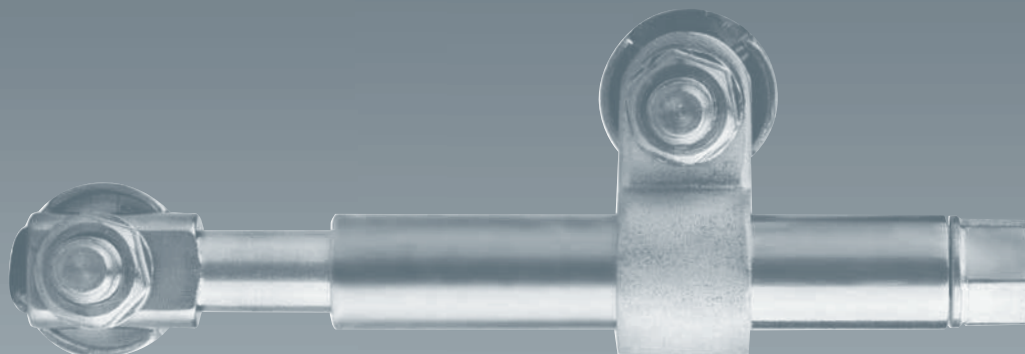




UNIVERSAL TELESCOPIC DISTRACTOR



	DISTRACTOR AND CASE		
	Type	L (mm)	D (mm)
	D 3,5 / 10	25,0	10,0
	D 4,0 / 15	30,0	15,0

	WRENCH AND CASE	
	Type	L (mm)
	D 10	72,0
	D 16	87,0

The Universal Telescopic Distractor Timplant® was developed in cooperation with the Stomatological Clinic and the MFS department in Pilsen, Czech Republic. It is a single use surgical device for controlled bone movement and shape changes of bone, mainly in alveolar deficiencies, where an enlargement of bone volume for dental implant placement is needed.

For distraction either complete or incomplete osteotomy has to be made - usually perpendicularly to the distraction vector.

With use of any osteosynthesis miniplate the distraction device is attached to both bony fragments, the fixed end of the distractor to one side and the other fragment to the movable part of the distractor. Turning the distraction screw head counterclockwise activates the device and results in bone lengthening, spreading or displacement. Gradual distraction forms a gap between the bony fragments in which new formed bone callus is growing. The average distraction rate is approx. 0.5 to 1.0 mm per day. It is recommended to wait for a period of 5 to 7 days before starting the distraction in order to ensure reasonable soft tissue recovery. The distraction should not exceed 1mm per day (3 turns counterclockwise, 1 turn represents lengthening of 0.35 mm).

The maximum distraction for D3.5/10 is 10 mm and for D4.0/15 it is 15 mm.

After having achieved the desired position or lengthening a consolidation of the newly formed bone is necessary. This retention period lasts usually approx. 6 to 8 weeks. For a successful dental implant insertion a maturation of bone during the next 6 month is recommended.

The Universal Telescopic Distractor Timplant® is delivered in a stainless steel autoclavable case. The versatility of the device is freely changeable only by selecting the appropriate miniplate shape according to the intended localization and planned surgery. It is possible to attach various types of 2.0 or 1.5 miniplates and thickness from 0.9 mm up – it is not manufacturer dependent – to the bottom side with the screw attachment and to the distraction body using the screw attachment with the sleeve assembly.

The 3D orientation of the attached plates is freely and easily adjustable simply by tightening the nut in the selected position.

This feature makes the use of the Universal Telescopic Distractor Timplant® really flexible and cost effective choice for osteo-distraction.

It is possible to use it in both the upper and lower jaw, and also in midface distractions.

The telescopic construction eliminates possible empty spaces around the device and minimizes possible soft tissues irritation.

The only special instrument needed is the distraction wrench, which is used per operational assembly as well as for the distraction itself. The wrench is delivered in a stainless steel autoclavable case.

Another advantage consists in the possibility of temporary removal of the distraction rod during surgery (facilitating the osteotomy etc.), simply by loosening both plate connections. The plates remain in place and the reattachment of the device is quick and easy. Adjustment of the distraction vector is also easy to do without changing the plate's position.