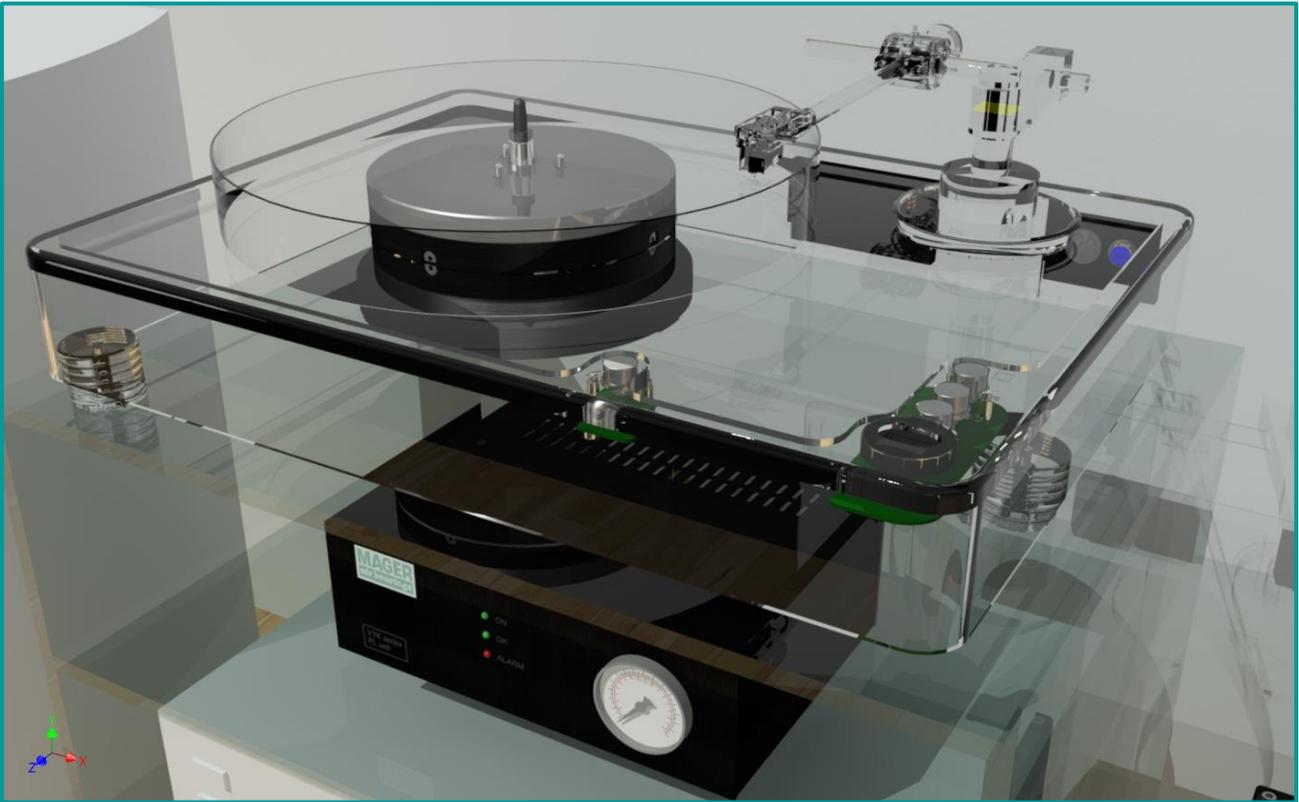


# VTK-PD KIT FOR VINYL RECORD PLAYER



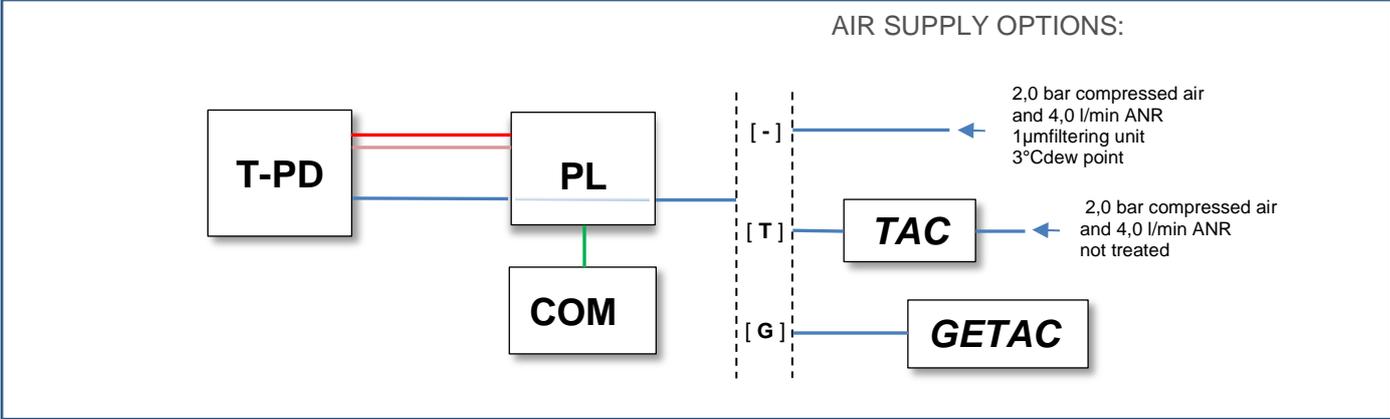
# VTK-PD KIT FOR VINYL RECORD PLAYER

The kit is ideal for audiophiles who want to create their own vinyl record player with advanced performances: the technological core made by MAGER Air Bearings can thereby be “covered” with custom-made design; in this way, amateurs feel free to implement sound performance enhancement solutions according to the specific environmental requirements where the record player has to be used.

The aerostatic rotary table featured by radial and axial air bearings coupled with direct drive motorisation (thanks to aerostatic technology, during power drive, there is no mechanical contact between relative motion elements) guarantees both the maximum isolation from environmental acoustic vibrations and the best acoustic tailor made results; different solutions of turntable and base, shape and material are of customer choice.

Plug-in power supply: 33 rpm (LP) & 45 rpm. 78 rpm optional.

The kit can be supplied without the unit for compressed air supply and treatment, for example if the user can use independently air good enough for it ([ - ] option). In case the air available is quantitatively enough, MAGER can provide the user with TAC unit for treatment and adjustment so as to supply the rotary table with good air quality. ([ T ] option). Lastly, in case the user wants to be totally independent, MAGER can supply the GETAC unit for air supply and treatment. GETAC is a super silent unit ([ G ] option).



LAYOUT OF THE UNITS with 3 different options of supplied air

Excluded from supply:

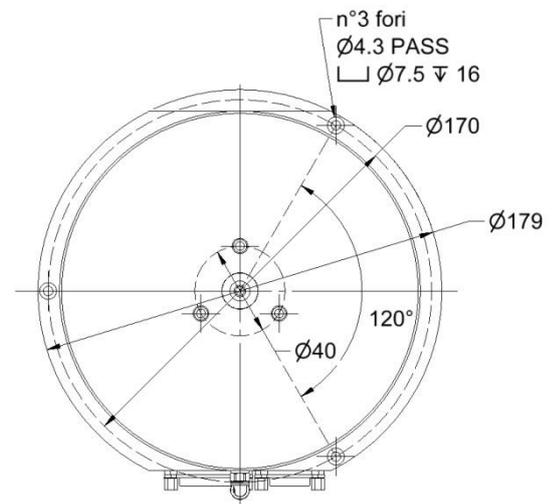
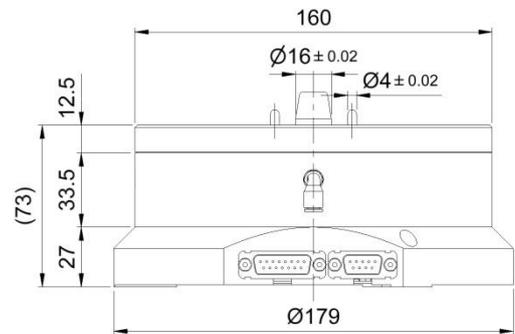
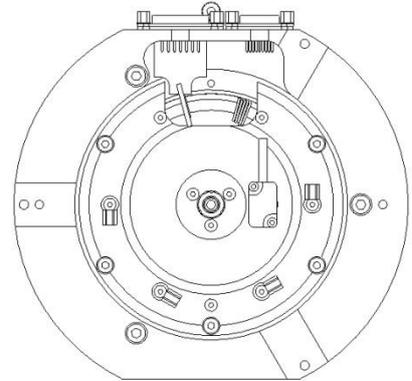
- 1) THE ROTARY TABLE SUPPORT
- 2) THE PLATTER
- 3) THE TONEARM and the NEEDLE
- 4) THE TONEARM SUPPORT

MAGER Air Bearings is available to create both the interface for not compatible turntables and the tonearm support upon customers' specific request.

## VTK-PD KIT FOR VINYL RECORD PLAYER

The kit is made up of:

1. **T-PD unit** with motorised rotary table with the following features:
  - a. aerostatic rotary table with radial and axial air bearings
    - operative air pressure: 1.8 bar
    - friction torque: < 0.5  $\mu\text{Nm}$
    - radial run-out: < 1.0  $\mu\text{m}$
    - speed ripple: < 0.05%
  - b. direct drive motorisation:
    - i. 0.75 Nm torque motor
    - ii. 8,182 puls/rev high resolution optical angular transducer
  - c. platter centering pin
  - d. 3 pins for table rotation:



The dimensions of bearings-motor-transmission is compatible with platters with the following features:

- weight **up to 13 kg**
- inertia up to **0,15kg·m<sup>2</sup>**, equal to :
  - a 310mm steel diameter and about 52mm height platter
  - a 310mm aluminum diameter and about 147mm height platter

weight and inertia which will be used must be indicated on the order in order to calibrate the system

## VTK-PD KIT FOR VINYL RECORD PLAYER

### 1. logic and supply **PL unit**:

**DIMENSIONS:** 230 x 170 x 80mm h

- anodized alluminium box with aesthetic front
- control and security logic
- digital high frequency digital PWM switch for direct drive
- 24V feeder

#### PUSH BUTTONS

- on/off button
- 0-2,5 bar pressure gauge display
- 3 led spia di funzionamento
  - ON
  - OK
  - ALARM

#### CONNECTIONS

- 220V/50Hz supply (110V/60Hz optional)
- with GETAC / TAC unit: air IN
- with T-PD unit: motor, encoder, air OUT
- with COM unit: power, speed /stop switches, display
- (RJ45 connections for diagnostics)



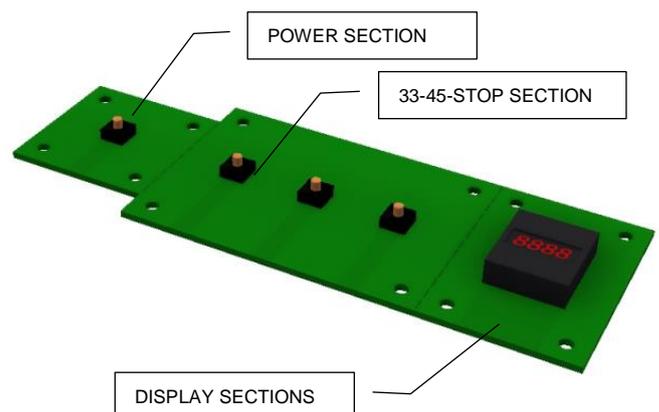
### 2. **COM** unit control and display made up of:

#### a. keyboard + display:

- POWER switch, 33rpm, 45rpm, STOP
- 4 digit alphanumeric red LED displays with working status

The unit can be supplied in 3 options:

- PCB control board with microswitch, with no aesthetic switches; 3 detachable and then connectable sections through flat cable:
  - power section: 35x35mm
  - 33-45-STOP section: 70x50mm
  - display section: 35x50mm
- control board with swiches to be assembled  
*(customization on request)*
- control unit preassembled  
*(being defined, customization on request)*



example of PCB control board  
 with microswitch, with no aesthetic switches

*(connectors and flat cables being defined)*

## VTK-PD KIT FOR VINYL RECORD PLAYER

3. **TAC unit** for compressed air treatment ([ T ] option) made up of:

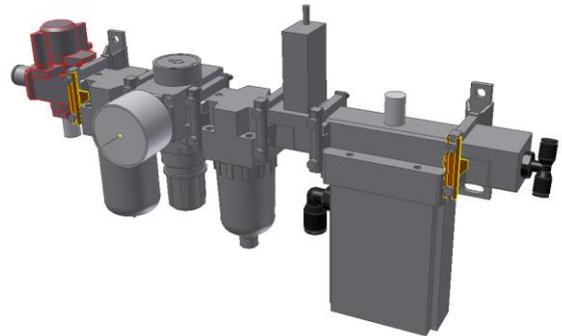
- a. high efficiency regulation and filtering system
- b. osmotic membrane dryer unit

**PUSH BUTTONS**

- c. pressure regulator
- d. pressure gauge

**CONNECTIONS**

- i. air inlet for D6 hose
- ii. air outlet for D4 hose



description: TAC-0040-DF003-R1-E-----DM-000

DIMENSIONAL OUTLINE AVAILABLE

4. **GETAC unit** for per compressed air supply and treatment ([ G ] option) made up of:

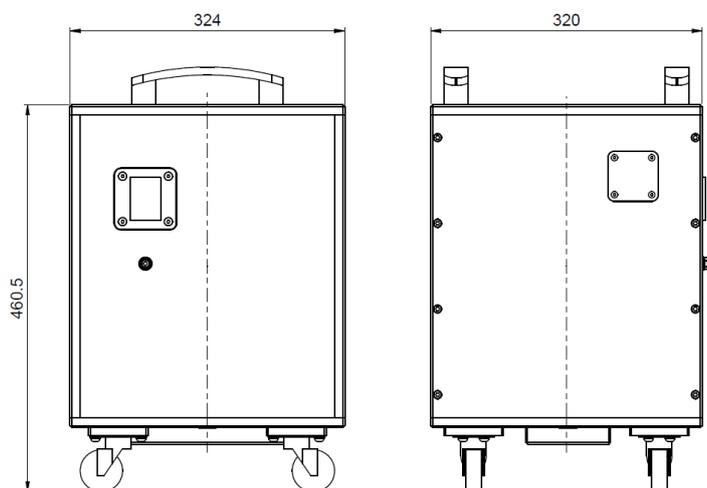
- soundproof cover with aluminum walls 8mm thick
- aesthetic black anodisation
- silent air compressor
- high efficiency drying and filtering unit
- digital air pressure switch with display
- 220V/50Hz power (110V/60Hz optional)
- weight: 34kg
- heat dissipator
- antivibration rubber jockey wheels

**PUSH BUTTONS**

- power switch
- red led display indicating the pressure storage

**CONNECTIONS**

- air outlet for D4 hose to PL unit
- electrical supply



ATTACKS DETAILS BEING DEFINED  
IN/OUT CONNECTIONS DETAILS BEING DEFINED



## VTK-PD KIT FOR VINYL RECORD PLAYER

### TECHNICAL SPECIFICATIONS:

	without TAC / GETAC	with TAC	with GETAC
Electrical supply:	220V/50Hz AC 110V/60Hz AC		
RMS power absorbed:	50W RMS		250W RMS
<b>Air supply</b>			
Operating pressure:	1,8 bar		
Filtering range:	1 µm		
Drying:	Dry to 3°C dew point		Operating pressure
Noisiness:			< 30 dB
Environment temperature:	15°C ÷ 30°C		
Relative humidity:	< 90%		
Dimensions and masses	50cm x 100cm x 40cm 15kg	50cm x 100cm x 40cm 20kg	60cm x 100cm x 100cm 50kg
Routine maintenance:		to pneumatic filters after 400 working hours	to pneumatic filters after 400 working hours
Warranty:	2 years	2 years excluded air filter	and dryer

### HOW TO ORDER:

**VTK-PD-XX-X-X-XXX**

S=50cm, L=100cm, X=200cm \_ cable lenght connection PL ↔ T-PD  
 S=50cm, L=100cm, X=200cm \_ cable lenght connection PL ↔ COM  
 S=50cm, L=100cm, X=200cm \_ cable lenght connection PL ↔ GETAC

- P** = control board (only printed circuit with microswitch and display)  
**B** = control board with keys supplied separately (to be integrated according the diagram provided)  
**F** = control board full optional  
 - = without compresses air supply unit and treatment  
**T** = with TAC unit for compressed air treatment\_ (filtering + adjustment)  
**G** = with super silent GETAC unit for compressed air supply and treatment

**HV** = 220V/50Hz power version

**LV** = 110V/60Hz power version

**PROUDLY MADE IN TURIN**



MAGER reserves the right to change his products at its sole discretion at any time and without further notice.

rel. 23-11-2016