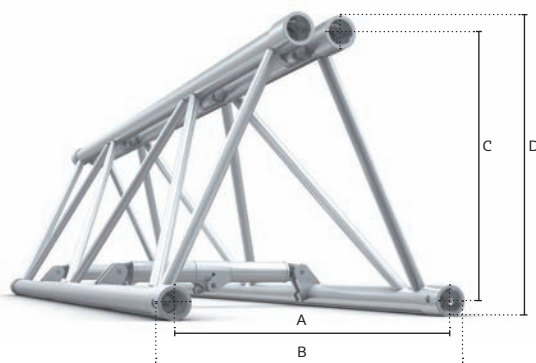


M520

- High-capacity M520 series truss range
- Square or compact folding formats available
- Super-sized conical connections for maximum rigidity
- User-friendly tapered pin holes for ease of assembly
- Great free-span & loading characteristics (FTP up to 24m/ 78.74 ft and QTP up to 30m/ 98.43 ft)
- Connection kit supplied with every truss length & junction
- Compatible with 200/400/500/600 series cell clamps
- Powder coat colour finish available on request

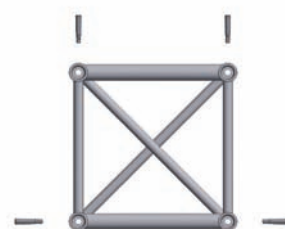
FOLD



M520

FTP	mm	in	Main Chords	Diagonals	Alloy	A	B	C	D	Coupler
			50x4 (2x0.16)	25x3 (0.98x0.12)	EN - AW 6082 T6	520 (20.47)	579 (22.80)	470 (18.50)	529 (20.83)	CCO

QUATRO



M520

QTP	mm	in	Main Chords	Diagonals	Horizontal Braces	Alloy	A	B	Coupler
			50x4 (2x0.16)	30x3 (1.81x0.12)	50x4 (2x0.16)	EN - AW 6082 T6	470 (18.50)	529 (20.83)	CCO

STANDARD LENGTHS AND WEIGHTS AVAILABLE

	m	(ft)	1.00	(3.28)	1.20	(3.94)	1.50	(4.92)	1.60	(5.25)	2.00	(6.56)	2.40	(7.87)	2.50	(8.20)	3.00	(9.84)	3.50	(11.48)	4.00	(13.12)
FOLD	kg	(lbs)	13.00	(28.66)	14.40	(31.74)	15.40	(33.95)	19.93	(43.87)	23.20	(51.14)	28.50	(62.85)	29.20	(63.93)	32.00	(70.55)	34.20	(75.39)	41.90	(92.37)
QUATRO	kg	(lbs)	17.00	(37.48)	18.50	(40.78)	22.50	(49.60)	22.60	(49.82)	27.60	(60.85)	31.60	(69.69)	33.00	(72.75)	38.30	(84.44)	44.00	(97.00)	49.00	(108.03)

Connection material (pins/clips/couplers) and packaging are not included in above weights

M520 FTP FOLD

LOADING CHART

Span	m (ft)	4.00 (13.12)	6.00 (19.69)	8.00 (26.25)	10.00 (32.81)	12.00 (39.37)
Centre Point Load (CPL)	kg (lbs)	2584.90 (5698.72)	2308.00 (5088.26)	1927.00 (4248.30)	1627.00 (3586.92)	1393.70 (3072.58)
Deflection	mm (in)	3.80 (0.15)	11.60 (0.46)	23.20 (0.91)	38.80 (1.53)	58.40 (2.30)
Third Point Load (TPL)	kg (lbs)	1292.40 (2849.25)	1282.30 (2826.98)	1221.00 (2691.84)	1073.00 (2365.56)	951.00 (2096.59)
Deflection	mm (in)	3.30 (0.13)	11.00 (0.43)	25.00 (0.98)	43.40 (1.71)	67.30 (2.65)
Quarter Point Load (QPL)	kg (lbs)	861.60 (1899.50)	854.90 (1884.73)	848.20 (1869.96)	841.40 (1854.97)	696.90 (1536.40)
Deflection	mm (in)	3.00 (0.12)	10.20 (0.40)	24.20 (0.95)	47.30 (1.86)	68.70 (2.70)
Fifth Point Load (FPL)	kg (lbs)	646.20 (1424.63)	641.20 (1413.60)	636.10 (1402.36)	631.10 (1391.34)	580.70 (1280.22)
Deflection	mm (in)	2.90 (0.11)	9.80 (0.39)	23.20 (0.91)	45.20 (1.78)	72.70 (2.86)
Uniformly Distributed Load (UDL)	kg (lbs)	646.20 (434.23)	427.40 (287.20)	318.10 (213.75)	252.40 (169.60)	208.70 (140.24)
Deflection	mm (in)	2.40 (0.09)	8.10 (0.32)	19.30 (0.76)	37.70 (1.48)	65.10 (2.56)

Span	14.00 (45.93)	16.00 (52.49)	18.00 (59.06)	20.00 (65.62)	22.00 (72.18)	24.00 (78.74)
Centre Point Load (CPL)	1175.90 (2592.41)	1010.00 (2226.67)	878.70 (1937.20)	771.60 (1701.08)	682.20 (1503.99)	606.00 (1336.00)
Deflection	79.90 (3.15)	105.00 (4.13)	133.90 (5.27)	166.70 (6.56)	203.50 (8.01)	244.60 (9.63)
Third Point Load (TPL)	855.00 (1884.95)	757.50 (1670.00)	659.00 (1452.84)	578.70 (1275.81)	511.70 (1128.10)	454.50 (1002.00)
Deflection	97.50 (3.84)	131.30 (5.17)	166.40 (6.55)	205.90 (8.11)	249.60 (9.83)	297.80 (11.72)
Quarter Point Load (QPL)	587.90 (1296.10)	505.00 (1113.33)	439.30 (968.49)	385.80 (850.54)	341.10 (752.00)	303.00 (668.00)
Deflection	93.70 (3.69)	122.80 (4.83)	155.90 (6.14)	193.10 (7.60)	234.60 (9.24)	280.50 (11.04)
Fifth Point Load (FPL)	489.90 (1080.04)	420.80 (927.70)	366.10 (807.11)	321.50 (708.79)	284.30 (626.77)	252.50 (556.67)
Deflection	99.10 (3.90)	129.60 (5.10)	164.40 (6.47)	203.40 (8.01)	246.70 (9.71)	294.40 (11.59)
Uniformly Distributed Load (UDL)	168.00 (112.89)	126.20 (84.80)	97.60 (65.58)	77.20 (51.88)	62.00 (41.66)	50.50 (33.93)
Deflection	98.30 (3.87)	128.70 (5.07)	163.20 (6.43)	202.00 (7.95)	245.00 (9.65)	292.40 (11.51)

M520 QTP QUATRO

LOADING CHART

Span	m (ft)	6.00 (19.69)	8.00 (26.25)	10.00 (32.81)	12.00 (39.37)	14.00 (45.93)	16.00 (52.49)
Centre Point Load (CPL)	kg (lbs)	2367.00 (5218.34)	1956.00 (4312.24)	1652.00 (3642.03)	1402.30 (3091.54)	1184.90 (2612.25)	1019.60 (2247.83)
Deflection	mm (in)	11.80 (0.46)	23.40 (0.92)	39.00 (1.54)	58.10 (2.29)	79.60 (3.13)	104.50 (4.11)
Third Point Load (TPL)	kg (lbs)	1451.00 (3198.90)	1257.00 (2771.21)	1098.00 (2420.67)	968.00 (2134.07)	862.00 (1900.38)	764.70 (1685.87)
Deflection	mm (in)	12.30 (0.48)	25.60 (1.01)	44.00 (1.73)	67.80 (2.67)	97.30 (3.83)	130.90 (5.15)
Quarter Point Load (QPL)	kg (lbs)	1083.00 (2387.60)	967.00 (2131.87)	851.50 (1877.23)	701.20 (1545.88)	592.50 (1306.24)	509.80 (1123.92)
Deflection	mm (in)	12.80 (0.50)	27.40 (1.08)	47.50 (1.87)	68.50 (2.70)	93.40 (3.68)	122.40 (4.82)
Fifth Point Load (FPL)	kg (lbs)	866.00 (1909.20)	797.00 (1757.08)	709.60 (1564.40)	584.30 (1288.16)	493.70 (1088.42)	424.80 (936.52)
Deflection	mm (in)	13.10 (0.52)	28.70 (1.13)	50.30 (1.98)	72.50 (2.85)	98.80 (3.89)	129.20 (5.09)
Uniformly Distributed Load (UDL)	kg (lbs)	817.20 (549.13)	537.30 (361.05)	340.60 (228.87)	233.70 (157.04)	169.30 (113.76)	127.50 (85.68)
Deflection	mm (in)	15.20 (0.60)	31.90 (1.26)	49.90 (1.96)	71.90 (2.83)	98.10 (3.86)	128.30 (5.05)

Span	18.00 (59.06)	20.00 (65.62)	22.00 (72.18)	24.00 (78.74)	26.00 (85.30)	28.00 (91.86)	30.00 (98.43)
Centre Point Load (CPL)	889.00 (1959.91)	782.70 (1725.56)	694.00 (1530.01)	618.60 (1363.78)	553.40 (1220.04)	496.10 (1093.71)	445.30 (981.72)
Deflection	133.20 (5.24)	165.70 (6.52)	202.10 (7.96)	242.70 (9.56)	287.60 (11.32)	336.90 (13.26)	391.00 (15.39)
Third Point Load (TPL)	666.80 (1470.04)	587.00 (1294.11)	520.50 (1147.50)	463.90 (1022.72)	415.00 (914.92)	372.10 (820.34)	334.00 (736.34)
Deflection	166.00 (6.54)	205.20 (8.08)	248.80 (9.80)	296.70 (11.68)	349.00 (13.74)	405.80 (15.98)	467.00 (18.39)
Quarter Point Load (QPL)	444.50 (979.95)	391.30 (862.67)	347.00 (765.00)	309.30 (681.89)	276.70 (610.02)	248.10 (546.97)	222.70 (490.97)
Deflection	155.30 (6.11)	192.40 (7.57)	233.60 (9.20)	279.20 (10.99)	329.10 (12.96)	383.40 (15.09)	442.30 (17.41)
Fifth Point Load (FPL)	370.40 (816.59)	326.10 (718.93)	289.20 (637.58)	257.70 (568.13)	230.60 (508.39)	206.70 (455.69)	185.60 (409.18)
Deflection	163.90 (6.45)	202.70 (7.98)	245.80 (9.68)	293.30 (11.55)	345.10 (13.59)	401.40 (15.80)	462.20 (18.20)
Uniformly Distributed Load (UDL)	98.80 (66.39)	78.30 (52.62)	63.10 (42.40)	51.50 (34.61)	42.60 (28.63)	35.40 (23.79)	29.70 (19.96)
Deflection	162.70 (6.41)	201.30 (7.93)	244.20 (9.61)	291.30 (11.47)	342.90 (13.50)	398.90 (15.70)	459.40 (18.09)

CPL (Centre Point Load)	TPL (Third Point Load)	QPL (Quarter Point Load)	FPL (Fifth Point Load)	UDL (Uniformly Distributed Load)

All truss loading calculations are based on:
 Truss supported or suspended at both ends • Static loadings only • Loads applied in the node points • Self-weight of the truss is included in all listed load capacities • Spans made of different truss lengths • Interaction of bending moment and shear force at connector is considered • Structural analysis based on EN 1999 • All loading data should be multiplied by 0.85 to comply with BS 7905-2 and ANSI E12-2006 • For any other application, or in case of an assembled structure, contact Milos or a structural engineer • Safety factors used: self-weight 1.35 / variable loads 1.5