

Hydraulic Systems for Ropeways
Hydraulic Power Units
Maintenance

RVS Group was founded in 1981 year.
Thanks to the forty years of experience gained in the sector of ropeways, RVS is able to **projecting, building and installing hydraulic power units** according to customers specific needs.

Since 1990 year, RVS works in a strong relation with **Leitner, Agudio and CCM multinational companies** by providing hydraulic power units plants.

RVS公司成立于1981
感谢积累在索道领域的四十年经验，RVS根据客户的具体需求，能够投射建造，安装液压动力零件。
自1990年以来，RVS通过提供液压动力零件工厂与Leitner, Agudio 和 CCM 跨国公司建立了牢固的关系。

Concerning the quality management system, it has been assessed and registered against the requirements of **ISO 9001:2015** by AJA

Registrars

RVS products are all certified according **CE conformity standard**.

**OUR VISION IS:
Reliability, Sustainability and
Innovation**

关于质量管理体系，欧洲AJA注册商已经确认并且（质量系统）遵循ISO 9001:2015 标准。

**RVS公司的愿景是：
可靠性，可持续性和创新**



PLANTS
REALIZED
252

RVS
WORLDWIDE
PLANTS
10

YEARS OF
EXPERIENCE
25

HYDRAULIC CONTROL SYSTEMS

Service and Emergency Brakes

The hydraulic power unit which controls the service and emergency brakes, requires high performances in terms of response time during the phases of braking.

Hydraulic power units use modest oil flow of about $200 \text{ cm}^3/\text{min}$. with pressure up to 280 bar. The response times have to respect specific technical norms .

The pictures represent different kinds of hydraulic power units existing on the cableways plants.

服务和紧急闸

液压动力零件是控制服务和紧急刹车的装置，就刹车阶段回复时间而言，它需要高度运转。

液压动力零件，在280 巴的压力下，使用大概200立方厘米/分钟的适度油流量。回复时间需要符合特定的技术规格。

这张照片表示在索道工厂上不同种类的安
装液压动力零件的存在。

Funicular-Naples



Ropeway – Stresa (Italy)



Ropeway – Cortina (Italy)



Chairlift – Sestriere (Italy)



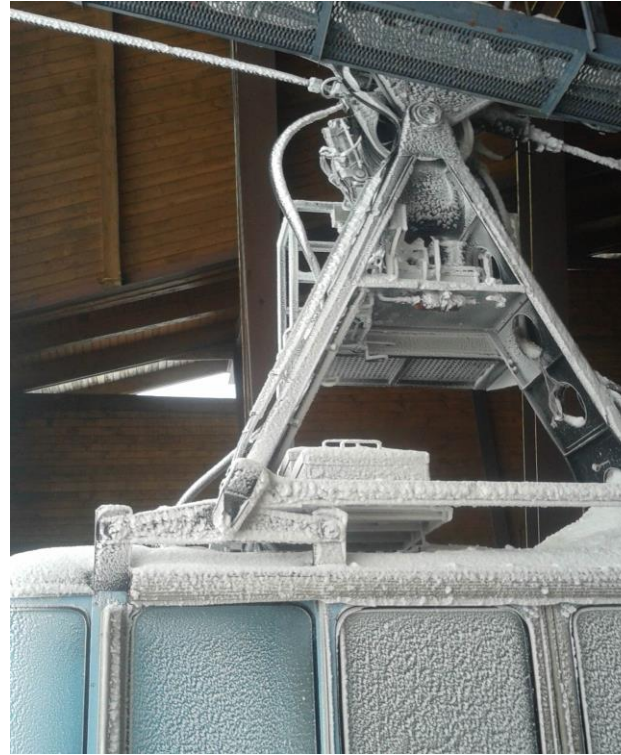
Car Brakes

The hydraulic power units of the ropeways, are mounted on the suspension, while the ones on the funiculars are mounted on the vehicle. Both have the function of activating the brakes. This kind of power units have to guarantee immediate control of the brakes with modest capacity and pressure up to 280 bar. The power units have to match specific characteristics (weight and dimensions). The activation of the ropeways has a completely automatic system .

汽车刹车

索道单元的液压动力零件被安装在悬浮车上，而不是安装在车辆上的缆车上。索道单元和缆车的液压动力都需要启动刹车。这种类型零件必须保证刹车控制在适度的容量和高达280巴的压力。动力零件必须符合特殊标准（体重和尺寸）。索道的启动有一个完整的自动系统。

Ropeway -L'Aquila (Italy)



Ropeway- Stresa (Italy)



Funicular- Bolzano (Italy)



Ropeway- Tuscany (Italy)



Tension Control Systems

The hydraulic power unit has the function of maintaining a constant tension of the rope by activating the hydraulic cylinder mounted on the structure. The cylinder sliding movement operates automatically by revealing the conditions of charge on the rope (e.g. number of people carried).

Concerning the dimensions of the cylinders, it depends on the type of plant.

The maximum capacity of the hydraulic power units is of 200 litres and the maximum pressure is up to 250 bar.

The pumps flow range of the hydraulic units goes from 8 to 30 lit/min.

张力控制系统

液压动力零件，通过激活镶嵌在机构上的液压汽缸，有保存不变的张力的绳索的功能。通过根据绳索重量的情况（比如，承载人员的数量），气缸移动自动运转。

根据气缸尺寸，它决定于全部装置的类型，液压动力零件的最大容量是200公升，并且最大的压力高达250巴。泵流量从8公升/分到30公升/分。

Skilift - Belluno (Italy)



Chairlift - Cortina (Italy)



Chairlift - Sestriere (Italy)



Chairlift- Courmayeur (Italy)



Chairlift- Trentino Alto Adige (Italy)



Recovery and Rescue Systems

The hydraulic power unit is used during all the phases of failure in the electric part of the plant (e.g. main electric motor or other electronic circuit cards).

The hydraulic power unit is made up of an diesel engine or an electric motor (power from 50 to 400 HP) coupled with hydrostatic transmission able to provide flow with a range between 100 and 400 lit/min. and with pressures up to 450 bar. The unit is electrically controlled but in case of emergency situations, it is also possible to control it manually.

抢救系统

当电子部分的装备不能运行，液压动力零件被使用（比如，主要电子发动机或者其他电子电路卡。

液压动力零件，由一个柴油发动机或者一个电子发动机（动力从50HP到400HP）组成，这个发动机符合提供流动范围在100和400 公升/分，并且压力高达450巴的静液转动。

零件被电子控制，但是当有紧急情况的时候，它也可以手动控制。

Ropeway - Stresa (Italy)



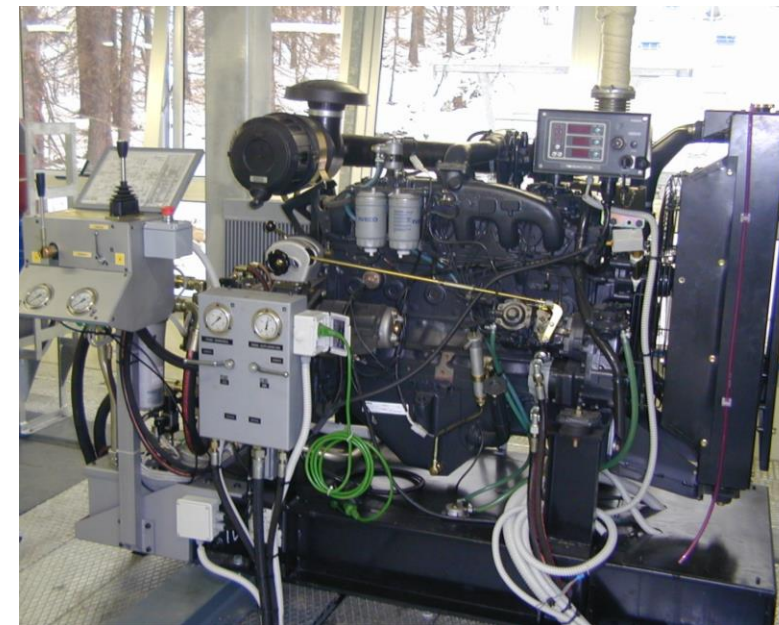
Ropeway- L'Aquila (Italy)



Ropeway- Cortina (Italy)



Chairlift- Sestriere (Italy)



L'Aquila-Italy



Belluno-Italy



Capri-Italy



Sicily-Italy



Shenzhen
深圳



Hong Kong- Ocean Park
香港 海洋公司



Iran



La Thuile-Italy



Rio de Janeiro-Brazil



Barcelona-Spain



Sestriere-Italy



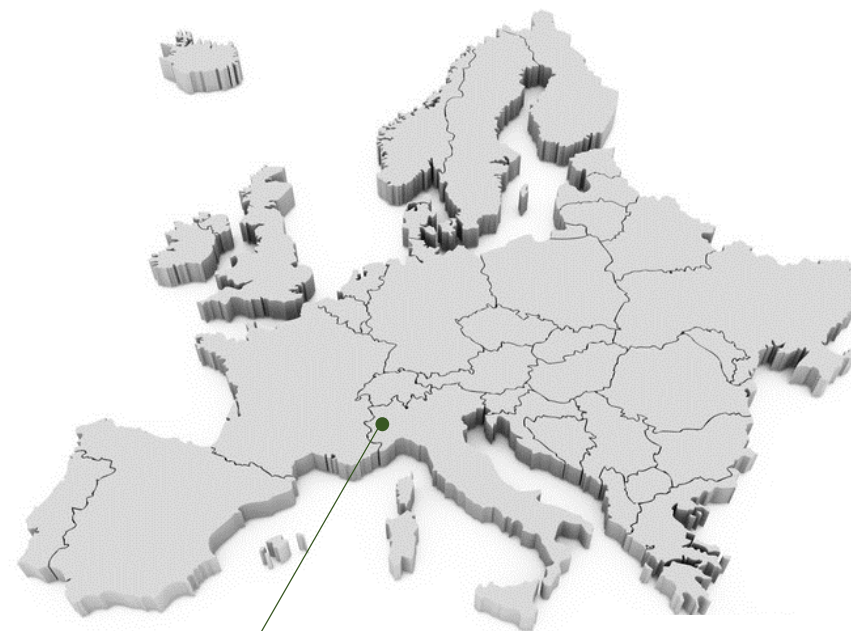
Stuttgart-Germany



Pila-Italy



Hydraulic
Systems for
cableways of RVS
worldwide



Via Chambery 81, 10142, Turin, Italy.
Tel.: +39 011 4031333
Mail: infocommerciale@rvs.it
www.rvssoleodinamica.it