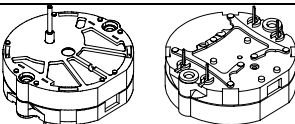
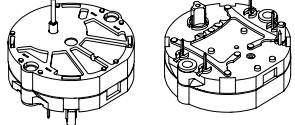
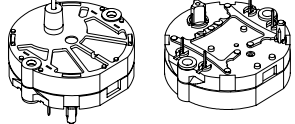
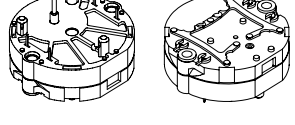
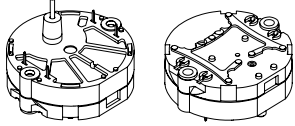


Buyer's Guide

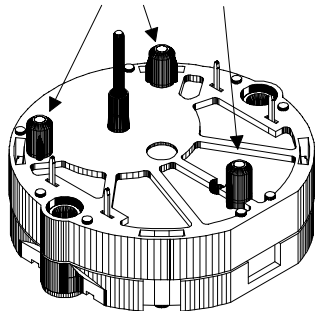
Product Description and Reference Number

Miniature Stepper Motor X25.xxx

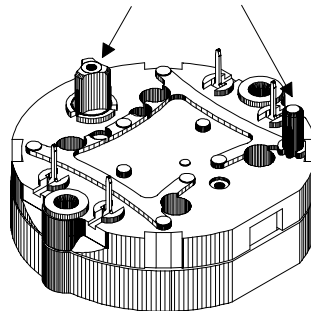
The X25.xxx is the new generation of **switec**'s M-S Motor which is fully compatible with the X15.xxx, XC5.xxx generations.

Product Description	Dom Version	Contacts	Mounting Pegs	Internal Stop	Indicator Shaft	Reference Number
		Rear	no	no	standard	X25.156
		Rear	no	yes	standard	X25.166
		Rear	Rear	no	standard	X25.158
		Rear	Rear	yes	standard	X25.168
	Dom	Rear	Rear	no	long (+2mm)	X25.278
	Dom	Rear	Rear	yes	long (+2mm)	X25.288
		Front	Front	no	Standard	X25.559
		Front	Front	yes	standard	X25.569
		Front	Front	no	long (+2mm)	X25.579
		Front	Front	yes	long (+2mm)	X25.589
	Dom	Front	Front	no	long (+2mm)	X25.679
	Dom	Front	Front	yes	long (+2mm)	X25.689

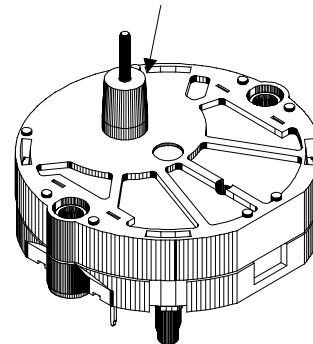
Front Mounting pegs



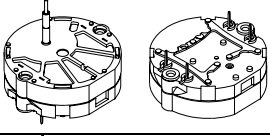
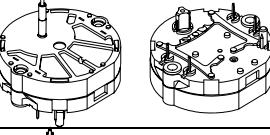
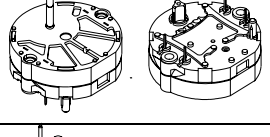
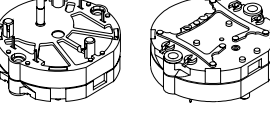
Rear Mounting pegs



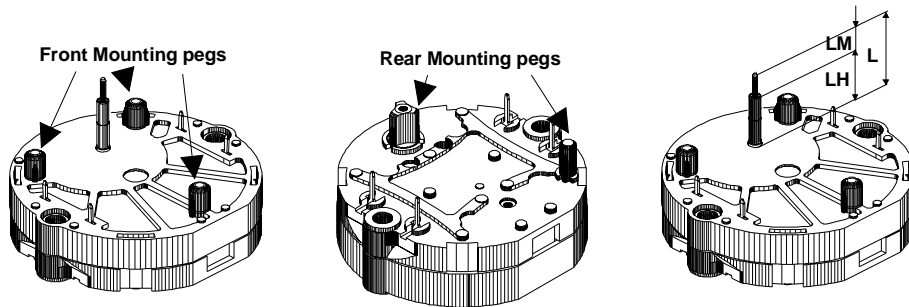
Dom



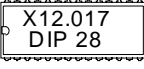
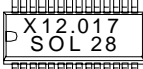



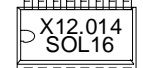


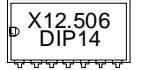
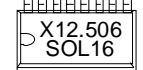


Analogue Car Clock Miniature Stepper Motor X26.xxx

Product Description	Special Feature	Contacts	Mounting Pegs	Indicator Shaft Diameter*	Indicator Shaft Length L/LH/LM *	Reference Number
		Rear	No	0.8/1.8	12.6/8.6/4	X26.101
		Rear	Rear	0.8/1.8	12.6/8.6/4	X26.103
	Minute Shaft Short	Rear	Rear	0.8/1.8	10.9/8.6/2.3	X26.123
		Front	Front	0.8/1.8	12.6/8.6/4	X26.504

*All dimensions in mm

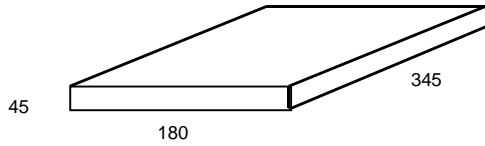


Miniature Stepper Motor Drivers X12.xxx

Product Description	Name	No. of Motors Driven	Package	Reference Number
 	M-S Quad Driver	4 x X25.xxx	DIP 28-pin	X12.017 DIP28
 	M-S Quad Driver	4 x X25.xxx	SOL 28-pin	X12.017 SOL28
 	M-S Dual driver	2 x X25.xxx	DIP 16-pin	X12.014 DIP16
 	M-S Dual Driver	2 x X25.xxx	SOL 16-pin	X12.014 SOL16
 	ACC M-S driver	1 x X26.xxx	DIP 14-pin	X12.506 DIP14
 	ACC M-S driver	1 x X26.xxx	SOL 16-pin	X12.506 SOL16

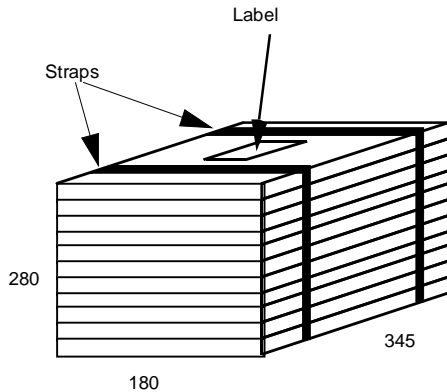
Packaging Information for M-S Motor X25.xxx

Tray for 50 M-S Miniature Stepping Motor X25.xxx:



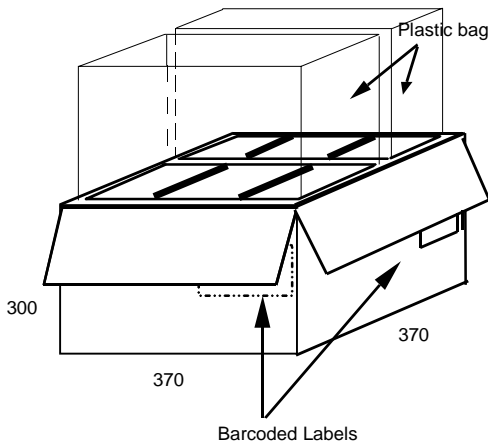
Material:	Polystyrene – Hardplastic		
Weight:	Tray	1 x	210g = 210g
	Motors	50 x	7.5g = 375g
			Total = 585g

Stack for 500 Motors:



Material:	11 Trays (including cover) strapped together with plastic band		
Weight:	Trays	10 x	585g = 5'850g
	Cover tray	1 x	210g = 210g
	Plastic strap	2 x	15g = 30g
			Total = 6'090g

Cardboard box for 1000 Motors:



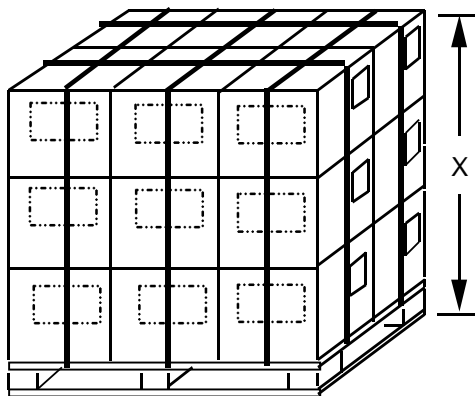
Material:	Cardboard 740 g/m ²		
Weight:	Cardboard	1 x	900g = 900g
	Plastic bag	2 x	50g = 100g
	Stacks	2 x	6'090g = 12'180g
			Total = 13'180g

"Euro-Palette" for 6K/12K/18K/24K Motors:

Material:	Euro-Palette (1'200x800x150)		
Weight:	Palette	1 x	20kg = 20kg

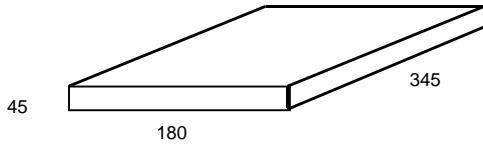
No. of Layers	X	No. of motors	Weight *
1	450mm	6000	100kg
2	750mm	12000	179kg
3	1'050mm	18'000	258kg
4	1'350mm	24'000	336kg

* Estimated maximum weights



all Dimensions in mm

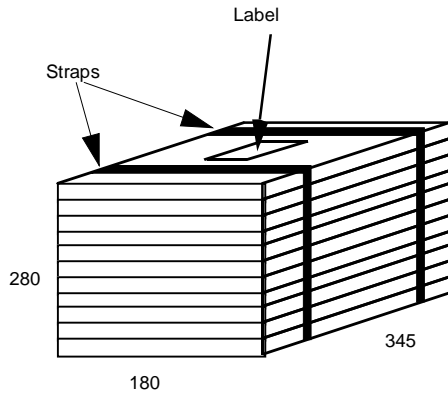
Packaging Information for ACC M-S Motor X26.xxx



Tray for 50 Analogue Car Clock Motor X26.xxx:

Material: Polystyrene – Hardplastic

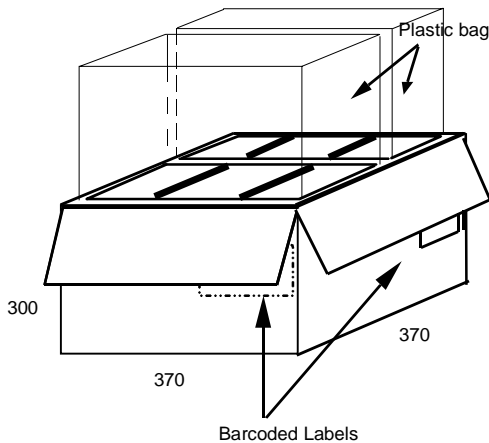
Weight:	Tray	1 x	210g =	210g
	Motors	50 x	8.4g =	420g
			Total =	630g



Stack for 500 Motors:

Material: 11 Trays (including cover) strapped together with plastic band

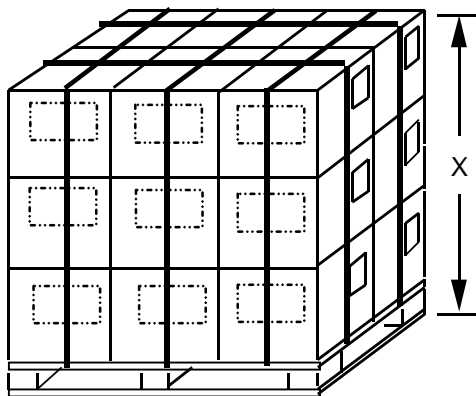
Weight:	Trays	10 x	630g =	6'300g
	Cover tray	1 x	210g =	210g
	Plastic strap	2 x	15g =	30g
			Total =	6'540g



Cardboard box for 1000 Motors:

Material: Cardboard 740 g/m²

Weight:	Cardboard	1 x	900g =	900g
	Plastic bag	2 x	50g =	100g
	Stacks	2 x	6'540g =	13'080g
			Total =	14'080g



"Euro-Palette" for 6K/12K/18K/24K Motors:

Material: Euro-Palette (1'200x800x150)

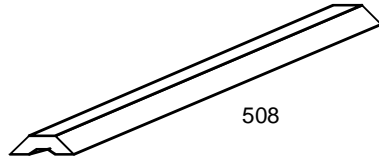
Weight:	Palette	1 x	20kg =	20kg
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No. of layers	X	No. of motors	Weight *
1	450mm	6000	105kg
2	750mm	12000	189kg
3	1'050mm	18'000	274kg
4	1'350mm	24'000	358kg

* Estimated maximum weights

all Dimensions in mm

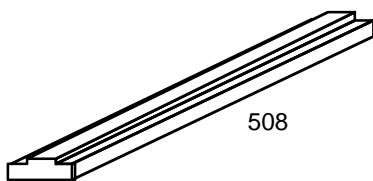
Packaging Information for M-S Drivers



Shipping tube for DIP package:

Material: Clear/Transparent PVC Plastic (antistatic)

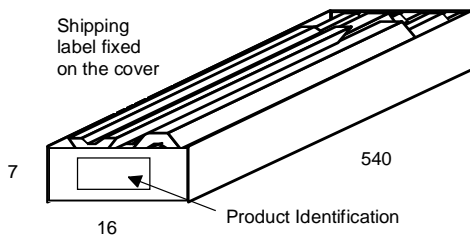
	DIP	No. of Parts	Tube	
X12.506	14 pin IC's	25 x 1.0g +	24g =	49g (A)
X12.014	16 pin IC's	25 x 1.0g +	24g =	49g (B)
X12.017	28 pin IC's	13 x 4.2g +	26g =	81g (C)



Shipping tube for SOL package (sample deliveries only):

Material: Clear/Transparent PVC Plastic (antistatic)

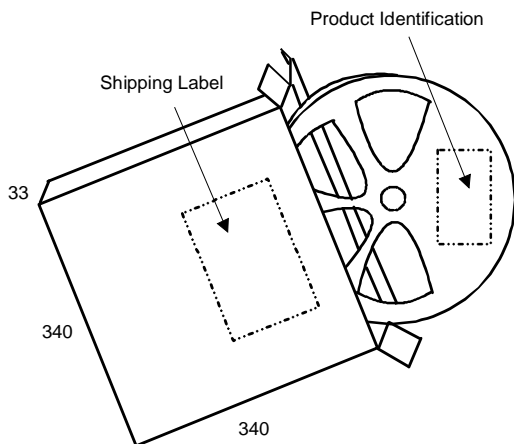
Type	SOL	No. of Parts	Tube	
X12.506	16 pin IC's	46 x 0.4g +	15g =	34g
X12.014	16 pin IC's	46 x 0.4g +	13g =	34g
X12.017	28 pin IC's	27 x 0.7g +	13g =	32g



Cardboard box for Tubes:

Material: Cardboard

Type	DIP	No. of Tubes	No of Ics/box	Weight of box / Box (220g)
X12.506	14 pin IC's	40 X A	1000	/ 2180g
X12.014	16 pin IC's	40 X B	1000	/ 2180g
X12.017	28 pin IC's	25 X C	325	/ 2245g



Cardboard box for SOL in tape:

Material: Cardboard

Type	SOL	No. Of Parts/reel	Reel	Weight of box / Box (130g)
X12.506	16 pin IC's	1000 x 0.4g +	310g =	840g
X12.014	16 pin IC's	1000 x 0.4g +	310g =	840g
X12.017	28 pin IC's	1000 x 0.7g +	310g =	1140g

all Dimensions in mm