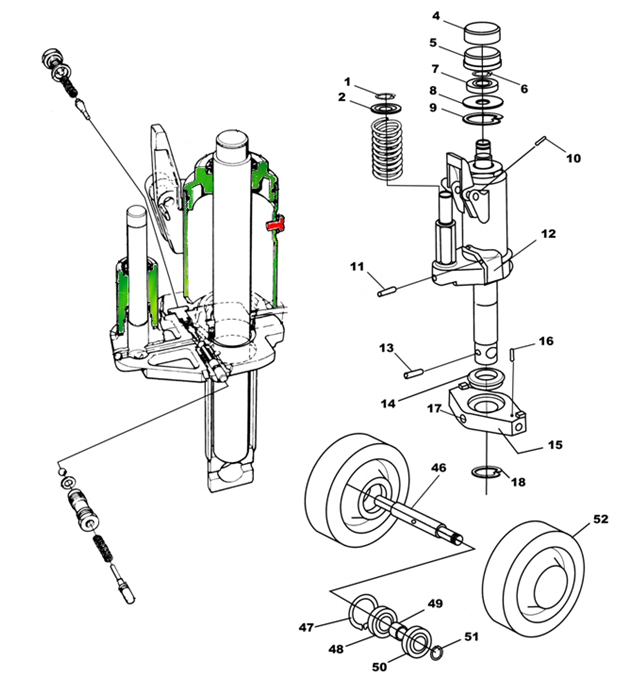
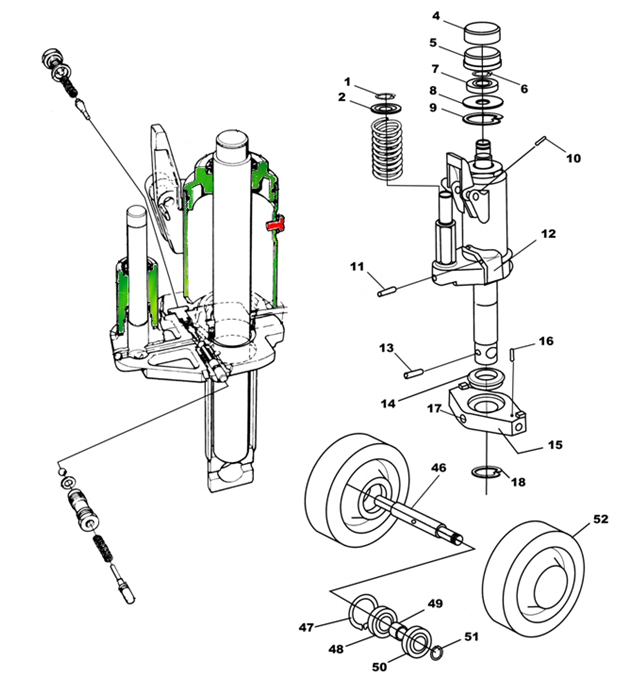
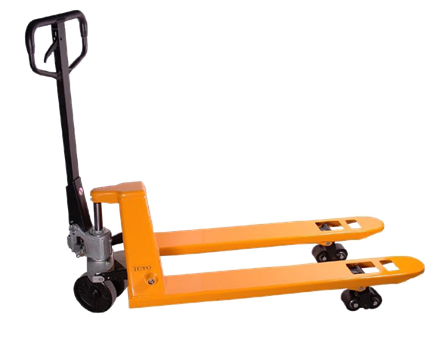
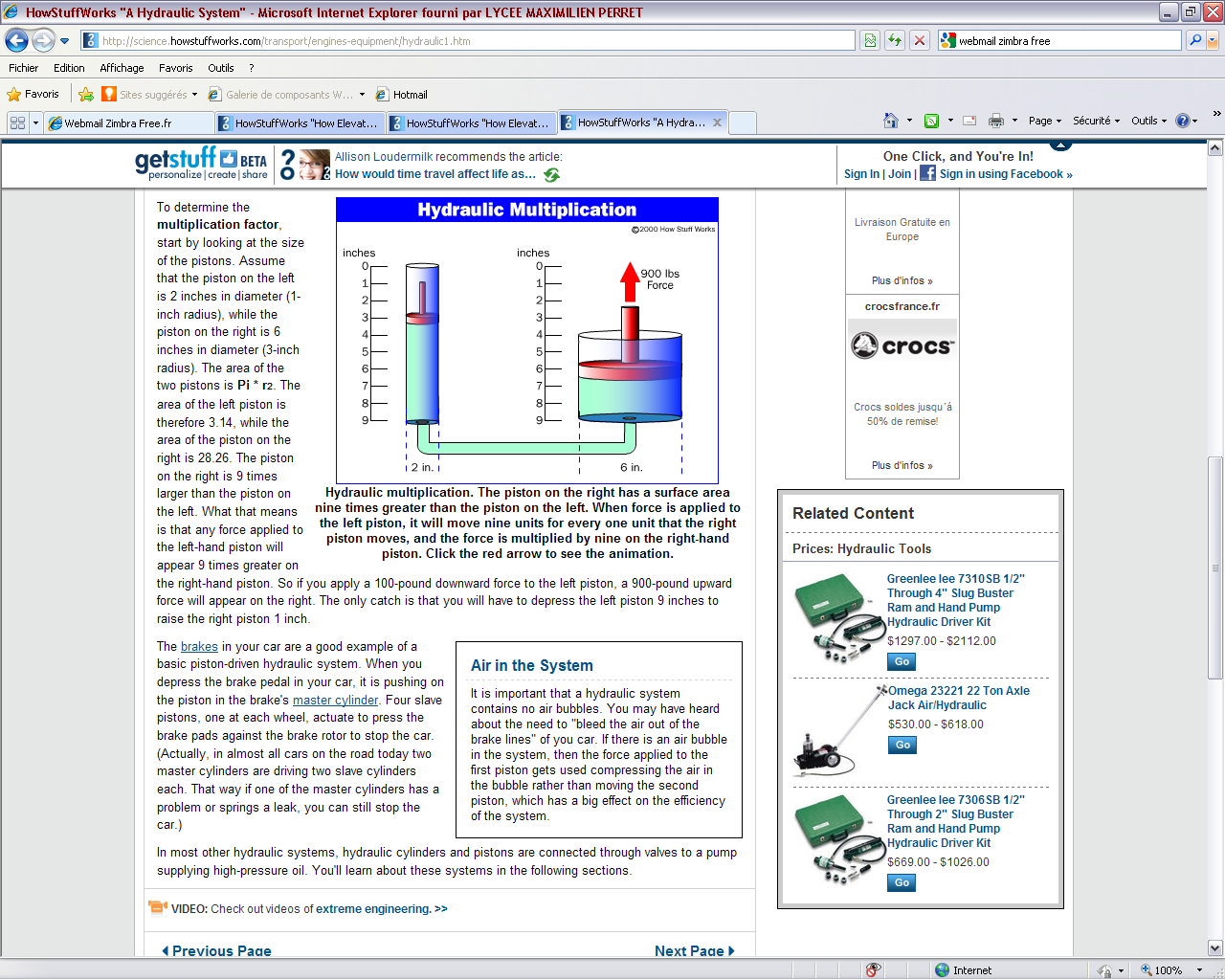
**Presentation and components :**



**Cutaway :**

**Hydraulic multiplication.**



**Fleft= 100 lbs force**

**Fright= ?**

The little piston on the left has a diameter of 2 inches.

The piston on the right has a diameter of 6 inches.

Calculate the surfaces areas for the piston on the left and on the right.

* Sleft=
* Sright=

The pressure exert upon the fluid inside the cylinder, between the pistons, is the same. Knowing that the pressure is equal to the ratio of the force upon the surface, calculate the resulting force on the right.

**Conclusion:**