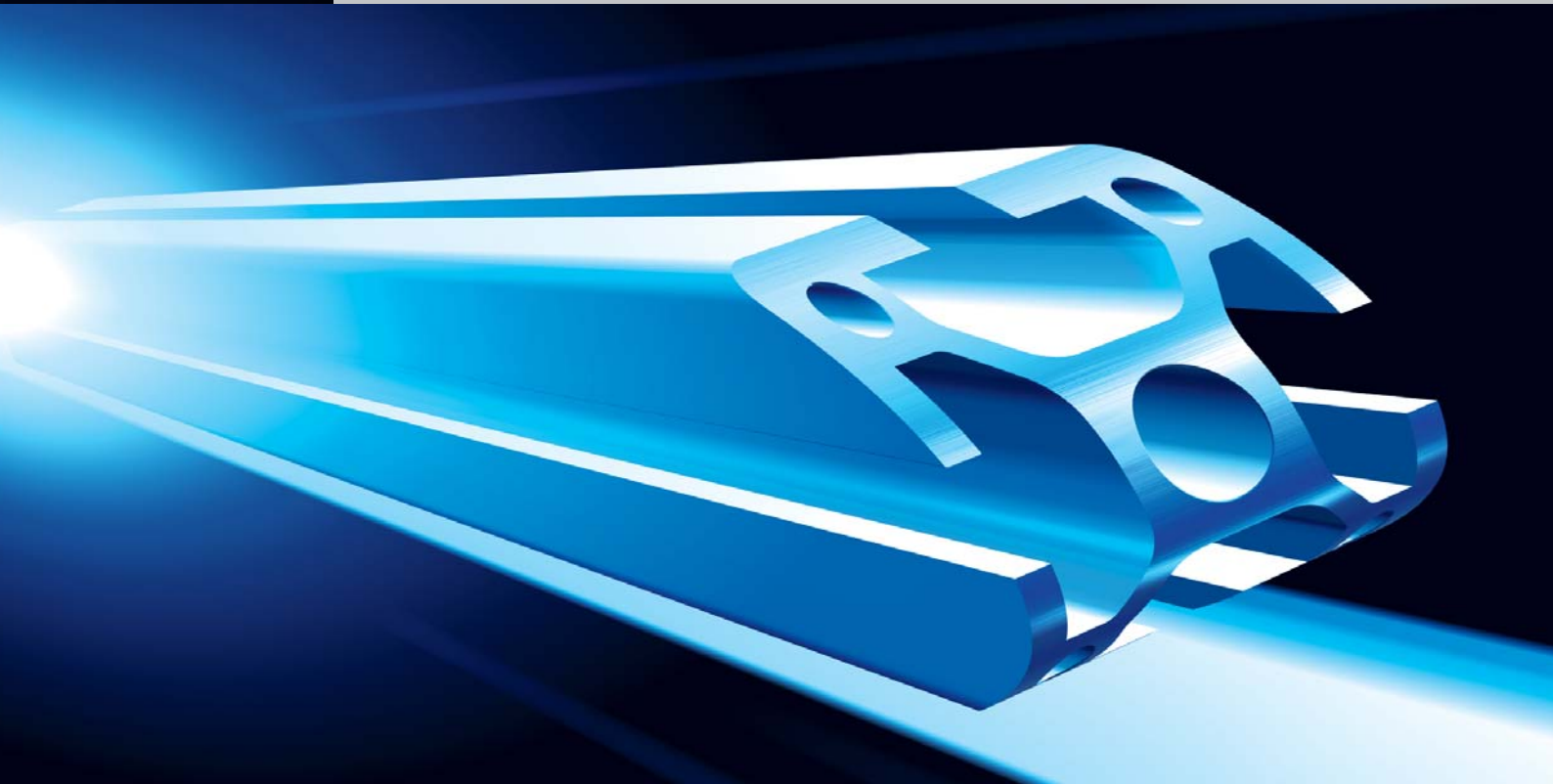


English

1/2007



The Profile System Inch

 MayTec[®]

General

Profile group

1", 1.5"

The profiles of the MayTec Profile System are divided into two **profile groups (PG)**. They can be determined by the basic measure of each profile.

Slot

H-slot, F-slot, E-slot

In order to connect the profiles or to mount accessories the profiles have slots. The MayTec Slot System (↔ 2.02) distinguishes between the three slot types H-slot, F-slot and E-slot, whereas E-slot exists as **E3-slot** and **E4-slot** (3 or 4 mm resp. .118 or .157 in. wall thickness). The profile System Inch uses only F-slot and E3-slot.

Symbols

Many articles (fastening elements, accessories and tools) can only be used especially for individual profile groups or slot types.

In this case these articles are marked with the corresponding symbols.



Profile group

dark symbol: suitable for the corresponding profile group

light symbol: not suitable

Slot type

dark symbol: suitable for the corresponding slot type

light symbol: not suitable

Remark

The symbol for the E-slot is used, if the article is (un)suitable for the two slot types E3 and E4.



Cut

These articles are offered with cut.



Stainless steel

These articles are made of stainless steel.



Cleanroom

These articles are suitable for the use in and around cleanrooms.



Attention!

Important notice

Abbreviations


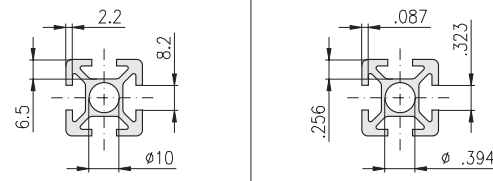

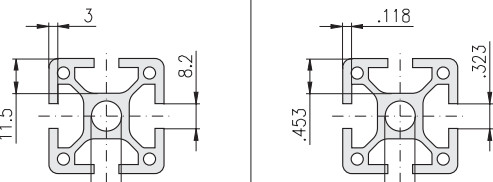
PG	profile group	e.g.: PG 1" = profile group 1"
L	light	profile characteristic: light type of construction
S	heavy	profile characteristic: heavy type of construction
P	plain	profile characteristic: no ornamental slots

Special characters


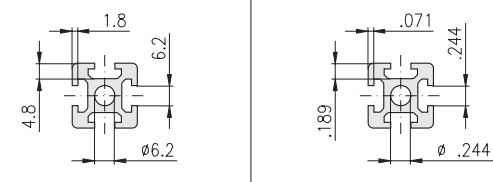

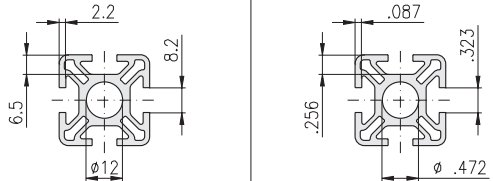

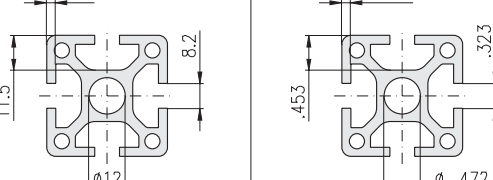

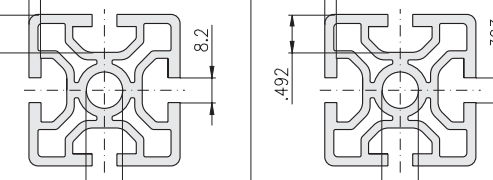
<input type="checkbox"/>	Placeholder Article-No.	Example 2.31.F□.□□□□	identifies the articles: 2.31.F4.08-32 2.31.F5.10-32 2.31.F6.1/4-20
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	Example	Reference
↔	14	to catalogue page
	2.31	to article number group
	2.31.F4.08-32	to single article
	2.31.F□□□□	to group of articles

Inch-System

Cross section of slots	Dimensions		Core hole-Ø	Slot width	Slot depth	Wall thickness	PG
	mm	inch					
F-slot 			mm				
			10.0	8.2	6.5	2.2	1"
			inch				
			.394	.323	.256	.087	
E3-slot 			mm				
			10.0	8.2	11.5	3.0	1.5"
			inch				
			.394	.323	.453	.118	

Metric-System

Cross section of slots	Dimensions		Core hole-Ø	Slot width	Slot depth	Wall thickness	PG
	mm	inch					
H-slot 			mm				
			6.2	6.2	4.8	1.8	20
			inch				
			.244	.244	.189	.071	
F-slot 			mm				
			12.0	8.2	6.5	2.2	20
			inch				30
			.472	.323	.256	.087	
E3-slot 			mm				
			12.0	8.2	11.5	3.0	40
			inch				
			.472	.323	.453	.118	
E4-slot 			mm				
			12.0	8.2	12.5	4.0	30
			inch				45
							50
				60			
inch							
.472	.323	.492	.157				

Profiles

2.1 □ . □□□□□□ . □□□□□	Key	¹⁾ 1 = 10 mm (.394 in.)
2.1 □ . □□□□□□ . □□□□□	Core hole-Ø ¹⁾	²⁾ 2-digit off 10 slots
2.1 □ . □□□□□□ . □□□□□	Profile width	³⁾ 0 = Round
2.1 □ . □□□□□□ . □□□□□	Profile height (all, but special profiles)	1 = Soft
2.1 □ . □□□□□□ . □□□□□	Number of degrees (round profiles)	2 = Corner
2.1 □ . □□□□□□ . □□□□□	Number of edges (special profiles)	3 = Cubic
2.1 □ . □□□□□□ . □□□□□	Slot quantity ²⁾	4 = Rectangle
2.1 □ . □□□□□□ . □□□□□	Contour ³⁾	5 = Pneumatic
2.1 □ . □□□□□□ . □□□□□	Version light	7 = Angle
2.1 □ . □□□□□□ . □□□□□	Type B	8 = Oblique
2.1 □ . □□□□□□ . □□□□□	Version light, Type B	9 = Special
2.1 □ . □□□□□□ . □□□□□	Plain	

Connectors - general

2.2 □ . □□□□□	Key	¹⁾ 1 = 10 mm (.394 in.)
2.2 □ . □□□□□	Core hole ¹⁾	²⁾ 10 = 1 in.
2.2 □ . □□□□□	Profile width ²⁾	20 = 1.5 in.
2.2 □ . □□□□□	Head-variant ³⁾	³⁾ E = E-head
2.2 □ . □□□□□	Connection-variant ⁴⁾	F = F-head
2.2 □ . □□□□□	Stainless	H = H-head
2.2 □ . □□□□□	Ground	V = Extension
2.2 □ . □□□□□		⁴⁾ 0 = Universal/Neutral
□/□	Special cases: Parallel-connector across and high	1 = Standard
□/□	Profile width for cross bushing	2 = Standard 90°
□/□	Profile width for anchor	5 = Parallel

-Oblique-hinge

2.2 □ . □□□□□	Key	¹⁾ 1 = Standard
2.2 □ . □□□□□	Oblique-connector, hinge	2 = Standard 90°
2.2 □ . □□□□□	Connection-variant ¹⁾	
2.2 □ . □□□□□	Stainless	

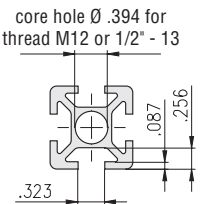



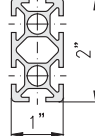

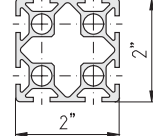
-Miter-hinge

2.2 □ . □□□□□	Key	¹⁾ 1 = Standard
2.2 □ . □□□□□	Miter-connector, hinge	2 = Standard 90°
2.2 □ . □□□□□	Connection-variant ¹⁾	
2.2 □ . □□□□□	Stainless	

-Screw-type

2.2 □ . □□□□□ / □□	Key	¹⁾ 1 = Standard
2.2 □ . □□□□□ / □□	Screw-type-connector	
2.2 □ . □□□□□ / □□	Type of anchor ¹⁾	
2.2 □ . □□□□□ / □□	Thread	
2.2 □ . □□□□□ / □□	Thread-Ø	
2.2 □ . □□□□□ / □□	Screw special length	
□/□	Special cases: Screw-type connector parallel across and high	
□/□	Profile width for cross bushing	
□/□	Profile width for anchor	

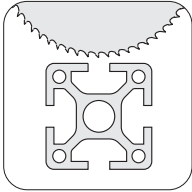
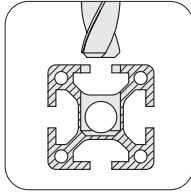
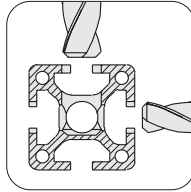
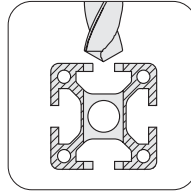
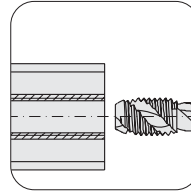
light				
Description				
bar, 19.685 ft.				
packing unit (bars)				
moment of inertia in. ⁴				
moment of resistance in. ³				
weight per foot lbs.				

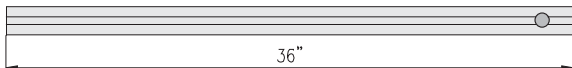
heavy				
	 	 	 	
Description	Profile 1"×1", 4F, P	Profile 1"×2", 6F, P	Profile 2"×2", 8F, P	
bar, 19.685 ft.	2.11.010010.43P.60	2.11.010020.64P.60	2.11.020020.83P.60	
packing unit (bars)	2.11.010010.43P.61 (12)	2.11.010020.64P.61 (6)	2.11.020020.83P.61 (6)	
moment of inertia in. ⁴	$I_x = .046$ $I_y = .046$	$I_x = .304$ $I_y = .086$	$I_x = .551$ $I_y = .551$	
moment of resistance in. ³	$W_x = .092$ $W_y = .092$	$W_x = .304$ $W_y = .172$	$W_x = .551$ $W_y = .551$	
weight per foot lbs.	G = .497	G = .900	G = 1.438	

machining data  Profile machining 2.1A

light				
<p>core hole Ø .394 for thread M12 or 1/2" - 13</p>				
Description	Profile 1.5"×1.5", 4E, LP	Profile 1.5"×3", 6E, LP		
bar, 19.685 ft.	2.11.015015.43LP.60	2.11.015030.64LP.60		
packing unit (bars)	2.11.015015.43LP.61 (8)	2.11.015030.64LP.61 (4)		
moment of inertia in.⁴	$I_x = .180$	$I_y = .180$	$I_x = 1.217$	$I_y = .340$
moment of resistance in.³	$W_x = .237$	$W_y = .237$	$W_x = .813$	$W_y = .455$
weight per foot lbs.	$G = .894$	$G = 1.557$		

heavy								
<p>core hole Ø .394 for thread M12 or 1/2" - 13</p>								
Description	Profile 1.5"×1.5", 4E, P	Profile 1.5"×3", 6E, P	Profile 3"×3", 8E, P	Profile 3"×6", 12E, P				
bar, 19.685 ft.	2.11.015015.43P.60	2.11.015030.64P.60	2.11.030030.83P.60	2.11.030060.124P.60				
packing unit (bars)	2.11.015015.43P.61 (8)	2.11.015030.64P.61 (4)	2.11.030030.83P.61 (2)	2.11.030060.124P.61 (2)				
moment of inertia in.⁴	$I_x = .224$	$I_y = .224$	$I_x = 1.525$	$I_y = .436$	$I_x = 2.810$	$I_y = 2.810$	$I_x = 17.752$	$I_y = 5.293$
moment of resistance in.³	$W_x = .301$	$W_y = .301$	$W_x = 1.012$	$W_y = .583$	$W_x = 1.870$	$W_y = 1.870$	$W_x = 5.917$	$W_y = 3.528$
weight per foot lbs.	$G = 1.121$	$G = 2.050$	$G = 3.219$	$G = 5.745$				

Summary				
 <p>Saw cut</p> <p>↔ 9</p>	 <p>Cross bushing bores for connectors</p> <p>↔ 10</p>	 <p>Bores for parallel-connector</p> <p>↔ 10</p>	 <p>Cross bore</p> <p>↔ 10</p>	 <p>Thread</p> <p>↔ 10</p>
<p>Comments</p> <ul style="list-style-type: none"> Profile machinings are defined by the article-number of the profile. For more complex machinings, additional order descriptions are needed. Non-standard machinings will be completed as per drawings 				

Order description		
<p>Profile</p> <p>Order-No.: 2.11.□□□□□□.□□□□</p>	<p>machining</p> <p>left right</p> <p>□□□□□□ / □□□□</p> <p>□□□□□□ / □□□□</p> <p>□□□□□□ / □□□□</p> <p>□□□□□□ / □□□□</p> <p>□□□□□□ / □□□□</p>	<p>profile side</p> <p>saw cut</p> <p>cross bushing bores, bores for parallel-connector, cross bore, thread</p> <p>direction</p> <p>length in inch</p>
Order example		
		
<p>Description</p> <p>Profile 1.5"×1.5", 4E-slots</p> <p>Length: 36"</p> <p>right side: 1 connector bore</p>	<p>Article-No.</p> <p>2.11.015015.43-A00AA4/36"</p>	<p>Article-Description</p> <p>Profile 1.5"×1.5", 4E-slots</p> <p>□□□□</p> <p>Specifications for special profile machining</p>

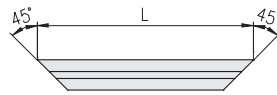
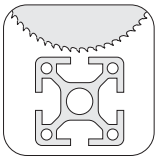
coding examples ↔ 2.1B

Direction and Position

Description
 Direction: 1 - 4
 Position of slot: A - M
 Position of thread: a - h

Saw cut

Saw cut tolerance: $\pm 3.937 \times 10^{-3}$ in.



Disposition of angles

Cut is right view

- For angle cuts specify the absolute length
- Angle cuts without specification = 45°

Specification for special angle:

Special angle, left: °

Special angle, right: °

Price group 1

	A	1	1"×1"
	B	4F	
	C	1.5	1.5"×1.5"
	D	4E	
	E		

Price group 2

	F	1	1"×2"
	G	6F	
	H	8F	2"×2"
	J	1.5	1.5"×3"
	K	6E	

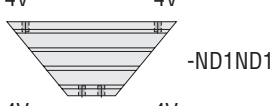
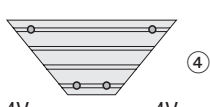
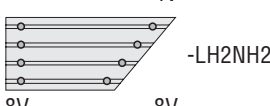
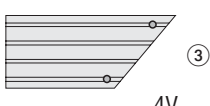
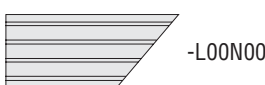
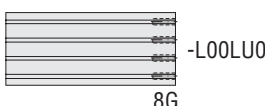
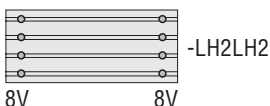
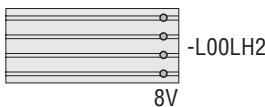
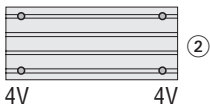
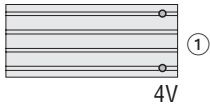
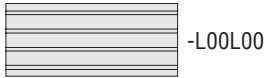
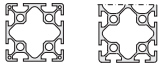
Price group 3

	L	1.5	3"×3"
	M	8E	
	N		3"×6"
	O		
	P	12E	

for price group 1	for price group 2		for price group 3
-A00A00	-F00F00		-L00L00
-A00AA4 1V	-F00FB4 2V	-F00FB1 2V	-L00LB4 2V
-AA4AA4 1V 1V	-FB4FB4 2V 2V	-FB1FB1 2V 2V	-LB4LB4 2V 2V
-A00AL0 1G	-F00FL0 1G		-L00LD2 4V
-AL0AL0 1G 1G	-FLOFL0 1G 1G		-LB4LD2 2V 4V
-AL0AA4 1G 1V	-FLOFB4 1G 2V	-FLOFB1 1G 2V	-LD2LD2 4V 4V
-A00AQ1 1Q	-FM0FB4 2G 2V	-FM0FB1 2G 2V	-LP0LD2 4G 4V
-AA4AQ1 1V 1Q	-F00FM0 2G		-L00LP0 4G
-AQ1AQ1 1Q 1Q	-FM0FM0 2G 2G		-LP0LP0 4G 4G
-AL0AQ1 1G 1Q	-FLOFM0 1G 2G	top view	-L00N00
-A00C00	-F00H00	-F00K00	-LL0ND2 1G 4V
-A00CA4 1V	-F00HB4 2V	-F00KB1 2V	-LD2ND2 4V 4V
-AA4CA4 1V 1V	-FB4HB4 2V 2V	-FB1KB1 2V 2V	-LD1ND1 4V 4V
-AL0CA4 1G 1V	-FLOHB4 1G 2V	-FLOKB1 1G 2V	-N00N00
-C00C00	-H00H00	-K00K00	-ND2ND2 4V 4V
-CA4CA4 1V 1V	-HB4HB4 2V 2V	-KB1KB1 2V 2V	-ND1ND1 4V 4V

V = connector bore, G = thread, Q = cross bore

for price group 3



Order examples for special design

Article-No..	Description
① 2.11.□□□□□□.□□□□ -L00LD2	Profile □□□×□□□.□□ Connector position, right: CFIM <i>(additional description)</i>
② 2.11.□□□□□□.□□□□ -LD2LD2	Profile □□□×□□□.□□ Connector position, left: CFIM <i>(additional description)</i> Connector position, right: CFIM
③ 2.11.□□□□□□.□□□□ -L00ND2	Profile □□□×□□□.□□ Connector position, right: CFIM <i>(additional description)</i>
④ 2.11.□□□□□□.□□□□ -ND2ND2	Profile □□□×□□□.□□ Connector position, left: CFIM <i>(additional description)</i> Connector position, right: CFIM

V = connector bore, G = thread, Q = cross bore

Extruded profile
as per DIN EN 12020-1
 (fine)
 (Replacement for DIN 17615)

Aluminium alloy Al Mg Si 0.5 F25
 Material Nr. 3.3206.72 (low temp. annealed)

Functional length: 19.685 ft.
Delivery length: 19.685 ft. + .394 in.

Mechanical data

(Values given in the direction of the press flow)

Tensile strength R_m : min. 36,260 lbs./in.²
 Elongation 0.2: min. 29,008 lbs./in.²
 Stress point A_5 : min. 10 %
 Stress point A_{10} : min. 8 %
 E-Module: approx. $10,2 \times 10^6$ lbs./in.²
 Brinell hardness: approx. 75 HB 2.5/187.5
 Co-efficient of elongation: $23.8 \times 10^{-6}/K$

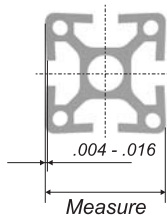
Surface as per DIN 17611:
 E6/EV1 - dull finish and anodised colours
 Coat thickness approx. $.3937 \times 10^{-3}$ in.
 Coat hardness 250-350 HV
 Special colours upon request.
 The surface area - subject to technical procedure - can show optical changes.

Profile tolerance
 (Excerpt from DIN EN 12020-2)

Nominal dimensions:
 The dimension deviation depends on the precision with which the tooling is manufactured, the tooling wear and the variation during the extrusion process. For one manufacturing setup the variation within one profile is $.3937 \times 10^{-3}$ in.

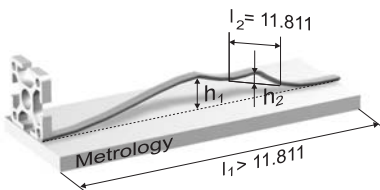
Profile tolerance		
Dim. range in inch		Tolerance in inch
from	to	
-	.394	± .0059
.394	.591	± .0079
.591	1.181	± .0098
1.181	1.772	± .0118
1.772	2.362	± .0157
2.362	3.543	± .0177
3.543	4.724	± .0236
4.724	5.906	± .0315
5.906	7.087	± .0394
7.087	9.449	± .0472
9.449	11.811	± .0591

Flatness of profile surfaces



In order to optimize the connection stability, all profile surfaces are designed and manufactured with concave surfaces. This assures that the assembled profiles contact on the outer edges only (line of contact).
 When tightening the connectors the slot flanks will be drawn to the mounting profile within the elastic range and will keep the connectors under tension.

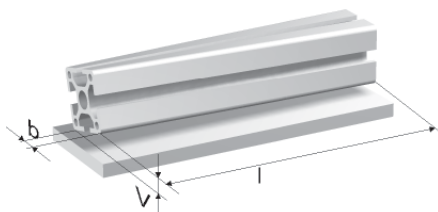
Straightness tolerance
 of the edge in longitudinal direction



At a certain length l_1 the given tolerance h_1 is not to be exceeded.
 For each incremental length of $l_2 = 11.811$ in. the deviation h_2 is not to exceed .012 in.

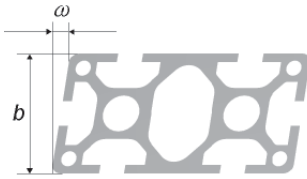
Straightness tolerance		
Length l_1 in foot		Tolerance h_1 in inch
from	to	
-	3.3	.028
3.3	6.6	.051
6.6	9.8	.071
9.8	13.1	.087
13.1	16.4	.102
16.4	19.7	.118

Flatness tolerance
 (Twist tolerance)



Width b in inch		Flatness tolerance in inch					
Dim. range		at length l in foot					
from	to	to 3.3	3.3 to 6.6	6.6 to 9.8	9.8 to 13.1	13.1 to 16.4	16.4 to 19.7
-	.984	.039	.059	.059	.079	.079	.079
.984	1.969	.039	.047	.059	.071	.079	.079
1.969	2.953	.039	.047	.047	.059	.079	.079
2.953	3.937	.039	.047	.059	.079	.087	.098
3.937	4.921	.039	.059	.071	.087	.098	.118
4.921	5.906	.047	.059	.071	.087	.098	.118
5.906	7.874	.059	.071	.087	.102	.118	.138
7.874	11.811	.071	.098	.118	.138	.157	.177

Parallelism tolerance
(Angular tolerance)



The parallelism tolerance ω (angular tolerance) refers to unequal sides to the shorter side of the angle, i.e. it is measured from the longer side.

Parallelism tolerance		
Width b in inch from	to	max. size tolerance ω in inch
-	1.181	.012
1.181	1.969	.016
1.969	3.150	.020
3.150	3.937	.024
3.937	4.724	.028
4.724	5.512	.031
5.512	6.299	.035
6.299	7.087	.039
7.087	7.874	.047
7.874	9.449	.059

Bending strength

For the computation of deflection use formulas on this page.

For the computation of deflection by the profiles own weight, apply "Type of load" 3, 6 or 9.

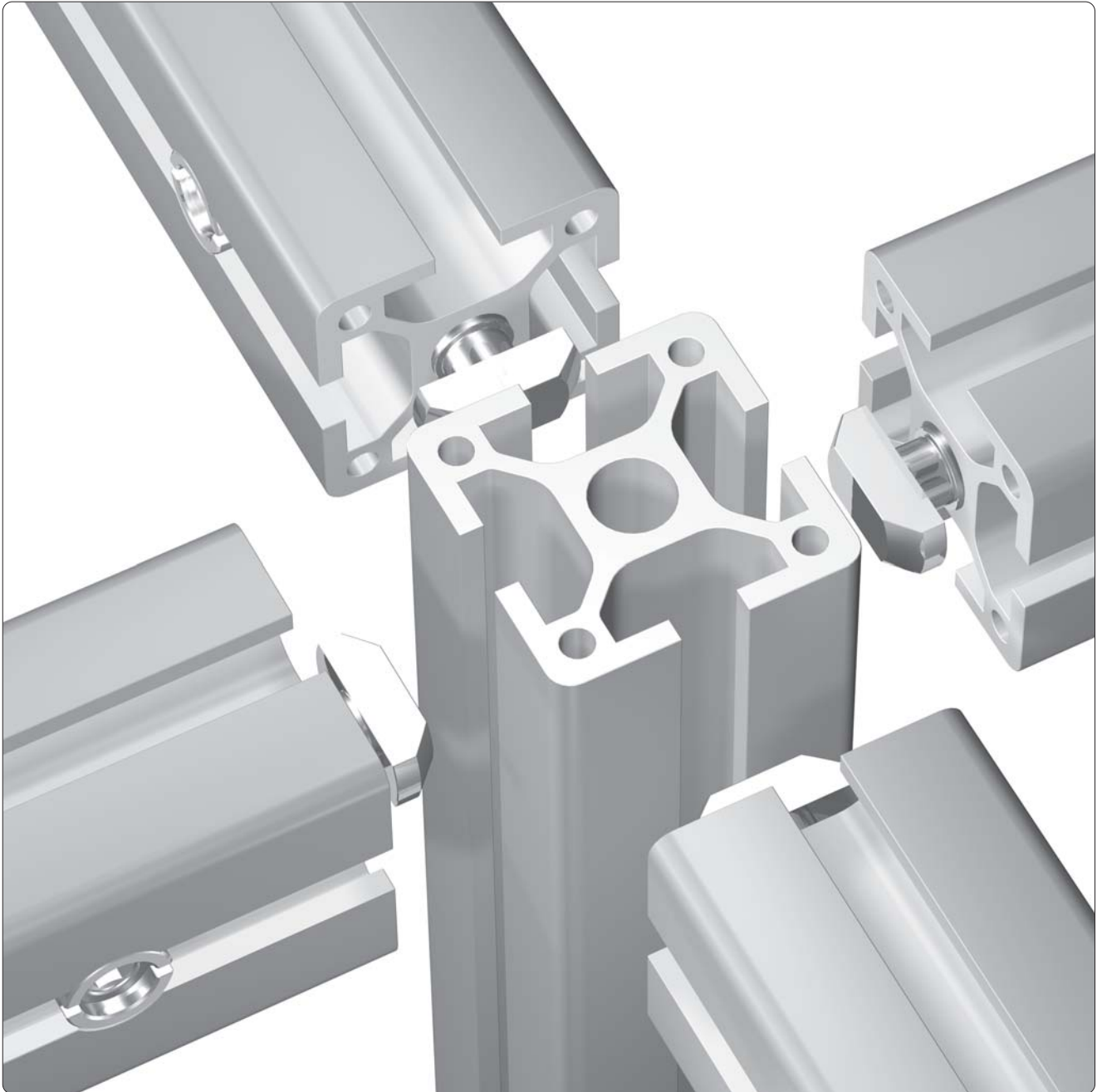
- f = Deflection in in.
- F = Type of load in lbs.
- l = Profile length in in.
- J¹⁾ = Moment of inertia in in.⁴
- E = Module of elasticity in lbs./in.²
- E_{AL} = 10,2×10⁶ lbs./in.²

1) Comments

The moments of inertia of a certain profile are listed on the respective profile page (↪ 2.11).

Type of load		
1	 A cantilever beam fixed at the left end and free at the right end. A downward point load F is applied at the free end. The length of the beam is l. The deflection f is shown at the free end.	$f = \frac{F \cdot l^3}{3E \cdot J}$
2	 A cantilever beam fixed at the left end. Two downward point loads are applied: F1 at distance l1 from the fixed end and F2 at distance l2 from the fixed end. The total length of the beam is l. The deflection f is shown at the free end.	$f = \frac{F \cdot l^3 + F_1 \cdot l_1^2 \cdot l + F_2 \cdot l_2^2 \cdot l}{3E \cdot J}$
3	 A cantilever beam fixed at the left end and free at the right end. A uniformly distributed load F is applied downwards along the entire length l. The deflection f is shown at the free end.	$f = \frac{F \cdot l^3}{8E \cdot J}$
4	 A simply supported beam of length l with a downward point load F applied at the center (l/2). The deflection f is shown at the center.	$f = \frac{F \cdot l^3}{48E \cdot J}$
5	 A simply supported beam of length l with a downward point load F and a clockwise moment m applied at the center. The deflection f is shown at the center.	$f = \frac{F \cdot l^3}{\left(48 + \frac{29m}{l}\right) \cdot E \cdot J}$
6	 A simply supported beam of length l with a uniformly distributed load F applied downwards. The deflection f is shown at the center.	$f = \frac{5F \cdot l^3}{384E \cdot J}$
7	 A simply supported beam of length l with a downward point load F applied at a distance 'a' from the left support and 'b' from the right support. The deflection f is shown at the point of application of the load.	$f = \frac{F \cdot a^2 \cdot b^2}{3E \cdot J \cdot l}$
8	 A beam fixed at both ends with a downward point load F applied at the center. The length of the beam is l. The deflection f is shown at the center.	$f = \frac{F \cdot l^3}{192E \cdot J}$ ²⁾
9	 A beam fixed at both ends with a uniformly distributed load F applied downwards. The length of the beam is l. The deflection f is shown at the center.	$f = \frac{F \cdot l^3}{384E \cdot J}$

²⁾ approximate value



Simple

Quick

Economical

Functional

The proven connection system!

The MayTec quick-connection system allows combination of all MayTec profiles in any way imaginable.

It carries same stability out after all four sides.

The connection allows:

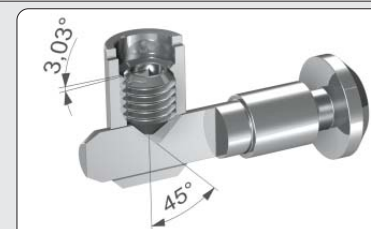
- easy machining
- quick assembly
- innumerable (dis)assemblies

The connection system is:

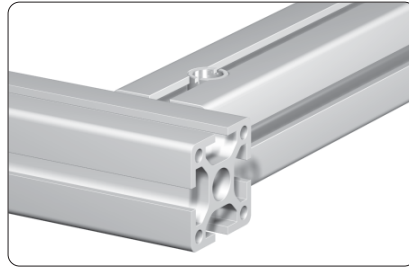
- complete
- stable
- functional

Vibration proof

The different direction angles of lead of thread and clamping cone prevent the loosening of the connection by vibration.



Manufacture a connection



Example

Connection of two profiles 1.5"×1.5" with one standard connector

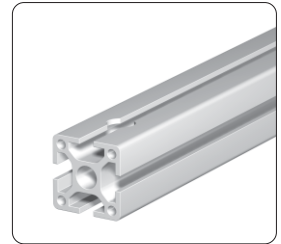
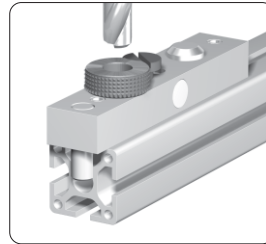
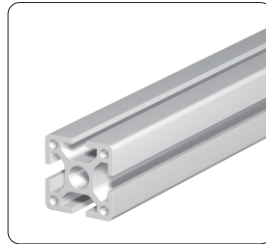
1. Connector selection

➔ 2.2, Connector selection

2. Profile machining

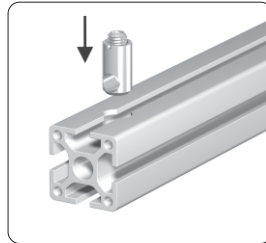
➔ 2.1A, Profile machining

➔ 2.99, Tools

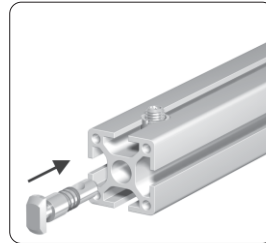


Manufacture the cross bushing bore with the aid of a drill jig

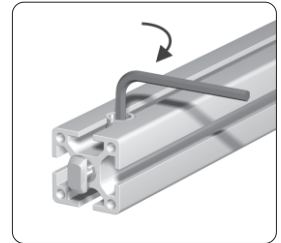
3. Pre-assembly of the connector



Insert the cross bushing

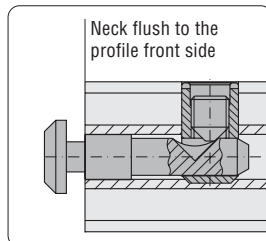


Push in the anchor



Pretension the anchor

⚠ Mounting position

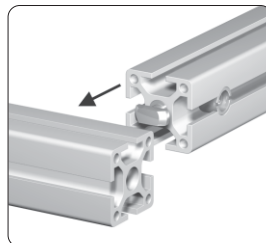


Comments

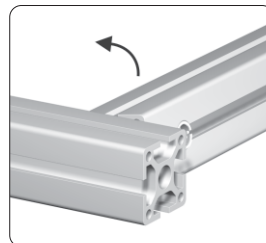
For the optimal assembly of the profiles the connector is to be installed in such a way that the neck is flush to the profile front side

4. Final assembly

①

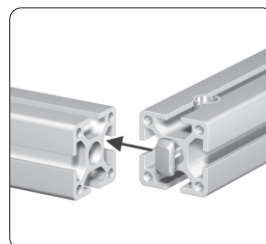


Push in sideways

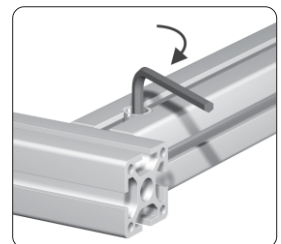


Turn the profile

②



Push in front sided


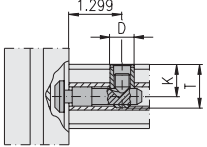
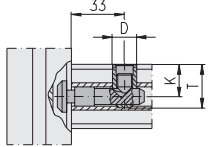
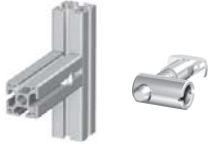
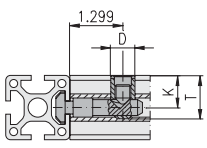
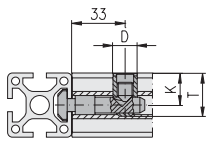

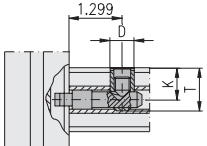
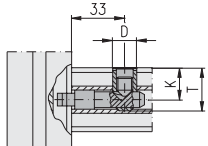
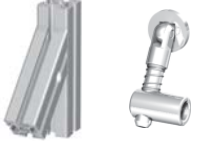
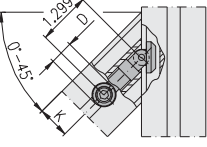
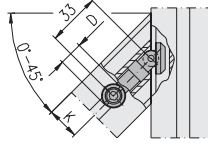

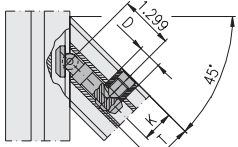
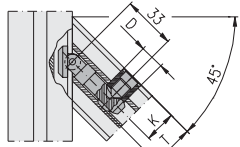

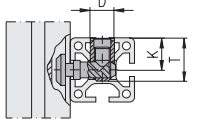
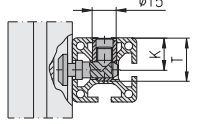



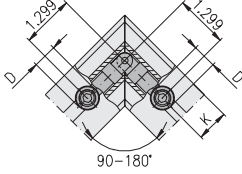
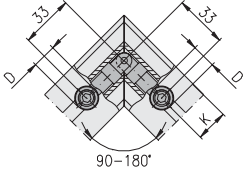
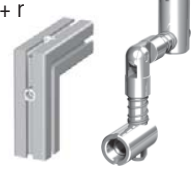
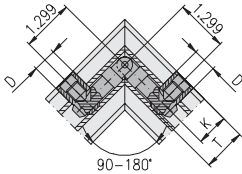
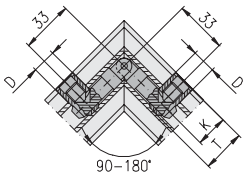
Tighten the setscrew

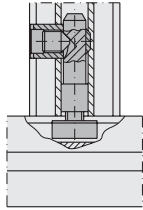
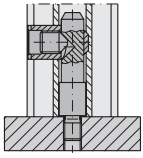
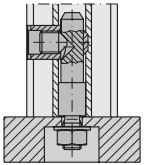
Connector selection		
Procedure		Example
① Connection	Selection of connector-variant	Standard
② Profile 1	Size of the profile in which the connector should be built into	1.5"×1.5"
③ Core hole	Determination of the core hole \emptyset	\emptyset .394 in.
④ Profile 2	Determination of the connector-head according to slot-variant of the profile on which it will be joined	1.5"×1.5" in. / E-slot
⑤ Connector	Determination of connector	2.21.15E1

Connector types and materials		
Connector	Article-No.	Technical data
Standard	2.21.10E0	material: steel strength: $\geq 94,355$ lbs./in. ²
Standard, ground	2.21.10E0 E	surface: galvanised

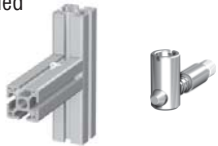
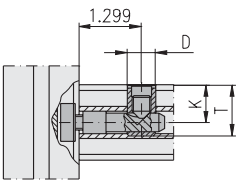
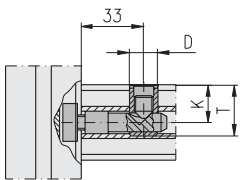
Connectors for profiles with core hole-\emptyset .394 in. (10 mm) 2.2A						
Connection / Connector	Finished dimension		PG	Article-No. for connector with		
	inch	mm		steel standard	E	steel standard E
Universal 			1"	2.21.10F0	2.21.10E0	E
			1.5"	2.21.15F0	2.21.15E0	E
Standard 			1"	2.21.10F1	2.21.10E1	
			1.5"	2.21.15F1	2.21.15E1	
90° 			1"	2.21.10F2	2.21.10E2	
			1.5"	2.21.15F2	2.21.15E2	
Oblique -hinge l + r 			1"	2.21.10FK1	2.21.10EK1	
			1.5"	2.21.15FK1	2.21.15EK1	
Oblique 90° -hinge 			1"	2.21.10FK2	2.21.10EK2	
			1.5"	2.21.15FK2	2.21.15EK2	

Connection / Connector	Finished dimension		PG	Article-No. for connector with			
	inch	mm		F-head		E-head	
				steel standard	E	steel standard	E
Universal 			1"	2.21.10F0		2.21.10E0	E
			1.5"	2.21.15F0		2.21.15E0	E
Standard 			1"	2.21.10F1		2.21.10E1	
			1.5"	2.21.15F1		2.21.15E1	
90° 			1"	2.21.10F2		2.21.10E2	
			1.5"	2.21.15F2		2.21.15E2	
Oblique -hinge l + r 			1"	2.21.10FK1		2.21.10EK1	
			1.5"	2.21.15FK1		2.21.15EK1	
Oblique 90° -hinge 			1"	2.21.10FK2		2.21.10EK2	
			1.5"	2.21.15FK2		2.21.15EK2	
Parallel -square 			1"	2.21.10F5		2.21.10E5	
			1.5"	2.21.15F5		2.21.15E5	

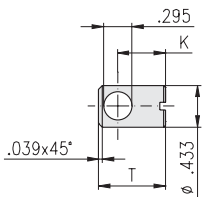
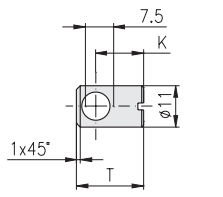
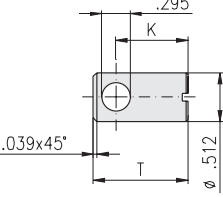
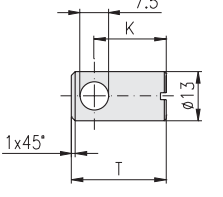
Connection / Connector	Finished dimension		PG	Article-No. for connector	
	inch	mm		steel standard	E
Miter -hinge l + r 			1"	2.21.10G1	
			1.5"	2.21.15G1	
Miter 90° -hinge l + r 			1"	2.21.10G2	
			1.5"	2.21.15G2	

Connection variants with screw-type connectors		
		
Profile with profile	Profile to plate with thread	Profile to plate with through-hole

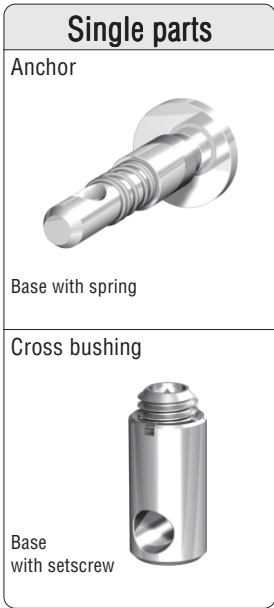
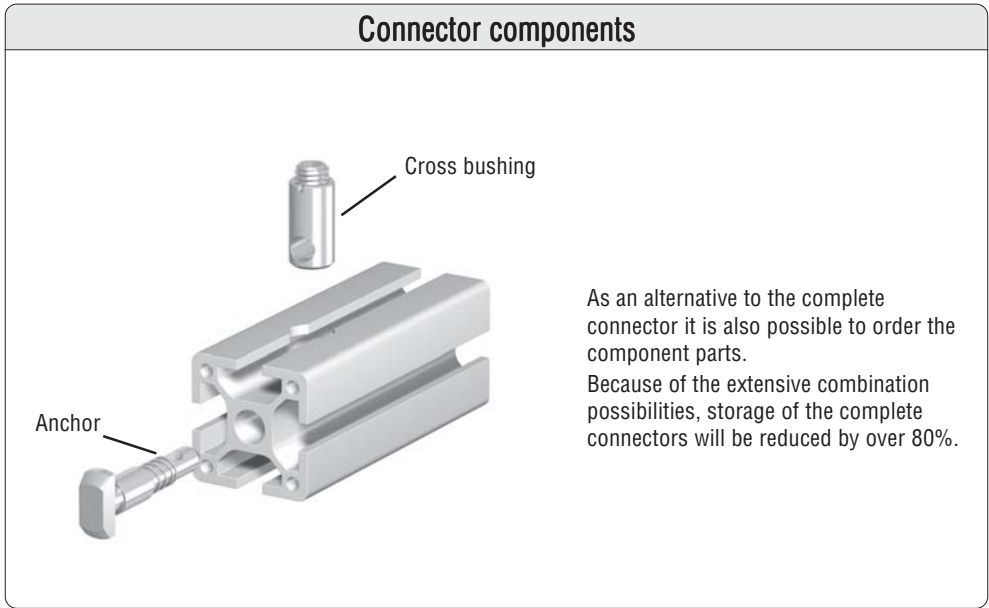
Mounting instruction for screw-type connectors
1. Screw anchor in until it stops against the shoulder 2. Unscrew anchor until it lines-up with the cross bushing position (max. one turn) 3. Set up profile with cross bushing

Connection / Connector	Finished dimension		PG	thread	Article-No. for connector	
	inch	mm			steel standard	E
Screw-type front sided 			1"	5/16-18	2.21.10SM8.5/1618	
			1.5"	5/16-18	2.21.15SM8.5/1618	

Drill dimensions for connector cross bushings

Slot type	Cross bushing dimension		PG K	Core hole distance T	Boring depth, Cross bushing length	Article-No.
	inch	mm				steel
F-slot			1"	1/2 in. (12.7 mm)	.697 in. (17.7 mm)	2.21.B10
E-slot			1.5"	3/4 in. (19.05 mm)	.984 in. (25 mm)	2.21.B15

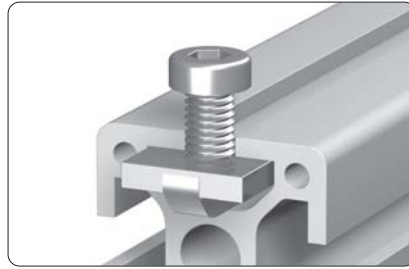
 tools  2.99



Connector for core hole Ø.394 in. (10 mm)			Connectors, complete				Single parts	
			PG 1"		PG 1.5"		Anchor	Piece
			steel standard	E	steel standard	E		
		Universal	2.21.10F0		2.21.15F0		2.21.A1F0	1
			2.21.10E0	E	2.21.15E0	E	2.21.A1E0	E
		Standard	2.21.10F1		2.21.15F1		2.21.A1F1	1
			2.21.10E1		2.21.15E1		2.21.A1E1	1
		90°	2.21.10F2		2.21.15F2		2.21.A1F2	1
			2.21.10E2		2.21.15E2		2.21.A1E2	1
		Oblique -hinge l + r	2.21.10FK1		2.21.15FK1		2.21.A1FK1	1
			2.21.10EK1		2.21.15EK1		2.21.A1EK1	1
		90° -hinge	2.21.10FK2		2.21.15FK2		2.21.A1FK2	1
			2.21.10EK2		2.21.15EK2		2.21.A1EK2	1
		Parallel -square	2.21.10F5				2.21.A10F5	1
			2.21.10E5				2.21.A10E5	1
					2.21.15F5		2.21.A15F5	1
					2.21.15E5		2.21.A15E5	1
		Miter -hinge l + r	2.21.10G1		2.21.15G1		2.21.A1G1	1
		90° -hinge l + r	2.21.10G2		2.21.15G2		2.21.A1G2	1
		Screw-type -front sided	2.21.10SM8.5/1618		2.21.15SM8.5/1618		2.21.A1SM8.5/1618	1
		Cross bushing, steel	2.21.B10		2.21.B15		Cross bushing, steel	

E = ground-connector

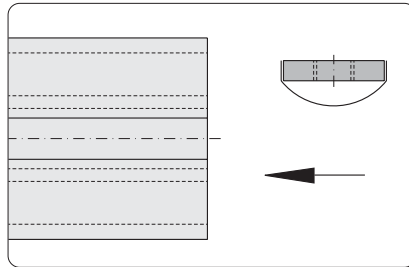
Threaded plates



Fixed into position with leaf spring

Application

Fastening element for screw-type connections

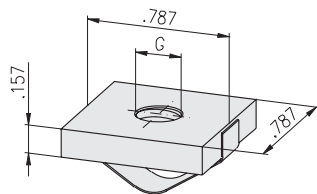
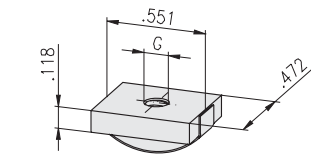


Assembly

Insert from end

Technical data

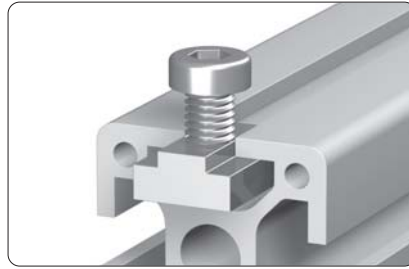
material: steel
 surface: galvanised
 max. moment of torque: $M_{A, max}$



Description	G	$M_{A, max}$	Weight	Article-No.
Threaded plate F	8-32	2.213 lbs.×ft.	.0082 lbs.	2.31.F4.08-32
Threaded plate F	10-32	3.688 lbs.×ft.	.0079 lbs.	2.31.F5.10-32
Threaded plate F	1/4-20	5.163 lbs.×ft.	.0073 lbs.	2.31.F6.1/4-20

Description	G	$M_{A, max}$	Weight	Article-No.
Threaded plate E	8-32	2.213 lbs.×ft.	.0260 lbs.	2.31.E4.08-32
Threaded plate E	10-32	3.688 lbs.×ft.	.0256 lbs.	2.31.E5.10-32
Threaded plate E	1/4-20	7.376 lbs.×ft.	.0249 lbs.	2.31.E6.1/4-20
Threaded plate E	5/16-18	11.063 lbs.×ft.	.0243 lbs.	2.31.E8.5/16-18

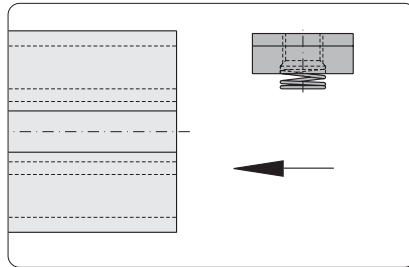
T-Nuts



Fixing with compressing spring

Application

Fastening element for screw-type connections



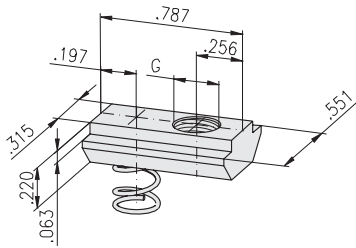
Insert from end

Assembly

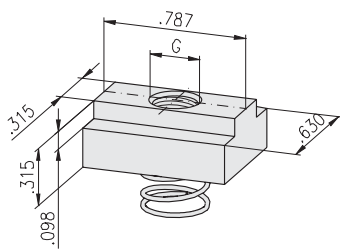
Insert from end

Technical data

material: steel
 surface: galvanised
 max. moment of torque: $M_{A, max}$

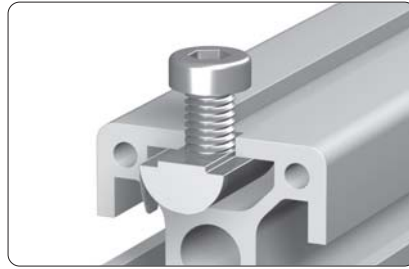


Description	G	$M_{A, max}$	Weight	Article-No.
T-Nut F	1/4-20	7.376 lbs.xft.	.0154 lbs.	2.32.F6.1/4-20
T-Nut F	5/16-18	19.177 lbs.xft.	.0146 lbs.	2.32.F8.5/16-18



Description	G	$M_{A, max}$	Weight	Article-No.
T-Nut E	1/4-20	7.376 lbs.xft.	.0331 lbs.	2.32.E6.1/4-20
T-Nut E	5/16-18	19.177 lbs.xft.	.0309 lbs.	2.32.E8.5/16-18

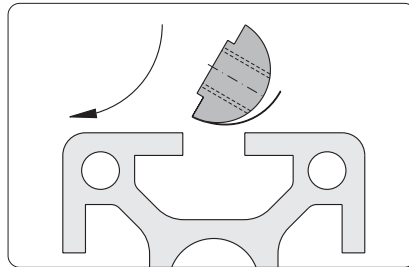
**T-Nuts
for subsequent insertion**



Fixing with leaf spring

Application

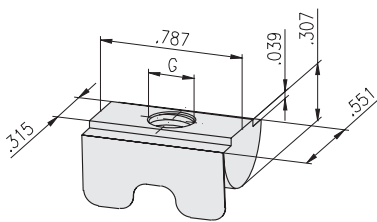
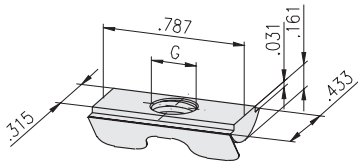
Fastening element for screw-type connections



Insert front-sided and rotate

Technical data

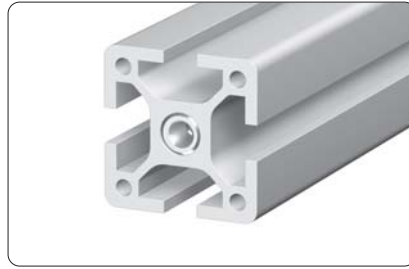
material: steel
 surface: galvanised
 max. moment of torque: $M_{A, \max}$



Description	G	$M_{A, \max}$	Weight	Article-No.
T-Nut for subs. insertion F	8-32	2.213 lbs.×ft.	.0108 lbs.	2.324.F4.08-32
T-Nut for subs. insertion F	10-32	3.688 lbs.×ft.	.0101 lbs.	2.324.F5.10-32
T-Nut for subs. insertion F	1/4-20	7.376 lbs.×ft.	.0095 lbs.	2.324.F6.1/4-20
T-Nut for subs. insertion F	5/16-18	7.376 lbs.×ft.	.0082 lbs.	2.324.F8.5/16-18

Description	G	$M_{A, \max}$	Weight	Article-No.
T-Nut for subs. insertion E	8-32	2.213 lbs.×ft.	.0220 lbs.	2.324.E4.08-32
T-Nut for subs. insertion E	10-32	3.688 lbs.×ft.	.0220 lbs.	2.324.E5.10-32
T-Nut for subs. insertion E	1/4-20	7.376 lbs.×ft.	.0220 lbs.	2.324.E6.1/4-20
T-Nut for subs. insertion E	5/16-18	19.177 lbs.×ft.	.0198 lbs.	2.324.E8.5/16-18

Threaded inserts

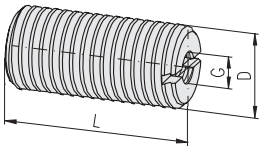


Application

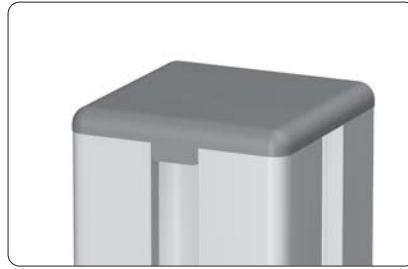
For mounting on front end and fastening of any profile with core hole Ø.394 in.

Technical data

material: steel
surface: galvanised



Description	D/G	L	Weight	Article-No.
Threaded insert	1/2"-13 / 1/4"-20	.591	.0161 lbs.	2.35.11214
Threaded insert	1/2"-13 / 5/16"-18	.591	.0121 lbs.	2.35.112516

Cover caps

Application

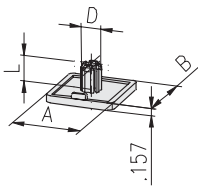
Cover caps prevent dirt from entering and avoid lacerations.

Technical data

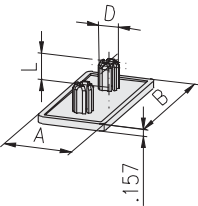
material: PA-GF
 temperature range: -20°C to +85°C

Comments

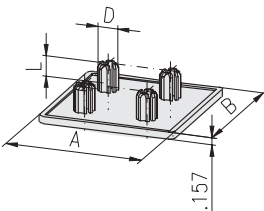
Before mounting debur core hole

Square


Description	AxB	D	L	Colour	Weight	Article-No.
Cover cap	1"×1"	Ø.433	.551	grey	.013 lbs.	2.42.1010010.1
Cover cap	1"×1"	Ø.433	.551	black	.013 lbs.	2.42.1010010.2
Cover cap	1.5"×1.5"	Ø.433	.551	grey	.022 lbs.	2.42.2015015.1
Cover cap	1.5"×1.5"	Ø.433	.551	black	.022 lbs.	2.42.2015015.1

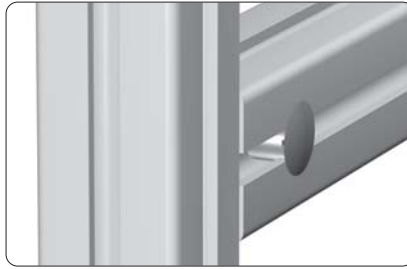
Rectangle


Description	AxB	D	L	Colour	Weight	Article-No.
Cover cap	1.5"×3"	Ø.433	.551	grey	.040 lbs.	2.42.2015030.1
Cover cap	1.5"×3"	Ø.433	.551	black	.040 lbs.	2.42.2015030.2

Square


Description	AxB	D	L	Colour	Weight	Article-No.
Cover cap	2"×2"	Ø.433	.551	grey	.026 lbs.	2.42.1020020.1
Cover cap	2"×2"	Ø.433	.551	black	.026 lbs.	2.42.1020020.2
Cover cap	3"×3"	Ø.433	.551	grey	.075 lbs.	2.42.2030030.1
Cover cap	3"×3"	Ø.433	.551	black	.075 lbs.	2.42.2030030.2

Cover plugs domed

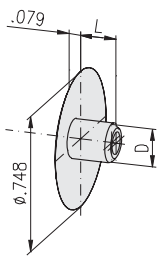
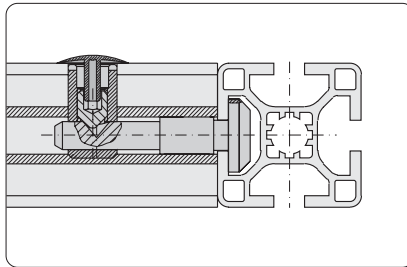


Application

The cover plug allows the closing of the connector cross bushing bore

Technical data

material: PE



Description	Colour	D	L	Weight	Article-No.
Cover plug 1" domed	grey	Ø.169	.177	.002 lbs.	2.42.5110.1
Cover plug 1" domed	black	Ø.169	.177	.002 lbs.	2.42.5110.2
Cover plug 1.5" domed	grey	Ø.169	.433	.002 lbs.	2.42.5115.1
Cover plug 1.5" domed	black	Ø.169	.433	.002 lbs.	2.42.5115.2

Base plates



Fastening of levelling feet

Application

Base and transporting plate for profiles without centric core hole



Fastening of castors



Fastening of eye-bolts

Technical data

material: aluminium
 strength: F22
 surface: black powder-coated

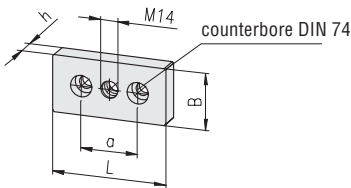
Accessories

(↔ *Catalogue, 'The Profile System'*)

- threaded insert
- cap-screw DIN 912

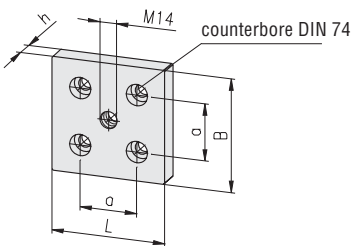
Comments

Counterbore DIN 74 for cap-screw DIN 912



1 1.5

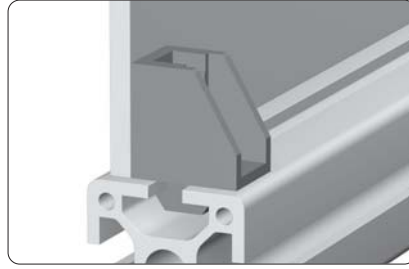
Description	B×L	DIN 74	h	a	Weight	Article-No.
Base plate	1.5"×3"	M14 - Km8	.591	1.5	.048 lbs.	2.47.2015030



1 1.5

Description	B×L	DIN 74	h	a	Weight	Article-No.
Base plate	2"×2"	M14 - Km6	.591	1.0	.044 lbs.	2.47.2020020
Base plate	3"×3"	M14 - Km8	.591	1.5	.106 lbs.	2.47.2030030

**Mounting blocks
for subsequent insertion**

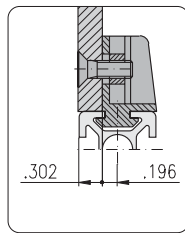


Application

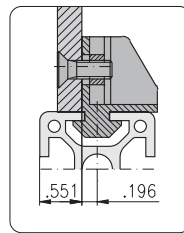
For the mounting of panels with subsequent insertion
Variable mounting position of panels with distancing plate

Technical data

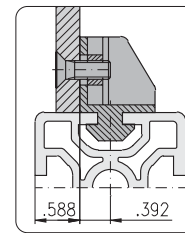
material: PA-GF
colour: black
square nut: steel , galvanised
max. static load: 250 N, rectangular to slot



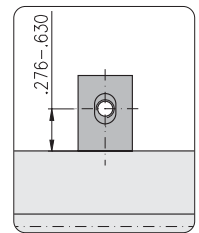
F-slot



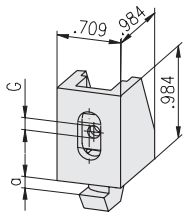
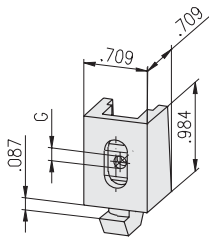
E3-slot



E4-slot



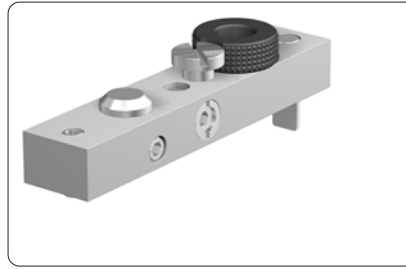
Tolerance equalisation: .354 in.



Description	G	Weight	Article-No.
Mounting block F	1/4"-20	.022 lbs.	2.64.2F2M6.1/4-20

Description	G	a	Weight	Article-No.
Mounting block E3	1/4"-20	.118	.022 lbs.	2.64.2E3M6.1/4-20
Mounting block E4	1/4"-20	.157	.022 lbs.	2.64.2E4M6.1/4-20

Drill jigs
for profiles with F- and E-slots



Drill jig with setscrew



Drill jig with clamping lever

Application

Tools for precise machining of connection bore

- for drilling machine: - drill jig
- drill
- for milling machine: - milling cutter
- the drill jig is located and fastened in the profile slot
- suitable for any profile angle cut

Technical data

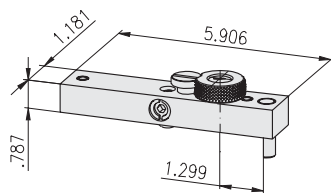
Base body:

- material: aluminium
- surface: neutral anodised

Drill bush:

- material: steel
- surface: hardened and polished

Drill jig
with setscrew



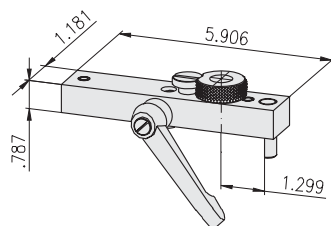
Description	Weight	Article-No.
Drill jig FE with setscrew	.827 lbs.	2.99.01111

Single parts	Weight	Article-No.
Base body	.414 lbs.	1.99.01112-01
Drill bush for cross bushing, Ø.441	.231 lbs.	2.99.01112-02
Drill bush for cross bushing, Ø.520	.231 lbs.	2.99.01112-03
Safety screw for drill bush, M8×5.5	.024 lbs.	1.99.01112-04
Stop pin	.042 lbs.	1.99.01112-05
Setscrew for stop pin	.004 lbs.	1.99.01112-06
Connector, parallel-high	.066 lbs.	1.21.31/2F5
Anchor	.044 lbs.	1.21.A2E5

Accessories

Drill bush for parallel-anchor, Ø.398	.198 lbs.	2.99.01112-12
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Drill jig
with clamping lever



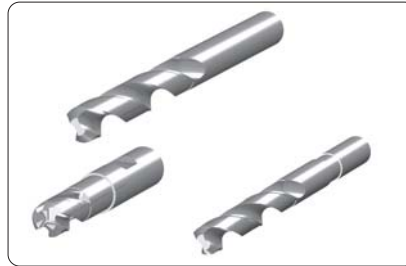
Description	Weight	Article-No.
Drill jig FE with clamping lever	.966 lbs.	2.99.01112

Single parts	Weight	Article-No.
Base body	.414 lbs.	1.99.01112-01
Drill bush for cross bushing, Ø.441	.231 lbs.	2.99.01112-02
Drill bush for cross bushing, Ø.520	.231 lbs.	2.99.01112-03
Safety screw for drill bush, M8×5.5	.024 lbs.	1.99.01112-04
Stop pin	.042 lbs.	1.99.01112-05
Setscrew for stop pin	.004 lbs.	1.99.01112-06
Connector, parallel-high	.066 lbs.	1.21.31/2F5
Anchor	.044 lbs.	1.21.A2E5
Clamping lever 80, for connector, M10×20	.139 lbs.	1.29.801020

Accessories

Drill bush for parallel-anchor, Ø.398	.198 lbs.	2.99.01112-12
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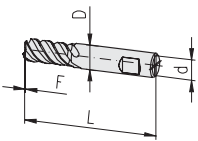
Tools
for profiles with F- and E-slots



Drill, Milling cutter

Milling cutter

- for • parallel-anchor
- cross bushing



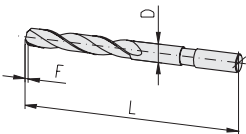
Technical data

material: HSS
4 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	d	Weight	Article-No.
Milling cutter f. par.-anchor	Ø.398	3.150	.079×45°	.472	.130 lbs.	2.99.0211045
Milling cutter f. cross bush.	Ø.441	3.543	.039×45°	.630	.256 lbs.	2.99.0211145
Milling cutter f. cross bush.	Ø.520	3.543	.039×45°	.630	.256 lbs.	2.99.0211345

Drill

for parallel-anchor



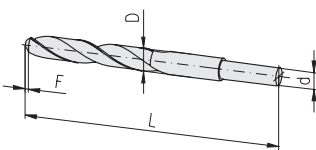
Technical data

material: HSS
2 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	Weight	Article-No.
Drill for parallel-anchor	Ø.398	5.906	.079×45°	.205 lbs.	2.99.0311045

Drills

for cross bushing

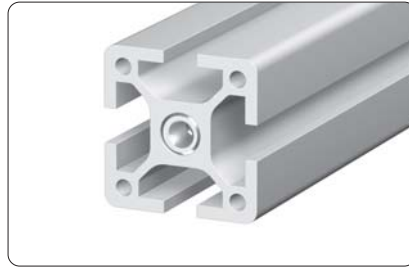


Technical data

material: HSS
2 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

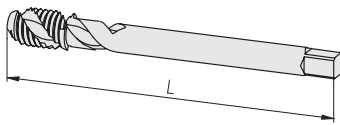
Description	D	L	F	d	Weight	Article-No.
Drill for cross bushing	Ø.441	5.591	.039×45°	.472	.201 lbs.	2.99.0321145
Drill for cross bushing	Ø.520	5.945	.039×45°	.472	.205 lbs.	2.99.0321345

**Screw taps
for aluminium machining**



Application

Mounting threads in profile centre core holes



Technical data

material: HSS/E

machine threading tap:

- right hand cutting, 20° left spiral fluted
- enlarged chip flute
- 2-pitch thread start
- tolerance class: 6H

Description	G	L	Weight	Article-No.
Screw tap	M12	4.331	.231 lbs.	2.99.0412110
Screw tap	1/2"-13	4.331	.245 lbs.	2.99.14102013

Metric and English Conversion Table

Linear Measure					
1 km	=	0.6214 mi	1 mi	=	1.61 km
1 m	=	0.0006214 mi	1 mi	=	1,610 m
1 m	=	3.28 ft	1 ft	=	0.305 m
1 cm	=	0.3937 in	1 in	=	2.54 cm
1 mm	=	0.03937 in	1 in	=	25.4 mm

Square Measure					
1 km ²	=	0.3861 mi ²	1 mi ²	=	2.59 km ²
1 m ²	=	10.76 ft ²	1 ft ²	=	0.093 m ²
1 cm ²	=	0.155 in ²	1 in ²	=	0.65 cm ²
1 mm ²	=	0.00155 in ²	1 in ²	=	845.2 mm ²

Weight Measure					
1 kg	=	2.2 lbs	1 lb	=	0.455 kg
1 kg	=	35.274 ozs	1 oz	=	0.028 kg

Force Measure					
1 Newton (N)	=	0.225 lbs	1 lb	=	4.448 N
1 daN	=	2.2 lbs	1 lb	=	0.455 daN
1 kg Force	=	9.8 Newton (N)	1 N	=	0.102 kg Force
1 Kilopound	=	9.5 Newton (N)	1 N	=	0.105 Kilopound
1 Pound/Inch	=	175.127 Newton/Meter	1 N/m	=	0.0057 Pound/Inch
1 Pound/Foot	=	14.59 Newton/Meter	1 N/m	=	0.0685 Pound/Foot

Pressure Measure					
1 Bar	=	14.5 P.S.I.	1 P.S.I.	=	0.690 Bar
1 kg/m ²	=	9.8 Newton/Meter ²	1 N/m ²	=	0.102 kg/m ²
1 kg/m ²	=	9.8 Pascal (Pa)	1 Pa	=	0.102 kg/m ²
1 Kilonewton/Meter	=	0.145 P.S.I.	1 P.S.I.	=	6.897 KN/m ²

Other					
1 in ³	=	16.3871 cm ³	1 cm ³	=	0.0610 in ³
1 in ⁴	=	41.623 cm ⁴	1 cm ⁴	=	0.024 in ⁴
1 lb/ft	=	1.4882 kg/m	1 kg/m	=	0.67195 lb/ft
1 Nm	=	8.858 inch-pounds	1 inch-pound	=	0.113 Nm

Metric / U.S. Customary Unit Equivalents

Linear				
miles	× 1.6093	= kilometers (km)	× 0.6214	= miles
yards	× 0.9144	= meters (m)	× 1.0936	= yards
feet	× 0.3048	= meters (m)	× 3.281	= feet
inches	× 2.54	= centimeters (cm)	× 0.3937	= inches
inches	× 25.4	= millimeters (mm)	× 0.03937	= inches

Area				
miles ²	× 2.59	= kilometers ² (km ²)	× 0.3861	= miles ²
yards ²	× 0.8361	= meters ² (m ²)	× 1.196	= yards ²
inches ²	× 6.452	= centimeters ² (cm ²)	× 0.155	= inches ²
acres ²	× 0.4047	= hectares ² (10 ⁴ m ²) or (ha)	× 2.471	= acres ²
feet ²	× 0.0929	= meters ² (m ²)	× 10.764	= feet ²

Mass				
ounces (av)	× 28.35	= grams (g)	× 0.03527	= ounces (av)
pounds (av)	× 0.4536	= kilograms (kg)	× 2.2046	= pounds (av)
tons (2000 lb)	× 907.18	= kilograms (kg)	× 0.001102	= tons (2000 lb)
tons (2000 lb)	× 0.90718	= metric tons (t)	× 1.1023	= tons (2000 lb)

Force				
ounces - f	× 0.278	= newtons (N)	× 3.597	= ounces - f
pounds - f	× 4.448	= newtons (N)	× 0.2248	= pounds - f
kilograms - f	× 9.807	= newtons (N)	× 0.10197	= kilograms - f

Thread	mm			inch		
	Outside dia	Core dia		Outside dia	Core dia	
metric		Bolt	Nut		Bolt	Nut
M4	4	3.141	3.242	0.15748	0.12362	0.12756
M5	5	4.019	4.134	0.19685	0.15827	0.16260
M6	6	4.773	4.917	0.23622	0.18779	0.19370
M8	8	6.466	6.647	0.31496	0.25472	0.26181
M10	10	8.160	8.376	0.39370	0.32126	0.32992
M12	12	9.853	10.106	0.47244	0.38779	0.39803
M14	14	11.546	11.835	0.55118	0.45827	0.46614
M16	16	13.546	13.835	0.62992	0.53346	0.54488

Thread	inch			mm		
	Outside dia	Core dia		Outside dia	Core dia	
UNF, NF / UNC, NC		Bolt	Nut		Bolt	Nut
8 - 32	0.16402	0.12571	0.13020	4.166	3.193	3.307
10 - 32	0.19000	0.15169	0.15618	4.826	3.853	3.967
1/4" - 20	0.25000	0.18870	0.19591	6.350	4.793	4.967
5/16" - 18	0.31252	0.24429	0.25240	7.938	6.205	6.411
3/8" - 16	0.37500	0.29831	0.30728	9.525	7.577	7.805
1/2" - 13	0.50000	0.40551	0.41669	12.700	10.300	10.584
9/16" - 12	0.56252	0.46031	0.47228	14.288	11.692	11.996
5/8" - 11	0.62500	0.51350	0.52661	15.875	13.043	13.376

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La chiave ...

del successo

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