



Novelty: ROSTA Double-Arm Tensioner Device Type DAT 45

Dear Sales Partner

Over the last months, we have been repeatedly confronted with enquiries regarding a double-arm tensioner. This tensioning element should be able to deliver a very large torque to a V-belt tensioning pulley, without any cardanic excursions occurring at the maximum pre-tension (parallelism errors square socket : outer housing) having an unfavourable effect on the belt alignment.

We have thereby developed our **DAT 45** model (**Double-Arm-Tensioner**). By means of the pair of arms welded onto the external square for the V-belt pulley mounting, we guide the force centrally into the axis of the element, and thereby prevent any parallelism error at maximum pre-tensioning, such as can occur with conventional single-arm mountings.

The tensioner device type DAT 45 can be mounted by means of the **flange of the inner cast square**, and can be tensioned like a standard tensioner of the SE 45 series (identical flange dimension), but the desired pre-tensioning now takes place by rotating the inner square using a ratchet or plier wrench (SW 45 mm). The friction grip (frictional connection) of the flange on the customer-supplied part of the machine is absolutely sufficient to hold the maximum pre-tensioning force (approx. factor 2 x).



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Where could the future applications for the **DAT 45** be found?

- In very long friction belt drives, where the tensioning rollers have to compensate for a relatively long path!
- In multiple V-belt drives with a high power transmission, where a large tensioning force is required!
- Anywhere where the given installation conditions do not permit the use of a ROSTA motorbase!
- Wherever a maintenance-free and slip-free frictional transmission of high torque is required!

What does a tensioner device type DAT 45 cost? Depending on the size of the production run, approx. 1 1/2 to 2 times as much as a standard tensioner device type SE 45.



With the DAT design as shown in the drawing SK 4584 A, we have been able to meet the above-mentioned customer wishes. Depending on the diameter of the V-belt pulley or the number of channels (multiple V-belt pulley), the lateral position or the length of the lever-arm pair can be varied on the outer square. For this reason, we have not standardised the tensioner device type DAT 45 or its outer square. We will

probably also not hold the indicated model in stock for the time being. **We will, however, stockpile large quantities of the inner component with mounting flange**, so that we will be able to comply with your specific design wishes for this double-arm tensioning element at short notice in the future.

