ATK-25
ALIGNMENT TOOL KIT

FEATURES

- Unique shaft alignment solution, specially designed for small equipment
- Works in crowded or constrained locations where other tools will not fit
- Measures parallel and angular alignment, for correction of pitch, yaw, vertical, and horizontal positioning
- For shaft sizes: Ø5 ... Ø25 mm (also suitable for Ø3/16 in ... Ø1 in)
- User friendly design

Fig. 1: ATK-25 Alignment Tool Kit

DESCRIPTION

Alignment is critical for rotating equipment. Poor alignment can cause:

- **Excessive Vibration:** Misaligned shafts lead to higher vibrations, which can result in mechanical failure or decreased performance
- **Increased Wear and Tear:** Bearings, seals, and couplings can experience premature wear due to the additional forces exerted by misaligned shafts
- **Equipment Failure:** Continuous operation with misaligned shafts can lead to mechanical failure, resulting in costly repairs and downtime
- **Reduced Quality:** In many industries, precision machinery is critical to maintaining product quality.

Fig. 2: ATK-25 Components

Proper alignment tools and techniques provide major benefits, and are essential to achieving:

- Smooth operation, with the lowest noise and highest performance
- Long lifespan of component parts and minimum maintenance costs
- Reliable Operation, with the minimum downtime
- High production quality

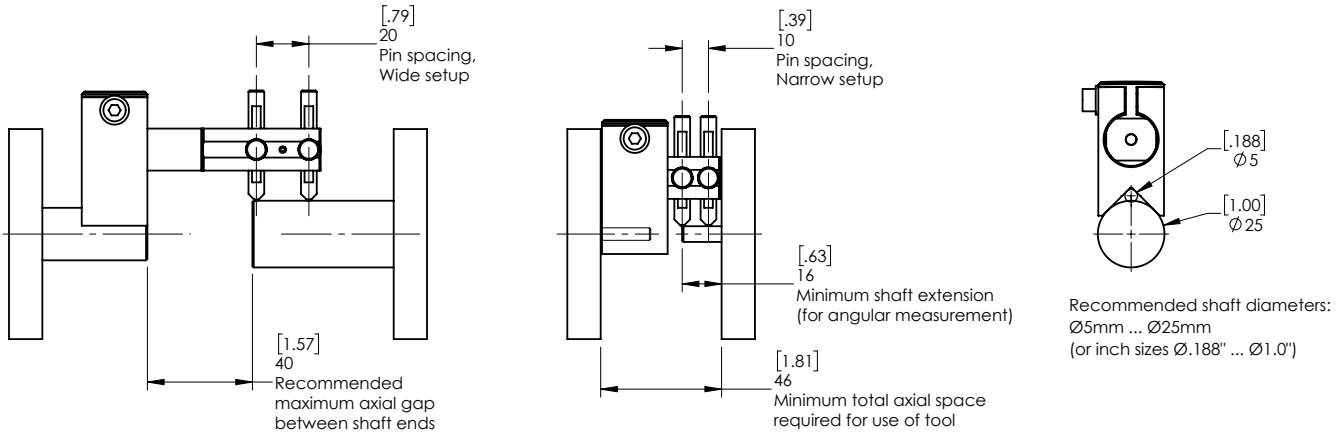
Motor testing also requires good shaft alignment to produce the most accurate and consistent results. Unfortunately, the shaft alignment solutions widely available are not designed for use with smaller equipment.

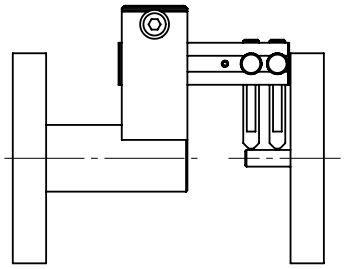
The ATK-25 is designed to solve shaft alignment issues for small to medium sized rotating equipment. The ATK needs little setup, does not clamp to the shafts, and easily fits into tightly constrained spaces.

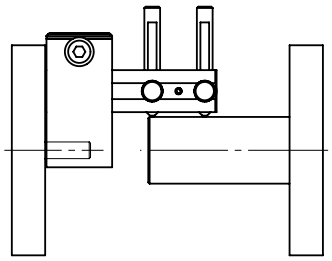
Held on the V-block of one shaft, the ATK measures two tangent points on the target shaft. From those two measurements, angle can be determined from rise-over-run. Parallel position can be determined by measuring the target shaft on two sides, 180° opposite.

The ATK-25 includes attachments to accommodate a range of axial spacings between shaft ends. It includes a high-quality depth indicator, and is supplied in a durable, fitted case with all necessary tools.

MOUNTING EXAMPLES







Maximum difference between
Target/Reference Shaft Diameters: 19mm*

*(*Maximum difference is reduced with increasing misalignment)*

NOTE: Units are millimeters [inches]

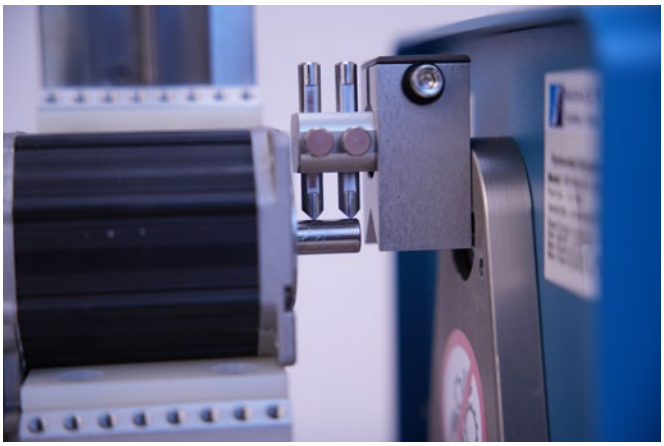


Fig. 3: Measuring alignment between an HD-500 Dynamometer and a small servo motor with a Ø3/8" output shaft.

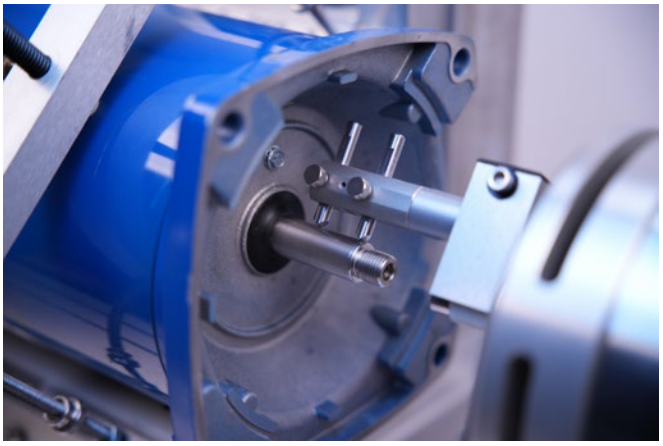


Fig. 4: Measuring alignment of a motor with an extended flange. The ATK can be used in tightly constrained spaces.

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