



Use of these table values without training in MTM-1 and MTM-MEK will lead to erroneous results.

Fasten - 1 -		Code	TMU	EH	ET	Supplementary values				
						Tool			Part	
		A-EH			A-ET		3		4	
Without tool										
		≤ M10	A-SAA	260		+				
		> M10 ≤ M20	A-SBA	280		+				
With tool easy access / turning										
without reposition screwdriver, revolving tool, ratchet	≤ M10	A-SAB	300	+	+					
	> M10 ≤ M20	A-SBB	370	+	+					
	> M20 ≤ M36	A-SCB	640	+	+					
	> M36 ≤ M52	A-SDB	740	+	+					
	> M52 ≤ M68	A-SEB	800	+	+					
with reposition open-end wrench, box wrench, Allen wrench	≤ M10	A-SAC	400	+	+					
	> M10 ≤ M20	A-SBC	590	+	+					
	> M20 ≤ M36	A-SCC	1050	+	+					
	> M36 ≤ M52	A-SDC	1350	+	+					
	> M52 ≤ M68	A-SEC	1500	+	+					
with process time power screwdriver	≤ M10	A-SAD	190	+	+					
	> M10 ≤ M20	A-SBD	220	+	+					
	> M20 ≤ M36	A-SCD	310	+	+					
	> M36 ≤ M52	A-SDD	360	+	+					
	> M52 ≤ M68	A-SED	490	+	+					
With tool difficult access / turning										
without reposition screwdriver, revolving tool, ratchet	≤ M10	A-SAE	370	+	+					
	> M10 ≤ M20	A-SBE	530	+	+					
	> M20 ≤ M36	A-SCE	1000	+	+					
	> M36 ≤ M52	A-SDE	1200	+	+					
	> M52 ≤ M68	A-SEE	1300	+	+					
with reposition open-end wrench, box wrench, Allen wrench	≤ M10	A-SAF	890	+	+					
	> M10 ≤ M20	A-SBF	1150	+	+					
	> M20 ≤ M36	A-SCF	2550	+	+					
	> M36 ≤ M52	A-SDF	3150	+	+					
	> M52 ≤ M68	A-SEF	3400	+	+					
with process time power screwdriver	≤ M10	A-SAG	220	+	+					
	> M10 ≤ M20	A-SBG	250	+	+					
	> M20 ≤ M36	A-SCG	370	+	+					
	> M36 ≤ M52	A-SDG	440	+	+					
	> M52 ≤ M68	A-SEG	590	+	+					



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Fasten

- 2 -

Code

TMU

EH

ET

Supplementary values

Tool

Part

A-EH

A-ET

3

4

5

4

5

Additions

additional tighten

≤ M10
> M10 ≤ M20
> M20 ≤ M36
> M36 ≤ M52
> M52 ≤ M68

A-SAH
A-SBH
A-SCH
A-SDH
A-SEH

80
90
110
150
190

+

dirty or damaged threads

≤ M10
> M10 ≤ M20
> M20 ≤ M36
> M36 ≤ M52
> M52 ≤ M68

A-SAI
A-SBI
A-SCI
A-SDI
A-SEI

110
110
600
1250
3000

2nd threaded part / locking wrench

A-SGA

130

+

+

place locking wrench

A-SZA

40

+

additional part (washer, spring washer)

A-SZB

90

+

Wood or sheet metal screw, pre-bored

without reposition
screwdriver,
revolving tool,
ratchet

length ≤ 25 mm
> 25 ≤ 50 mm
> 50 mm

A-SNE
A-SPE
A-SQE

400
1000
1400

+

+

with reposition
open-end wrench,
box wrench,
Allen wrench

length ≤ 25 mm
> 25 ≤ 50 mm
> 50 mm

A-SNF
A-SPF
A-SQF

1000
1800
2600

+

+

with process time
power screwdriver

length ≤ 25 mm
> 25 ≤ 50 mm
> 50 mm

A-SNG
A-SPG
A-SQG

230
290
410

+

+

+

Wood screw with pre-punch

without reposition
screwdriver,
revolving tool,
ratchet

length ≤ 25 mm
> 25 ≤ 50 mm
> 50 mm

A-SRE
A-SSE
A-STE

730
1650
2250

+

+

+

with reposition
open-end wrench,
box wrench,
Allen wrench

length ≤ 25 mm
> 25 ≤ 50 mm
> 50 mm

A-SRF
A-SSF
A-STF

1650
2850
4000

+

+

+

with process time
power screwdriver

length ≤ 25 mm
> 25 ≤ 50 mm
> 50 mm

A-SRG
A-SSG
A-STG

460
520
640

+

+

+

60 120 150

70 100



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Clamp and Loosen

Code

TMU

EH

Supplementary values

Tool

A-EH

3

4

5

Portable clamping devices

vise-grip	A-FAA	290	+
hand vise	A-FBA	340	+
screw clamp	A-FCA	390	+
C-clamp	A-FDA	630	+
parallel clamp	A-FEA	1100	+

Stationary clamping devices

clamping claw	A-FLA	860	+
toggle clamp	A-FMA	100	+
	A-FNA	140	+
vise	A-FPA	400	+
	A-FQA	670	+
jaw chuck	A-FRA	520	+
magnetic disk	A-FSA	40	+
addition: additional tool / vise jaws	A-FZA	250	+

Unpack

Code

TMU

EH

Supplementary values

Tool

A-EH

3

4

5

Remove/ Open cover

by hand	20 x 20 cm	A-AAB	190	
	50 x 50 cm	A-AAC	470	
	100 x 100 cm	A-AAD	790	
with tool	20 x 20 cm	A-ABB	140	+
	50 x 50 cm	A-ABC	370	+
	100 x 100 cm	A-ABD	590	+

Remove contents

vacuum packing	20 x 20 cm	A-ACB	410	+
	50 x 50 cm	A-ACC	610	+
foil packing	20 x 20 cm	A-ADB	320	+
	50 x 50 cm	A-ADC	470	+
carton	20 x 20 cm	A-AFB	180	

≤ 8 kg

bag (foil, paper)	20 x 20 cm	A-AGB	230	+
	50 x 50 cm	A-AGC	330	+
cardboard, paper	20 x 20 cm	A-AHB	270	+
	50 x 50 cm	A-AHC	490	+



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Treat			Code	TMU	EH	Supplementary values		
						Tool		
			A-EH			3	4	5
Clean	compressed air, brush, broom, rag, cloth	20 x 20 cm	A-BAB	80	+			
		50 x 50 cm	A-BAC	180	+			
		100 x 100 cm	A-BAD	340	+			
	wire brush	20 x 20 cm	A-BBB	220	+	60	120	150
		50 x 50 cm	A-BBC	820	+			
		100 x 100 cm	A-BBD	4000	+			
	scraper, putty knife	20 x 20 cm	A-BCB	340	+			
		50 x 50 cm	A-BCC	1400	+			
		100 x 100 cm	A-BCD	6000	+			
Apply oil, paint, cleaning agent	paintbrush, oil can, rag, cloth	point, line	A-BHA	80	+			
		20 x 20 cm	A-BHB	150	+			
		50 x 50 cm	A-BHC	260	+			
	spray can	20 x 20 cm	A-BIB	170	+			
		50 x 50 cm	A-BIC	470	+			
		100 x 100 cm	A-BID	1800	+			
Apply adhesive, sealing compound	grease gun	point	A-BKA	80	+			
	paintbrush or putty knife	point, line	A-BNA	100	+			
		20 x 20 cm	A-BNB	400	+			
		50 x 50 cm	A-BNC	830	+			
	tube or twist tube	point, line	A-BQA	70	+			
		20 x 20 cm	A-BQB	180	+			
		50 x 50 cm	A-BQC	420	+			
Additions								
mix two-component adhesive	weight ≤ 6 g weight > 6 ≤ 25 g		A-BZA	990	+			
			A-BZB	1750	+			
open and close container			A-BZG	310	+			
hands	wipe/dry off clean/wash		A-BZH	260	+			
			A-BZI	890	+			
put on and take off gloves			A-BZK	520	+			



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Mark		Code	TMU	EH	ET	Supplementary values		
						Tool		Part
						A-EH		A-ET
						3	4	5
							4	5
Center punch or figure stamp	without inspection with inspection	A-MAA A-MAB	100 230	+				
Compass	Ø ≤ 300 mm addition for setting	A-MBA A-MBB	140 160	+				
Ruler, template	scribe ≤ 1000 mm	A-MCA	250	+				
Parallel scribe	scribe ≤ 500 mm addition for setting	A-MDA A-MDB	80 470	+				
Writing implement	1 character group of characters	A-MEA A-MEB	60 180	+				
Paintbrush, goniometer, electric writer	10 characters scribe ≤ 200 mm per character	A-MFA A-MHA A-MIA	380 160 140	+				
Label	apply	A-MLA	230	+	+			
Protective cover	remove	A-MLB	110	+				
Chalk line per worker	length ≤ 4 m	A-MMA	380	+				
	addition for handling line	A-MMB	720		+			

Assemble Standard Parts		Code	TMU	EH	ET	Supplementary values		
						Tool		Part
						A-EH		A-ET
						3	4	5
							4	5
With one tool	bushing, pin, nail, split pin, band clamp, spring, etc.	A-NAA	210	+	+			
With two tools	split pin, pin, rivet, double cotter pin, etc.	A-NBA	260	+	+			
Special tool	E-ring, Seeger ring, blind rivet	A-NCA	200	+	+			
Additions	use additional tool	A-NZA	100	+				
	difficult or careful handling	A-NZB	80					



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Inspect or Measure		Code	TMU	EH	Supplementary values		
					Tool	A-EH	
Gauge					3	4	5
Dimension or shape	$\leq 150 \text{ mm}$ $> 150 \leq 500 \text{ mm}$ $> 500 \leq 2000 \text{ mm}$	A-PAA A-PAB A-PAC	100 160 200	+			
Thread	$\leq 150 \text{ mm}$ $> 150 \leq 500 \text{ mm}$	A-PBA A-PBB	280 520	+			
Dial gauge							
Inspect dimension	$\leq 150 \text{ mm}$ $> 150 \leq 500 \text{ mm}$	A-PCA A-PCB	100 160	+			
Establish dimension	$\leq 150 \text{ mm}$ $> 150 \leq 500 \text{ mm}$	A-PDA A-PDB	140 200	+			
Direct-reading gauge							
Without movable parts	$\leq 150 \text{ mm}$ $> 150 \leq 500 \text{ mm}$ $> 500 \leq 2000 \text{ mm}$	A-PEA A-PEB A-PEC	120 120 230	+			
	addition for pull out/retract tape measure / unfold/fold folding ruler $\leq 2 \text{ m}$	A-PGB	200	+			
With movable parts	$\leq 150 \text{ mm}$ $> 150 \leq 500 \text{ mm}$	A-PFA A-PFB	270 300	+			
Crank roll tape		A-PGA	1600	+			
Plumb line, per worker		A-PHA	1900	+			
Hand or noise inspection		A-PKA	80				
Additions							
Preparing and terminating measuring instrument after adjusting	gauge block, 3 pieces	A-PZA	2500				
	goniometer	A-PZB	560				
	dial gauge	A-PZC	2500				
Set range or set to zero	$\leq 150 \text{ mm}$	A-PZF	180	+			
	$> 150 \leq 500 \text{ mm}$	A-PZG	210	+			



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Body Motions		Code	TMU
Climb up or down ladder			
8 rungs	without impediment/load with impediment/load	A-KAA A-KBA	200 400
12 rungs	without impediment/load with impediment/load	A-KAB A-KBB	300 600
28 rungs	without impediment/load with impediment/load	A-KAC A-KBC	700 1400
Use ladder in 10 m range			
8 rungs	obtain/position/put back reposition	A-KCA A-KDA	960 480
12 rungs	obtain/position/put back reposition	A-KCB A-KDB	960 480
28 rungs	obtain/position/put back reposition	A-KCC A-KDC	1400 700
Climb over/ climb through		A-KEA	110
Crawl		A-KFA	120



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Transport		TMU per distance class (longest transport distance in m)					
By hand		Code	≤ 2	> 2	≤ 10	> 10	≤ 50
Shift		A-TAA.	190		440		1650
Exchange		A-TAB.	320		690		2500
Additions							
decant parts		A-TZAA	370				
accessibility (e.g., open and close door/drawer)		A-TZBA	130				
Hand trucks							
		Code	B	C	D		
Without using device to lift		A-TBA.			450		1650
With using device to lift	manual	floor to floor	A-TBB.		2200		4000
	powered	floor to floor	A-TBE.		1850		3700
Addition per another 10 m with transport distance > 50 m							
manual		A-TZCA	250				
powered		A-TZDA	250				
Addition per another 10 cm of raising and lowering							
manual		A-TZEA	290				
powered		A-TZFA	50				