

121 - Touch Screen Pen 2 in 1

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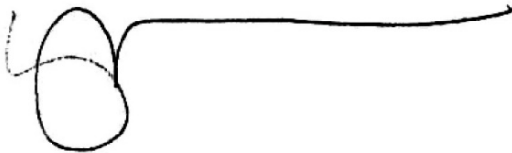


Product Name	Touch screen pen 2 in 1	
Finish	Aluminium body / chrome parts	
Components	Cap & barrel	Aluminium
	Brass parts	Brass
	Refills	Cross type metal refill
	Working mechanism	Mechanism gear box (ABS natural) Mechanism gear wheel (Delrin)
	Springs	Tempered spring steel wire
	clip	Carbon steel

Check list	Duration	Checking tools	Parameters	
Physical parameters of components	5% of every lot while receiving	Vernier / Micrometer	Cap	
			Length	51 mm (± 0.10mm)
			O.D	12.60 mm (± 0.02mm)
			Barrel	
			Length	57.3 mm (± 0.10mm)
			O.D	9.9 mm (± 0.02mm)
			Material	Aluminium
Physical parameters of components	5% of every lot while receiving	Vernier / Micrometer	Brass Parts	
			Nozel length	10.16 mm (±0.20mm)
			O.D	5.08 mm (± 0.05mm)
			Effective length	5.08 mm (± 0.15mm)
			Ring length	5.08 mm (± 0.20mm)
			O.D	10 mm (± 0.05mm)

Physical parameters of components	Test Frequency	Method of Testing	Refill	
			Cross type refill 1.00 mm Blue	
			Length	105 mm (± 0.20mm)
			O.D	2.98 mm (± 0.02mm)
			Material	Brass with nickel plated (BNP)
Manual writing test	100 %	Manually	100% writing checking system manually while refills are in production	
Ink weight	Every one hour	Precision weighing scale	0.500gm (±) 0.050gm	
Writing length	Tested once a pack	Writing test machine Rudi Hutt	(2700) mtrs (±) 400 mtrs	
Ink lay down	Tested once a pack	Writing test machine Rudi Hutt	(16 to 18) mg / 100 mtrs	
Writing test	Twice in 8 hours	Writing test machine Rudi Hutt	23°C ± 2°C	
Temperature			53 % RH ± 5 % RH	
Humidity			ISO 12757-1 Aurora trading	
Writing test paper			9 meters/minute ± 3 seconds	
Paper feeding			50 mm/minutes	
Writing angle			70°C	
Paper weight			115 grams ± 5 grams	
Shelf life	Twice in 8 hours		Two years	
Physical parameters of components	5% of every lot while receiving	Vernier / Micrometer	Clip	
			Length	44.8 mm (± 0.10mm)
			Width	3.7 mm (± 0.05mm)
			Material	Carbon steel grade C55
Physical parameters of components	5% of every lot while receiving	Vernier / Micrometer	Complete ball pen	
			Total length	134.6 mm (± 0.20mm)
			Total weight	14.5 mm (± 0.5gm)

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