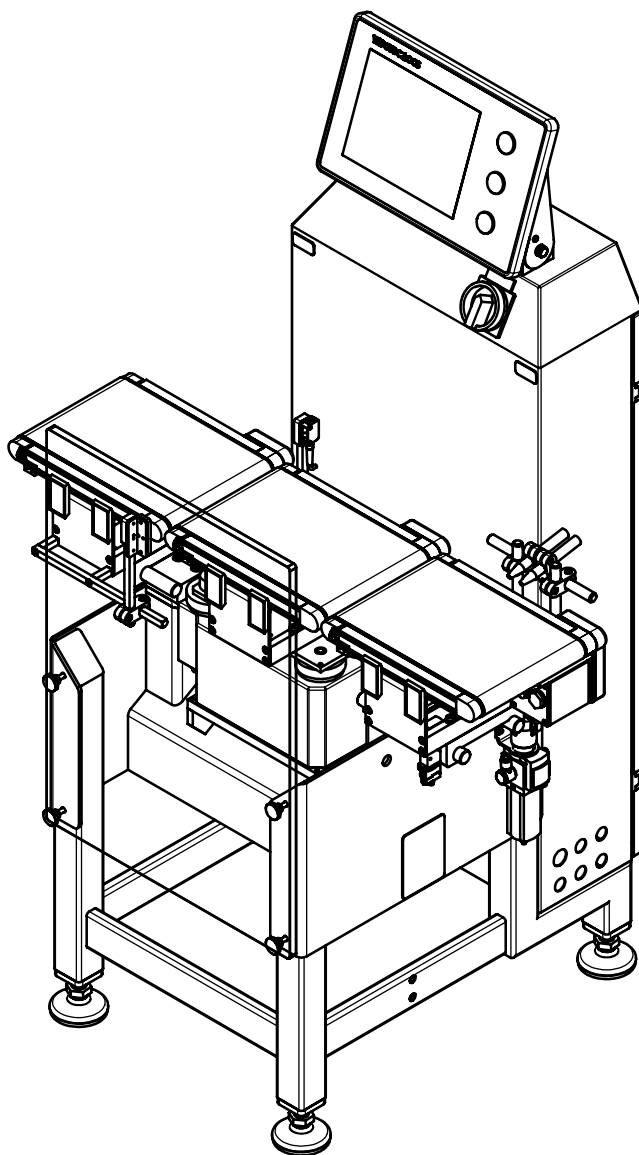


# HC-M

TECHNICAL DATA



# HIGH PRECISION WEIGHING FOR MEDIUM SPEED APPLICATIONS

**HC-M BASIS**

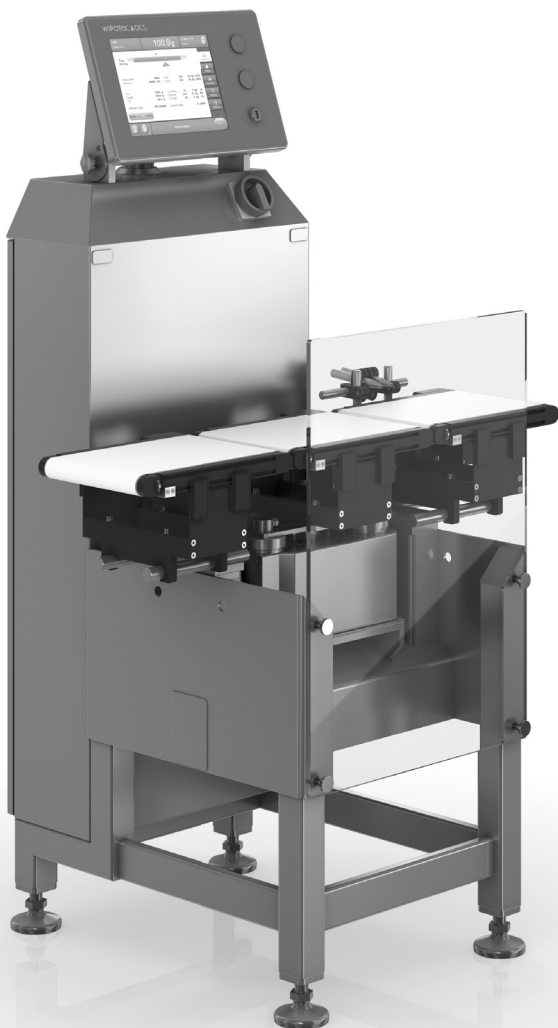
The dynamic **HC-M** checkweigher is the ideal medium speed weighing solution for a wide range of checking, regulation and control tasks. The HC-M checkweighers are the next step up on the performance curve from the entry level EC-E machines. HC-M machines are capable of 250 weighing operations per minute.

The HC-M checkweigher offers you operator-friendly solutions. It doesn't matter whether you want to check the current actual weight, carry out a completeness check on your products or perform sorting or classification. The sturdy base frame made of stainless steel enables high weighing accuracy at medium

belt speeds or throughput rates. Checkweighers from WIPOTEC-OCS are a byword for 100% product monitoring.

The lightweight, patented conveyor systems and the particularly carefully coordinated drive concept ensure optimum smoothness with quiet running and

fast, safe product transport. Individually adapted solutions can be implemented in a modular fashion for a wide range of product shapes. A sophisticated and wide spectrum of sorting devices (e.g. pusher, air blast nozzles) is available to reject products with incorrect weight reliably and without disturbing production.



## MAIN FEATURES

- ✔ Entire machine in stainless steel housing with infeed, weighing, and outfeed belts (NT30)
- ✔ One sorter attachment (air blast)
- ✔ Maintenance-free servo drives
- ✔ Certified (MID)
- ✔ WIPOTEC EMFR Weigh Cells
- ✔ Simple, menu-directed operation on 10.4" colour TFT touchscreen
- ✔ Memory for 100 product parameters
- ✔ Easy, tool-free exchange of belts and conveyors
- ✔ Flexible integration in production lines
- ✔ Line synchronisation with potential-free I/O signals
- ✔ Extensive statistical functions/histograms for production documentation

## YOUR BENEFITS

- ✔ Maximum throughput 250 pcs/min
- ✔ Exact fill results for higher productivity
- ✔ Efficiency improvement through simple and user-friendly controls
- ✔ Requirements-based modularity for the greatest flexibility

# TECHNICAL DATA

## HC-M BASIS

### BASE DATA

<b>Material of machine</b>	Frame stainless steel V2A/AISI 304
<b>Machine weight (standard application)</b>	230 kg
<b>Shipping weight (standard application)</b>	300 kg
<b>Protection class</b>	IP54 <sup>1)</sup>
<b>Temperature range</b>	+5 °C to +40 °C
<b>Display and operation</b>	Tilttable 10,4" colour TFT display with touchscreen
<b>Available dialog languages</b>	Bosnian, Chinese, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Latvian, Lithuanian, Polish, Portuguese, Russian, Slovak, Slovenian, Spanish, Swedish, Turkish (other languages on request)
<b>Interfaces <sup>2)</sup></b>	Optionally: Ethernet, OPC, Profibus, ProfiNet, EtherNet/IP, RS232, RS422, RS485
<b>Max. output <sup>3)</sup></b>	250 pcs/min
<b>Digital I/O</b>	8xI + 8xO (optionally extendible)
<b>Product parameter storage</b>	100 PPS (optionally 200 / 400 PPS)
<b>Drive</b>	Servo-Technology
<b>Noise level <sup>3)</sup></b>	A-weighted emission sound pressure level under 70dB(A)
<b>Rated voltage</b>	L1/N/PE; 100-240 VAC
<b>Rated frequency</b>	50/60 Hz
<b>Connect load (power capacity)</b>	Approx. 0.8 kVA
<b>Compressed air supply (option)</b>	6 bar approx. 16NI/min quality class (according to ISO 8573-1) [5:3:3]
<b>Possible maximum numbers of connected motors</b>	3 motors (optionally 2 extendible)
<b>EU-type examination certificate</b>	DE-18-MI006-PTB001 (MID)

### WEIGHING DETAILS

	<b>Weigh Cell (Type)</b>	<b>GWR (Gross weighing range)</b>	<b>Dead load max.</b>	<b>e (Min. calibration value)</b>	<b>d (Displayed value)</b>	<b>Standard deviation <sup>3)</sup> (1s)</b>	<b>n (Scale division)</b>
<b>HC-M-2000-2</b>	<b>EC-2000-2</b>	750 g	4,000 g	≥ 0.1 g	≥ 0.01 g	from 100 mg	7,500
<b>HC-M-2000-1</b>	<b>EC-2000-1</b>	1,500 g	4,000 g	≥ 0.2 g	≥ 0.02 g	from 100 mg	7,500
<b>HC-M-3000-3</b>	<b>EC-3000-3</b>	1,500 g	8,500 g	≥ 0.2 g	≥ 0.02 g	from 100 mg	7,500
<b>HC-M-3000-2</b>	<b>EC-3000-2</b>	3,750 g	8,500 g	≥ 0.5 g	≥ 0.05 g	from 100 mg	7,500
<b>HC-M-3000-1</b>	<b>EC-3000-1</b>	7,500 g	8,500 g	≥ 1.0 g	≥ 0.1 g	from 100 mg	7,500
<b>HC-M-4000-2</b>	<b>EC-4000-2</b>	7,500 g	15,000 g	≥ 1.0 g	≥ 0.1 g	from 100 mg	7,500

1) Water from above, for IP65 full protection, see VA-application or WD-application (IP69K)

2) Optionally, surcharge

3) Depending on product shape, product behavior, transport speed and environmental condition

# TECHNICAL DATA

HC-M BASIS

## CONVEYOR DIMENSIONS

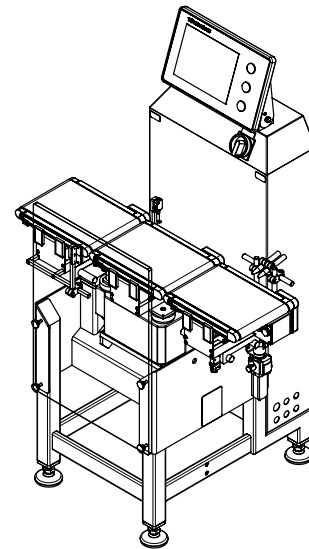
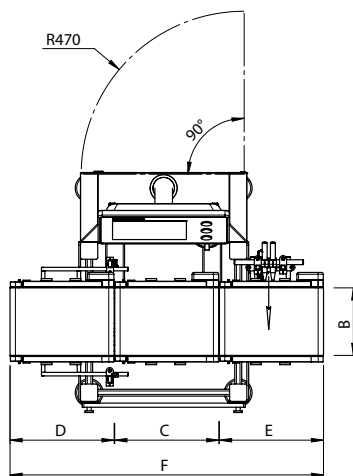
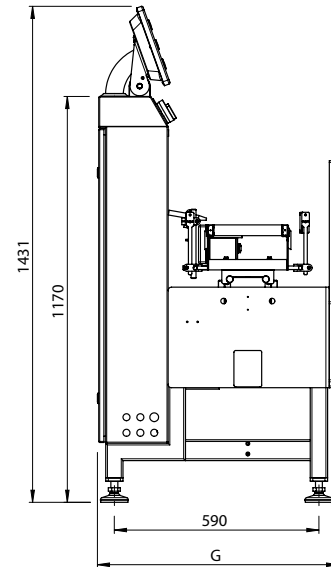
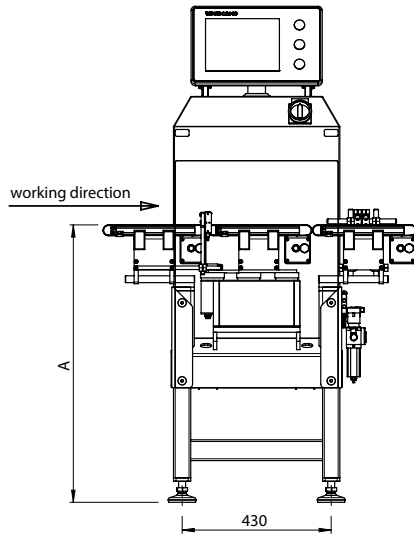
		Dimensions weighing conveyor				
length \ width		120 mm	150 mm	200 mm	300 mm <sup>1)</sup>	400 mm <sup>1)</sup>
200 mm		X	X	-	-	-
250 mm <sup>1)</sup>		X	X	X	-	-
300 mm		X	X	X	-	-
400 mm		X	X	X	X	-
500 mm <sup>1)</sup>		X	X	X	X	X

		Dimensions infeed / outfeed conveyor				
length \ width		120 mm	150 mm	200 mm	300 mm <sup>1)</sup>	400 mm <sup>1)</sup>
200 mm		X	X	-	-	-
300 mm		X	X	X	-	-
400 mm		X	X	X	X	-
500 mm		X	X	X	X	X
600 mm		X	X	X	X	X

1) Optionally, surcharge

# MACHINE DIMENSIONS

## HC-M BASIS



<b>A = Working height</b> <sup>1)</sup>	700-850 / 800-950 / 900-1,050 mm
<b>B = Conveyor width</b>	120 / 150 / 200 / 300 <sup>2)</sup> / 400 <sup>2)</sup> mm
<b>Conveyor technology NT 30</b>	roller diameter 30 mm
<b>C = Weighing conveyor length</b>	200 / 250 <sup>2)</sup> / 300 / 400 / 500 <sup>2)</sup> mm
<b>D = Infeed conveyor length</b>	200 / 300 / 400 / 500 / 600 mm
<b>E = Outfeed conveyor length</b>	200 / 300 / 400 / 500 / 600 mm
<b>F = Total length</b>	D + C + E + 10 mm
<b>G = Total width</b>	700 mm depending on machine configuration

1) Working height must be specified when ordering  
 2) Optionally, surcharge

These specifications are reference values of the standard machine excluding application- or weighing-specific add-on parts.  
 All entries in mm | Drawing shows design example

