

TRADE MAX



PNEUMATIC / HYDRAULIC / ELECTRIC TAPPING MACHINE

SAFE,
RAPID AND EFFICIENT,
ABLE TO SOLVE ALL TAPPING PROBLEMS.



TRADE MAX



COMPANY PROFILE

Maho Enterprise Co., Ltd. was established in 1988, and accompanies with the trade marks **TRADE MAX** to all over the world. To construct long-term cooperation relationship with our clients, Maho got reputation from the tapping field that had many exclusive monopolies.

Maho was specialized in Pneumatic tapping machine, Hydraulic tapping machine, Electric tapping machine and relative accessories, including tap holder and quick change tapping chuck in Taiwan have been 25 years.

For the international trend, Maho are attending importance to brain gain, staff training in order to bring out the best quality, and innovation. Our company also has invested a lot of capital and developing people to develop the tapping machines and accessories to meet the needs of market continuously. To offer professional service, Maho provide the service and technical support for all of our customers.



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TRADE MAX PNEUMATIC TAPPING MACHINE

Type AQ-08, 12, 16



Model	AQ-08-950	AQ-12-950	AQ-16-950
For Tap	M2~M8	M3~M12	M3~M16
Speed (rpm)	700	400	300
Work Range	Rmax 950 mm Rmin 100 mm		
Weight (kg)	16	16	24
Code	0134 00010208	0134 00010312	0134 00010316

Example for ordering :
AQ-08-950 TCS1B/ØX□—SIX

STANDARD ACCESSORIES

- Pneumatic tapping spindle
- Stretch arm
- Slanted arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters

Type AQ-20, 22, 24, 27, 30

Model	AQ-20-1000	AQ-22-1000	AQ-24-1000	AQ-27-1000	AQ-30-1000
For Tap	M3~M20	M3~M22	M3~M24	M3~M27	M3~M30
Speed (rpm)	150/400	120/300	100/300	70/220	40/200
Work Range	Rmax 1000 mm Rmin 100 mm				
Weight (kg)	25	25	25	25	25
Code	0134 00010320	0134 00010322	0134 00010324	0134 00010327	0134 00010330

Example for ordering :
AQ-22-1000 TCS2B/ØX□—SIX

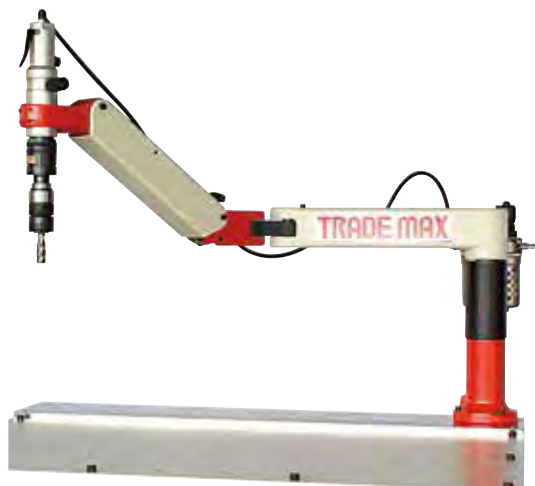
Patent on record

STANDARD ACCESSORIES

- Pneumatic tapping spindle
- Stretch arm
- Slanted arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters

TRADE MAX PNEUMATIC TAPPING MACHINE

Type AR-16, 20, 22, 24, 27, 30



Model	AR-16	AR-20	AR-22
For Tap	M3~M16	M3~M20	M3~M22
Speed (rpm)	300	150/400	120/300
Work Range	Rmax 1100 mm Rmin 250 mm		
Weight (kg)	35	35	35
Code	0138 00000316	0138 00000320	0138 00000322

Model	AR-24	AR-27	AR-30
For Tap	M3~M24	M3~M27	M3~M30
Speed (rpm)	100/300	70/220	40/200
Work Range	Rmax 1100 mm Rmin 250 mm		
Weight (kg)	35	35	35
Code	0138 00000324	0138 00000327	0138 00000330

Example for ordering :
AE-08-700 TCS1B/ØX□—SIX

STANDARD ACCESSORIES

- Pneumatic tapping spindle
- Stretch arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters

TRADE MAX PNEUMATIC TAPPING MACHINE

Type AS-08, 12, 16



Model	AS-08 / II	AS-12 / II	AS-16/ II
For Tap	M2~M8	M3~M12	M3~M16
Speed (rpm)	700	400	300
Work Range	Rmax 1400 mm Rmin 200 mm		
Weight (kg)	21	21	26
Code	0131 00010208	0131 00010312	0131 00010316

Example for ordering :
AS-08 / II TCS1B/ØX□—SIX

STANDARD ACCESSORIES

- Pneumatic tapping spindle
- Stretch arm
- Slanted arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters

Type AS-20, 22, 24, 27, 30

Model	AS-20 / II	AS-22 / II	AS-24 / II	AS-27 / II	AS-30 / II
For Tap	M3~M20	M3~M22	M3~M24	M3~M27	M3~M30
Speed (rpm)	150/400	120/300	100/300	70/220	40/200
Work Range	Rmax 1400 mm Rmin 200 mm				
Weight (kg)	27	27	27	27	27
Code	0131 00010320	0131 00010322	0131 00010324	0131 00010327	0131 00010330

Example for ordering :
AS-20 / II TCS2B/ØX□—SIX

Patent on record

STANDARD ACCESSORIES

- Pneumatic tapping spindle
- Stretch arm
- Slanted arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters



TRADE MAX PNEUMATIC TAPPING MACHINE

Type AT-08, 12, 16



Model	AT-08 / I	AT-12 / I	AT-16 / I
For Tap	M2~M8	M3~M12	M3~M16
Speed (rpm)	700	400	300
Work Range	Rmax 1600 mm Rmin 500 mm		
Weight (kg)	20	20	25
Code	0130 00000208	0130 00000312	0130 00000316

Example for ordering :

AT-08 / I TCS1B/ØX□—SIX

STANDARD ACCESSORIES :

- Pneumatic tapping spindle
- Stretch arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters

Type AT-20, 22, 24, 27, 30



Model	AT-20 / I	AT-22 / I	AT-24 / I	AT-27 / I	AT-30 / I
For Tap	M3~M20	M3~M22	M3~M24	M3~M27	M3~M30
Speed (rpm)	150/400	120/300	100/300	70/220	40/200
Work Range	Rmax 1600 mm Rmin 500 mm				
Weight (kg)	36	36	36	36	36
Code	0130 00000320	0130 00000322	0130 00000324	0130 00000327	0130 00000330

Example for ordering :

AT-20 / I TCS2B/ØX□—SIX

Patent on record

STANDARD ACCESSORIES

- Pneumatic tapping spindle
- Stretch arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters

TRADE MAX PNEUMATIC TAPPING MACHINE

Type AT-08, 12



Model	AT-08 / II	AT-12 / II	AT-16 / II
For Tap	M2~M8	M3~M12	M3~M16
Speed (rpm)	700	400	300
Work Range	Rmax 1900 mm Rmin 200 mm		
Weight (kg)	23	23	27
Code	0130 00010208	0130 00010312	0130 00010316

Example for ordering :
AT-08 / II TCS1B/ØX□—SIX

STANDARD ACCESSORIES

- Pneumatic tapping spindle
- Stretch arm
- Slanted arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters

Type AT-20, 22, 24, 27, 30



Model	AT-20 / II	AT-22 / II	AT-24 / II	AT-27 / II	AT-30 / II
For Tap	M3~M20	M3~M22	M3~M24	M3~M27	M3~M30
Speed (rpm)	150 / 400	120 / 300	100/300	70 / 220	40 / 200
Work Range	Rmax 1900 mm Rmin 200 mm				
Weight (kg)	38	38	38	38	38
Code	0130 00010320	0130 00010322	0130 00010324	0130 00010327	0130 00010330

Example for ordering :
AT-20 / II TCS2B/ØX□—SIX

Patent on record

STANDARD ACCESSORIES

- Pneumatic tapping spindle
- Stretch arm
- Slanted arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters

TRADE MAX SPECIAL ACCESSORIES OF PNEUMATIC TAPPING MACHINE

90° and Various Degree Tapping Device
Patent on record



Model	Weight (kg)	Code
AQ.AS.AT08-90°	2	0133 00000890
AQ.AS.AT12-90°	2	0133 00001290



Model	Weight (kg)	Code
AQ.AS.AT16-90°	2	0133 00001690
AQ.AS.AT20-90°	2	0133 00002090
AQ.AS.AT22-90°	2	0133 00002290
AQ.AS.AT24-90°	2	0133 00002490
AQ.AS.AT27-90°	2	0133 00002790
AQ.AS.AT30-90°	2	0133 00003090

TRADE MAX PORTABLE & MOVEABLE MAGNETIC BASE



Model	Magnetic Base		Model for Magnetic	Weight (kg)	Code
	Holding power	Dimension			
TLM-300	300 kg	L×W×H(mm) 150×90×93	AQ. AE . AS . AT08. AT12 . AT16	10	0133 00000300
TLM-600	600 kg	L×W×H(mm) 224×115×120	AT20 . AT22.AT24. AT27. AT30	23	0133 00000600



TM 800037
Auto Reverse Device

SPECIAL ACCESSORIES OF PNEUMATIC/HYDRAULIC/ ELECTRIC TAPPING MACHINE

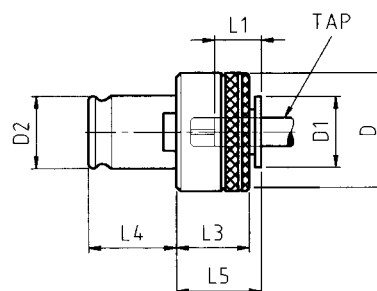


TM 800030
Automatic Tap
Lubricator System



TM 800032
Cast Iron Work cart
Dimension : 900×630×900mm
Weight : 200kg

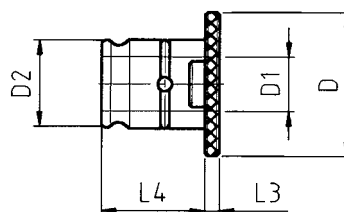
Adaptor Type TCS-B with safety clutch



Example for ordering :
TCS1B/MB JIS

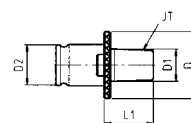
Model	For Tap	Suitable Adaptor Size	D	D ₁	D ₂	L ₁	L ₃	L ₄	L ₅	Weight (kg)	Code
TCS 1B	M2 ~ M14	1	32	19	19	17	25	21.5	25	0.15	0210 06001***
TCS 2B	M6 ~ M30	2	50	30	31	30	31	35	33	0.55	0210 06002***
TCS 3B	M16 ~ M42	3	72	47	48	44	41	55.5	50	1.70	0210 08003***
TCS 4B	M22 ~ M58	4	95	60	60	(33)	16	63	73	3.30	0210 07084***

Adaptor Type TRE for reducing



Model	Suitable Adaptors Size	For Adaptor Size	D	D ₁	D ₂	L ₃	L ₄	Weight (kg)	Code
TRE 2/1	2	1	48	19	31	5	35	0.17	0210 00000021
TRE 3/2	3	2	70	31	48	6	55.5	0.60	0210 00000032
TRE 4/2	4	2	92	31	60	13	63	1.00	0210 00000042
TRE 4/3	4	3	92	48	60	13	63	1.00	0210 00000043

DRILL CHUCK COLLET



Model	For Drill Clfuck	Capacity (mm)	D	D ₁	D ₂	L ₁	Weight (kg)	Code
TC1 / JT2	8H	0 - 8	30	13.94	19	31	0.06	0210 00000012
TC1 / JT6	13H	0 - 12	30	17.17	19	34	0.06	0210 00000016
TC2 / JT6	13H	0 - 12	48	17.17	31	37	0.3	0210 00000026

DRILL CHUCK



Model	Capacity		Taper Mount No. Din or Jacobs	Length (m/m)		Outer Dia (m/m)	Weight (kg)	QTY Pas/Cu-Ft	N.W/GW kgs	Code
	mm	inch		Open	Closed					
8H	0 - 8	0 - 5/16	JT2	68	76	38	0.39	40/0.4	16/17	0751 00123022
13H	0 - 13	0 - 1/2	JT6	90	102	48	0.92	25/0.4	23/24	0751 00123042

Type ATH-12-1

Pneumatic Various degree Tapping Hand Tool



Type ATH-12-2

Pneumatic Chuck Tapping Hand Tool



Type ATH-12-3

Pneumatic Torsional Tapping Hand Tool



Model	For Tap	Speed (rpm)	Spindle Type	Max. Air Consumption (Nm ³ / min)	Air Hose Size (mm)	Weight (kg)	Parts	Code
ATH-12-1	M2 ~ M12	250	HTP/B12	0.4	9.5	2.5	Wrench	0136 00000121
ATH-12-2	M2 ~ M12	250	CAP10/B12	0.4	9.5	2.5	Wrench	0136 00000122
ATH-12-3	M2 ~ M12	250	TH1/B12	0.4	9.5	4	W/6pcs Torsional Collets + Wrench	0136 00000123

Type HMT-22



Model		HMT-22
For Tap		M3 ~ M22
Speed (rpm)		0 ~ 400
Work Range	Rmax (mm)	1600
	Rmin (mm)	200
Voltage		220/380 V, 50/60 Hz, 3-PHASE
Electric Motor		3 HP
Hydraulic Pressure		100 kg/cm ²
Weight (kg)		400 / 500
Code		0135 00000322

STANDARD ACCESSORIES

- Hydraulic tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Cast iron work cart
- Electric Motor, Hydraulic Pump, Hydraulic Box
- Electric - Controlled Device

Type HMT-32



Model		HMT-32
For Tap		M4 ~ M32
Speed (rpm)		0~500 / 0~105
Work Range	Rmax (mm)	1600
	Rmin (mm)	200
Voltage		220/380 V, 50/60 Hz, 3-PHASE
Electric Motor		3 HP
Hydraulic Pressure		100 kg/cm ²
Weight (kg)		400 / 500
Code		0135 00000432

STANDARD ACCESSORIES

- Hydraulic tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Cast iron work cart
- Electric Motor, Hydraulic Pump, Hydraulic Box
- Electric - Controlled Device

Type HMT-42



Model		HMT-42
For Tap		M4 ~ M42
Speed (rpm)		0~400 / 0~75
Work Range	Rmax (mm)	1600
	Rmin (mm)	200
Voltage		220/380 V, 50/60 Hz, 3-PHASE
Electric Motor		3 HP
Hydraulic Pressure		100 kg/cm ²
Weight (kg)		400 / 500
Code		0135 00000442

STANDARD ACCESSORIES

- Hydraulic tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Cast iron work cart
- Electric Motor, Hydraulic Pump, Hydraulic Box
- Electric - Controlled Device

Type HMT-50



Model		HMT-50
For Tap		M8 ~ M50
Speed (rpm)		0 ~ 360 / 0 ~ 60
Work Range	Rmax (mm)	1600
	Rmin (mm)	200
Voltage		220/380 V, 50/60 Hz, 3-PHASE
Electric Motor		5 HP
Hydraulic Pressure		140 kg/cm ²
Weight (kg)		400 / 500
Code		0135 00000850

STANDARD ACCESSORIES

- Hydraulic tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Cast iron work cart
- Electric Motor, Hydraulic Pump, Hydraulic Box
- Electric - Controlled Device

Type HMT-60



Model		HMT-60
For Tap		M8 ~ M60
Speed (rpm)		0 ~ 360 / 0 ~ 60
Work Range	Rmax (mm)	1600
	Rmin (mm)	200
Voltage		220/380 V, 50/60 Hz, 3-PHASE
Electric Motor		10 HP
Hydraulic Pressure		140 kg/cm ²
Weight (kg)		750 / 850
Code		0135 00000860

STANDARD ACCESSORIES

- Hydraulic tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Cast iron work cart
- Electric Motor, Hydraulic Pump, Hydraulic Box
- Electric - Controlled Device

SPECIAL ACCESSORIES OF HYDRAULIC TAPPING MACHINE



TM 800035
90° and Various degree tapping device



TM 800036
Depth Controller

Patent on record

TRADE MAX CE HYDRAULIC TAPPING MACHINE

Type HM-22



Type HM-32



Type HM-42



Type HM-50



Type HM-60



Patent on record

STANDARD ACCESSORIES

- Hydraulic tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Work Cart
- Electric Motor, Hydraulic Pump, Hydraulic Box
- Electric - Controlled Device

Model		HM-22	HM-32	HM-42	HM-50	HM-60
For Tap		M3 ~ M22	M4 ~ M32	M4 ~ M42	M8 ~ M50	M8 ~ M60
Speed (rpm)		0~400	0~500 / 0~105	0~400 / 0~75	0~360 / 0~60	0~360 / 0~60
Work Range	Rmax (mm)	1600	1600	1600	1600	1600
	Rmin (mm)	200	200	200	200	200
Voltage		220/380 V, 50/60 Hz, 3-PHASE				
Electric Motor		3 HP	3 HP	3 HP	5 HP	10 HP
Hydraulic Pressure		100 kg/cm ²	100 kg/cm ²	100 kg/cm ²	140 kg/cm ²	140 kg/cm ²
Weight (kg)		300 / 400	300 / 400	300 / 400	300 / 400	450 / 550
Code		0135 10000322	0135 10000432	0135 10000442	0135 10000850	0135 10000860

Type DMR-16, 24, 32



Image for reference only. Standard Accessories Exclusive of work cart.

Model		DMR-16	DMR-24
For Tap		M3 ~ M16	M3 ~ M24
Speed (rpm)		0~400 / 0~130	0~350 / 0~110
Work Range	Rmax (mm)	1100	1100
	Rmin (mm)	250	250
Voltage		220 V Single-PHASE	
Electric Motor		0.4 kw	0.6 kw
Weight (kg)		35 / 40	35 / 40
Code		0139 10000316	0139 10000324

Patent on record

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric - Controlled Device

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart

Model		DMR-32
For Tap		M3 ~ M32
Speed (rpm)		0~350 / 0~70
Work Range	Rmax (mm)	1100
	Rmin (mm)	250
Voltage		220 V Single-PHASE
Electric Motor		0.75 kw
Weight (kg)		60 / 65
Code		0139 10000332

Patent on record

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric - Controlled Device

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart

Type DMT-16, 24



Image for reference only. Standard Accessories Exclusive of work cart.

Model		DMT-16	DMT-24
For Tap		M3 ~ M16	M3 ~ M24
Speed (rpm)		0~400 / 0~130	0~350 / 0~110
Work Range	Rmax (mm)	1500	1500
	Rmin (mm)	200	200
Voltage		220 V Single-PHASE	
Electric Motor		0.4 kw	0.6 kw
Weight (kg)		35 / 40	35 / 40
Code		0137 10000316	0137 10000324

Patent on record

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric - Controlled Device

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart

Type DMT-32



Image for reference only. Standard Accessories Exclusive of work cart.

Model		DMT-32
For Tap		M3 ~ M32
Speed (rpm)		0~350 / 0~70
Work Range	Rmax (mm)	1500
	Rmin (mm)	200
Voltage		220 V Single-PHASE
Electric Motor		0.75 kw
Weight (kg)		60 / 65
Code		0137 10000332

Patent on record

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric - Controlled Device

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart

Type EMAQ-32



Image for reference only. Standard Accessories Exclusive of work cart.

Model		EMAQ-32
For Tap		M3 ~ M32
Speed (rpm)		0~300 / 0~60
Work Range	Rmax (mm)	1000
	Rmin (mm)	100
Voltage		220 V Single-PHASE
Electric Motor		0.75 kw
Weight (kg)		60/65
Code		0140 10000332

Patent on record

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric - Controlled Device
- Digital readout manual panel
- Depth controller, reverse in automatic

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart

Type EMAT-32



Image for reference only. Standard Accessories Exclusive of work cart.

Model		EMAT-32
For Tap		M3 ~ M32
Speed (rpm)		0~300 / 0~60
Work Range	Rmax (mm)	1900
	Rmin (mm)	200
Voltage		220 V Single-PHASE
Electric Motor		0.75 kw
Weight (kg)		65/70
Code		0141 10000332

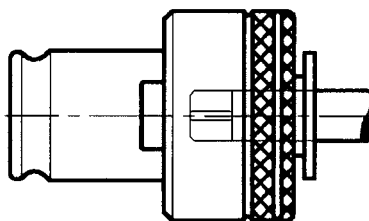
Patent on record

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric - Controlled Device
- Digital readout manual panel
- Depth controller, reverse in automatic

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart



JIS

Metric	UNC	Dimension	
		Dia Ø	Square □
M2		3	2.5
M3		4	3.2
M4 M4.5		5	4
M5 M5.5		5.5	4.5
M6	W 1/4	6	4.5
	W 5/16	6.1	5
M8 M7		6.2	5
M10 M9	W 3/8	7	5.5
M11	W 7/16	8	6
M12		8.5	6.5
	W 1/2	9	7
M14 M15	W 9/16	10.5	8
	W 5/8	12	9
M16		12.5	10
M17		13	10
M18	W 3/4	14	11
M20		15	12
M22	W 7/8	17	13
M24 M25		19	15
M26 M27	W 1	20	15
M28		21	17
	W 1 1/8	22	17
M30		23	17
M32	W 1 1/4	24	19
M33		25	19
M34 M35	W 1 3/8	26	21
M36 M38		28	21
M39 M40	W 1 1/2	30	23
M42	W 1 5/8	32	26
M45	W 1 3/4	35	26
M48	W 1 7/8	38	29

PT	PF		
1/8	1/8	8	6
1/4	1/4	11	9
3/8	3/8	14	11
1/2	1/2	18	14
	5/8	19	15
3/4	3/4	23	17
	7/8	24	19
1	1	26	21
	1 1/8	28	21
1 1/4	1 1/4	32	26
1 3/8	1 3/8	35	26
1 1/2	1 1/2	38	29

DIN

Dimension dia.xSquare	DIN 352	DIN 371
2.5x2.1	M1	M1
	M1.1	M1.1
	M1.2	M1.2
	M1.4	M1.4
	M1.6	M1.6
2.8x2.1	M1.8	M1.8
	M2	M2
	M2.2	M2.2
	M2.5	M2.5
	M3	M3
3.5x2.7	M3.5	M3.5
4x3	M4	M4
4.5x3.4	M5	M5
6x4.9	M6	M6
	M8	
	M10	
7x5.5		M8
8x6.2		M10
9x7		
10x8		
11x9	M14	
12x9	M16	
14x11	M18	
16x12	M20	
18x14.5	M22	
	M24	
20x16	M27	
22x18	M30	
25x20	M33	
28x22	M36	
32x24	M39	
	M42	
	M45	
36x29	M48	
40x32	M52	
45x35	M56	
	M60	

ISO

Dimension dia.xSquare	Metric	
2.24x1.8	M3	
2.5x2.0	M3.5	M2
2.8x2.24		M2.2
		M2.5
3.15x2.5	M4	M3
3.55x2.8	M4.5	M3.5
4x3.15	M5	M4
4.5x3.55	M6	
5x4		M5
6.3x5	M8	M6
8x6.3	M10	M8
9x7.1	M12	
10x8		M10
11.2x9	M14	
12.5x10	M16	
14x11.2	M18	
	M20	
16x12.5	M22	
18x14	M24	
20x16	M27	
	M30	
22.4x18	M33	
25x20	M36	
28x22.4	M39	
	M42	
31.5x25	M45	
	M48	
35.5x28	M52	
	M56	
40x31.5	M60	
	M64	

ANSI(USA)

Dimension		Much. Screw Size No.	Nominal Fractional Diameter Inches
Shank	Square		
0.141	0.110	0	1/16
0.141	0.110	1	
0.141	0.110	2	
0.141	0.110	3	3/32
0.141	0.110	4	
0.141	0.110	5	1/8
0.141	0.110	6	
0.168	0.131	8	5/32
0.194	0.152	10	3/16
0.220	0.165	12	
0.255	0.191	14	1/4
0.318	0.238		5/16
0.381	0.286		3/8
0.323	0.242		7/16
0.367	0.275		1/2
0.429	0.322		9/16
0.480	0.360		5/8
0.542	0.406		11/16
0.590	0.442		3/4
0.652	0.489		13/16
0.697	0.523		7/8
0.760	0.570		15/16
0.800	0.600		1
0.895	0.672		11/16
0.896	0.672		11/8
1.021	0.766		13/16
1.021	0.766		11/4
1.108	0.831		15/16
1.108	0.831		13/8
1.233	0.925		17/16
1.233	0.925		11/2
1.305	0.979		15/8
1.430	1.072		13/4
1.519	1.139		17/8
1.644	1.233		2
0.3125	0.234		1/16 NPT
0.4375	0.328		1/8 NPT
0.5625	0.421		1/4 NPT
0.700	0.531		3/8 NPT
0.6875	0.515		1/2 NPT
0.9063	0.679		3/4 NPT
1.125	0.843		1" NPT
1.3125	0.984		1 1/4 NPT
1.500	1.125		1 1/2 NPT

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