

LINEAR UNITS

ONE SERIES

FOR CLEAN ROOM

Class 3 according ISO 14644-1



INTL. PATENT PENDING

RELIABILITY.VELLOCITY.ACCURACY.CLEANNESS.

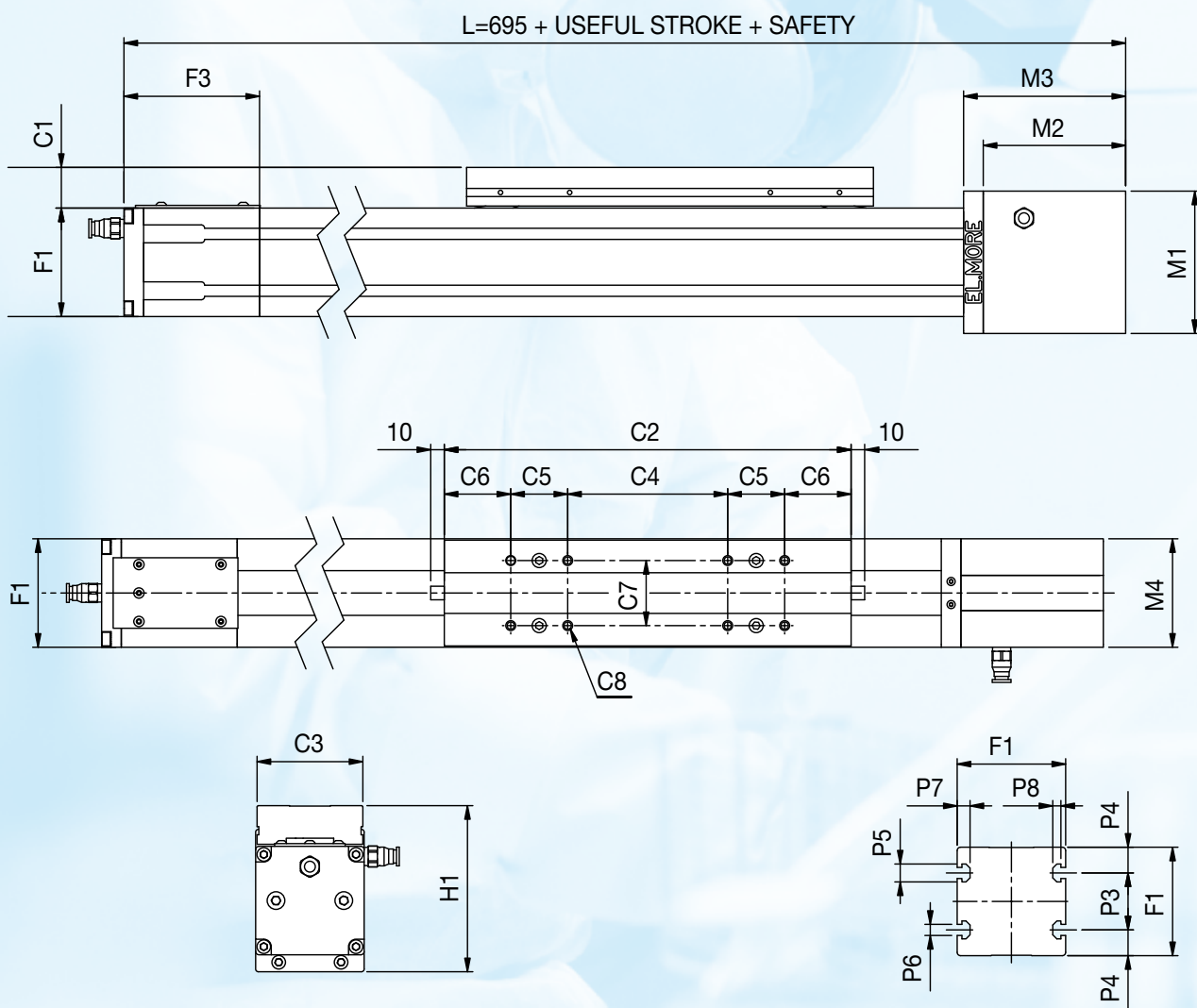
ROLLON[®]
Linear *E*volution

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CLEAN ROOM Linear Units ONE Series



Dimensions [mm]

	H1	M1	M2	M3	M4	C1	C2	C3	C4	C5	C6	C7	C8	F1	F3	P3	P4	P5	P6	P7	P8
ONE 50	80	70	70	80	60	20	150	48	62	26	18	30,5	8xM5 prof. 6mm	50	65	26	12	8,3	4,2	6,2	4
ONE 80	122,5	105	105	120	80	30	300	78	118	42	49	48	8xM6 prof. 6mm	80	100	42	19	13,5	8,4	9,8	6
ONE 110	167,5	145	145	160	130	40	380	108	140	60	60	70	8xM8 prof. 6mm	110	135	62	24	18	11,3	12	8,5

For further details please visit our website www.elmore.it and download the relative dxf-files

CLEAN ROOM Linear Units ONE Series

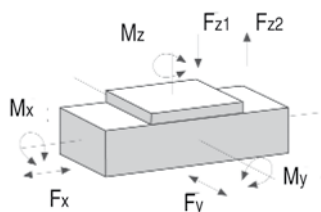


Technical data

		ONE 50	ONE 80	ONE 110
Min. useful stroke length	[mm]	100	100	100
Max. useful stroke length	[mm]	3700	6000	6000
Max. positioning repeatability	[mm]	0,05	0,05	0,05
Max. speed	[m/s]	4	5	5
Max. acceleration	[m/s ²]	50	50	50
Type of belt		22-AT5	32-AT10	50-AT10
Type of pulley		Ø 37-Z23-Backlash 0	Ø 60-Z19-Backlash 0	Ø 86-Z27-Backlash 0
Carriage displacement per pulley turn	[mm]	115	190	270
Carriage weight	[kg]	0,4	2,7	5,6
Zero travel weight	[kg]	1,8	10,5	22,5
Weight for 100 mm useful stroke	[kg]	0,4	1	1,4

Theoric and maximum permissible loads

		ONE 50				ONE 80				ONE 110			
		Theoretical load rating		Max. recomm ended load		Theoretical load rating		Max. recommended load		Theoretical load rating		Max. recommended load	
		static	dynamic	static	dynamic	static	dynamic	static	dynamic	static	dynamic	static	dynamic
FX	[N]	890	670	640	480	2230	1670	1600	1200	4410	3310	3180	2400
FY	[N]	7000	4490	1260	490	43400	34800	7810	3760	79000	55000	14220	5940
FZ	[N]	7000	4490	1260	490	43400	34800	7810	3760	79000	55000	14220	5940
MX	[Nm]	42	27	7	3	620	480	108	52	1300	860	235	90
MY	[Nm]	230	150	41	16	3170	2540	570	270	7110	4950	1280	530
MZ	[Nm]	230	150	41	16	3170	2540	570	270	7110	4950	1280	530





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