



## HPS-C hot runner controllers

For all 230 V systems

**HPS-C-SLOT+**

**HPS-C-PRO+**



2 - 24

Control zones

**5**-YEAR WARRANTY

## HPS-C-SLOT+

### The cost-efficient slot controllers

HPS-C-SLOT+ hot runner controllers are designed for precise control of hot runner systems with a low or medium number of cavities. They are available in three housing versions for up to 12 zones per controller. The modular design allows the quick installation or exchange of controller modules. By interconnecting two housings up to 24 zones can be controlled simultaneously.



Each control module allows the easy and convenient operation of two zones.

## Controller functions at a glance

Adaptive PID<sup>2</sup> control algorithm with Power-Priority®

Comfortable operation

Fast temperature scanning, 20 x per second

Phase angle control (1000 steps)

Drying-up only if heating elements are humid

Comprehensive process monitoring

Auto mode in case of thermocouple failure



24-zone controller with two interconnected 12-zone housings.

### Technical data

<b>Housing:</b>	Metal housing, powder coated
<b>Power supply:</b>	230 / 400 V AC (+/- 10 %, 50 - 60 Hz)
<b>Connector:</b>	16 A CEE (2 zones, housing with 1 slot), 32 A CEE (2 - 12 zones, housing with 3 or 6 slots)
<b>Power output:</b>	max. 15 A per zone, phase angle control, 1000 steps
<b>Thermocouple:</b>	Fe-CuNi Type J / NiCr-Ni Type K
<b>Control accuracy:</b>	Better 1 °C, self optimizing
<b>Control range:</b>	50 - 500 °C
<b>Operating temperature:</b>	5 - 40 °C
<b>Control module display:</b>	<ul style="list-style-type: none"> <li>- Overview of zone status for all zones</li> <li>- Display of setpoint / actual value for selected zones (°C or °F)</li> <li>- Power output in A or %</li> <li>- Alarm indicators for temperature and load circuit, current (overcurrent, open load), earth fault and thermocouple (break, reverse polarity)</li> </ul>
<b>Optional features:</b>	<ul style="list-style-type: none"> <li>- 1 signal input, 1 alarm output (not for housing with 1 slot, requires network module)</li> <li>- Rack with castors</li> </ul>

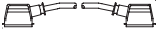
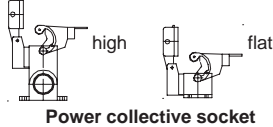
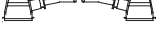
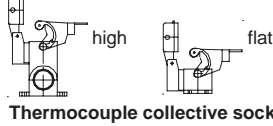

# HPS-C-SLOT+ Slot controllers

Item numbers / Connecting cables /  
Dimensions

2 - 24

Control zones



Housing type		Housing with 1 Slot	Housing with 3 Slots	Housing with 6 Slots
Item number		<b>69111.002</b>	<b>69121. ____</b> <b>69122. ____ (with NWM)*</b> ( ____ = number of control zones, e.g. 006)	<b>69131. ____</b> <b>69132. ____ (with NWM)*</b> ( ____ = number of control zones, e.g. 012)
Control zones		2	2 - 6 in steps of 2	2 - 12 in steps of 2
			14 - 24 in steps of 2 <b>Combined controllers 69141. ____</b> by interconnection of two housings 14 - 18 zones: housing with 6 slots / housing with 3 slots 18 - 24 zones: 2 housings with 6 slots	
230 V	 Power cable	230 V + Thermo 63010.102 (4.5 m)	63010.108 (3 m) 63020.108 (6 m)	63010.112 (3 m) 63020.112 (6 m)
	 Power collective socket	230 V + Thermo high 63010.009 flat 63010.001	high 63010.010 flat 63010.003	high 63010.011 flat 63010.005
Thermo	 Thermocouple collective cable		63110.108 (3 m) 63120.108 (6 m)	63110.116 (3 m) 63120.116 (6 m)
	 Thermocouple collective socket		high 63110.010 flat 61110.013	high 63110.011 flat 63110.005
	 Signal cable		60070.034-V03 (3 m) 60070.034-V06 (6 m) only with network module 60040.101	60070.034-V03 (3 m) 60070.034-V06 (6 m) only with network module 60040.101
Width / Height / Depth		152 / 229 / 406	330 / 229 / 406	483 / 229 / 406
Weight in kg		9	13	43
Power output		3.5 KW	22 KW	22 KW

All controllers are available in different language versions:

D Germany, 230 V, Y Star / E UK, 240 V, Y Star / J Japan, 208 V, Δ Delta / U USA, 240 V, Δ Delta

Special configurations (connecting cables, power output, ...) for all controllers available on request.

\* (with NWM) = with integrated network module 60040.101

# HPS-C-SLOT+

## Slot controllers

Spare parts and accessories

Description	Item number
Controller module 2 zones	60040.100D/E (Star) 60040.100J/U (Delta)
Network module	60040.101 not for housing with 1 slot
Rack with castors	60040.103
Cover plate	60040.104
Interconnection set for 2 controllers	60070.032
Interface cable for PC	60070.033
Fuse 20 A (FF) 6.3 x 32 mm	18241



Rack with castors



2 - 144

Control zones

**5**-YEAR WARRANTY\*

\* 2-year warranty on the touch screen control unit

## HPS-C-PRO+

### High performance controllers with touch screen operation

Thanks to their extremely fast and precise temperature control the HPS-C-PRO+ hot runner controllers are the number one choice - not only for standard applications but also for demanding high-cavitation systems using slim and low mass hot runner nozzles which are difficult to control. Furthermore, they feature an easy and intuitive operation with comprehensive diagnostic, protocol and error detection functions. Depending on the application requirements HPS-C-PRO+ controllers are available in different versions and housing types.



Tower housing



Mini tabletop housing



Tabletop housing

# Controller functions at a glance

"Mold Wizard" for easy, intuitive start-up and configuration	Comprehensive process monitoring
Sequential start with compound heating	Early leakage detection
Adaptive PID <sup>2</sup> control algorithm with Power-Priority®	Auto mode in case of thermocouple failure
Maximum screen update rate 0.1 s	Mold ID, automatic mould recognition / mould memory
Fast temperature scanning, 20 x per second	Mould graphics with real time data overlay
Phase angle control (1000 steps)	Mold Doctor®, mould defect analysis
Kilowatt monitor (actual value, average, max, min)	Data recording, logging and error logging
Drying-up only if heating elements are humid	Thermocouple "Rewire" for rectification of wiring errors
Operator management and identification	Acoustic und optic alarm signal
	Language selection

## Technical data

<b>Housing:</b>	Metal housing, powder coated (with lockable castors for tower housing)
<b>Display:</b>	Metal housing, powder coated, touch screen control
<b>Power supply:</b>	230 / 400 V AC (+/- 10 %, 50 - 60 Hz)
<b>Connector:</b>	32 A CEE (2 - 24 zones), 63 A CEE (26 - 72 zones), 125 A CEE (74 - 144 zones)
<b>Power output:</b>	max. 15 A per zone, phase angle control, 1000 steps
<b>Thermocouple:</b>	Fe-CuNi Type J / NiCr-Ni Type K
<b>Control accuracy:</b>	Better 1 °C, self optimizing
<b>Control range:</b>	50 - 500 °C
<b>Operating temperature:</b>	5 - 40 °C
<b>Features:</b>	<ul style="list-style-type: none"> <li>- Signal inputs: mini housing: 0 / up to 24 zones: 1 / from 26 zones: 2 optionally extendible</li> <li>- Signal outputs: mini housing: 0 / up to 24 zones: 1 / from 26 zones: 2 optionally extendible</li> <li>- Data interface: USB</li> <li>- Option: cable holder</li> </ul>
<b>Operation, display:</b>	<ul style="list-style-type: none"> <li>- 8", 10" or 15" LCD with touch screen, depending on controller version. 8" monitor always fixed on the housing, 10" and 15" monitor suitable for split installation up to 13 m away from the controller. 10" and 15" monitor with interface for melt flow control systems (e.g. Priamus, Kistler)</li> <li>- Permanent display of setpoint and actual values plus power outputs for all zones</li> <li>- Languages: English, German, French, Czech, Russian, Italian, Spanish, Portuguese, Japanese, Chinese, Korean, Flemish, Polish</li> </ul>

# HPS-C-PRO+

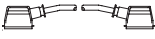
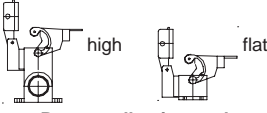
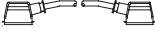
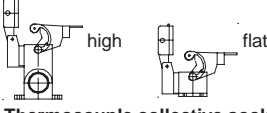
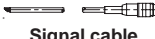
## High performance controllers

Item numbers / Connecting cables / Dimensions

2 - 12

Control zones



Housing type		Mini tabletop housing M	Mini tower housing with castors MS
Item number		<b>69201.</b> ___ (8" monitor) <b>69271.</b> ___ (10" monitor) ( ___ = number of control zones, e.g. 012)	<b>69202.</b> ___ (8" monitor) <b>69272.</b> ___ (10" monitor) ( ___ = number of control zones, e.g. 012)
Control zones		2 - 12 in steps of 2	2 - 12 in steps of 2
230 V	 Power cable	1 piece per 12 control zones 63010.112 (3 m) 63020.112 (6 m)	1 piece per 12 control zones 63010.112 (3 m) 63020.112 (6 m)
	 Power collective socket	1 piece per 12 control zones high 63010.011 flat 63010.005	1 piece per 12 control zones high 63010.011 flat 63010.005
Thermo	 Thermocouple collective cable	1 piece per 12 control zones 63110.116 (3 m) 63120.116 (6 m)	1 piece per 12 control zones 63110.116 (3 m) 63120.116 (6 m)
	 Thermocouple collective socket	1 piece per 12 control zones high 63110.011 flat 63110.005	1 piece per 12 control zones high 63110.011 flat 63110.005
 Signal cable		60070.036-V03 (3 m) 60070.036-V06 (6 m) only with I/O module 1+1 (60040.111)	60070.036-V03 (3 m) 60070.036-V06 (6 m) only with I/O module 1+1 (60040.111)
Width / Height / Depth		254 / 508 / 312	584 / 927 / 508
Weight in kg		22.7	34.1
Power output		22 KW	22 KW

All controllers are available in different language versions:

D Germany, 230 V, Y Star / E UK, 240 V, Y Star / J Japan, 208 V, Δ Delta / U USA, 240 V, Δ Delta

Special configurations (connecting cables, power output, ...) for all controllers available on request.



# HPS-C-PRO+

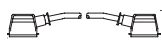
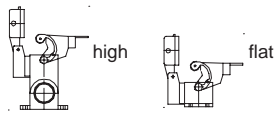
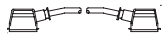
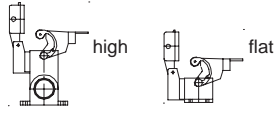

## High performance controllers

Item numbers / Connecting cables / Dimensions

**2 - 24**

Control zones



Housing type		Tabletop housing T1	Tower housing with castors S1
Item number		<b>69371.</b> ___ (10" monitor) <b>69311.</b> ___ (15" monitor) ( ___ = number of control zones, e.g. 012)	<b>69372.</b> ___ (10" monitor) <b>69312.</b> ___ (15" monitor) ( ___ = number of control zones, e.g. 012)
Control zones		2 - 24 in steps of 2	2 - 24 in steps of 2
230 V	 Power cable	1 piece per 12 control zones 63010.112 (3 m) 63020.112 (6 m)	1 piece per 12 control zones 63010.112 (3 m) 63020.112 (6 m)
	 high flat Power collective socket	1 piece per 12 control zones high 63010.011 flat 63010.005	1 piece per 12 control zones high 63010.011 flat 63010.005
Thermo	 Thermocouple collective cable	1 piece per 12 control zones 63110.116 (3 m) 63120.116 (6 m)	1 piece per 12 control zones 63110.116 (3 m) 63120.116 (6 m)
	 high flat Thermocouple collective socket	1 piece per 12 control zones high 63110.011 flat 63110.005	1 piece per 12 control zones high 63110.011 flat 63110.005
 Signal cable		60070.036-V03 (3 m) 60070.036-V06 (6 m) Standard: 1 signal input, 1 signal output With I/O extension 60040.115: 8 signal inputs, 4 signal outputs	60070.036-V03 (3 m) 60070.036-V06 (6 m) Standard: 1 signal input, 1 signal output With I/O extension 60040.115: 8 signal inputs, 4 signal outputs
Width / Height / Depth		254 / 540 / 584	508 / 889 / 584
Weight in kg		34.1	63.2
Power output		22 KW	22 KW

All controllers are available in different language versions:

D Germany, 230 V, Y Star / E UK, 240 V, Y Star / J Japan, 208 V, Δ Delta / U USA, 240 V, Δ Delta

Special configurations (connecting cables, power output, ...) for all controllers available on request.

# HPS-C-PRO<sup>+</sup>

## High performance controllers

Item numbers / Connecting cables / Dimensions

26 - 72

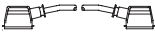
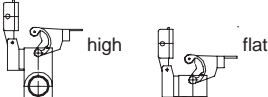
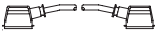
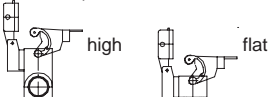

Control zones



S2



S3

Housing type		Tower housing with castors S2	Tower housing with castors S3
Item number		<b>69382.</b> ___ (10" monitor) <b>69322.</b> ___ (15" monitor) ( ___ = number of control zones, e.g. 036)	<b>69332.</b> ___ (15" monitor) ( ___ = number of control zones, e.g. 072)
Control zones		26 - 48 in steps of 2	50 - 72 in steps of 2
230 V	 Power cable	1 piece per 12 control zones 63010.112 (3 m) 63020.112 (6 m)	1 piece per 12 control zones 63010.112 (3 m) 63020.112 (6 m)
	 Power collective socket	1 piece per 12 control zones high 63010.011 flat 63010.005	1 piece per 12 control zones high 63010.011 flat 63010.005
Thermo	 Thermocouple collective cable	1 piece per 12 control zones 63110.116 (3 m) 63120.116 (6 m)	1 piece per 12 control zones 63110.116 (3 m) 63120.116 (6 m)
	 Thermocouple collective socket	1 piece per 12 control zones high 63110.011 flat 63110.005	1 piece per 12 control zones high 63110.011 flat 63110.005
 Signal cable		60070.036-V03 (3 m) 60070.036-V06 (6 m) Standard: 2 signal inputs, 2 signal outputs With I/O extension 60040.115: 8 signal inputs, 4 signal outputs	60070.036-V03 (3 m) 60070.036-V06 (6 m) Standard: 2 signal inputs, 2 signal outputs With I/O extension 60040.115: 8 signal inputs, 4 signal outputs
Width / Height / Depth		508 / 889 / 584	508 / 1276 / 584
Weight in kg		65.5	90.6
Power output		43 KW	43 KW

All controllers are available in different language versions:

D Germany, 230 V, Y Star / E UK, 240 V, Y Star / J Japan, 208 V, Δ Delta / U USA, 240 V, Δ Delta

Special configurations (connecting cables, power output, ...) for all controllers available on request.

# HPS-C-PRO+

## High performance controllers

Item numbers / Connecting cables / Dimensions

**74 - 144**

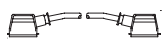
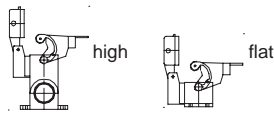
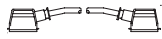
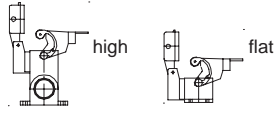

Control zones



D2



D3

Housing type		Tower housing with castors D2	Tower housing with castors D3
Item number		<b>69342.</b> ___ (15" monitor) ( ___ = number of control zones, e.g. 096)	<b>69352.</b> ___ (15" monitor) ( ___ = number of control zones, e.g. 144)
Control zones		74 - 96 in steps of 2	98 - 144 in steps of 2
230 V	 Power cable	1 piece per 12 control zones 63010.112 (3 m) 63020.112 (6 m)	1 piece per 12 control zones 63010.112 (3 m) 63020.112 (6 m)
	 Power collective socket	1 piece per 12 control zones high 63010.011 flat 63010.005	1 piece per 12 control zones high 63010.011 flat 63010.005
Thermo	 Thermocouple collective cable	1 piece per 12 control zones 63110.116 (3 m) 63120.116 (6 m)	1 piece per 12 control zones 63110.116 (3 m) 63120.116 (6 m)
	 Thermocouple collective socket	1 piece per 12 control zones high 63110.011 flat 63110.005	1 piece per 12 control zones high 63110.011 flat 63110.005
 Signal cable		60070.036-V03 (3 m) 60070.036-V06 (6 m) Standard: 2 signal inputs, 2 signal outputs With I/O extension 60040.115: 8 signal inputs, 4 signal outputs	60070.036-V03 (3 m) 60070.036-V06 (6 m) Standard: 2 signal inputs, 2 signal outputs With I/O extension 60040.115: 8 signal inputs, 4 signal outputs
Width / Height / Depth		508 / 1003 / 584	508 / 1276 / 584
Weight in kg		110.5	155.7
Power output		69 KW	69 KW

All controllers are available in different language versions:

D Germany, 230 V, Y Star / E UK, 240 V, Y Star / J Japan, 208 V, Δ Delta / U USA, 240 V, Δ Delta

Special configurations (connecting cables, power output, ...) for all controllers available on request.

# HPS-C-PRO+

## High performance controllers

Spare parts and accessories

Description	Item number
Controller module 2 zones	60040.110D/E (Star) 60040.110J/U (Delta)
I/O module 1+1 for 692... (mini housing)	60040.111
Cable holder for 692... (mini housing)	60040.112
Cable holder for 693...	60040.113
Mainboard (left)	60040.114
I/O extension 8+4	60040.115
Connecting cable for monitor	60070.035-V03 (3 m) / 60070.035-V08 (8 m) / 60070.035-V13 (13 m)
Fuse 20 A (FF) 6.3 x 32 mm	18241





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