

# Handy

## Model selection standards

### Y pipe screw fastener space

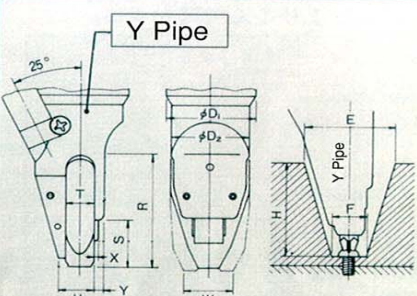
In the vis setter "Handy", the screws are automatically supplied, gripped in the Y pipe (driver tip) and jaws, and tightened completely. Selecting the right type of Y pipe to match the shape of the work is essential. Check the following items and select the right type of screw fastener.

#### Head shapes

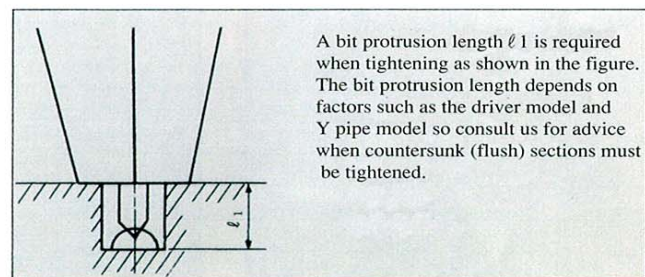
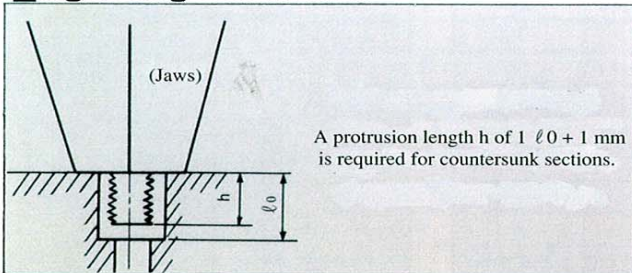
Small screws									Wood screws			
A			B <sub>1</sub>			B <sub>2</sub>			C	A	B <sub>1</sub>	
Pan	Round	Flat Cylinder	Fillister	Flat	Oval	Binding	Brazier	Truss	Round	Flat	Oval	

#### Driver tip sizes and tightening space

Item	Screw type and size				Driver (Y pipe) tip sizes											Tightening space			
	Head shape	A	B <sub>1</sub>	B <sub>2</sub>	C	φ D <sub>1</sub>	φ D <sub>2</sub>	R	S	T	U	* W	Y	X	E	F	H		
Model 35	M 2.5	○	○	○				43	18						0.5	28	14	26	
	M 3	○	○	○			26			8	10	15							
	2.7 Wood screw	○	○	○				48	23										
	3.1 Wood screw	○	○	○															
Model 40S	M 3				○	32	29	47	19	10	12	16							
	M 4	○	○	○			29	47	19	10	12	18	3	1	32	16	28		
	3.1 Wood screw	○	○				26	48		8	10	16			0.5	28	14	26	
	3.5 Wood screw	○	○				29	51	23	10	12	18							
Model 40	M 4				○		32	50											
	M 5	○				35	33	53		11	13	22			34	16	34		
Model 50	M 5	○																	



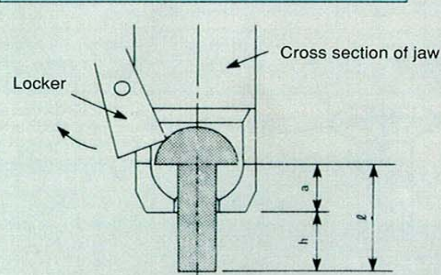
#### Tightening countersunk



#### Jaw screw grip dimensions (chucking margin)

$h$     $\ell$     $a$

(Protrusion length) = (under-neck length) (chucking margin)



"a" dimension table

Screw type	a mm	
M 2.6	A	4.5
	B <sub>1</sub>	5
	B <sub>2</sub>	4.5
2.7 Wood screw	A	9
	B <sub>1</sub>	10.5
M 3	A	4
	B <sub>1</sub>	5
	B <sub>2</sub>	4.5
3.1 Wood screw	C	5
	A	9
	B <sub>1</sub>	10.5

Screw type	a mm	
3.5 Wood screw	A	8.5
	B <sub>1</sub>	10.5
M 4	A	4
	B <sub>1</sub>	5.5
	B <sub>2</sub>	4
	C	6
M 5	A	5
M 6	A	7.5

<Example> M3 × 15 ℓ pan-head screws (30A)  
h = 15 - 4 = 11 mm

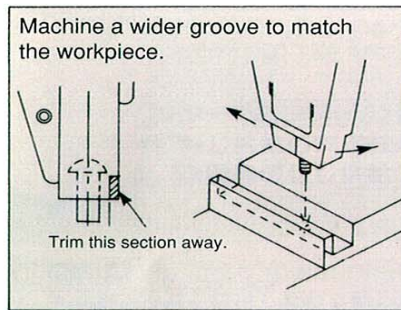
\* For Sems (with spring-washers) set the bottom length from the washer as ℓ.  
\* In wood screws, the rocker doesn't usually move. Dimensions are listed for rocker.



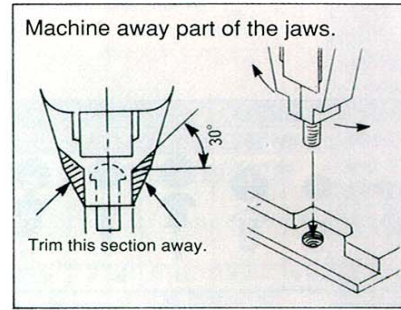
## Y pipe setup examples

Besides typical machine screw setter specifications, the Handy accepts various kinds of work shapes by machining the jaw shapes, installing workpiece jigs, and machining the Y pipe shapes.

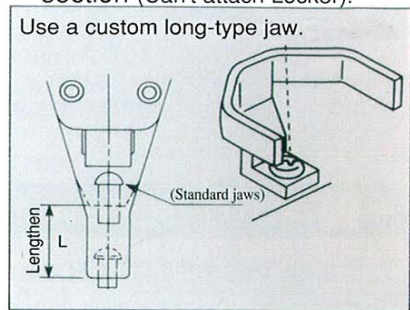
**A** No tightening space for the jaws.



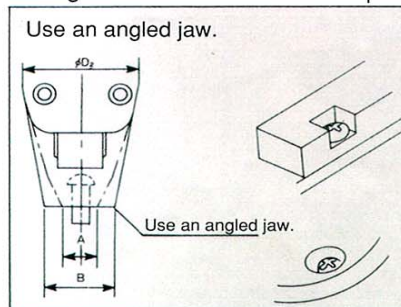
**B** No tightening space for the jaws.



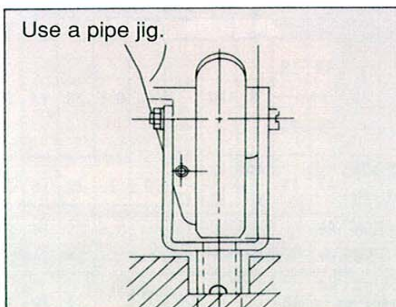
**C** Protrusions on both sides of workpiece screw tightening section (Can't attach Locker).



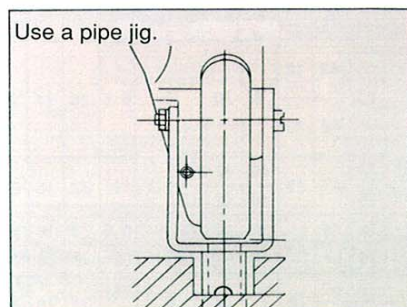
**D** Tip of standard jaw sticks in groove or hole and won't open.



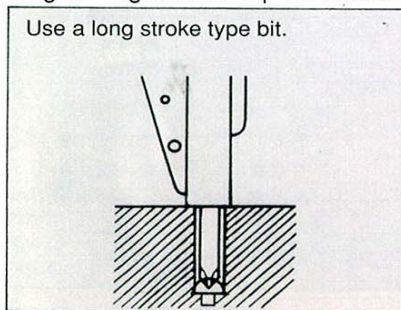
**E** Jaw tip does not reach screw hole.



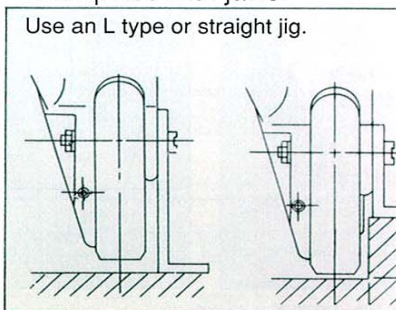
**F** Y pipe interferes with the workpiece.



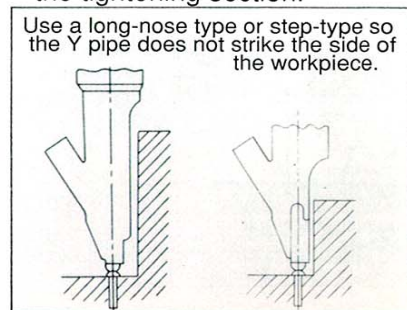
**G** Hole in workpiece for screw-tightening is too deep and narrow.



**H** Worried about scratching workpiece with jaws.



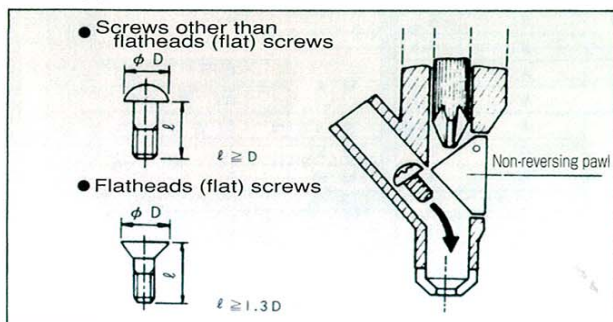
**I** There is a high step next to the tightening section.



## Typical Examples

### Screws smaller than minimum length

When screw length is smaller than the standard minimum length shown on pages 1 and 2, tighten by fitting on a Guide piece in the Y pipe.



### Nipple temporary -tightening fastener

Nipple temporary-tightening jobs can be done by just machining the driver bit.

Use for bicycle and motorcycle assembly jobs.

