



Why Choose Expander



www.klindex.it

Why Choose Expander

EXPANDER series : the strongest grinding machine ever built according to the SAFETY REGULATIONS

Dear Sirs,

Before deciding which machine to buy, we would like to inform you on the following two important points : the SAFETY RULES and the TECHNICAL DETAIL of the machine.

Unfortunately there are many machines in the Market that do not correspond with the SAFETY RULES and/or the CE even if there is the symbol CE present. Not only Asian market machines but even many machines manufactured in Europe or in America don't correspond with the SAFETY RULES. It is strange but true. Before buying any new machine be sure that the machine has been built according to the SAFETY LAW and CE rules and regulations.

We would like to remind you that: if you buy any machine that does not correspond with the SAFETY RULES and there happens to be an accident the responsibility is not only of the Producer of the machine but ALSO THE OWNER OF THE MACHINE , IT MEANS "ALSO YOU!" As result be careful when you decide to buy any grinding machine.

In the meantime we would like to give you some information in order to help you to understand if the machine corresponds with the SAFETY RULES and symbol CE.





Expander 1000 TOP



Expander 1000 HD



Expander 950 HD



Expander 850



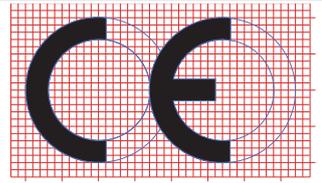
Expander 750



Expander 650



Why Choose Expander



Safety Rules.

The EXPANDER satisfy what the SAFETY RULES (Art EN 60204-1 requires)
Check if the other machine satisfy what the SAFETY RULES



Selector to block the door of the inverter.

This device avoids the door from being opened before "switching off" the "electric power".
Check if the competitors machine has this device.



Safety device dedicate to monitor the emergency circuit.

This device automatically shuts off the machine if some electric problem happens avoiding any injuries. KLINDEX uses the right and approved electrical components including oversized wire. Check if the competitors machine has this device. Check the electric components and the kind of wire they use is approved.



Special safety emergency button.

(Not a normal emergency button like on smaller machines). When this special emergency button is pushed the motor is immediately turned off and all the "moving parts" (like tools) are immediately stopped avoiding any injuries. Check if the competitors machine has this device. Many machines in the market that have the emergency button take time to relay the signal therefore could cause injuries.



Re-start safety system

The new start (re-start) after any stop cannot happen casually. Any start has to be active not passive. It means for example that if any one accidentally connects the electrical power, the machine doesn't start again. To start again the operator has to follow all instructions correctly. Check if the competitors machine has this device. Many machines in the market if after pushing the EMERGENCY BOTTON the electrical power is reconnected accidentally the machine will start again and could cause injury. Be careful to this point and image that while someone is changing the tools that someone doesn't accidentally restore the power!



Remote Control

If the machine is equipped with remote control please check the following points: 1. It must be "active system" and not passive system. After an emergency if we push the START BOTTON the machine does not start the operator has to follow the instructions. 2. If the operator leaves the REMOTE CONTROL the machine stops working avoiding any injuries. According to the SAFETY RULES the machine cannot work without the presence of the operator. 3. Continue Control System. It means: a) If the operator leaves the device, the remote control stops the machine immediately. b) If the operator leaves the device it cannot be used from any other unauthorized operator to avoid any injuries. c) DEAD MAN SWITCH: all automatic movements are under control by "dead man safety device" "in order to work free but in total safety. Check if after an emergency pushing the START BOTTON to see if the machine starts. If it starts it is very dangerous and it is not according to the SAFETY RULES. Many machine that have a REMOTE CONTROL are not according to the SAFETY RULES: if the operator moves away from the area and forgetting to switch off the machine, the machine will continue to go. Many machines in the market don't have a DEAD MAN SWITCH it could be VERY DANGEROUS.



Motor Engine

Motor 15, 20 or 25 hp even in UL version. Voltage 380-450 volt. Amper 32.
Check the kind of motor.



Working Section

Expander650: Working section 650mm with 3 tools diameter 240mm. Quick Attack system.
Expander750: Working section 750mm with 3 tools diameter 240mm. Quick Attack system.
Expander850: Working section 850mm with 3 tools diameter 240mm. Quick Attack system.
Expander950: Working section 950mm with 3 tools diameter 340mm. Quick Attack system.
Expander1000: Working section 1000mm with 6 tools diameter 240mm. Quick Attack system.

Check the size of the tools. Many machine has the same working area but the tools are smaller. Smaller are the tools, less will be the performance.



Variable speed head that adjusts

From 300 up to 1300 rpm
 Check the speed. Many machine have speed range very limited



Tank with 46lt capacity

The tank is very important for working wet. When working dry the diamond doesn't grip and skates on the surface of the concrete. It is also important for polishing marble, terrazzo and granite.
 Many competitor machines don't have a tank. Check and see if it has a water tank.



Third front wheel

Third front wheel that offers the following advantages: • It makes for easy transportation. • It allows to regulate the working pressure. • It allows to inclination on the planetary head. • It is very useful when working on very uneven floors. Check if the competitors machine has the third front wheel.



Inverter with Display for fast diagnostics.

On the PANELL without opening the Inverter door it is possible to read the display to know what is happening with the machine. Check if this device is on the competitors machine.



PLANETARY HEAD

PLANETARY HEAD that is 100% tempered metal and geared driven not belt. The main disc and the satellites always run, allowing the machine to work very hard with high performance. The working pressure of the Planetary can be adjusted giving pressure on the front or on the backside. Giving more pressure in front the machine cuts faster and deeper. NO BELTS to break! Check what kind of Planetary they are using. The PALENTARY with BELT DRIVE doesn't have the same performance of metal geared. Furthermore it is subjected to break during the work and needs a lot of time to repair. Attention: in many machines the main disc and the satellite don't run together: if you block one satellite (one tools disc by hand) the main disc still runs. It means that using the machine for heavy duty work the machine doesn't have performance at all. For many machines it is not possible to be used inclined the Planetary and as result can work only in one position. Therefore cannot cut fast and deep resulting in very poor performance.



Steel Priority

Steel frame painted with metallic varnish. Aluminium carter covering the Planetary. The metal covering protects the diamond tools and allows it to work very close to the wall. Many competitors machines have Plastic coverings. It breaks very easily, it doesn't protect the diamond tools and doesn't allow you to work close to the wall. The machine will leave a lot of space untreated.

Why Choose Expander



Adjustable working head pressure

The pressure is adjusted by "ELECTRONIC DEVICE".

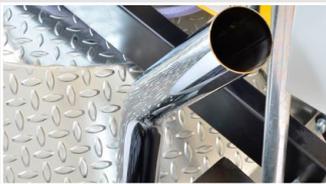
Many machines do not have an ELECTRONIC DEVICE but have to adjust the pressure adding weight manually.



Handle

Adjustable position of the handle for a comfortable working position. It also can be reversed to allow the operator to drive the machine from in front and not only from the rear.

Many machines cannot be used standing in the front but can be handled only from the rear



Dust control Optimized

Vacuum ports for working dry and Free of Dust.

Check if they have it.



Splash Guard

Strong Perimetral neoprene splash guard.

Check if they have.



Battery Engine (backup)

With a back up battery engine for remote control machines, you don't have to run a power supply or worry about pushing your machine from the vehicle or the jobsite. The battery charges while the machine is in use and hooked up to a power supply. This option allows you to load and unload the machine with ease and decreases the risk of injuries. Check to see if the competitors machine has such an option allowing you to move, load and unload the machine without risking injuries.



Effective weight distribution

Klindex design the motor directly over the top of the planetario with three well balanced heads for perfect balance and highest grinding pressure available (this balance allows it to work as well on marble/granite as it can on concrete) Many competitors machine can't work on marble.



Rigid head:

The planetario does not focus weight and pressure of the heads on the chassis to create a 'floating head', instead is a rigid system with very little flex (this design means the machine will 'bounce' a little over the floor until it is flat). ensures flattest floor possible and doesn't make the floor 'wavy'



Easy maintenance

Simply clean and grease machine every job.



No Belt!

Gears mean lower operating costs than competitors (belt changes are very expensive). Belts do not transfer torque as effectively as gears (less grinding pressure available).



Compact design

Expander650 allow it to work in domestic situation; tank motor and head are very compact and close together for work in small corridors.

Expander 1000: Evolution and Progress



Expander Accessories

BUSH HAMMER: is an exclusive special tool designed by **Klindex** for many applications.



SANDBLASTING: for Blasting Effect.



SERIES PDC SCRAPER to remove thick rubbery material and coating on floor.



SERIES PDC SUPER SKRAPER to remove thick rubbery material and coating on floor.



SERIES BT00 ARROW thin resin/paint removal on hard concrete.



SERIES BT for effective grinding and removing resin, glue and varnish.



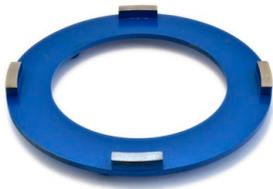
SERIES TCD DA00 levelling, coating removal on concrete.



SERIES DA for medium abrasive concrete.



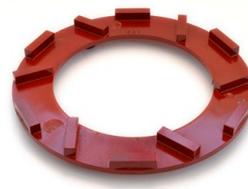
SERIES DT for medium hard concrete.



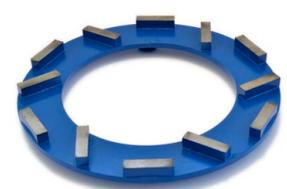
SERIES DD for hard concrete.



SERIES CA for abrasive concrete.



SERIES CF for asphalt and very abrasive concrete.



SERIES CS for polished superconcrete process.



SERIES SPRING HOLD SYSTEM special device developed for grinding and polishing concrete floors.



SERIES JUMPER GREEN manufactured for longer life and a better finish for polished concrete.



SERIES MS for grinding marble floors.



SERIES MK YELLOW for polishing marble.



SERIES MTS for grinding travertine, terrazzo, limestone, agglomerate and abrasive marbles.



SERIES ORANGE for polishing terrazzo, limestone and abrasive marble floors.



SERIES GS for grinding granite.



SERIES GK RED for polishing granite.



SERIES PAVELUX for removing mastic and grinding any very abrasive marbles or granites.



SERIES ANTIKE BRUSH the best way to produce an antique look on stone floors.



EASY KIT Complete Kit for Grinding and Polishing



VELCRO TOOL HOLDER



TRAPEZOID TOOLS ADAPTER



ABSORBER PAD HOLDER for grinding on very uneven concrete floors



PLATE ø240mm with 3 ATTACH ø100mm-AS

