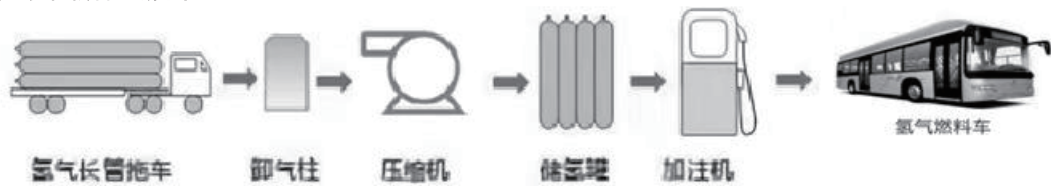


加氢站

天海工业凭借对氢能市场的准确把握，先后开发了35MPa加氢站、70MPa加氢站核心装备。可以提供制氢加氢一体站、加氢站、合建站等个性化解决方案，以及系统设计、设备制造、安装调试、以及员工培训、技术支持、运营管理等全方位一揽子服务，并可帮助客户通过金融租赁等方式进行融资经营。

◆ 加氢站的主要工艺流程

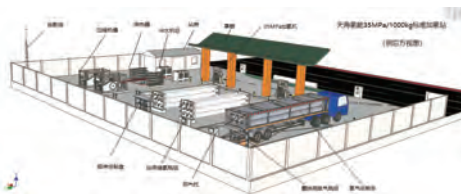
压缩氢气从氢气生产单位通过管束拖车运送进固定站或撬装站，通过加氢站内卸气柱、压缩机将氢气卸载至站内高压储氢罐。车辆加氢时，储氢罐中输出的氢气，通过加氢机充装到燃料电池汽车的车载储氢瓶中。



◆ 加氢站典型产品



撬装式加氢站



固定式加氢站

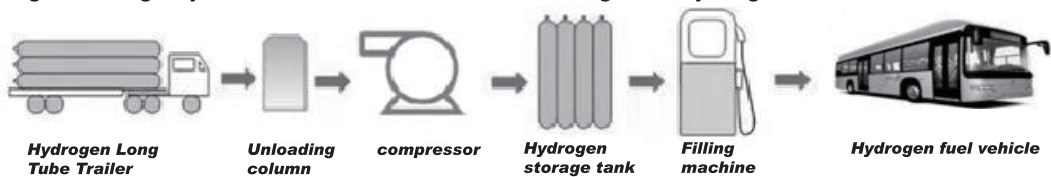
序号	类型	规格	适用场景	参数	
				进气压力	5MPa~20MPa
1	撬装式	500kg/12h@12.5MPa; 1000kg/12h@12.5MPa	集成氢气压缩机、加氢机、换热系统等为一体，结构紧凑，安装便捷，可节约项目用地，降低现场安装工程量，缩短安装周期。	最大排气压力	45/87.5MPa
				加注压力	35/70MPa
				加注温度	35MPa可低至-10℃; 70MPa可低至-40℃
				进气压力	5MPa~20MPa
2	固定式	500kg/12h@12.5MPa; 1000kg/12h@12.5MPa	采用模块化设计理念，适用于对占地面积要求不高，对功能、安全防护、自动化程度要求较高的客户	最大排气压力	45/87.5MPa
				加注压力	35/70MPa
				加注温度	35MPa可低至-10℃; 70MPa可低至-40℃
				进气压力	5MPa~20MPa

Hydrogen refueling station

Tianhai Industry has developed core equipment for 35MPa and 70MPa hydrogen refueling stations based on its accurate understanding of the hydrogen energy market. The company can provide customers with personalized solutions such as hydrogen production and refueling integrated stations, refueling stations, and joint construction stations, as well as comprehensive package services including system design, equipment manufacturing, installation and commissioning, employee training, technical support, and operation management services. The company can also assist customers in financing and operating through financial leasing and other means.

◆ The main process flow of the hydrogen refueling station

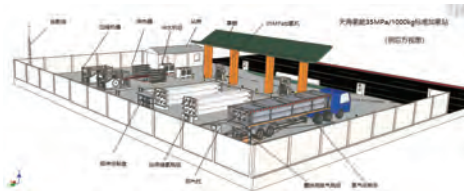
Compressed hydrogen gas is transported from hydrogen production units to fixed stations or loading stations through bundle trailers, and then unloaded into high-pressure hydrogen storage tanks inside the station through gas unloading columns and compressors. When the vehicle is refueled, the hydrogen gas output from the hydrogen storage tank is filled into the onboard hydrogen storage cylinder of the fuel cell vehicle through the hydrogenation machine.



◆ Typical products of hydrogen refueling stations



Skid mounted hydrogen refueling station



Fixed hydrogen refueling station

Serial number	type	Specifications	Adapt to the scene	parameter	
				Intake pressure	5MPa~20MPa
1	skid-mounted	500kg/12h@12.5MPa; 1000kg/12h@12.5MPa	Integrated hydrogen compressor, hydrogenation machine, heat exchange system, etc., with a compact structure and easy installation, can save project land, reduce on-site installation workload, and shorten installation cycle.	Maximum exhaust pressure	45/87.5MPa
				Add pressure	35/70MPa
				Add temperature	35MPa can be as low as -10℃; 70MPa can be as low as -40℃
				Intake pressure	5MPa~20MPa
2	Fixed type	500kg/12h@12.5MPa; 1000kg/12h@12.5MPa	Adopting a modular design concept, it is suitable for customers who do not have high requirements for floor space, but have high requirements for functionality, safety protection, and automation level	Maximum exhaust pressure	45/87.5MPa
				Add pressure	35/70MPa
				Add temperature	35MPa can be as low as -10℃; 70MPa can be as low as -40℃
				Intake pressure	5MPa~20MPa