

PAC TAAM SYSTEM

OWNER'S MANUAL

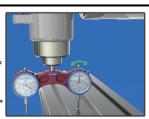
TRAMMING IS THE PROCESS OF SQUARING THE HEAD OF YOUR MILLING MACHINE TO THE TABLE. IF YOUR MILLI SHOOT TRAMMED PROPERLY, SURFACE FINISHES WILL BE POOR AND PARTS WILL NOT BELAT OR SQUARE. THE PROTRAM MAKES THE PROCESS OF TRAMMING YOUR MILLING MACHINE FAST, EASY AND ACCURATE.

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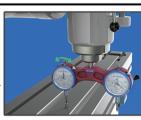
CALIBRATION

TO ACCOUNT FOR THE ERROR CAUSED BY INCONSISTENT COLLET SEATING IN THE SPINDLE, IT IS RECOMMENDED TO CHECK THE CALIBRATION OF THE PRO TRAM GAGE EVERY TIME IT IS USED. IN THE VIOLENCE OF THE CHECK THE COLLET THE THE COLLET THE COLLET THE COLLET THE COLLET THE COLLET THE COLLET THE SPINDLES AXIS OF ROTATION.

- Install the Pro Tram into spindle.
- PLACE CALIBRATION MAGNET ON THE TABLE UNDER ONE OF THE INDICATORS.



- LOWER SPINDLE UNTIL INDICATOR IS DEPRESSED ABOUT 0.100". THEN LOCK THE SPINDLE IN PLACE. BE SURE TO LOCK THE KNEE OF THE MILL AS WELL
- ROTATE THE FACE OF THE INDICATOR UNTIL THE NEEDLE READS ZERO. THEN ROTATE THE PRO TRAM UNIT 180 DEGREES SO THAT THE OTHER INDICATOR IS CONTACTING THE CALIBRATION MAGNET.
- ROTATE THE FACE OF THE SECOND INDICATOR UNTIL THE NEEDLE READS ZERO.



*AFTER CALIBRATION THE RIGHT AND LEFT INDICATOR FACES MAY BE ROTATED TO SLIGHTLY DIFFERENT POSITIONS. THIS IS CAUSED BY A SLIGHT VARIANCE IN INDICATOR LENGTH AND WILL NOT AFFECT THE FUNCTIONALITY OF THE UNIT.

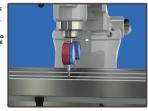


OPERATION

- INSTALL THE PRO TRAM INTO SPINDLE. LOCK THE KNEE OF THE MILL.
- POSITION THE PRO TRAM PARALLEL TO THE LENGTH OF THE MILLING MACHINE TABLE. THEN LOWER THE SPINDLE UNTIL BOTH INDICATORS ARE DEPRESSED BY ABOUT 0.050".
- MAKE ADJUSTMENTS TO THE HEAD OF THE MILLING MACHINE UNTIL BOTH INDICATORS READ THE SAME NUMBER. WHEN THIS IS ACCOMPLISHED THE FIRST AXIS OF THE MILLING MACHINE IS TRAMMED.



- POSITION THE PRO TRAM PERPENDICULAR TO THE LENGTH OF THE MILLING MACHINE TABLE. THEN LOWER THE SPINDLE UNTIL BOTH INDICATORS ARE DEPRESSED BY ABOUT 0.050".
- MAKE ADJUSTMENTS TO THE HEAD OF THE MILLINI MACHINE UNTIL BOTH INDICATORS READ THE SAMI NUMBER. WHEN THIS IS ACCOMPLISHED THE SECOND AXIS OF THE MILL IS TRAMMED.



CAUTION

WHEN INSTALLING OR REMOVING THE PRO TRAM FROM THE SPINDLE KEEP AT LEAST ONE HAND ON THE UNIT WHILE TICHTENING OR LOSSENING THE DRAW BAR. THIS WILL PREVENT THE UNIT FROM ACCIDENTLY FALLING OUT OF THE SPINDLE. IF NECESSARY PUTT THE MACHINE IN LOW GEAR TO ELIMIN ATE THE NEED TO HOLD THE MACHINE BRAKE LEVER WHILE TICHTENING OR LOOSENING THE DRAW BAR.