



Unify thread rolling machines & dies

UM-20 SPECIFICATION:

Work piece diameter (mm)		φ 4 - φ 20
Axial pitch for ISO threads (mm)		0.7P ~ 2.5P
Length of thread rolling (mm)		48 max
Spindle speed		45 rpm
thread rolling die (mm)	Diameter	φ 120 max
	Bore	φ 40
	Length	25, 50
	Keyway	8*4
Distance of the rolling spindle (mm)		110-145
output <pcs/min>		9~30
main power motor		3 HP (2.2 Kw)
net weight		780 kgs
gross weight		850 kgs
operation required space (mm)		1300 x 1400 x 1300



UM-20 component parts

Material & Metal Progress:

1. Machine base: High tension case iron FC-25 ~ FC-30 frame
2. Bronze Worm Gears : casting brone, phosphor bronze
3. Worm shafts & Gears : SNCM-21 tool steel, heat treatment progress (normalizing, carburizing progress.).
※grinding profiles for worm shafts (threads) & transmission gears

Bearings:

1. Ball bearings : NTN, NSK
2. Roller bearings : NTN , URB
3. Needle bearings : IKO
4. Universal joints : Cross head bearings -KYOWA

Electric parts:

1. Main motor : 3HP (Siemens or Teco)
2. Mechanical drive

優廉機器有限公司 UNION MACHINERY CO., LTD ※金友聯工業股份有限公司 KIM UNION INDUSTRIAL CO., LTD.

E-mail: kimunion@kimunion.com tel: +886-4-25331131

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Cam type UM-20

front view



transmission gears



Pulley & motor



Lub. System



coolant



panel



control box

