



ERGODENTIX



Microscope Master chair

Xpedent has been developing its products since 2004. The company has developed from a mere producer of dental equipment into the leading developer and pioneer of sitting health.

Now we export to 58 countries and Xpedent® Dental medical instrument are used in hundreds of professions.



Flexible mechanical arm

The mechanical arm can move and adjust flexibly in multiple dimensions. It can accurately position and adjust the armrest according to the posture, position and observation needs of the microscope operator, so that the operator's arm is in the most comfortable state, reducing the fatigue caused by maintaining an unnatural posture for a long time.



Why Xpedent Concept works?

Conventional way of sitting

When we sit in the conventional way, with 90 degree angles in hip and knees, our balance and posture are poor. This affects many areas in the upper body and decreases circulation.

The poor posture that conventional chairs inevitably cause, stretches and tenses back muscles and makes them sore. The facet joints in the spine are open, which increases the pressure on disks as much as 30 per cent. A backrest does not help, because the 90 degree angle in the hip prevents the pelvis from tilting forward into its natural position.

The weight of the upper body is also on the back of the thighs, the buttocks, the pelvic floor and the genital area, thus decreasing the circulation in those areas and causing swelling in the legs.



Riding-like sitting

Circulation is undisturbed when we sit on a two-part saddle chair. Bones (sitting bones, feet and elbows) carry the weight, so there is no pressure on soft tissues.

The posture is the most relaxed and natural, when the legs are apart and sloping down in a 45 degree angle, which makes the pelvis automatically tilt forward. When the pelvis is tilted forward the back is in its neutral position. It feels easy and natural to sit when one is balanced in the same way as when standing. No muscle tensions or outside pressure disturb circulation.

Deeper breathing and improved circulation enable the body to get enough oxygen and nutrients.

Choosing a saddle chair

On the ergonomically designed, two-part saddle chair you can sit in a semi-upright, active, and balanced position. The angle and shape of the seat direct the pelvis to turn forward. In this position, the spine supports the upper body and the muscles remain relaxed.

Chairs with Sway mechanism

The sway mechanism of Xpedent enables the seat to be tilted into every direction without a separate adjustment lever. Thus you can exercise while sitting, which adds to the mobility and metabolism of the lower back, and activates the whole body.

Chairs with tilt mechanism

The tilt mechanism allows you to adjust the working position to your optimum. By tilting the seat forward, it is possible to reach forward without having to round the back. No Swing mechanism.



Dentistry

Dentists often retire early because of various problems in their shoulders, neck and lower back. Almost everybody working in dentistry is affected by some kind of sitting disorder, such as poor circulation in the legs, shortage of oxygen, problems in hip, knee and shoulder joints, and genital health problems.

In dental care the sitting position is the greatest health risk, because during long operations the position is unnatural and involves a lot of repetitive movements. Sitting in a bad position puts twice as much strain on the spine as standing.

On a two-part saddle chair the back is in the same position as when standing, and the lower back lordosis can be maintained. The gap in the seat enables you to keep your back straight even when you need to lean forward. Moving and reaching for things is easy and fast on Xpedent dental chair.





When sitting on a two-part saddle chair, the pressure is on the sitting bones. As a result there is less pressure on soft tissues and that is why we can sit more comfortably, in a balanced position. Circulation also remains undisturbed.



Microscope Master chair

According to the principle of bionics designed saddle-shaped seat, after people sit up, its special structure makes people's back naturally straighten, which helps to maintain the health of the waist, the thighs have more space to move, and there is a feeling of galloping horses when sitting on the chair.



Parameter

Part name	Parameter
Air rod specifications	160 mm
Minimum distance from the ground for the seat cushion	660 mm
The highest distance from the ground for the seat cushion	790 mm
Aluminum foot diameter	Φ600 mm
Wheel diameter	Φ65mm
Chair gross weight	18.2 kg
Package size	630 x 590 x 480mm