

Subject	Specifications
Project Name	National Automation Spares
Reference	Belting



Table of Contents

1 INTRODUCTION	1
2 PURPOSE.....	2
3 SPECIFICATIONS	3-11
4 DELIVERY LEAD TIME.....	11
5 SIGNATURES	11

1 INTRODUCTION

The South African Post Office sorting machines make use of different types of belting systems as part of mail volumes transportation that get processed on the final sorting machines in order to meet and maintain the delivery standards through the reduction of manual sortation.

2 PURPOSE OF THE DOCUMENT

The purpose is to document the specifications and appoint service provider/s for the supply of different types of belts for the letter Sorting Machine (LSM), and Integrated reader video (IRV) sorting machines

3 SPECIFICATIONS

3.1 BELT SPECIFICATIONS

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554) and unless stated otherwise the measurements are in millimetres

3.1.1 UU -15A Belt

Belt colour	Blue, green/black	
Thickness of belt	1.00 mm	0.04 inch
Mass of belt	1.20kg/m ²	0.24 lb/sqft
Elongation at 8%	2 N/mm	11 lbs./in
Min. operating temperature	-20 °C	-4 °F
Max. operating temperature	60 °C	140 °F

Quantities

Belt type	Belt dimensions	Quantity
UU15A	1375 x 25	2

3.1.2 UU20 Belt

Belt colour	Blue ,Green/Black	
Thickness of belt	1.30 mm	0.05 inch
Mass of belt	1.40kg/m ²	0.16 lb/sqft
Elongation at 1%	6 N/mm	34 lbs./in
Min. operating temperature	-20 °C	-4 °F
Max. operating temperature	100 °C	212 °F

Quantities

Belt type	Belt dimensions	Quantity
UU 20	35 X 2005	1
UU 20	35 X 2360	2
UU 20	50 X 1118	10
UU 20	50 X 1780	10

3.1.3 UU -60 Belt

Belt colour	Blue and black	
Thickness of belt	1.6 mm	0.04 inch
Mass of belt	1.65kg/m ²	0.24 lb/sqft
Elongation at fitting (from/to)	3-8	
Min. operating temperature	-20 °C	-4 °F
Max. operating temperature	60 °C	140 °F

Quantities

Belt type	Belt dimensions	Quantity
UU 60	20 X 602	2
UU 60	80 X 1520	3

3.1.4 TF -15 Belt

Belt colour	Black and Green	
Thickness of belt	2.0 mm	0.08 inch
Mass of belt	2.1 kg/m ²	0.430 lb/sqft
Tensile force for 1% elongation	86 lbf/in	86 lbf/in
Nominal peripheral force per unit of width	15 N/mm	86 lbf/in
Min. operating temperature	-20 °C	-4 °F
Max. operating temperature	65 °C	149 °F
Seamless manufacturing width	1200 mm	47.24 inch

Quantities

Belt type	Belt dimensions	Quantity
TF-15	25 X 635	10
TF-15	25 X 3864	3
TF-15	25 X 5250	2
TF-15	25 X 9410	2
TF-15	30 X 485	3
TF-15	30 X 1245	3

3.1.5 MAT- 02H Belt

Belt colour	Green and black	
Thickness of belt	1.40 mm	
Mass of belt	1.4kg/m ²	
Elongation at 8%	0.60N/mm	
Min. operating temperature	-20 °C	
Max. operating temperature	60 °C	

Quantities

Belt type	Belt dimensions	Quantity
MAT-02H O/E	35mm x 50 meters	1

3.1.6 Novo 25 HC Belt

Belt colour	GREY	
Thickness of belt	2.5 mm	
Mass of belt	1.3kg/m ²	
Elongation at 1%	7 N/mm	
Min. operating temperature	-10 °C	
Max. operating temperature	120 °C	

Quantities

Belt type	Belt dimensions	Quantity
Novo	30 x 1865	3

3.1.7 MAM-04H and/ TG3 Belt

Belt colour	Black and Green	
Thickness of belt	1.45 mm	0.06 inch
Mass of belt	1.4 kg/m ²	0.287 lb/sqft
Tensile force for 1% elongation	2.6 N/mm	15 lbf/in
Nominal peripheral force per unit of width	1.8 N/mm	10 lbf/in
Min. operating temperature	-20 °C	-4 °F
Max. operating temperature	60 °C	140 °F
Seamless manufacturing width	1200 mm	47 inch

Quantities

Belt type	Belt dimensions	Quantity
MAM-04H	35 x 753	10
MAM-04H	35 x 971	10
MAM-04H	35 x 980	3
MAM-04H	35 x 1258	5
MAM-04H	80 x 914	9
MAM-04H	138 x 1780	6
MAM-04H	180 x 760	2
MAM-04H	914 x 80	18
MAM-04H	80 x 940	4
MAM-04H	90 x 1882	4
MAM-04H	138 x 1780	4
MAM-04H	138 x 578	3
MAM-04H	138 x 980	4
MAM-04H O/E	35 mm x 100 meters	1
TG 3	35 x 2325	2

3.1.8 MAM- 5E Belt

Belt colour	Black and Green	
Thickness of belt	1.40 mm	0.06 inch
Mass of belt	1.5 kg/m ²	0.307 lb/sqft
Tensile force for 1% elongation	5.0 N/mm	29 lbf/in
Nominal peripheral force per unit of width	3.2 N/mm	18 lbf/in
Min. operating temperature	-20 °C	.-4 °F
Max. operating temperature	60 °C	140 °F
Seamless manufacturing width	1200 mm	47 inch

Quantities

Belt type	Belt dimensions	Quantity
MAM-5E	1790 x 35	2
MAM-5E	2796 x 35	2
MAM-5E	3729 x 35	3
MAM-5E	4870 x 35	2
MAM-5E O/E	35 mm x 100 meters	1

3.1.9 GG- 02 Belt

Belt colour	Grey	
Thickness of belt	1.50 mm	0.31 inch
Mass of belt	1.240kg/m ²	0.08 lb/sqft
Pretension	3.9	1 inch
Min. operating temperature	-20 °C	-4 °F
Max. operating temperature	100 °C	149 °F

Quantities

Belt type	Belt dimensions	Quantity
GG-02	35 x 1530	2
GG-02	35 x 2200	1
GG-02	35 x 4700	2
GG-02	35 x 6240	1
GG-02 O/E	35 mm x 100 meters	1

3.1.10 GG-3P and GG4 Belt

Belt colour	Grey	
Thickness of belt	1.4 mm	0.31 inch
Mass of belt	1.45kg/m ²	0.08 lb/sqft
Pretension	3.9	1 inch
Min. operating temperature	-20 °C	
Max. operating temperature	100 °C	

Quantities

Belt type	Belt dimensions	Quantity
GG3P	35 x 3100	1
GG4 O/E	35mm X 100 Meters	1

3.1.11 GG- 8 Belt

Belt colour	Green	
Thickness of belt	1.50 mm	0.31 inch
Mass of belt	1.62kg/m ²	0.08 lb/sqft
Pretension	3.9	1 inch
Min. operating temperature	-20 °C	
Max. operating temperature	100 °C	

Quantities

Belt type	Belt dimensions	Quantity
GG8E	35 x 1980	2
GG8E	35 x 3480	3
GG8E O/E	35mm x 100 meters	1

3.1.12 F1 Belt

Belt colour	Green	
Thickness of belt	1.40 mm	
Mass of belt	1.4kg/m ²	
Elongation at 8%	0.60N/mm	
Min. operating temperature	-15 °C	
Max. operating temperature	100 °C	

Quantities

Belt type	Belt dimensions	Quantity
F1 Suction belt	65 x 626	10

3.1.13 Round Polycord R-4 Belt

Belt colour	Green, Orange or blue	
Hardness	90 Shore A	
Tensile force for 8% elongation	32 N	7 lbf
Tensile force for 8% elongation after relaxation	24 N	5 lbf
Nominal peripheral force	41 N	9 lbf
Min. operating temperature admissible	-20 °C	-4 °F
Max. operating temperature admissible	50 °C	122 °F

Quantities

Belt type	Belt dimensions	Quantity
Round Polycord R-4 O/E	4mm x 100 meters	1

3.1.14 Round Polycord R-5 Belt

Belt colour	Green, Orange or blue	
Hardness	90 Shore A	
Tensile force for 8% elongation	51 N	11lbf
Tensile force for 8% elongation after relaxation	37 N	8 lbf
Nominal peripheral force	65 N	5 lbf
Min. operating temperature admissible	-20 °C	-4 °F
Max. operating temperature admissible	50 °C	122 °F

Quantities

Belt type	Belt dimensions	Quantity
Round Polycord R-5 O/E	5mm x 100 meters	1

3.1.15 Round Polycord R-6 Belt

Belt colour	Green, Orange or blue	
Hardness	90 Shore A	
Tensile force for 8% elongation	70 N	11lbf
Tensile force for 8% elongation after relaxation	50 N	8 lbf
Nominal peripheral force	89 N	5 lbf
Min. operating temperature admissible	-20 °C	-4 °F
Max. operating temperature admissible	50 °C	122 °F

Quantities

Belt type	Belt dimensions	Quantity
Round Polycord R-6 O/E	5mm x 50 meters	1

3.1.16 Timing Belts

Flexible Neoprene backing, fiberglass tensile cord

Quantities

Belt type	Belt dimensions	Quantity
Timing Belts	309-3M-15	10
Timing Belts	432-3m-9	10
Timing Belts	106-T10-20SE	10

3.1.17 Belt Joining adhesive fixol glue

Designated material	Adhesive for polyamide
Type	Liquid
Colour	Light broen to black
Odor	Alcoholic
Viscosity	Approx 105 mPas

Quantities

Two (2) x adhesive fixo glue 40g

4 Delivery Lead Time

The successful service provider should deliver required quantities in four week's time after receiving the purchase order. The bidder must provide confirmation letter on the bidder's letterhead confirming that they will meet the lead time.