1. General dimension tolerance for parts formed by press working from sheet metal JIS B 0408-1991-

Table 1. General dimens	ion tolerances	s of punching	Units: mm				
Standard dimension		Grade					
Standard dimension	Grade A	Grade B	Grade C				
No more than 6	±0.05	±0.1	±0.3				
More than 6 No more than 30	±0.1	±0.2	±0.5				
More than 30 No more than 120	±0.15	±0.3	±0.8				
More than 120 No more than 400	±0.2	±0.5	±1.2				
More than 400 No more than 1000	±0.3	±0.8	±2				
More than 1000 No more than 2000	±0.5	±1.2	±3				

Note Grade A, B, and C are equivalent to tolerance grades f, m, and c in JIS B 0405.

Table 2. General dimensional tolerances of bending and drawing Units: mm

, , , , , , , , , , , , , , ,							
Standard dimension	Grade						
Stanuaru unnension	Grade A	Grade B	Grade C				
No more than 6	±0.1	±0.3	±0.5				
More than 6 No more than 30	±0.2	±0.5	±1				
More than 30 No more than 120	±0.3	±0.8	±1.5				
More than 120 No more than 400	±0.5	±1.2	±2.5				
More than 400 No more than 1000	±0.8	±2	±4				
More than 1000 No more than 2000	±1.2	±3	±6				

Note Grade A, B, and C are equivalent to tolerance grades f, m, and c in JIS B 0405.

2. General tolerances for parts formed by shear from metal plates JIS B 0410-1991-

Table 1. General dimen		Units: mm						
				Material thick	ness (t) class			
Standard dimension	t≦	1.6	1.6<	(t ≦ 3	3<	t ≦ 6	6 <t< td=""><td><u>'</u>≦12</td></t<>	<u>'</u> ≦12
Statiuaru utilietistoti				Gra	ade			
	Grade A	Grade B	Grade A	Grade B	Grade A	Grade B	Grade A	Grade B
No more than 30	±0.1	±0.3	_	_	_	_	_	_
More than 30 No more than 120	±0.2	±0.5	±0.3	±0.5	±0.8	±1.2	_	±1.5
More than 120 No more than 400	±0.3	±0.8	±0.4	±0.8	±1	±1.5	_	±2
More than 400 No more than 1000	±0.5	±1	±0.5	±1.2	±1.5	±2	_	±2.5
More than 1000 No more than 2000	±0.8	±1.5	±0.8	±2	±2	±3	_	±3
More than 2000 No more than 4000	±1.2	±2	±1.2	±2.5	±3	±4	_	±4

Table 2 General tolorances of straightness

lable 2. General tolerances of straightness Units: mm										
		Material thickness (t) class								
Naminal dimension of and launth	t≦	1.6	1.6<	(t ≦ 3	3<	t ≦ 6	6 <t≦12< td=""></t≦12<>			
Nominal dimension of cut length				Gra	ide					
	Grade A	Grade B	Grade A	Grade B	Grade A	Grade B	Grade A	Grade B		
No more than 30	0.1	0.2	_	_	_	_	_	_		
More than 30 No more than 120	0.2	0.3	0.2	0.3	0.5	0.8	-	1.5		
More than 120 No more than 400	0.3	0.5	0.3	0.5	0.8	1.5	_	2		
More than 400 No more than 1000	0.5	0.8	0.5	1	1.5	2	_	3		
More than 1000 No more than 2000	0.8	1.2	0.8	1.5	2	3	-	4		
More than 2000 No more than 4000	1.2	2	1.2	2.5	3	5	1	6		

Table 3. General tolerances for perpendicularity

able 3. General tolerances for perpendicularity Units: mm								
			Material thick	ness (t) class				
Nominal length of short	t≦	≦3	3<	t ≦ 6	6 <t< td=""><td>≦12</td></t<>	≦ 12		
side			Gra	ade				
	Grade A	Grade B	Grade A	Grade B	Grade A	Grade B		
No more than 30	_	_	_	_	_	_		
More than 30 No more than 120	0.3	0.5	0.5	0.8	_	1.5		
More than 120 No more than 400	0.8	1.2	1	1.5	_	2		
More than 400 No more than 1000	1.5	3	2	3	-	3		
More than 1000 No more than 2000	3	6	4	6	_	6		
Mara than 2000. No mara than 4000	C	10	c	10		10		

1. Regular cut dimension tolerance JIS B 0405 -1991-

Tolerances for length excluding chamfered portion

Tolerance	lerances for length excluding chamfered portion Units:								
Tolerar	ice class		Standard dimension range						
Symbol	Description	Over 0.5 (1) to 3 incl.	Over 3 to 6 incl.	Over 6 to 30 incl.	Over 30 to 120 incl.	Over 120 to 400 incl.	Over 400 to 1000 incl.	Over 1000 to 2000 incl.	Over 2000 to 4000 incl.
					Toler	ance			
f	Precision grade	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5	_
m	Medium class	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
C	Coarse class	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	±4
V	Very coarse class	_	±0.5	±1	±1.5	±2.5	±4	±6	±8
/1\ T				0.5 1 11.1					

Note (1): Tolerances for standard dimensions of less than 0.5 mm shall be specified individually

2. Tolerance for length of chamfered portion 3. Angle tolerance (radius of rounding for edges and edge

chamfering dimension)

Ullul	Units: mm					
Toleran	ce class	Stand	ard dimension	range		
		Over 0.5				
Symbol	Description	(²) to	Over 3 to 6 incl.	Over 6		
Syllibul	Description	3 incl.				
		Tolerance				
f	Precision grade	±0.2	±0.5	±1		
m	Medium class		0.5	エリ		
C	Coarse class	±0.4	±1	±2		
V	Very coarse class		'			
Note (2)	Toleranc	es for stand	lard dimens	ions of less		

than 0.5 mm shall be specified individually.

Tolera	ice class	Length of shorter side of angle							
				$(\textbf{Units:}\ \textbf{mm})$					
Symbol	Symbol Description	10 or less	Over 10 to 50 incl.	Over 50 to 120 incl.	Over 120 to 400 incl.	Over 400			
		Tolerance							
f	Precision grade	±1°	±1° ±30′	±20′	±10′	± 5′			
m	Medium class	'	30		10	3			
C	Coarse class	±1°30′	± 1°	±30´	±15′	±10′			
V	Very coarse class	±3°	± 2°	± 1°	±30′	±20′			

4. Regular perpendicularity tolerance JIS B 0419 - 1991 -

Units: min									
	Nominal length on shorter side								
Tolerance class	100 or less	Over 1000 to 3000 incl.							
	Perpendicularity tolerance								
Н	0.2	0.3	0.4	0.5					
K	0.4	0.6	0.8	1					
L	0.6	1	1.5	2					

5. Regular straightness and flatness tolerance US B 0419 - 1991 -

J. Hegulai Straigi	Units: mm								
			Nomina	l length					
Tolerance class	10 or less	Over 10 to 30 incl.	Over 30 to 100 incl.	Over 100 to 300 incl.	Over 300 to 1000 incl.	Over 1000 to 3000 incl.			
			Straightness and	flatness tolerance					
Н	0.02	0.05	0.1	0.2	0.3	0.4			
K	0.05	0.1	0.2	0.4	0.6	0.8			
L	0.1	0.2	0.4	0.8	1.2	1.6			

5. Regular symmetry tolerance Units: mm									
		Nominal length							
Tolerance class	100 or less	100 or less							
	Symmetry tolerance								
Н	0.5								
K	0	.6	0.8	1					
L	0.6	1	1.5	2					

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