

# INNOVATIVE HYDROGEN COMPRESSION WITH METAL HYDRIDES



efficient

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reliable

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low-noise

### Features of the innovative metal hydride compressor

Inlet pressure	5-200 bar
Outlet pressure	450 bar
Compressor configuration	2 stages
Composition of metal hydrides	No rare earths or critical materials

### Other possible configurations of the metal hydride compressor

	H <sub>2</sub> refuelling stations	Filling centre & gas grid	Small H <sub>2</sub> users
Outlet pressures	Up to 500 bar	80 - 500 bar	30 - 500 bar
Flow rates	0.2 - 2 t/day	> 2t/day	A few kg/day
Heat sources	Waste heat or electricity	Waste heat from production	Electricity



## Specifications of the hydrogen refuelling station

Daily capacity	200 kg
Refuelling protocol	SAE J2601-1 (light-duty vehicles) SAE J2601-2 (heavy-duty vehicles)
Dispensing pressure	350 bar / 700 bar
Noise	< 60 dBA

compact

flexible

modular



Contact us for more information or to get an offer!

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**EIFHYTEC**

*European industry for Hydrogen technologies*

The innovative compression technology is being developed within COSMHYC DEMO funded by the Clean Hydrogen Partnership and co-funded by the European Union.

The development of the innovative compression technology promises to make the hydrogen compression process more efficient and reliable - a crucial element to make the hydrogen economy competitive.

**COSMHYC DEMO**  
INNOVATIVE H<sub>2</sub> COMPRESSION



**Co-funded by  
the European Union**

