

OVERVIEW OPERATION



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Brewing module

1 or 2 grinders. The stainless steel brewing unit guarantees top coffee taste.



Hydraulic module

Hot water preparation, water distribution, coffee boiler, pump, valve block.



Steam module

High capacity 4-litre boiler for continuous unlimited steam and hot water supply.

The Module System

BLACK&WHITE3 is a modular assembly. Maintenance can thereby be carried out quickly and cost-effectively. All three modules are exchanged in an instant - that is unique for coffee machines.

Models



The CT (Coffee/Tea) - The basic model:

- Coffee, hot water
- Grinder 1 integrated, grinder 2 optional
- Touch Screen operation
- Random programming of choice of products
- Fully automatic cleaning system

Capacity:	240 espresso, 200 coffees, 100 teas / h
Connection:	230V / 50-60Hz / 2800W / 13A
Dimensions:	350x600x700mm (w/d/h)
Weight:	55kg

The CT prepares coffee and hot water and its mere 350 mm in width allows to fit on any countertop.



The CTS (Coffee/Tea/Steam):

- Coffee, hot water, steam
- Grinder 1 integrated, grinder 2 optional
- Touch Screen operation
- Random programming of choice of products
- Fully automatic cleaning system

Capacity:	240 espresso, 200 coffees, 240 teas / h endless steam supply
Connection:	230/400V / 50-60Hz / 6900W / 30/13A
Dimensions:	516x616x696mm (w/d/h)
Weight:	78kg

The CTS model is the right choice for traditional milk preparation with steam.

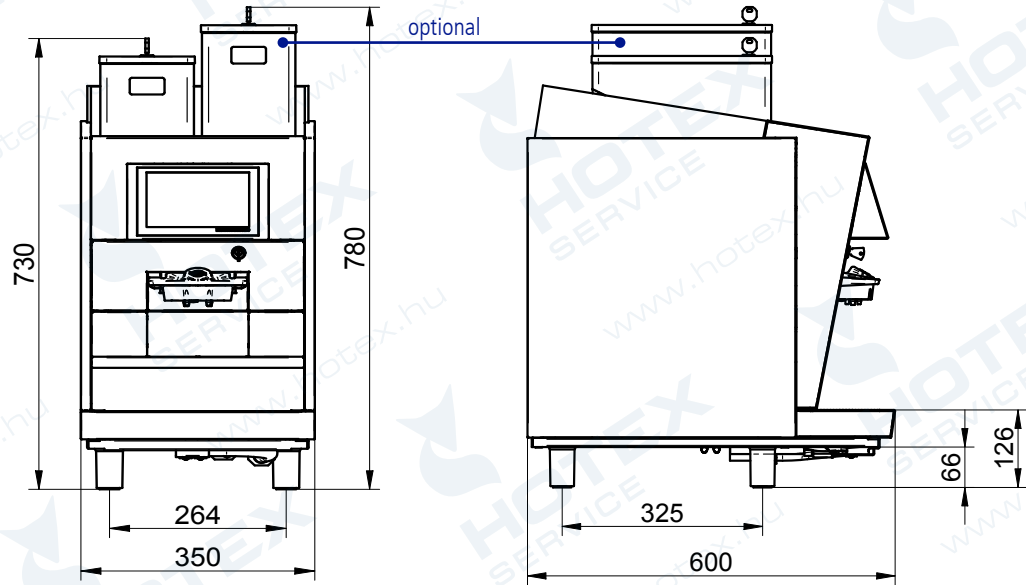


The CTM (Coffee/Tea/Milk):

- Coffee, hot water, milk, foam
- Grinder 1 integrated, grinder 2 optional
- Touch Screen operation
- Random programming of choice of products
- Fully automatic cleaning system

Capacity:	240 espresso, 200 coffees, 100 teas, 130 cappuccino, 140 lattinos / h
Connection:	2x230V / 50-60Hz / 2800W/100W / 13/1A
Dimensions:	600x600x700mm (B/T/H)
Weight:	77.5kg

Whether hot or cold, the CTM makes preparing coffee or milk specialties a success.



BLACK&WHITE3 represents another innovation from Thermoplan.

The CT prepares coffee and hot water and its mere 350 mm in width allows to fit on any countertop.

Execution:

- Modular assembly
- Stainless steel brewing unit
- Heavy-duty aluminium grinder with ceramic burrs
- Chrome plated steel front panel
- Touchscreen with LCD display

The module system

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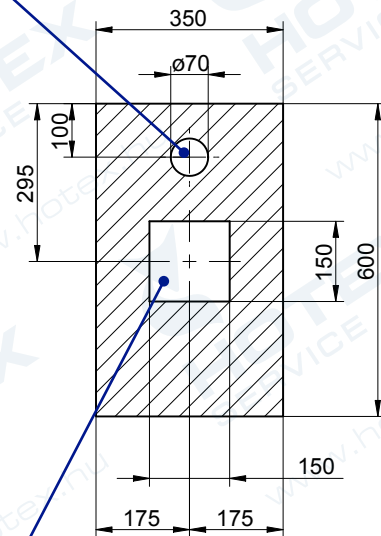
Modern operational concept

The large, colourful touchscreen flexibly supports all products and can be adapted to your special requirements.

The cleaning key makes care easy.

All work steps, such as filling the beans, emptying the grounds drawer or starting the automatic cleaning process are easy to operate.

Hole diameter 70mm for water inlet and outlet
Also possible for electric cords



Hole 150x150mm for coffee grounds drawer,
special grounds drawer needed

The unit requires a water connection of 3/8-inch. Pressure 2-4 bar / 30-60 psi

Capacities	240 Espresso, 200 coffee, 100 Tea / h
Bean hoppers	1.5kg each, optional 2.2kg
Connection	230V / 50-60Hz / 2800W / 13A 208V / 50-60Hz / 2300W / 11A
Dimensions	350x600x730mm (WxDxH)
Weight	55kg

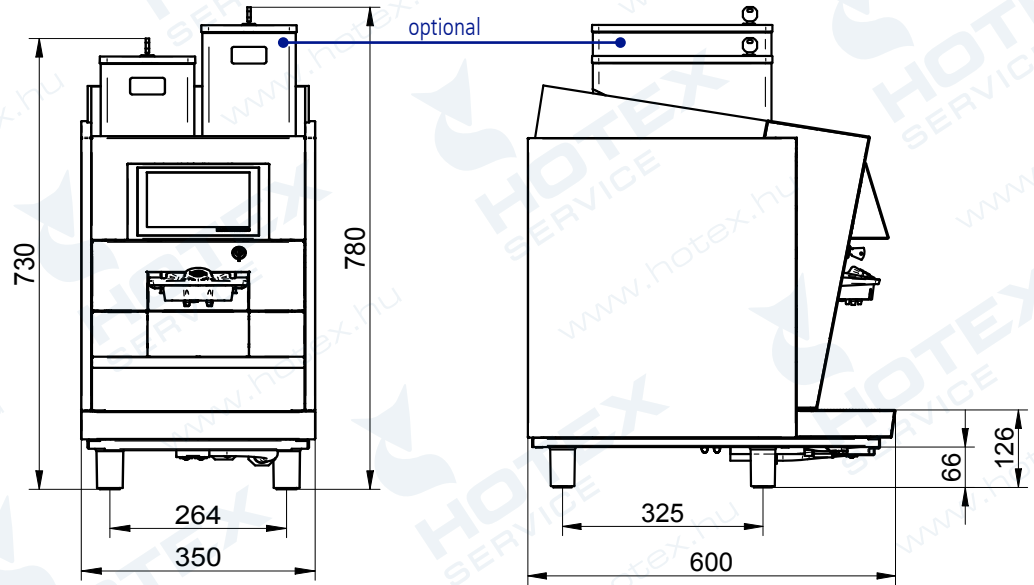
Chlorine	None
TDS	70 to 200 ppm
Hardness	5 - 8° dH (8 - 14° fH)
pH	6.8 to 7.4
Alkalinity	less than 100 ppm
Iron	less than 0.25 ppm

Conversion table „Water hardness“

Water Hardness	German	French	Englisch	Ppm	Mval/l
1° dH	1.0	1.79	1.25	17.8	0.357
1° fH	0.56	1.0	0.7	10.0	0.2
1° e	0.8	1.43	1.0	14.3	0.286
1° ppm	0.056	0.1	0.07	1.0	0.02
1 mval/l	2.8	5.0	3.5	50.0	1.0

CUT SHEET CTM WITHOUT REFRIGERATOR

SECTION 1



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Execution:

- Modular assembly
- Stainless steel brewing unit
- Heavy-duty aluminium grinder with ceramic burrs
- Chrome plated steel front panel
- Touchscreen with LCD display
- New „Wendel“ milk system

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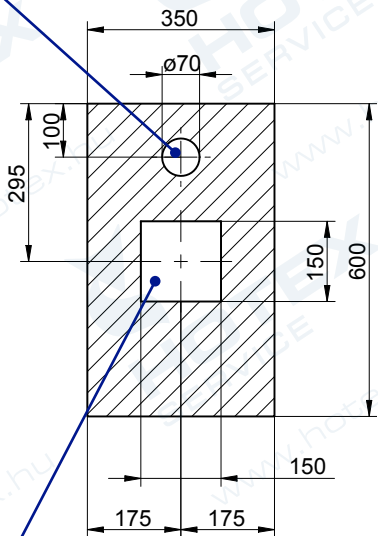
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Hole 150x150mm for coffee grounds drawer,
special grounds drawer needed

Capacities	240 espressi, 200 coffee, 100 tea, 130 cappuccino, 140 lattino / h
Bean hoppers	1.5kg each, optional 2.2kg
Connection	230V / 50-60Hz / 2800W / 13A 208V / 50-60Hz / 2300W / 11A
Dimensions	350x600x730mm (WxDxH)
Weight	55kg

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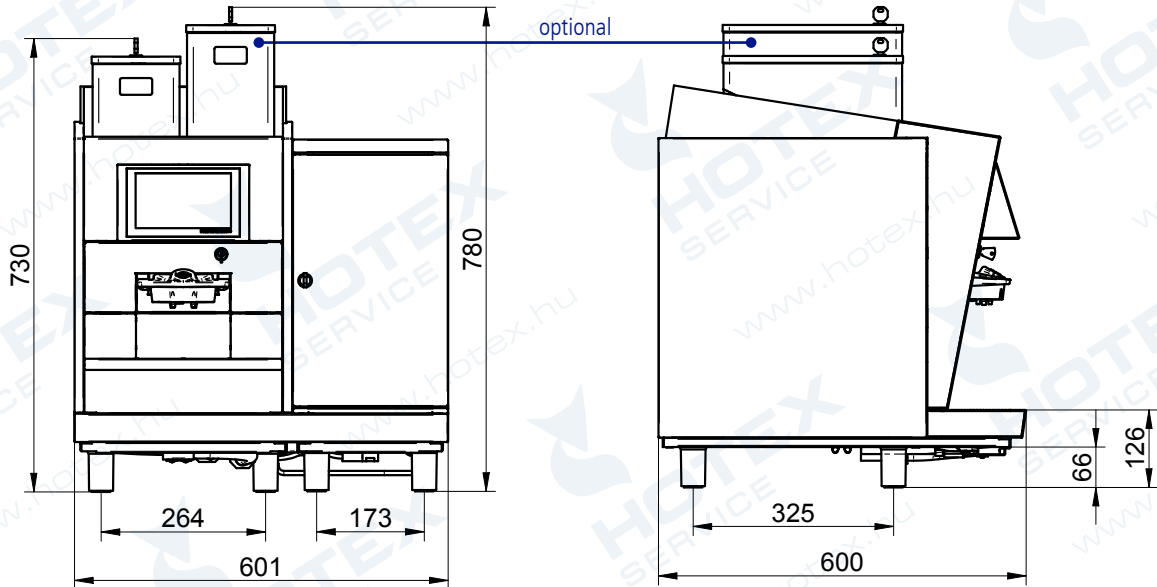
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CUT SHEET CTM WITH REFRIGERATOR

SECTION 1



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Whether hot or cold, the CTM makes preparing coffee or milk specialties a success.

Execution:

- Modular assembly
- Stainless steel brewing unit
- Heavy-duty aluminium grinder with ceramic burrs
- Chrome plated steel front panel
- Touchscreen with LCD display
- New „Wendel“ milk system

The module system

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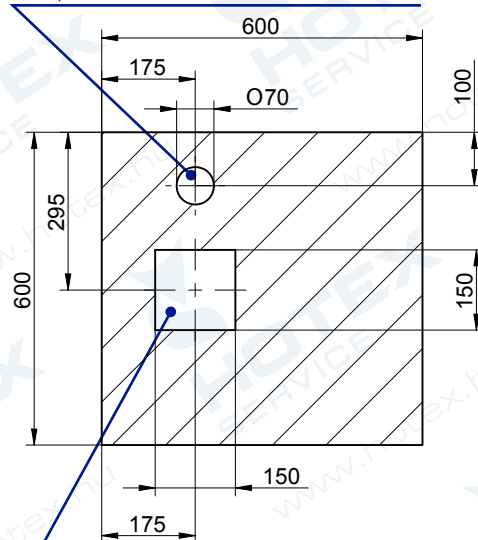
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special grounds drawer needed

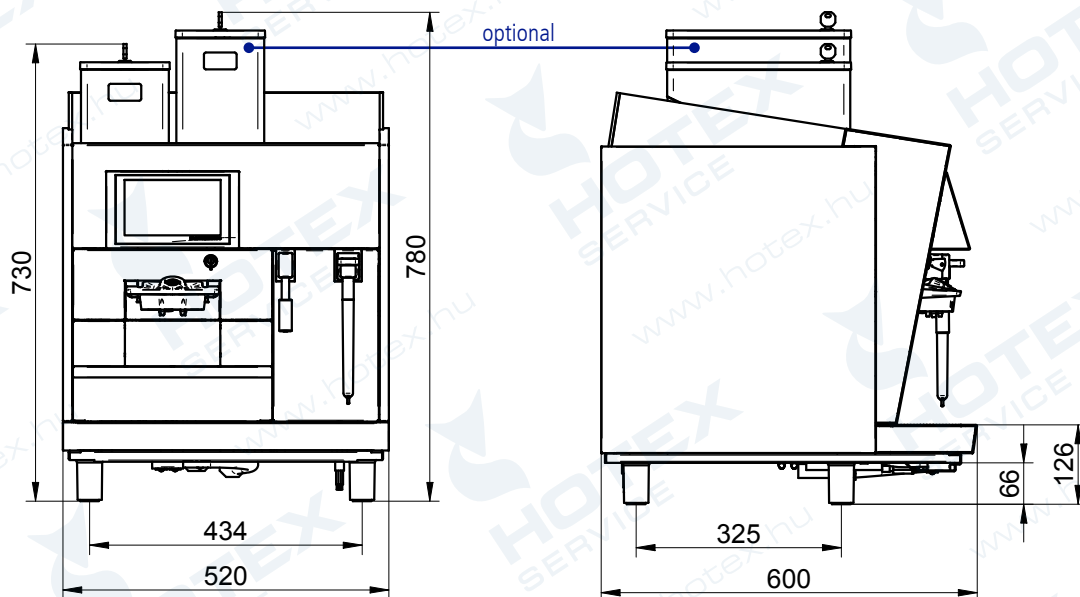
Capacities	240 espressi, 200 coffee, 100 tea, 130 cappuccino, 140 lattino / h
Bean hoppers	1.5kg each, optional 2.2kg
Connection	230V / 50-60Hz / 2800W / 100W / 13A 208V / 50-60Hz / 2300W / 100W / 11A
Dimensions	601x600x730mm (WxDxH)
Weight	77.5kg

The unit requires a water connection of 3/8-inch. Pressure 2-4 bar / 30-60 psi

Chlorine	None
TDS	70 to 200 ppm
Hardness	5 - 8° dH (8 - 14° fH)
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The CTS model is the right choice for traditional milk preparation with steam.

Execution:

- Modular assembly
- Stainless steel brewing unit
- Heavy-duty aluminium grinder with ceramic burrs
- Steam pipe made of Peek™
- Manual and automatic steam output
- Chrome plated steel front panel
- Touchscreen with LCD display

The module system

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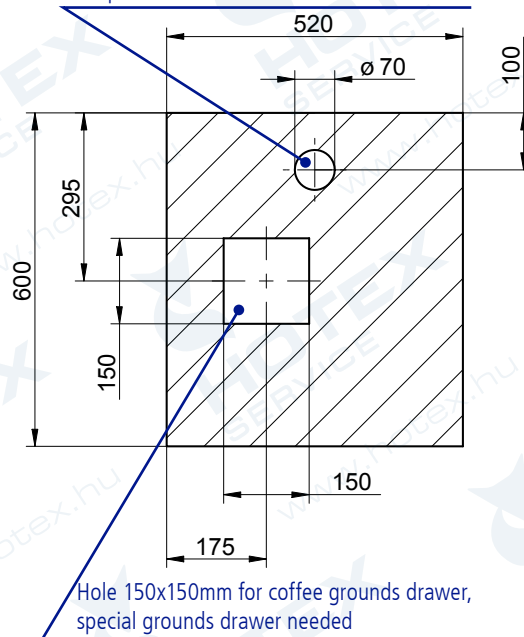
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Capacities	240 espressi, 200 coffee, 240 tea, endless steam supply
Bean hoppers	1.5kg each, optional 2.2kg
Connection	230V / 50-60Hz / 6900W / 30A 400V / 50-60Hz / 6900W / 13A
Dimensions	520x600x730mm (WxDxH)
Weight	78kg

The unit requires a water connection of 3/8-inch. Pressure 2-4 bar / 30-60 psi

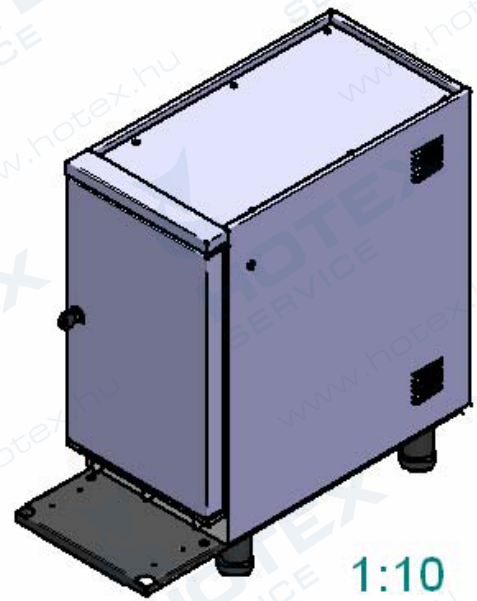
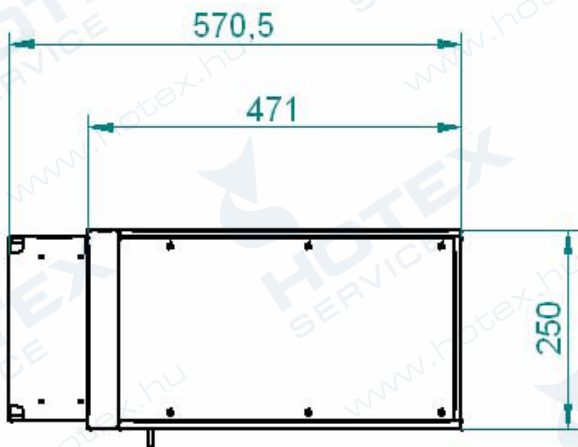
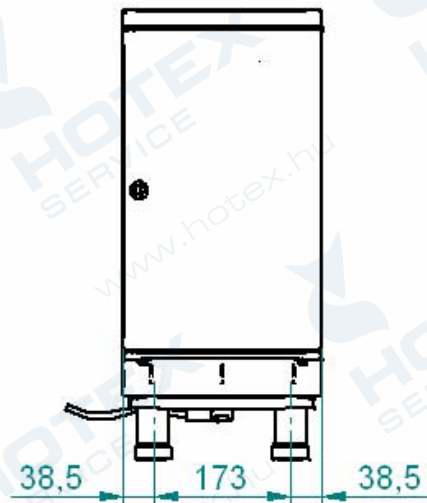
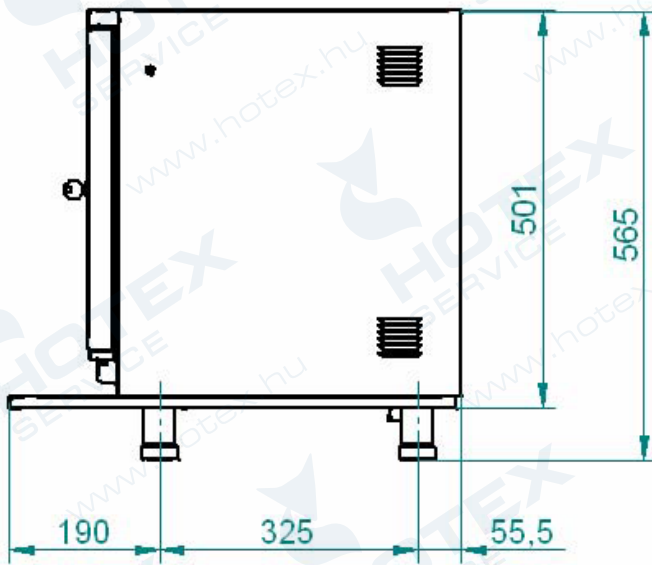
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CUT SHEET REFRIGERATOR

SECTION 1



Capacities	Storage of up to 5 litres cold milk
Connection	230V / 50-60Hz / 100W / 0.5A 208V / 50-60Hz / 100W / 0.5A
Dimensions	250x570x565mm (B/T/H)
Weight	25kg

CT

Bean hopper mill 2

Bean hopper mill 1

Touchscreen



Coffee outlet

Coffee grounds container

Drainage tray grill

Drainage tray

CTS

Bean hopper mill 2

Bean hopper mill 1

Touchscreen



Coffee outlet

Coffee grounds container

Drainage tray grill

Hot water outlet

Drainage tray

Steam outlet

CTMcool

Refrigerator with milk container

Bean hopper mill 2

Bean hopper mill 1

Touchscreen



Coffee outlet

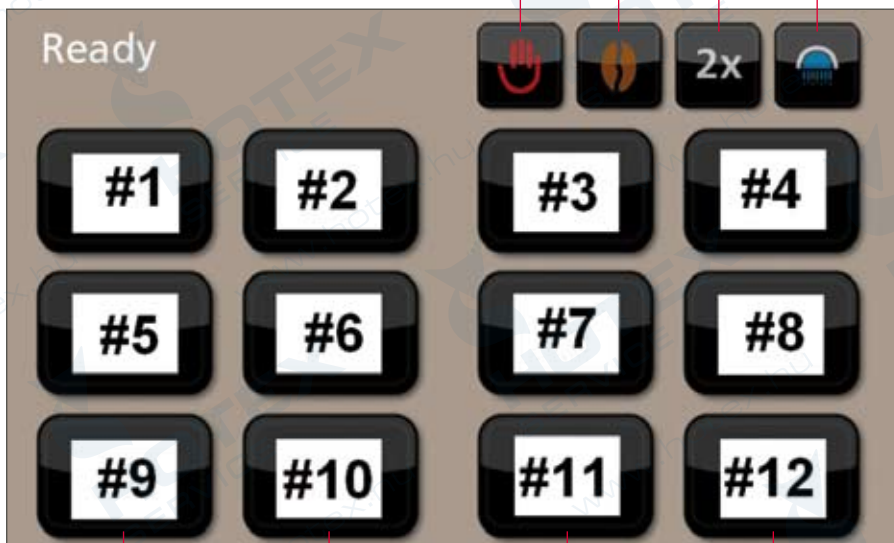
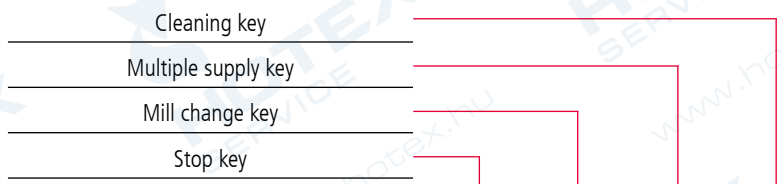
Milk outlet

Coffee grounds container

Drainage tray grill

Drainage tray

Function keys



Product selection keys