Linkage play--your technique for consistency?

Posted by dgriff - 25 Feb 2012 14:28

Not mentioned much, if ever, is the effect of axial arm/paddle play and linkage play on the angle. Using the Angle Cube one can see fully a 1.5° angle change on my WEPS depending on how one holds the paddle.

The variation is the sum of the paddle and linkage play when you push the paddle in or pull the paddle out at the bottom. I think the best method is to push in, because it takes less effort, and if you relax your concentration, your hands will naturally fall inward.

When I want to check the nominal angle symmetry during setup--knife edge centered--I let the paddle drop all the way down so the link snuggles into the paddle's concave recess. This becomes my nominal angle, but likely not the exact angle depending on how I handle the handle....

How do others *handle* this? (no pun intended)

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Re: Linkage play--your technique for consistency?

Posted by Billabong - 25 Nov 2012 02:15

Mmm, thanks, I might move on this idea soon.

Need some space age material like this.

www.aircraftspruce.com/catalog/mepages/delrinrod.php

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Re: Linkage play--your technique for consistency?

Posted by JerryStephenson - 25 Nov 2012 02:40

Delrin is relatively soft and would load up with metal filings and diamond debris. I think it may be hard to beat good old fashioned steel in this application.

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Re: Linkage play--your technique for consistency?
Posted by Billabong - 25 Nov 2012 02:55

I thought you would say that.

Are there differing qualities of this SS rod?

I can't help remembering some high $ vehicle pushrods I bought once for a drag car. (alloy)

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Re: Linkage play--your technique for consistency?
Posted by Billabong - 31 Dec 2012 21:17

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xuzme720 wrote:

I personally think more length should help, not hurt. It might create a small issue with technique as you'll need to make sure the rod ends don't hit each other on alternating strokes, but other than that I see a longer rod eliminating some of the play since you'll always have more rod left in the paddle than you have now. Less chance for rocking moment.

I had some arms made two inches longer and loving them.

Highly recommend this.

Thinking I might raise the clamp even higher and go "another" inch or so on the arms.

Then I will be using "all" the stone at shallower angles.

Had a custom riser made and may machine the clamp sides as well.

Working on a rotating option for the vice also to remove the need for "packing" with FFG's.

Another idea is to have a base rail that the vise can slide along so I don't have to undo and move a long knife, I simply unlock and slide the clamped vice.

Perhaps two clamps or a front blade support on this rail?

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