

# High-current multi-heads

## HCM-667-0000 C01-00000-00

Item HCM-667-0001



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## Scaling of current carrying capacity using high-current multi-head solutions

### Contacting of battery cells with higher capacities

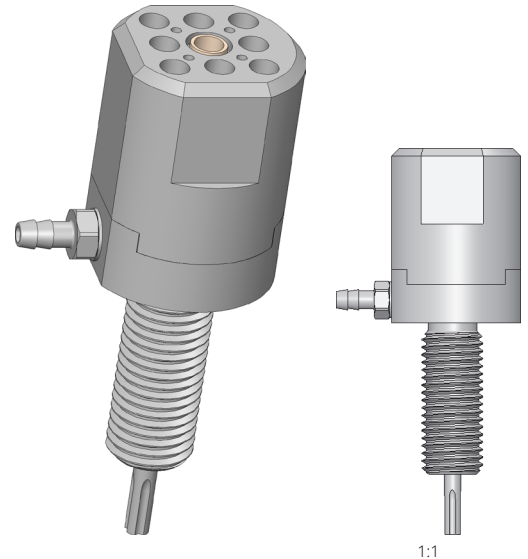
- Reliable contact of battery cells
- Modular design enables scalability of current transmission using well-established INGUN products
- Increase in maximum current transmission thanks to cooling feature
- Optional cooling of contact surface using GKS-667
- Voltage monitoring via a central sense contact probe possible
- Temperature measurement of contact surface using TKS-667 is an optional addition
- Easy installation in plate or busbar via the threaded connection

### Application

The HCMs were specially developed for the flexible scalability of high-current contacting. The modular design makes it possible to adapt the product characteristics to the application, and therefore always provide the right product for a high variable range of DUTs, as is the case with the contacting of battery cells.

### Construction

The HCMs each consist of a base body and several high-current test probes which create a parallel circuit. The functionality can be additionally extended using a centrally positioned sense contact probe or temperature measurement probe with integrated sense tap. Optional air-cooling probes, as an alternative to the current-transmitting test probes, are also available.

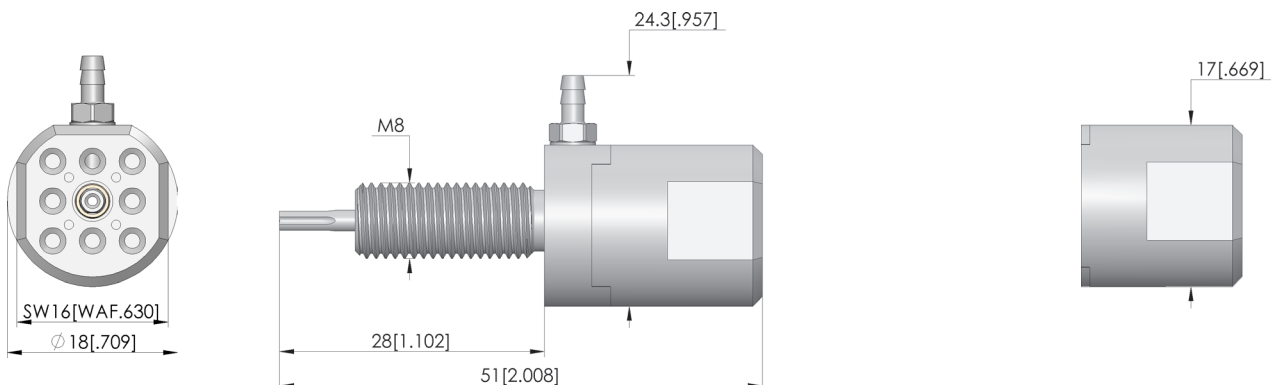


### Installation

The HCMs can be installed in a corresponding hole on a probe plate using lock nuts or installed directly in a busbar via a corresponding threaded hole. If the HCM is installed in a non-conductive plate, for example, the current connection can be made at the threaded bolt via a cable lug. The optional sense contact probe, to be connected to the soldering recess provided, and the temperature sensor are dissipated centrally.

### Note:

The base bodies are designed for either five or eight current-transmitting test probes from the HSS-120 and HSS-667 series with various tip styles, which can be freely configured in terms of both quantity and layout. By combining the modular high-current multi-head solution with HSS-667 probes, which were specifically developed for contacting battery cells with oxidised contact surfaces, it is possible to greatly reduce the power losses that occur during cell production.



HIGH-CURRENT TEST PROBES

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### General data

Screw-in torque max.:	100 cNm [8.85 lbf·in]
Product group:	Standard HSS (screw-in)
Sub-product group:	Standard HSS (screw-in)
Series:	HCM-667
Grid:	19 mm [748 mil]
Magnetic:	No
Installation type:	Screw-in
Quick-exchange system:	No
Type of test probe connection:	Thread connection
Adjustable installation height:	No
Non-rotating:	Yes
Screw-in torque:	100 cNm [8.85 lbf·in]
Min. temperature:	-100 °C [-148 °F]
Max. temperature:	200 °C [392 °F]
RoHS-compliant:	Yes

### Electrical data

Typical resistance (Ri), connection on plunger:	1 mOhm
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### Mechanical data

Total length:	51 mm [2 in]
Barrel diameter:	18 mm [.708 in]

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