shift. Lamidesk is manufactured by Lamidesk in the Czech republic and distributed through a network of local distributors in all around the world.

LamiDesk was not developed simply to compete with existing manual flatbed applicators on the market but was developed seeing the limitation of what was on offer. Lamidesk is manufactured for long term use in high productivity areas.

To offer this high quality, only premium parts from world class companies are used which also assures the quick availability of spare parts.

Continuous development of new models with new functions keep Lamidesk at the top of the market in terms of value and features. Because your machine is built to order, when you purchase your Lamidesk you have the latest edition machine which is equipped with the highest range of features to offer all the combinations of functions for your requirements.

This user manual is covers all available features including the control panels and connections, as well as the maintenance and service recommendations. Your loacal distributor will advise you on pneumatic and electrical requirements prior to installation. For technical questions, training or service, plesase contact your local distributor who will be happy to help. We wish you many years of increased productivity and profits with your new Lamidesk!

## Safety precautions

Failure to comply with any of the following safety procedures, could result in serious injury. Please read the instructions carefully and keep it for future reference.

1. Only a licensed electrician should install wiring and outlets for LamiDesk.
2. Ensure the machine is plugged into a properly grounded outlet with the correct voltage.
3. Keep hands and clothing (i.e. Neckties) away from the roller. The roller has pinch points, that can trap body parts or clothing and cause serious injury.
4. Keep flammable and wet objects away from the machine.
5. Do not place foreign objects on the machine or cover the surface of the machine after using the heated roller (Option) until the roller is completely cooled down.
6. Do not touch the rollers when it is hot. The temperature is as high as 65° C or more when using the optional heated roller.
7. Place the machine on a level surface and fasten the brakes on the rollers.
8. Avoid excessive sunlight, humidity and extreme temperatures.
9. Ensure the unit is turned off and unplugged from the outlet prior moving and repairing it.
10. Keep the machine out of reach of children.
11. Only authorized maintenance and service technicians should do repairs on the machine.
12. Do not attempt to laminate items, that exceed the maximum thickness of materials, mentioned in the technical data sheet.
13. When cleaning the machine, dont use flammable sprays or materials.
14. Dont place anything below the machine, because there are movable parts, which could damaged during movement of the Roller.
15. The machine should be only used by trained personel.



## What's Included



## To be checked on delivery

Please check the machine immediately after receiving it. Damage has to be reported on the documents of the transport company. You will lose the insurance of the transportation, if damage is not reported on the documents of the transport company.

Please take photos and send them, including a copy of the shipment documents including the report of the transport company to your local distributor.

To unload it from the lorry, you should use a fork truck with long forks, to pick it up on both steel frames. Please only pick it up under the lower steel frame where the Rollers are! If you have to move it through small doors, a technician should reinstall the Roller. It takes at least 4 people to lift and fix the rollers back on the machine. Ask your distributor about the extra cost involved.

LamiDesk will be shipped fully assembled and ready to run. To install the machine you only have to remove the wrapping foil, remove the security belts of the roller, connect it to compressed air and power. (Power is needed only for EasyShift models and machines with the optional LED-illumination).

Alternatively Lamidesk can be shipped in a wooden box placed sideways.

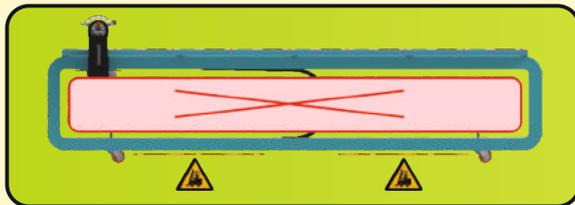
In this case the roller and the wheels are dismounted and fixed inside the wooden box. Please first remove the roller from the box and mount the wheels onto the frame. After mounting the wheels the machine has to be flipped out of the box on its wheels. Because of the high weight there should be at least 4 or more people flipping the machine out of the box! Now the roller can be installed using the description available from your local distributor. To avoid damage, this job should be done by authorized technicians only. There is no warranty on damage resulting from mounting the roller.

## Installation location

Please place the machine, where you can work on at least one short and one long side to be able to handle bigger boards being mounted with your LamiDesk. Don't place the machine in dusty areas, or areas where you will have a high humidity.

When the machine is placed correctly, please lock the 4 wheel brakes. To move the machine to another location you have to disconnect it from the compressor and power first, then unlock the 4 wheel brakes.

There will be some dust even in really clean rooms. When removing the paperliner of the PVC vinyl there will be a static loading which will draw all the dust in the air to the machine. We recommend to clean the machine frequently to get a perfect result.



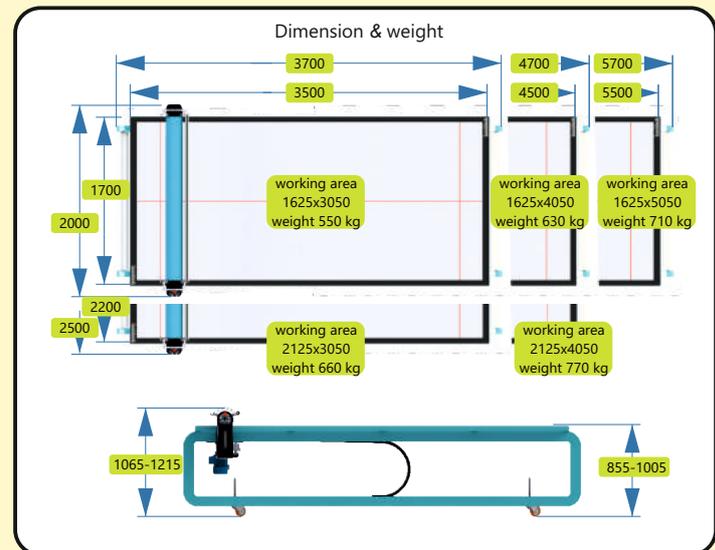
### Attention!

Please take care that there is nothing placed under the table. The bridge of the roller, the motor and other parts should be able to run without hitting any objects. Before using the machine with the motor, please check if the roller can move. Please test manually, without the motor to avoid any damage to the machine.

## Installation requirements

These are the following requirements to install your LamiDesk:

1. dedicated power connection with 220/240V
2. connection to a compressor with at least 6 bar (if not included). More than 6 bar can be used, because you can adjust it on your LamiDesk.
3. minimum space to place your LamiDesk:
  - model 300/160: 450 x 250 cm
  - model 300/210: 450 x 300 cm
  - model 400/160: 550 x 250 cm
  - model 400/210: 550 x 300 cm



## Installation - power, compressor

### Power:

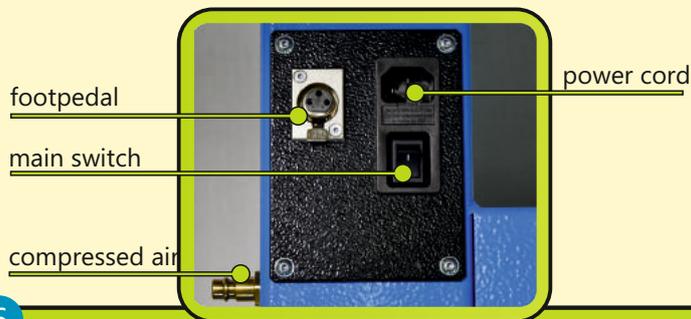
The manufacturer recommends, that a trained Electrician installs the power connection, according to the needs of your region. LamiDesk should have a dedicated connection of 220/240V. The power cord has to be connected to the power console.

### Compressor:

The compressor has to be connected to the main console using a tube (not included). There could be national differences of the connector on the main console of your LamiDesk. Please ask your local dealer which connector is used for your country.

The compressor should have at least 6 bar or more. There is a modulator installed at LamiDesk to reduce the pressure to 5 bar as standard for the pressure of the roller, 3.5 bar as standard for the pressure to engage the motor (to lift the gear of the motor into the chain)

The consumption of compressed air is very low, so a compressor with a tank of min. 3.5 liter will be OK to work with your LamiDesk. If there is a plan to use the compressor also for other machines the tank should be bigger.



## Installation - foot switch, adjustable height

### Foot switch

Please connect the plug of the footswitch in the correct position. Place the footswitch on the top (small) side of the machine, where you want to work. The cable has a correct length to reach both sides of the machine.

To move the roller, you have to press the footswitch permanently, if you remove your foot from the switch, the roller will stop immediately.

The machine ships with a double-footswitch, so there will be a switch for each direction.

This double footswitch can be used both on one side, to be able to move the roller in both directions from the side you are working. Alternatively you can put the footswitch on any side to be able to control the machine on both sides in one direction.



### Adjustable table height

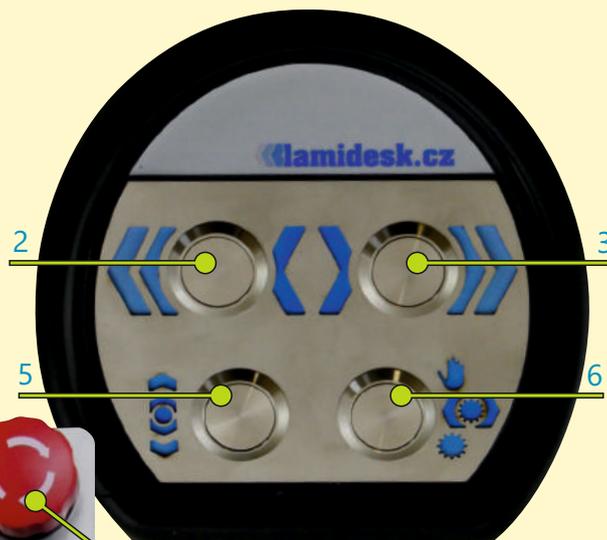
You can adjust the height of the working table from 85cm to a maximum of 100cm. To adjust the height of the machine, you have to open the counter nut on the spindle screw on each wheel of the machine. Then you can turn the spindle clockwise to lift, or counter clockwise to lower the table.

Also you can use the spindle screws on each corner to balance the machine if the floor is not 100% level. It is recommended to use a spirit level for the length and width to adjust the table in its final position.

### Control board - manual models



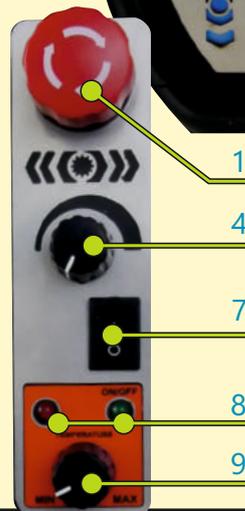
### Control board - motor driven models



### Control board - motor driven models

Functions of the control buttons: (motor driven machines)

1. emergency stop
2. motor driven movement of the roller to the left
3. motor driven movement of the roller to the right
4. adjust the speed of the motor driven roller
5. lift and lower the roller
6. engage the motor or use the machine manually when the motor is disengaged
7. heating ON/OFF
8. heating status LED
9. adjust the temperature



heating status LED

HEATING	
	HEATING OFF
	HEATING ON
	NOT READY
	ALMOST READY
	TEMPERATURE READY

## 4 switches - Automation

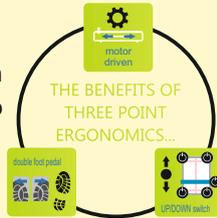
In combination with the double-footswitch you can automatically control the machine so you don't have to leave the top position to pull back the roller.

Furthermore you will be able to lift or lower the roller from any position of the table. This helps to perfectly adjust your prints on the boards, also when you are on the opposite side of the machine.

The double footswitch will move the roller in both directions, with the additional 4 switches on every corner of the machine. You can lift the roller and use the footswitch to move the roller back to the start position. This is perfect if you have to mount a bigger amount of small sized sheets.

For bigger sheets we recommend to put the boards onto the working table from the side of the machine. In this instance it is better to disengage the motor of the roller and push or pull the roller manually to the start position.

The combination of those 2 features gives the possibility of automating the process, using the additional 4 switches without the double footswitch is a good way to control the machine from any position around the table.



## Heated roller up to 65°C/149°F

The optional heated roller can be heated up to 65°C /149°F. To heat up the roller, you have to turn the switch to position on! If the heating is turned on, the switch is illuminated and you can see the temperature which has been used before switching it off. The green numbers can be adjusted to the temperature which is required. The red numbers indicate the actual temperature of the roller.

Depending on the chosen temperature, the real temperature could be different up to 10°C / 50°F if you check it in the middle compared to the ends of the roller.



Even if the red numbers have reached the temperature which has been chosen with the green numbers, the temperature of the rubber surface could be different. The roller is equipped with a thick layer of rubber, so it will need about 20-30 minutes to be fully heated.

As the temperature can be different to the required temperature, please take a note of the last settings which has had a positive result with your chosen material.

## Roll holder top

The roll holder top consists of the two aluminium brackets and a bar which can be easily dropped on the brackets. As you can choose to use your LamiDesk in both directions the brackets can also be used on both sides.

The bar can stay mounted to the brackets when mounting prints on boards, but it is recommended to remove the bar because you will have a better control of your prints when they are resting on the roller.

The roll holder top is used to work with materials on rolls like

application tape, or other material where you don't have to remove a paper-liner. Any material where you have to remove a paperliner has to be cut first into sheets. If the bar is placed onto the brackets, you can place your roll of material between the bar

and the roller. Tie the material between the bar and roller and move it between the roller and table around the roller. Keep it tight while lining it parallel with the roll. When perfectly aligned lower the roller to fix the position, and start moving the roller.



## LED-illumination



The LED-illumination of the model 300/160 consists of 3.000 LEDs, mounted in stripes to 12 metal boards which are mounted to the steel frame beneath the table. The LEDs are powered with 2 transformers which are mounted on a metal frame at the bottom of the table, beside the main connection panel.

The illumination can be switched on or off separately, so you can use your LamiDesk with or without the illuminated table. The main power switch will turn off all power of the machine, so the LED illumination will also turn off.

Because of the high amount of LEDs and the equal allocation, you will have a homogenous and very brightly illuminated surface.

## Technical documentation

### Adjusting the pressure of the roller

On the opposite side of the control board you will find 2 pressure regulators beneath the table. The first which can be seen from the opposite side of the control board is the regulator for the pressure of the roller, the second one is to regulate the pressure of how the motor is pressed into the chain.

The second regulator for the motor connection to the chain is by default adjusted to 3.5 bar. Please don't change that setting without getting in contact with your reseller!

The first regulator for the pressure of the roller has a standard setting of 5bar. The pressure can be adjusted between 2 and 6 bars, if there is a need to change the default setting. Please don't use a setting below 2 bars,

the pneumatic cylinders will not be adjusted equally!

The pneumatic elements are planned to permanently use 6 bars.

Any setting higher than 6 bars could result in an early wear out of your machine.



The adjustment of the pneumatic cylinders to lift or lower the roller synchronously are done in the factory. It could be necessary to reset the setting after transportation of the machine or after a time of using the machine. When using or installing the machine, please check if the roller is still moving up or down synchronously.

To change the setting, you will find 2 screws facing inside the machine. Both screws have lock screws, which have to be opened before changing the setting.

The upper screw has to be adjusted for the movement when lifting the roller, the lower screw is responsible for lowering the roller synchronously.

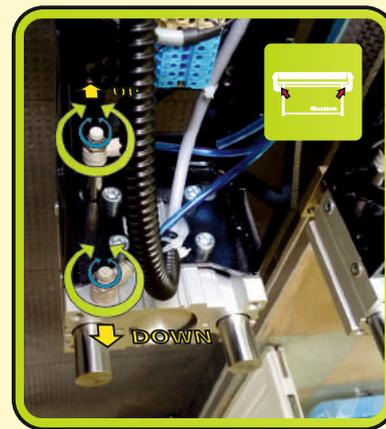
First adjust the movement when lifting the roller changing the setting of the upper screw. After finding the correct position fasten the lock screw and take care that you don't change the setting when fasten the lock screw.

Please follow the same steps to adjust the setting when lowering the roller.

The process of lowering the roller should be done perfectly. Lifting the roller is not critical to achieve good results when working with the machine.



-  locknut
-  before set-up loosen
-  adjustmen screw -
-  tighten > slower motion
-  loosen > quicker motion



## Technical documentation

For your security when moving the roller, there is a friction clutch installed between the top screw and the gear.

The clutch is adjusted at the factory so that you also can use a heavy releasing material like 1.5m / 60 inch application tape. The adjustment could be changed, but keep in mind that a higher pressure adjustment will result in more driving strength of the roller, so the roller will also move with more power onto any object placed on the glass of the working table and could destroy those objects or maybe hurt someone placing a hand in front of the roller.

To change the setting of the clutch, you first have to remove the security splint, which keeps the screw in position.

Now the screw can be turned clockwise to put more pressure to the clutch, so the clutch will release later.

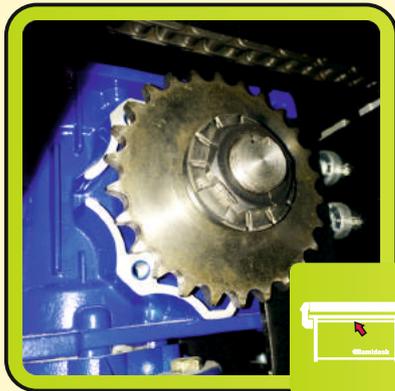
Now the roller is moving with more power. If you adjust the screw counter

clockwise you will release the pressure and the clutch of the

roller will release earlier, With this adjustment the

driving strength of the roller is not as powerful.

Please change the setting carefully - safety comes first!



## Maintenance / cleaning machine

Case and frame parts:

These parts of the machine can be cleaned using warm water and cleaning fluid for glass. Please never use alcoholic based fluids or acetone as this could destroy the colour of the frame or lead to a matt surface of the PVC parts.

Dirt on the roller, ink and vinyl glue residue

1. Remove the roll material from the roll holder top.
2. Use cleaning fluid for glass and a lint-free towel to clean the roller.
3. If there is ink or other strong dirt on the roller you first should try to use a clear rubber. The dirt of the rubber can be cleaned using the glass cleaner and a lint-free towel. If the dirt can't be removed, please carefully use an alcoholic based cleaning fluid and after finishing the cleaning process, remove the alcoholic fluid with a standard glass cleaner.

**ATTENTION:**

Never use sharp tools like blades to remove sticky residue or dirt from the roller. You could destroy the rubber surface of the roller! Only use alcoholic based fluid for heavy dirt which couldn't be removed by glass cleaner. The alcoholic based fluid will dry out the rubber of your roller, resulting in cracks.

Greasing the chain.

The chain of the motor driven models should be greased regularly after 6 months or around 1.000 hours of usage.

## EC declaration of conformity

**ES PROHLÁŠENÍ O SHODĚ (originál)**  
*EC declaration of conformity (the original)*

<b>Výrobce / Manufacturer:</b>	<b>Tomáš Václavík</b>
<b>Adresa / Address:</b>	Frymburk 167, 382 79
<b>IČ / ID:</b>	65024117
<b>Jméno a adresa osoby pověřené sestavením technické dokumentace (podle 2006/42/ES, NV č. 176/2008 Sb.) Name and address of the person authorized to compile the technical file (according to 2006/42/EC):</b>	<b>Tomáš Václavík</b> Frymburk 167, 382 79
<b>Výrobek (strojí) - typ / Product (Machines) - Type:</b>	<b>Lamidesk typ 4.01.6 quick shift LED</b>
<b>Výrobní číslo / Serial number:</b>	0713 4.01.6 300 es LED
<b>Popis / Description:</b>	Lamidesk je určen k aplikaci samolepicích fólií na deskové materiály. Napětí napájení: 230V/50Hz, příkon: 880W, rozměry stroje (délka): 3712x1939x761mm, hmotnost: 430 kg. / <i>Lamidesk is identified to application of adhesive foil on tubular materials. Rated voltage: 230V/50 Hz, power: 880W, dimensions (l x w x h): (3712x1939x761)mm, mass:430 kg.</i>
<b>Prohlášíme, že strojní zařízení splňuje všechna příslušná ustanovení uvedených směrnic (NV) / We declare that the machinery fulfills all the relevant provisions of the mentioned Directives (Government Provisions):</b>	*Strojní zařízení – směrnice 2006/42/ES, NV č. 176/2008 Sb. / *the Machinery Directive 2006/42/EC, Elektromagnetická kompatibilita – směrnice 2004/108/ES, NV č. 616/2006 Sb. / the Electromagnetic Compatibility (EMC) Directive 2004/108/EC.
<b>Harmonizované technické normy a technické normy použité k posouzení shody / The harmonized technical standards and the technical standards applied to the conformity assessment:</b>	ČSN EN ISO 12100-2, ČSN EN 953+A1, ČSN EN ISO 11857, ČSN EN 60204-1 ed. 2, ČSN EN 60950-1 ed.2 kap.4, ČSN EN 61000-6-3 ed. 2:2007, ČSN EN 61000-6-1 ed. 2:2007.
<b>Poslední dvě čísla roku, v němž byl výrobek opatřen označením CE / The last two digits of the year in which the CE marking was affixed:</b>	12
<b>Posouzení shody provedla / The conformity assessment carried out by:</b>	Státní zkušebna zemědělských, lesnických a potravinářských strojů, a.s. / The Government Testing Laboratory of Agricultural, Food Industry and Forestry Machines, Joint-stock company. Třinovského 622/11, CZ-163 04 Praha 6-Repy, ČR / Czech Republic. Závěrečná zpráva č. / The Final Report No. 34 078.

\*V rámci požadavků 2006/42/ES (NV č. 176/2008 Sb.) bylo provedeno i posouzení shody s 2006/95/ES (NV č. 172/2003 Sb.)  
\*Within the requirements of the Directive 2006/42/EC it has been performed also a conformity assessment with the Directive 2006/95/EC.

Poznámka: Veškeré předpisy byly použity ve znění jejich změn a doplňků platných v době vydání tohoto prohlášení bez jejich citování. /  
Note: All regulations were applied in wording of later amendments and modifications valid at the time of this declaration issue without any citation of them.

Místo a datum vydání /  
Place and date of issue: 1.1.2013

Osoba zmocněná k podpisu za výrobce /  
Signed by the person entitled to deal in the name of producer:

Jméno /  
Name: Tomáš Václavík      Funkce /  
Grade: majitel      Podpis /  
Signature:

## Manufacturer

**Tomáš Václavík - Lamidesk**  
Street: Hrudkov 79  
City: Vyšší Brod , ZIP: 382 79  
Country: Czech  
VAT: CZ7407111349  
phone: +420 604 264 029

## Dealer