



Unify thread rolling

2022.02

UM-3DX CNC (3-die type)

work piece diameter (mm)	ø18 - ø60	ø9 - ø40	
Axial Pitch for ISO threads	1. 0P ~ 6. 0P	0. 5P ~ 2. 5P	
Length of thread rolling	In feed 50mm	40mm	
	thru feed 500mm		
Spindle speed	220、360、560、750 r. p. m <servo motor>		
Thread rolling dies	Diameter	ø119	ø80
	Bore	ø40	ø25. 4
	Length	25、50mm	20, 40
	Keyway	8*4	1/4*1/8
Distance of the rolling spindles	105 - 190mm		
ouput/per min	4 ~ 25		
Swivelling angle	± 3°		
Servo Motor	3. 9kW		
Feeding servo motor	1. 7kW		
Feeding power	12 TON (ball screw)		
net weight	1570kg		
requpred space	1420mm×1100mm×1292mm		



UM-3DXCNC Component parts

Material:

1. Machine base: Steel plates from CSC Upper part: FC-25 ~FC-30 frame
2. Worm series : SNCM-21 tool steel with normalizing & carburizing progress.
3. Worm gears : phosphoric brone worm gear
4. Worm shafts : SNCM-21 tool steel with normalizing & carburizing progress. (Grinding threads)

Bearings:

1. Ball bearings : NTN, NSK
2. Roller bearings : NTN、URB // Needle bearings: IKO
3. Universal joints: KYOWA
4. Ball screws, Linear guide way: PMI

Servo motor & Controller

1. Main motor : 3.9kW servo motor (Syntec)
2. Feeding motor : 1.7kW servo motor (Syntec)
3. Controller: dialogue CNC (Syntec)