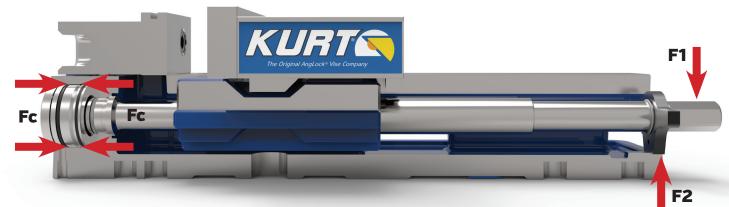
DX6[®] CrossOver[®] Vise Screw Support Function

SCREW SUPPORT

On the DX6, the screw support's primary function is to support the screw **(F2)** while the operator is applying a downward force **(F1)** on the handle while clamping the vise. It is the most crucial on smaller parts when the nut is far into the vise body and the screw is acting like a cantilever beam in bending when the input torque is applied. It does not act as a support for the clamp force **(Fc)**, that is done entirely by the bearing back located at the back of the vise (which was also upgraded from the D688). In the D688, the bearing back was on the same side as the handle, therefore did not need the addition of a screw support.



BODY

The D688 was a push type vise, where the DX6 is a pull type vise. This means is that the load bearing area of the vise changes from the front (near the handle), to the rear (under the stationary). The advantage of a pull type vise is that the clamp force is not transmitted through the body (D688 bearing pack and stationary on opposite ends of vise) reducing the chance of the body twisting/lifting under high clamp forces.



DEFLECTION

The DX6 was designed optimized using FEA to reduce jaw deflection. At 5,000 lbs clamp force, the DX6 is several tenths of an inch better then the D688. This is due to improvements in the body, stationary, stationary bolting, and changing from a push to pull type.

DX6[®] CrossOver[®] FEATURES COMPARISON TO D688 Vise:

DX6 is a replacement vise to D688 viseLarger opening (9.0" versus 8.8")Same bed height as D688

- •Narrower body style than D688 and allows more vises on machine table
- •Larger, stronger, and more durable bearing pack lasts longer
- •Same distance from the keyway to stationary as D688
- •Body height matched ±0.0005"

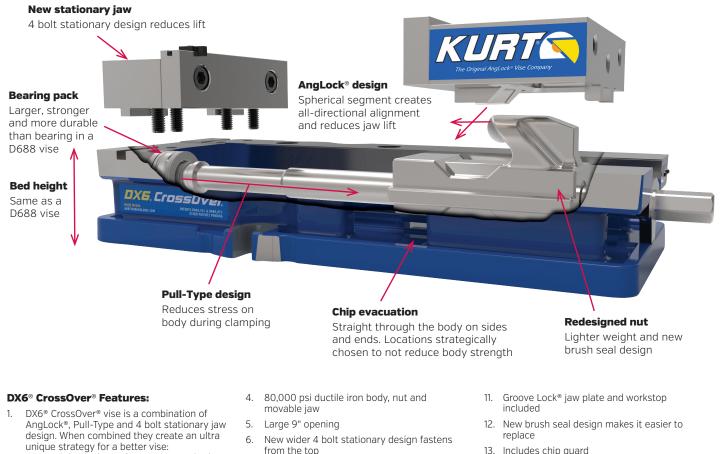
Kurt[®] Manufacturing

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DX6[®] CrossOver[®] Vise Features

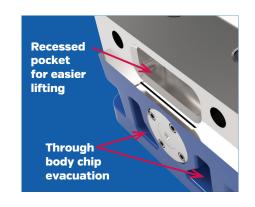


- AngLock[®] design reduces stress on body during clamping
- Pull-type design reduces stress on body during clamping - 4 bolt design reduces stationary jaw
- deflection and alleviates body stress
- 2. Hardened vise bed/iaw plates
- 3. Semi-hard steel screw

- from the top
- Bolts & locates on 40mm, 50mm 7. and 2" grid patterns
- Accepts sine keys for alignment 8. (not included)
- Chip evacuation straight through 9. the body
- 10. Screw support held in place with snap rings
- 13. Includes chip guard
- 14. Powder coat paint is long lasting and durable
- Matching of the bed heights or keyway to 15. stationary jaw (additional cost)
- 16. Fits on D50-4-SA swivel base
- 17. Lifetime Iron Clad Warranty



Includes Groove Lock® jaw plate and workstop G Crossov



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