

# Cybertech Back Braces

## Features & Benefits

- **CYBERTECH** spinal orthosis (back brace systems) simultaneously serve three (3) main functions in order to provide **symptomatic relief of back pain**
  - 1) Relieve the work of specific anterior (front) and posterior (back) muscles groups, and
  - 2) Limit the patient's range of motion, and
  - 3) Serve as a back splint to stabilize the patient's spine
- A **CYBERTECH** bracing system, with the unique, patented, **mechanical advantage pulley system**, if sized and adjusted properly should therefore:
  - 1) Relieve the work of both the abdominal muscles (anterior) and the Para spinal muscles (posterior) \*, and
  - 2) Limit sagittal (side to side) motion and/or coronal (front to back) motion, and
  - 3) Splint the patient's spine, ensuring spinal stabilization
- **CYBERTECH's mechanical advantage pulley system** provides "circumferential" (360 degree) compression, significantly reducing the work of anterior and posterior muscle groups at the same time
- When **CYBERTECH** literature refers to a respective **6:1 or 5:1 compression ratio**, we are referring to the **CYBERTECH** bracing system being able to handle either 6 times or 5 times more muscle workload than the patient would be able to accomplish if he/she was not wearing the bracing system
- This immediate relief of muscle work is precisely why all **CYBERTECH** back brace systems feel **so good** when used, even by the healthy patient. **CYBERTECH** spinal orthosis are truly a godsend for those patients suffering from back pain and/or spinal instability
- **Limitation of the patient's range of motion** is a very important consideration for certain post-operative patients. As we add additional panels to any modular **CYBERTECH** bracing system, we limit additional planes of motion for that particular patient. The modularity of many **CYBERTECH** bracing systems enables the removal of the panels as increased range of motion is indicated. Panels can always be added once again if decreased range of motion is once again indicated
- The **extra added benefit** of wearing a **CYBERTECH** bracing system is an **instantaneous improvement in posture**, due to the spinal splinting effect. Everybody feels better with improved posture. This is yet another reason why 99.9% of all those who try on a **CYBERTECH** brace for the very first time smile and say "wow".

\* Decreased Para spinal muscle activity and strength associated with low back pain is well established in the medical literature.