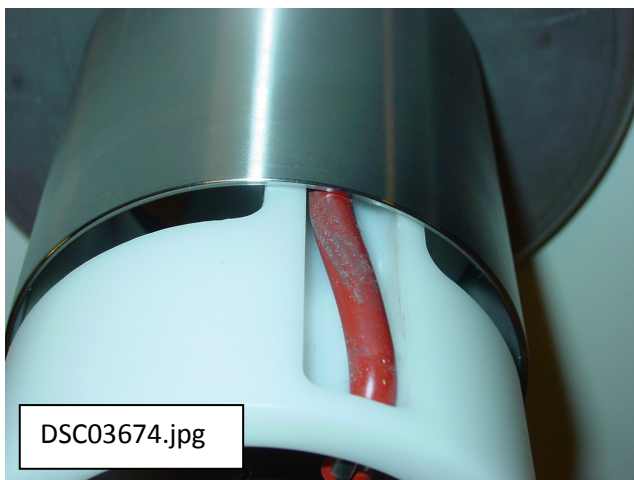


FLADDER DANMARK A/S introduce a new type of spindle with a unique locking system.

The new spindle type is marketed under licence as: **LOCK-IT**.

The spindles are equipped with special elastic O-ring cords in length of the spindle. Shape of spindle and the elastic cords allow tools – for example an abrasive cylinder – to be turned freely on the spindle, and yet be locked by a short turn in the opposite direction.

The picture below shows how:

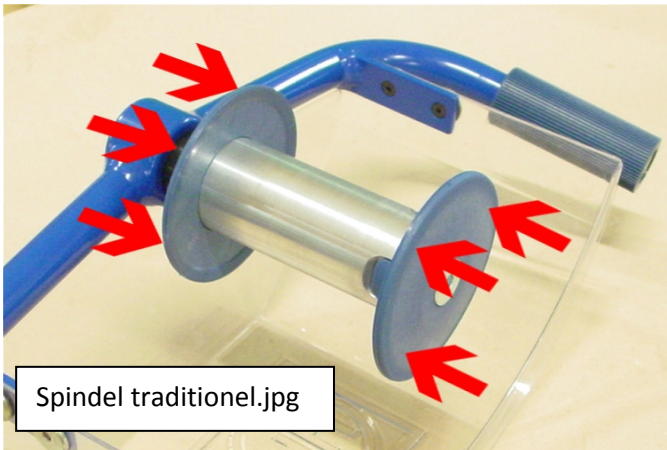


When the abrasive cylinder is turned to the left, the elastic cord is forced into a groove in the spindle, allowing the cylinder to slide onto the spindle.

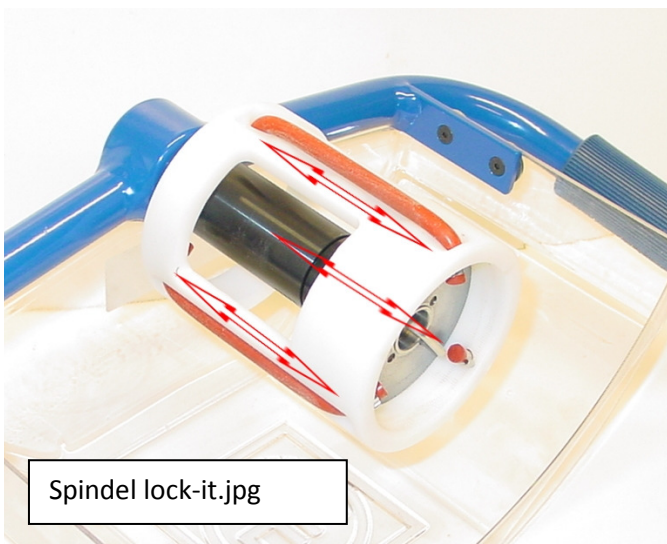


When the cylinder is in position, it is locked by a short turn to the right. The elastic cord is forced upwards from the groove, locking the cylinder in the chosen position.

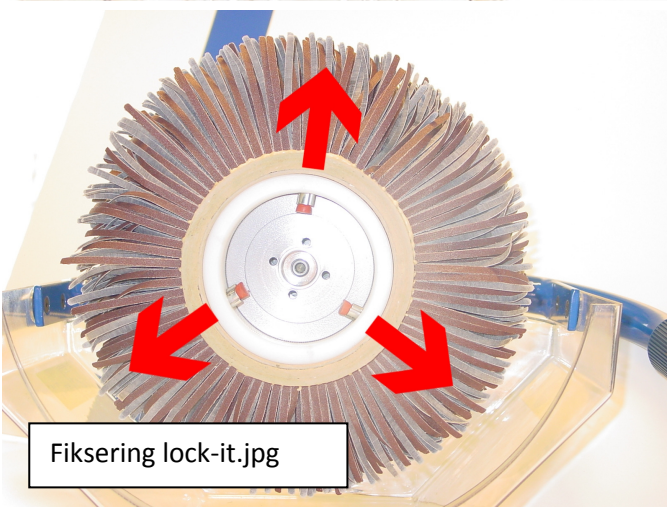
Considerable time saving is achieved when changing tools compared to conventional spindles which most often need flanges and screws for fixing tools on the spindle.

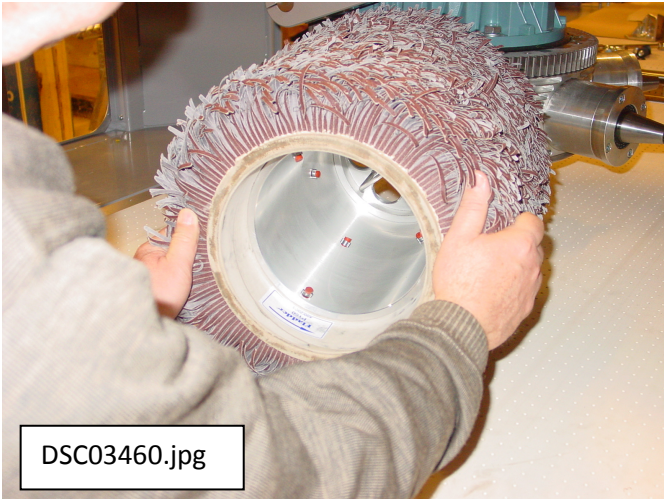


When mounting conventionally, the abrasive tool is fixed by means of an axial pressure between the end flanges.

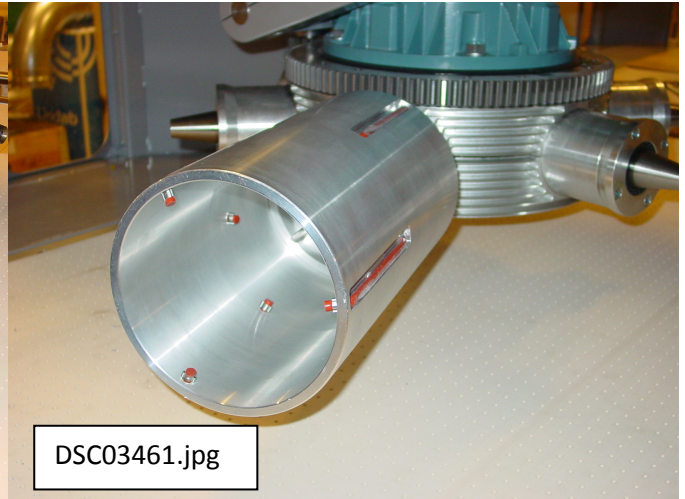


With the LOCK-IT system the abrasive tool is fixed radially in whole length of spindle by means of 3 elastic cords centering also the tool optimally.

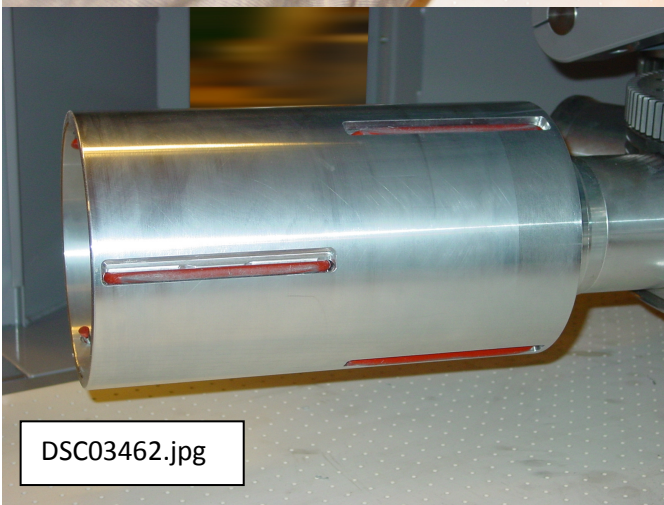




DSC03460.jpg



DSC03461.jpg



DSC03462.jpg

The tools are exchanged easily on the LOCK-IT spindles: The spindle is locked and the tool can be turned and pulled off – without using tools.

The pictures show how the spindle looks on our future machines.

The groove into which the strip is sliding when exchanging tools is clearly visible.

The spindle type is planned to be integrated in the whole Fladder® machine programme. Also, the LOCK-IT concept is planned to be offered for all suitable purposes.