

IMPACT GUN 6/11 AH EvoCSII

10017.00.0.00

Key facts:

- Suitable for the entire range of Cold Spray applications
- Process gas pressure up to 60 bar
- Process gas temperature up to 1100 °C
- Integrated heating with max. 44 kW heating power
- Water cooling only
- Central powder injection



The Impact Gun 6/11 AH EvoCSII achieves a process gas pressure of up to 60 bar and process temperatures of up to 1100 °C, covering the full range of Cold Spray applications. An integrated operating hours counter allows tracking of usage time. Inside the gun, nitrogen or helium is electrically heated, mixed with powder particles and accelerated through a Laval nozzle. Full integration into the Impact EC-GM-Unit EvoCSII control unit enables monitoring and recording of all relevant process parameters.

Due to its design, the Impact Gun 6/11 AH EvoCSII injects the powder centrally into the pre-chamber. Unlike other guns, the powder is not redirected – instead, the process gas is guided. Axial injection of the metal powder is especially advantageous for very fine or temperature-sensitive materials such as copper, aluminum or silver. The angled head allows the heater to be positioned more easily for optimal spraying. In horizontal spraying, the heater can be set vertically upwards; spraying downwards is also possible.

Technical data

Compatibility	Impact Spray System EvoCSII
Heating capacity	max. 44 kW
Nominal - voltage	400 V 3 Ph AC 480 V 3 Ph AC
Nominal – current consumption	64 A
Process gas	N2 He
Max. pressure	60 bar
Adjustment range pressure	5 - 60 bar*
Max. heating temperature	1100 °C at 50 bar 1000 °C at 60 bar
Adjustment range temperature	50–1100 °C*
Heating capacity regulation	stepless
Sound pressure in 1m distance	125 dB(A)
Length	210 mm
Width (without nozzle/pre-chamber)	195 mm
Height	662 mm
Weight	37 kg
Pressure vessel capacity	2.4 l
Safety value pressure setting	62 bar
Operating temperature	5–50 °C
Cable and hose length	7 - 18 m

*If helium is used as the process gas, the maximum process parameter are different.

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The standard pre-chamber is optionally available as a water-cooled version.

Extension tubes in different lengths are available (non-cooled or water-cooled):

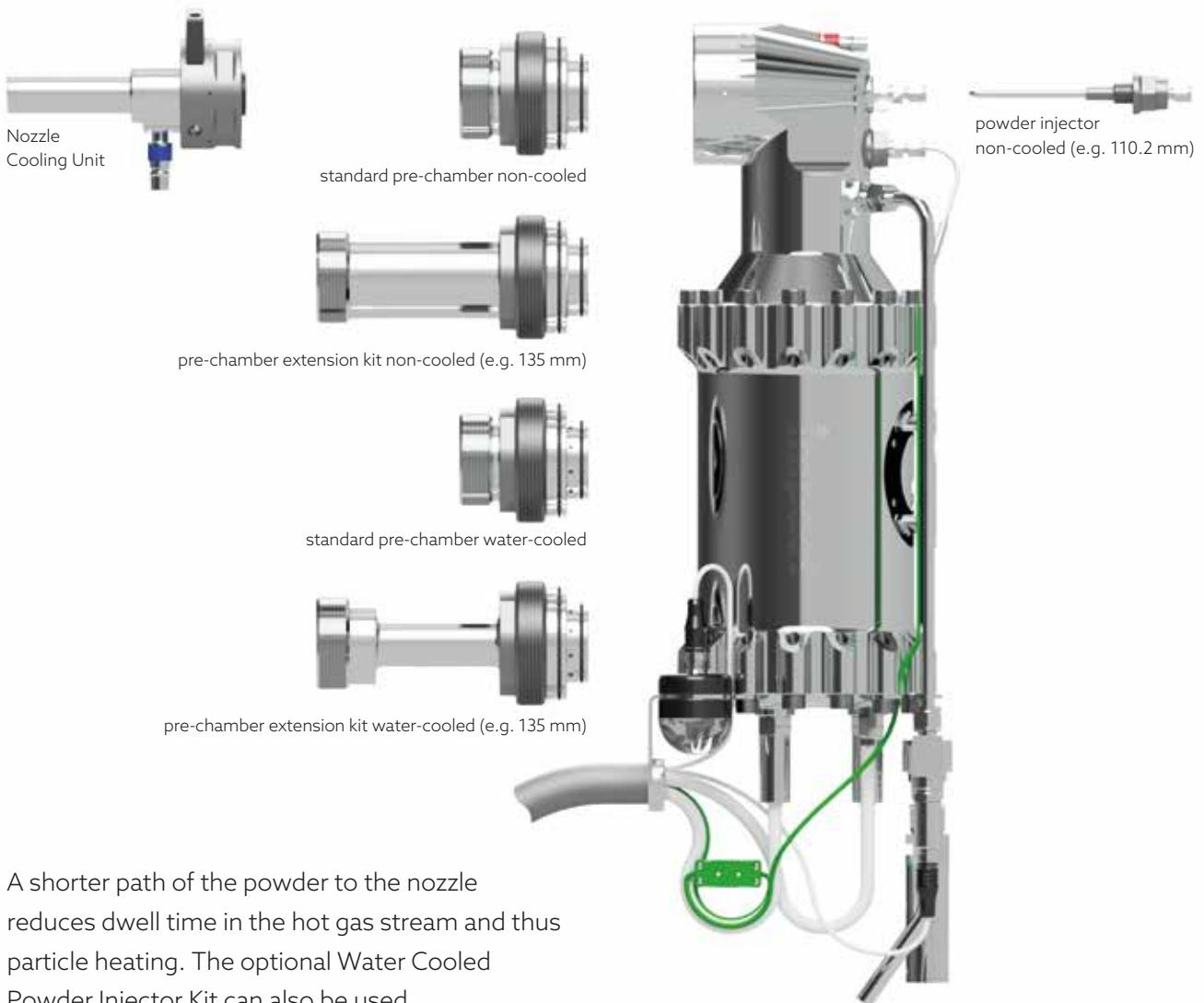
- 100 mm
- 135 mm
- 170 mm

For the angled-head gun, injectors of different lengths are available:

non cooled

- 89.5 mm (38.9 mm from injector to nozzle)
 - 110.2 mm (18.2 mm from injector to nozzle)
- water-cooled (10114.00.0.00: Datasheet 1041.0)

- 89.5 mm (38.9 mm from injector to nozzle)
- 133.4 mm (Injection point 5 mm inside the nozzle)



A shorter path of the powder to the nozzle reduces dwell time in the hot gas stream and thus particle heating. The optional Water Cooled Powder Injector Kit can also be used.