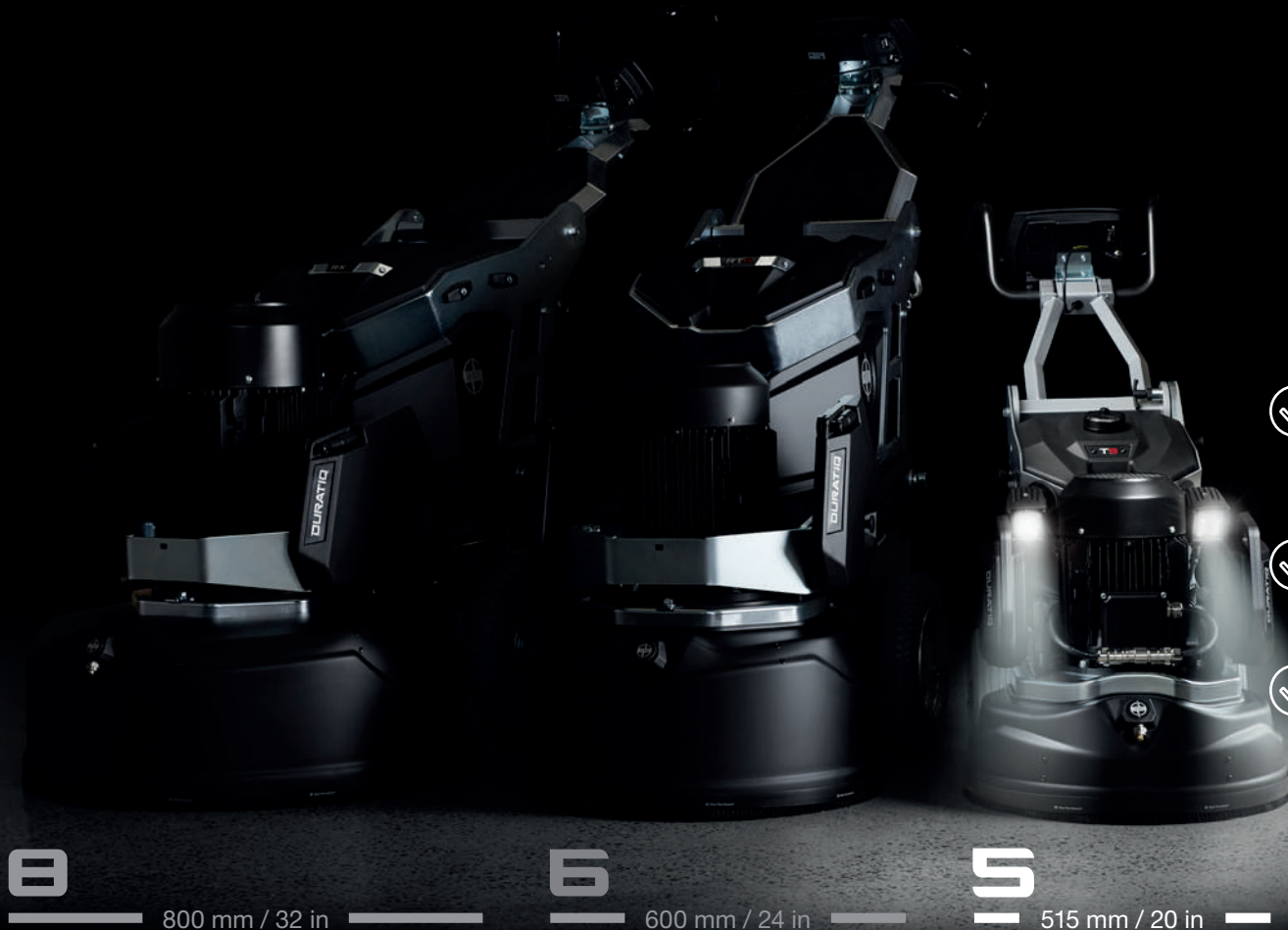


# DURATIQ™ 5

Ultra-compact DURATIQ™ technology



## POWER MEETS VERSATILITY



UP TO  
**152%**  
productivity increase  
with system synergies\*

- ✓ **Ultra-compact size and modular design for optimal ergonomics**
- ✓ **Available in 1-phase and 3-phase electrical variants**
- ✓ **DURATIQ technology including a digital HMI for maximum control of machine performance**

# DURATIQ™ 5

## POWER MEETS VERSATILITY

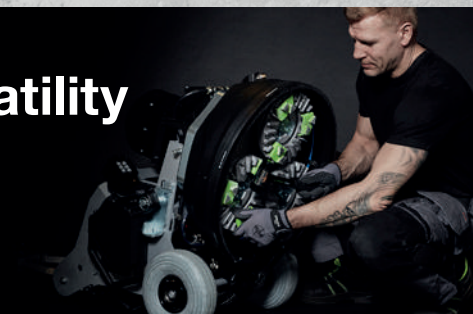
In September 2016, HTC set an entirely new standard for floor grinders with the new DURATIQ platform. HTC is now introducing a new addition to the series: HTC DURATIQ 5 – a unique combination of intelligence and raw power in a compact format.

The DURATIQ 5 is a floor grinder with unmatched versatility for professional users. With its ultra-compact size, it's a powerful tool for all types of grinding jobs in various environments, but without compromising on DURATIQ's unique technology.

Experience a machine that combines power and versatility with unmatched ergonomics.

\* Refers to productivity tests conducted with a HTC 420 and a HTC DURATIQ T5 2.2 kW fitted with the Mist Cooler System that produced 152% higher performance. The same test conducted with a HTC 500 and a HTC DURATIQ T5 4 kW fitted with the Mist Cooler System produced 86% higher performance.

P. 4-7  
**Versatility**



P. 8-11  
**Productivity**



P. 12-13  
**Reliability**



P. 14-15  
**Operability**





# One size. Two variants. Unlimited opportunities.

## 4.0 kW

~ 3-phase  
~ 1-phase

### ELECTRICAL VARIANTS

3 x 230 V 16 A / 1 x 230 V 30 A  
3 x 400 V 10 A  
3 x 480 V 10 A

### STANDARD

Weight package 2 x 20 kg  
AirFlow™ tool holder

### OPTION

Water package, MCS  
Lighting kit  
Cable  
Mug holder  
Phone holder



Shown with extra options.



Shown with extra options.

## 2.2 kW

~ 1-phase

### ELECTRICAL VARIANTS

1 x 230 V 13 A

### OPTION

Weight package 2x20 kg  
Water package, MCS  
Lighting kit  
Cable  
Mug holder  
Phone holder



# One machine. Many applications.

- ✓ **Concrete**
- ✓ **Coating removal**
- ✓ **HTC Superfloor™**
- ✓ **Terrazzo**
- ✓ **Wood/parquet**
- ✓ **Natural stone**
- ✓ **Limestone**
- ✓ **Granite**
- ✓ **Leveling compounds**

The DURATIQ 5 is a multi-functional floor grinder. Whether the job requires grinding away a stubborn coating, smoothing a wood parquet floor or transforming a concrete floor into a high-gloss HTC Superfloor™, the grinder is up for the task at hand. The grinding width of 515 mm (22.4 inches) is best suited for small and mid-size surfaces, and its compact dimensions enable the grinder to be used in tight quarters.

With the integrated weights (optional on the 2.2. kW model), three different grinding pressures are available to help ensure the maximum grinding pressure no matter what the application. The weights can be easily removed before transport for easier handling.

Are you new to floor grinding? The DURATIQ 5 is a perfect entry model, and along with HTC's broad assortment of tools, you'll be fully equipped for a variety of grinding jobs.

## Tools that make the difference

HTC's tool assortment includes tools for all conceivable grinding jobs - everything from coarse grinding to polishing. Compatible with the DURATIQ 5.

**> 120**  
various HTC tools  
compatible with DURATIQ 5

## EZchange™

Changing tools goes quickly with our EZchange system. All you need is a tap of a hammer to remove or mount new tools.





# Take control of performance

Just as the larger models (6 & 8), the HTC DURATIQ 5 is equipped with an intuitive digital control panel (or HMI as we call it, for Human/Machine Interface). It'll give you all the control and precision you'll ever need to maximize grinder performance.

DURATIQ's proven HMI makes the grinder extremely easy to control and use, especially for operators with limited experience.

The difference is like driving a car with or without a dashboard.



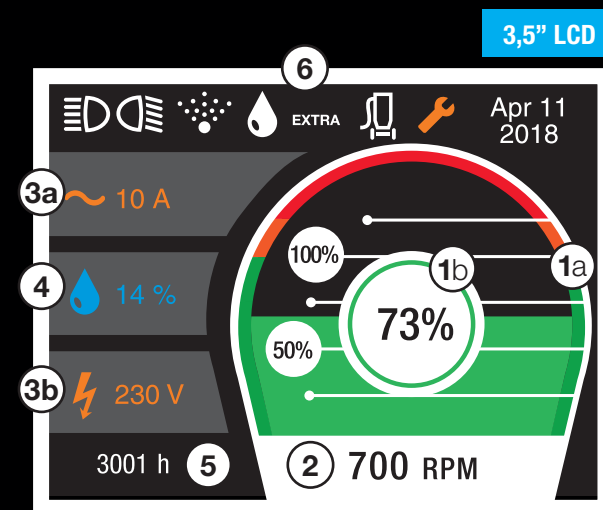
## USB & CHARGING

Download operational data, update software and charge your mobile devices.



## LOCK FUNCTION

Activate a PIN code for increased security and control of the machine.



## Intuitive and smart

1. Power meter.  
Shows available (1a) and used (1b) power.
2. Grinding disc RPM
3. Motor current (3a)  
Voltmeter (3b)
4. Water supply/  
Mist Cooler System or  
Overload Protection
5. Counter.  
Hours (h)/  
Kilowatt hours (kWh)
6. Activated functions, service  
indicator, error messages,  
clock, date



## Unique benefits within reach

- ✓ Operational info in real-time
- ✓ Control all functions from a single location
- ✓ Easy-to-use

# A power pack to reckon with

Having ample electrical power for a grinder is fundamental. But being able to extract maximum power from the available supply cannot always be taken for granted. With the DURATIQ 5, the frequency converter (VSD), electrical components, motor (IE3<sup>1</sup>) and grinding head interact so that as little energy as possible is lost.

Along with improved efficiency and precision, grinding performance increases to a level that is unique in the industry for this machine size.

The DURATIQ 5 can simply do more.

UP TO  
**78%**  
Increased productivity<sup>2</sup>

<sup>1</sup> IE3 motors are more efficient

<sup>2</sup> Refers to productivity tests conducted with a HTC 420 and a HTC DURATIQ T5 2.2 kW without Mist Cooler System that produced 78% higher performance. The same test conducted with a HTC 500 and a HTC DURATIQ T5 4 kW without Mist Cooler System that produced 7% higher performance.

# Water makes the difference

DURATIQ features a number of innovations that all interact to increase efficiency. One of the most important optional functions for the DURATIQ 5 model is the MCS (Mist Cooler System<sup>1</sup>). The system sprays a fine mist of water on the floor, which cools the diamond tools during grinding and significantly improves performance. The results are increased grinding efficiency and service life for your HTC Original Diamond Tools.

The MCS is included as a part of the water package option, which also enables wet grinding with external connection of water hoses.

## Mist Cooler System

- Wide water jet with optimized angle
- On/off via control panel
- Three different water flows
- Easily accessible nozzle
- Auto-venting pump

<sup>1</sup> Available as an option for both T5 2.2 kW and 4 kW.

<sup>2</sup> Refers to productivity tests conducted with a HTC DURATIQ T5 2.2 kW without MCS and a HTC DURATIQ T5 2.2 kW with MCS.

<sup>3</sup> Refers to productivity tests conducted with a HTC DURATIQ T5 4.0 kW without MCS and a HTC DURATIQ T5 4.0 kW with MCS.

## What is the difference?

**DURATIQ 5 - 2,2 kW**

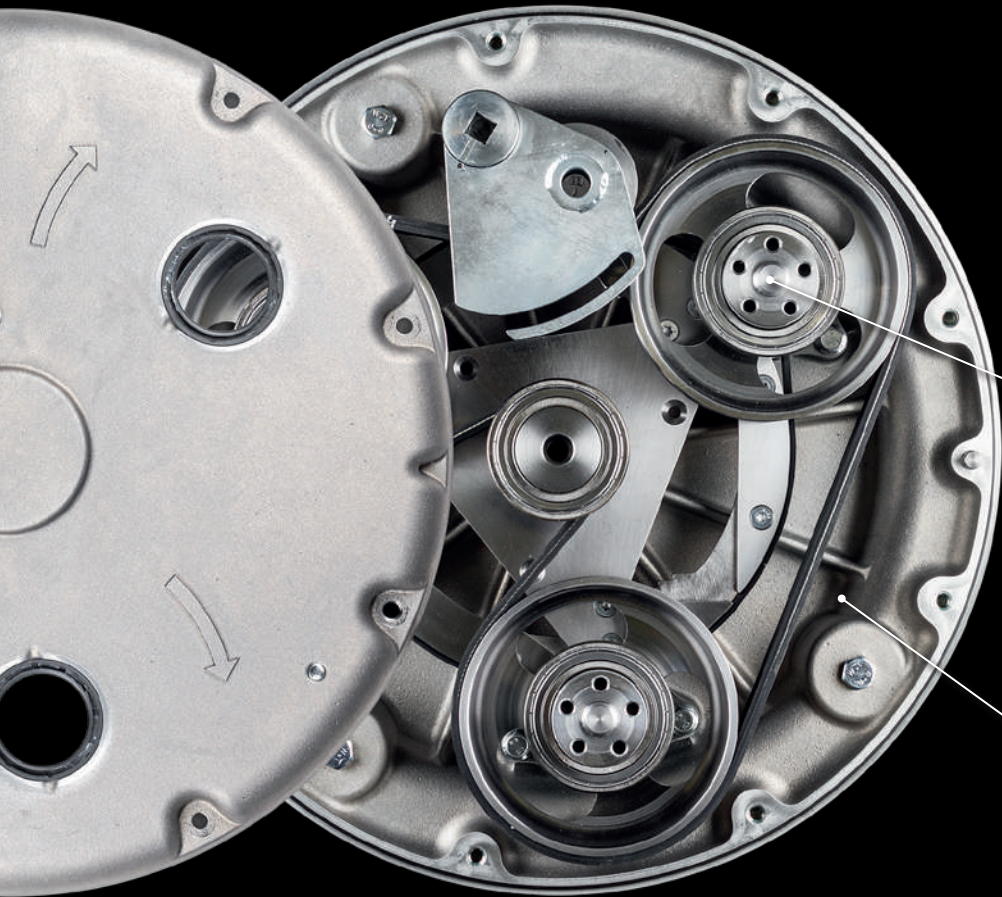
**41%**  
increased performance  
with MCS activated<sup>2</sup>

**DURATIQ 5 - 4,0 kW**

**74%**  
increased performance  
with MCS activated<sup>3</sup>



# Power and precision come from within



The actual heart of the DURATIQ 5, the grinding head, is based on the same innovative technology as the larger models 6 and 8. The dust-proof design and precision of the heavy duty components provide high reliability and increased precision for grinding results.

### Heavy duty components

Bearings and belts of very high quality along with high precision construction mean more operating hours and less downtime. Everything is hermetically sealed inside the grinding head to protect against dust and moisture. This means long service life for components.

### Precision-cast in two parts

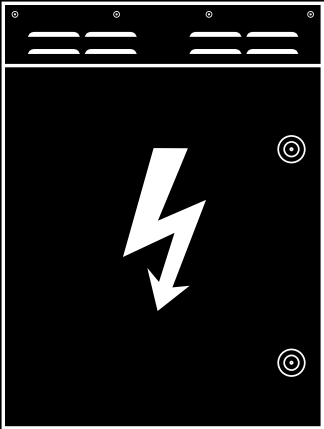
The entire head is cast in two parts with a precision fit, easy to open/dismantle. The parts are sealed with O-rings, to avoid messy sealants.

The new DURATIQ line is the most thoroughly tested machine in HTC's history. Three-thousand hours of meticulously monitored tests have been conducted both in test environments and under actual working conditions. Each component has been carefully selected to provide maximum reliability.

# Keep out dust and moisture

The electrical components on the DURATIQ 5 are neatly organized in a newly designed, dustproof cabinet. This significantly improves both reliability and serviceability.

Despite the fully sealed design, heat is kept at a lower level than in conventional electrical cabinets. You can also keep an eye on heat levels via the HMI panel and avoid downtime.

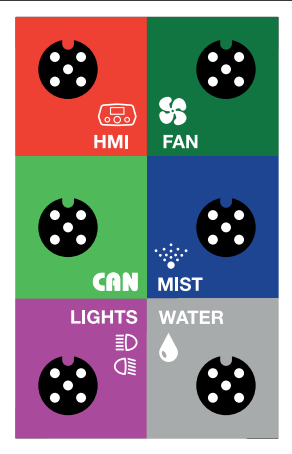


- 1. Dustproof cabinet**  
A sealed cabinet with external cooling keeps dust on the outside.
- 2. Less heat**  
Less heat produced in the cabinet significantly increases the service life of electrical components.
- 3. Fewer components**  
Fewer components in the cabinet mean less downtime and easier service.

**1000 hrs**  
Service interval  
1000 hours/1 year\*

\*Whichever occurs first.

**> 3000**  
hours of testing



### External panel for making connections

Easily connect equipment without needing to open the electrical cabinet.



# Versatile. And ergonomic.

The DURATIQ 5 is based on an entirely new chassis design with full attention to the center of gravity, adjustable weights, maneuverability and feel. This makes the DURATIQ 5 easier to operate, with better ergonomics and increased safety. The compact format and smart solutions, like the modular design and the possibility to retract the handlebar and weights, also make the DURATIQ 5 easier to transport. Who says that floor grinding has to be strenuous?

## MODULAR

The chassis is easily separated from the grinding head prior to transport. Quick coupling for motor cable.

## ERGONOMIC CARRYING HANDLES

Ergonomically designed handles are easy on the hands and facilitate lifting.

## LINE OF SIGHT

Compact design provides a better line of sight when grinding.

## LED LIGHTING

Three strong, freely positioned LED lamps provide great workplace lighting.

## LARGE, SOFT WHEELS

Large, soft, puncture-proof wheels make thresholds and stairs easier to navigate.



## REMOVABLE WEIGHTS, 2x20 kg

Ergonomically designed weights are easy to lift on and off. Large handles make them easy to handle. Stable on flat surfaces.

**20**  
variable handle  
settings

Chassis weight  
(2.2 / 4 kW)

**50/57** kg

Grinding head weight  
(2.2 / 4 kW)

**72/82** kg

Extra weights  
(Standard on 4 kW)

**40** kg

TOTAL WEIGHT  
(4 kW incl. extra weights)

**179** kg



# How to configure your DURATIQ T5

1

Choose basic model

⚡

Electrical variant

2


Choose optional function

💧


Water package  
Mist Cooler System  
and wet-grinding

3


Choose accessories




Lighting package




Weights, 2x20 kg



Electrical cable



Mug holder



Phone holder

T

Three grinding heads

S

Grinding width 515 mm



## Technical specifications

Model		HTC DURATIQ T5 2.2 kW	HTC DURATIQ T5 4.0 kW
Motor power	kW	2.2	4.0
Electrical variant		1 x 200-240 13 A	1 x 200-240 V, 30 A 3 x 200-240 V, 16 A 3 x 380-415 V, 10 A 3 x 440-480 V, 10 A
Total machine weight	kg	122	179
Chassis weight (incl. any weights)	kg	50	97**
Grinding head weight	kg	72	82
Grinding width	mm	515	515
Grinding pressure	kg	70*	78-88-119**
RPM, grinding discs	RPM	360-1200	360-1200
Water tank	l	2.9 l#	2.9 l#
Grinding discs	Ø mm	3 x 230 mm	3 x 230 mm
Recommended minimum cable area	mm²	2.5	6/2.5

\* Weight package available as option and enables grinding pressure in three modes: 70, 88 and 119 kg  
\*\* The model is equipped with weight package as standard  
# Water tank included with water package option



# >75 new functions

DURATIQ 5 brings together HTC's extensive experiences with a completely new approach to all components.

## Grinding head

**Longer service interval**  
Longer service interval of 1,000 hrs.

**Increased torque**  
More torque means a stronger machine and improved grinding process.

**Stable grinding head**  
Two-part grinding head in cast aluminum produces less vibration and a more uniform scratch pattern.

**Sealed grinding head**  
Hermetically sealed grinding head protects essential components from moisture and dust. Dual sealing for moving parts.

**New improved bearings**  
The bearings have extended service life just like earlier DURATIQ models.

**Auxiliary bearings**  
Auxiliary bearings on each grinding shaft stabilize and increase service life.

**O-ring**  
O-ring seals the grinding head to make it easy-to-open/close the grinding head without the use of messy sealing agents.

**Easily opened grinding head**  
Easy grinding head access saves considerable time during service.

**Enclosed belts**  
Belts protected by a dust-free and moisture-free enclosure provide longer service life.

**Long-lasting belts**  
Multi-rib belts for long service life.

**Automatic belt tensioning**  
With the elastic secondary belt, correct tension is always assured.

**Simple belt tensioning function**  
Easily tension the primary belt without opening the grinding head.

**Newly designed grinding cover**  
Newly designed grinding cover without seals, makes it easier to clean.

**Grinding cover with improved dust collection**  
Better dust collection with newly developed floating grinding cover.

**New wear-resistant dust outlet**  
Optimal discharge flow for dust with new dust outlet that is easy to clean and replace as necessary.

**Heavy duty grinding holder bracket**  
Improved durability and easier to change. Same as DURATIQ 6 & 8.

**New bushings between chassis and grinding heads**  
Bushings with more rubber reduce vibration.

**Ergonomic lifting handles**  
Ergonomic handle design facilitates moving grinding heads.

**Same grinder holder and tools**  
Same 230 mm grinding holder as DURATIQ 6. Also enables use of all EZchange tools.

## Chassis

**Balanced center of gravity**  
Easy to tilt the machine for tool replacement.

**Integrated weights**  
Balanced and easy-to-handle weights with 3 different positions (forward, reverse and removed).

**Lifting points**  
Integrated lifting points on chassis.

**Tensioning points**  
Integrated tensioning points on chassis.

**Reliable wheels**  
Large and soft solid wheels do not get flats.

**Tires that leave no marks**  
High quality rubber that doesn't leave marks on the floor.

**Compact design**  
Shorter wheelbase and more compact design mean better line of sight and tighter turning radiuses compared to the previous HTC 420 model.

**20 different settings**  
Four rough adjustments and five fine adjustment steps for the handlebar brace.

**Variable settings for handlebar**  
Easy to find right position with variable fine adjustment of handlebar. Handlebar can be gripped in many different ways.

**Suspended mug holder accessory**  
Place drinks in freely suspended holder on the handlebar.

**Phone holder accessory**  
Holder that fits most phone models.

**Electrical connector with cable accessories**  
Easier cable handling when tilting the machine, for example.

**Cover with quick fastener**  
The cover fastens with a magnetic lock and can be easily opened, which saves time during service.

**New placement of camlock connection**  
Keep the hose connected to dust extractor during tool replacement.

**Flexible hose handling**  
Free placement of dust hose using adjustable strap.

## Electrical

**Fewer unique electrical components per model**  
Simplifies inventory management and troubleshooting.

**IE3 motor**  
Higher motor efficiency. Machine uses less power for same amount of work.

**More energy efficient**  
Uses less power for same amount of work compared to previous models (HTC 420/500).

**Sealed electrical cabinet**  
External cooling means a dust-proof cabinet and lower heat, which increases reliability and extends component service life.

**Warning for high electrical cabinet temperatures**  
Temperature sensor warns of overheating via the HMI display.

**UL approved and certified**  
Complies with UL standard for US and Canadian markets.

**24 VDC control voltage**  
Makes machine safer and with fewer components.

**Frequency converter of highest quality**  
Vector-controlled for more torque.

**CAN bus electrical system**  
Future-safe and reliable electrical system.

**Standard fuses**  
All fuses are ATO midi type.

**Strain relief**  
Electrical cable connection with strain relief.

**Quick connectors for electrical accessories**  
Connect accessories, such as lights, without opening the electrical cabinet.

**Integrated EMC filter**  
Produces low leak currents and minimizes problems with ground fault breakers.

## HMI

**3.5-inch color display**  
One display for all machine information and settings at a single location.

**Power meter**  
Shows available and actual power.

**RPM counter**  
Allows operator to control grinding head speeds.

**Dual counter**  
Shows total machine hours and kWh.

**Warning signals in symbol and text format**  
Clear warnings about operational problems on the screen prevent possible breakdowns.

**Service indicator**  
Information about service requirements. More information available via QR codes for digital support page on Internet

**Multi-faceted USB port**  
Recharge a phone, upgrade software or export log data.

**Choose direction of rotation**  
Option to choose direction of rotation for grinding discs.

**Remote connection of dust extractor**  
Turn off and on, clean the filter and receive information from the dust extractor via the HMI panel.

**PIN code**  
Block the machine from use by unauthorized persons with a PIN code.

**Adjustable display**  
Easily adjust the angle of the HMI display.

**Choose units of measurement**  
Display in either metric or imperial units of measurement.

**Time and date**  
Time and date display on control panel.

**Input voltage**  
Gauge for input voltage provides overview of network quality, connecting cables, etc.

**Motor current**  
Gauge for motor current shows actual torque.

## Water

**Water flow control**  
The water volume used during wet-grinding can be controlled from the HMI panel. Automatic on/off during grinding.

**Water hoses with quick couplings**  
Easy to check.

**Water connection**  
Easy access to water connection with quick coupling. Connected directly to water line.

**Easily accessible water filter**  
Easily accessible, transparent water filter under service cover.

**Enclosed water tank**  
Water tank with cap protects the system against dust. Easy to drain.

**Water level indicator**  
Warning for low water level via HMI panel on the machine.

**Retrofitting of water package**  
Choose water package as option or install later. Water package includes MCS system.

**Airless MCS system**  
No need for venting the MCS system.

**New MCS pump**  
New self-venting water pump (24 VDC) with longer service life, more power and higher flow.

**MCS with three flow modes**  
Controls water flow in three modes for Mist Cooler System (low, medium, high).

## Light

**Lighting control**  
Turn the lights on and off individually, front and back, via the control panel on the machine or remote control.

**Flexible LED lighting accessory**  
Magnetic attachment and long spiral cables for flexible use.

**Retrofitting of lighting package**  
Choose the lighting package as an accessory. Retrofitted.





# AN ULTRA-COMPACT POWER PACKAGE

The DURATIQ 5 is a compact package of power that combines power and versatility in an entirely new way. Ultra-compact and at the same time fully equipped with the latest DURATIQ technology, the machine can handle even the toughest grinding jobs.

It's never been simpler – or more effortless  
– to achieve impressive results.

[www.duratiq.com](http://www.duratiq.com)



**HTC**  
Professional  
Floor Systems

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