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**SORTING
TECHNOLOGIES
EXPERT**

Proposal #3425015-0



**Lexington Fayette Urban
County Government**

**RFP#7-2025 Optical Sorter &
Robotics Sorting Equipment
for MRF**

TABLE OF CONTENTS

1. INTRODUCTION	4
2. EXECUTIVE SUMMARY	5
3. BID FORMS AND ADDENDA	7
4. BID BOND	8
5. NARRATIVE DESCRIPTION	9
6. FLOW DIAGRAM	13
7. EQUIPMENT LIST	14
8. EQUIPMENT DESCRIPTION	15
8.1 GENERAL DESIGN INFORMATION	15
8.2 MACH HYSPEC® OPTICAL SORTER	16
8.3 MACHINEX SAMURAI® ROBOT	18
8.4 MACHINEX ORMZ	19
8.5 SLIDER BED / SLIDER ROLLER CONVEYOR – TYPE CSRT	20
8.6 SLIDER BED / SLIDER ROLLER CONVEYOR – TYPE CSR4	21
8.7 SPEED BELT CONVEYOR	22
8.8 SLIDER BED CONVEYOR – TYPE CC8	23
8.9 SLIDER BED CONVEYOR – TYPE CC6	24
9. ELECTRICAL INFORMATION	25
9.1 OPERATIONS PHILOSOPHY	25
9.2 INFO SWITCH GEAR	26
10. COMMODITY SPECIFICATIONS / PERFORMANCE GUARANTEES	27
10.1 OPTICAL SORTER PERFORMANCE GENERAL ASSUMPTIONS	28
11. PROJECT TIMELINE	29
11.1 PRELIMINARY PROJECT SCHEDULE	29

11.2	PRELIMINARY INSTALLATION SCHEDULE.....	30
11.3	SCHEDULE RATIONALE SECTION.....	31
12.	PROJECT MANAGEMENT & KEY INDIVIDUALS	32
12.1	PROJECT MANAGEMENT PROCESS.....	32
12.2	KEY INDIVIDUALS	47
12.3	EVIDENCE OF STAFF CAPACITY AND SUBCONTRACTING INVOLVEMENT	53
13.	COST PROJECTIONS	55
14.	PRELIMINARY EMERGENCY SPARE PARTS LIST	56
15.	EXPERIENCE & QUALIFICATIONS	57
16.	AFFIRM	59
17.	REFERENCES	60
18.	LIMITED SCOPE OF SUPPLY	61
19.	CLARIFICATIONS	67
19.1	ADMINISTRATIVE CLARIFICATIONS	67
20.	TERMS AND CONDITIONS OF SALE.....	68
21.	SIGNATURES.....	71
 APPENDICES		
	APPENDIX A - LAYOUT.....	72

1. INTRODUCTION

5/16/2025

Director, Division of Procurement
Lexington Fayette Urban County Government
200 East Main Street, 3rd Floor
Lexington, Kentucky
40507

SUBJECT: RFP#7-2025 Optical Sorter & Robotics Sorting Equipment for MRF

We are pleased to submit our Proposal # 3425015-0 for your project featuring Machinex Technologies Inc. equipment.

More than 40 years ago, Machinex Technologies Inc. became the first company in Canada to design machinery for material recycling facilities. The company immediately established itself as a leader in designing profitable quality recycling sorting systems.

Today, Machinex Technologies Inc. is still a world leader in industry, developing cutting-edge sorting, waste management and recycling technology. Over the years, our expert staff have designed and installed turnkey projects in partnership with leading MRF operators in Canada, the United States, Oceania and Northern Europe.

More specifically for this project, Machinex Technologies Inc. has dedicated a tremendous amount of its engineering time and effort to offer the best solution at the best quality/price ratio for the industry and this based on the drawing MR-2444A-1 REV.4. Our technical solution includes numerous significant features which we believe deserve to be highlighted.

We hope that you will find that this proposal meets your requirements. If you have any comments or questions whatsoever, please do not hesitate to contact us.

Sincerely,

Machinex Technologies Inc.



Brad Goins
Sales Project Director

Machinex Technologies Inc.



Rusty Angel
Eastern Region Sales Manager

INDUSTRIES MACHINEX INC.

MEETING OF THE BOARD OF DIRECTORS

HELD AT THE HEAD OFFICE IN PLESSISVILLE, QUEBEC, CANADA

DATE: April 24th, 2025

1. SIGNATURE AUTHORIZATION

Whereas the Company is submitting a proposal for the Lexington Fayette Urban County Optical Sorter & Robotics Sorting Equipment for MRF located at 360 Thompson Rd, Lexington, KY 40508 to:

Director of Purchasing
Lexington Fayette Urban County Government
200 East Main Street, 3rd Floor
Lexington, Kentucky
40507

IT IS RESOLVED

THAT Mr. Brad Goins, Sales Project Director, and Mr. Rusty Angel, Eastern Region Sales Manager, are authorized to sign the said Proposal, for and in the name of the Company, as well as any other document required to give full effect to the present resolution.

2. VALIDITY

I undersigned, declare to be the Secretary of the Company Board and to be one of the persons authorized to vote in the meeting of the directors of the Company. Consequently, the resolution above mentioned, signed by me, has the same value as if it has been adopted in a meeting of the board, as provided by the Companies Act.

RESOLVED AND SIGNED in Plessisville, on April 24th, 2025



Mr. Pierre Paré

President and Secretary

2. EXECUTIVE SUMMARY

As requested within RFP Package 7-2025, Machinex Technologies Inc. developed this proposal which includes a MACH Hyspec® Optical Sorter for recovery HDPE and PP to further automate the container sorting process. In addition, a MACH Optima Robotic Sorter has been included for the final container sorting line that runs in front of the container bunkers.

The proposed design should provide benefits for Lexington-Fayette in the following areas:

- Increase recovery using fewer manual sorters for HDPE & PP Plastics.
- Adding a new Optima Robot to target missed HDPE & PET left on the “last chance line” to further enhance recovery.
 - Optima Robot will require less floor space than our SamurAI® robot,
 - Reduced maintenance & cleaning from older designs,
- Additional automated storage bunker for UBC containers (PP will use existing UBC Bunker).
- Seamless controls integration with existing control panels since Machinex is the current provider.
- Common spare parts with existing equipment.
- Common service personnel with existing equipment for troubleshooting, calibration, etc.
- Simplified Preventive Maintenance visits handled with a single company.
- Walk-in maintenance package on the MACH Hyspec® optical sorter like on your existing Machinex optics.
- Based on our experience with past projects, if Lexington purchases this upgrade from another supplier, that supplier would need to contract with Machinex for the integration on the controls side. **Those fees could range in the \$50,000 to \$100,000 range and would include project management and programming as needed.**

In addition to adding the MACH Hyspec® Optical sorter for HDPE & PP, the unit can also be equipped with an object recognition module (ORM) which will help to better identify items within the recycling stream. This addition will use A.I. and work with the Hyspec® Optical Sorter to provide a cleaner ejected fraction for the facility.

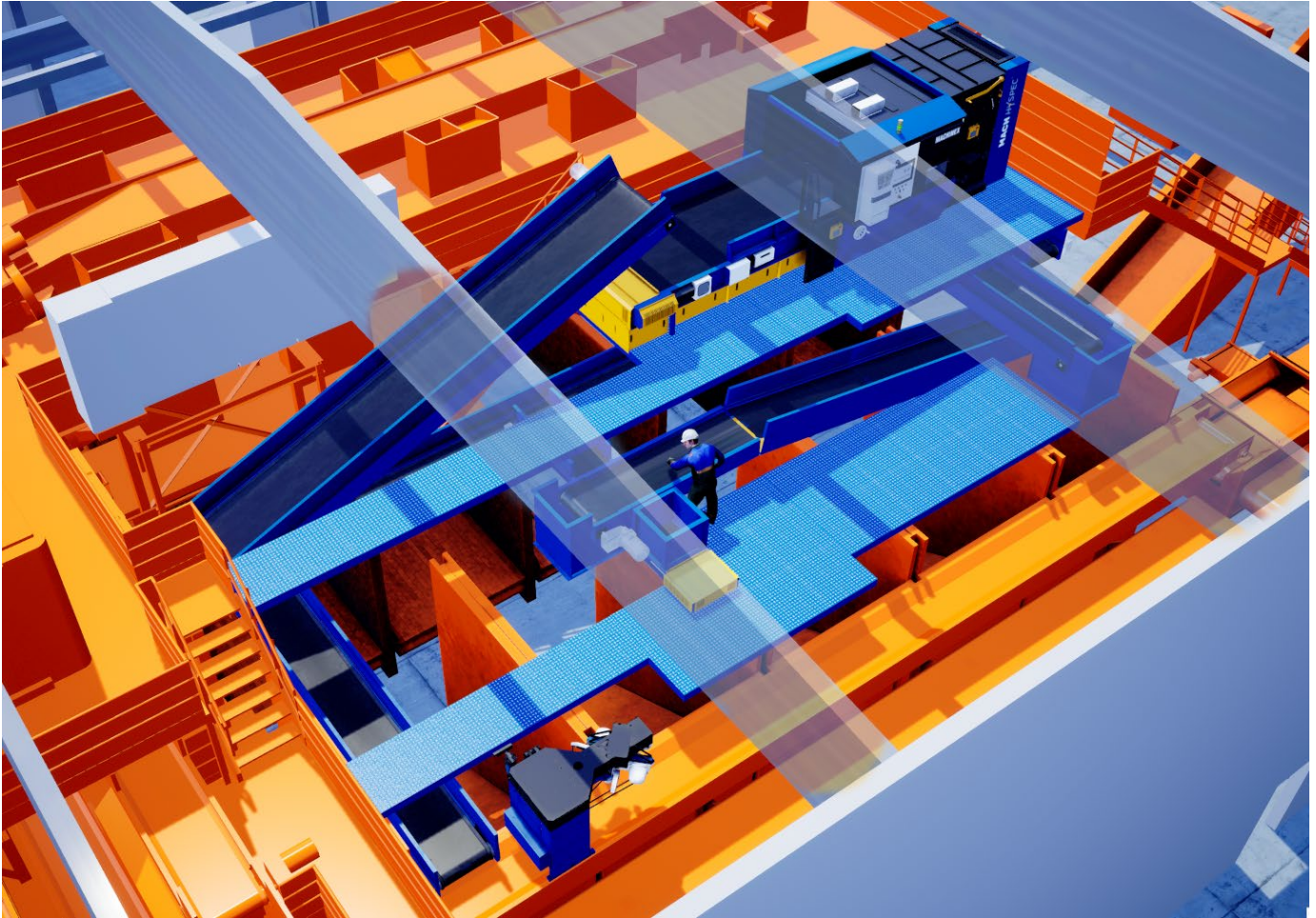
Common Manufacturer & Benefits

Machinex has had a long-standing relationship with Lexington-Fayette dating back to 2010 during the facility’s original upgrade along with the most recent upgrade in 2021. Machinex values the customer relationship that has been built over the last 15+ years and will continue to be a great partner in the future.

With that said, the goal for Machinex is to provide Lexington-Fayette with a turnkey solution which will not only be cutting-edge technology but also offer the significant benefit of providing the same equipment your staff is used to operating and maintaining. Using the same manufacturer will ease the integration, operation, and maintenance for the life of the processing equipment. This can mean common parts with existing equipment, single contact for services and technical support, along with numerous benefits for facility operations.

Machinex will work with Lexington-Fayette to help provide any documentation needed to help the county through the BABA process. We have helped other customers work through this process and feel confident that it would be in the best interest of Lexington-Fayette as Machinex is the current processing equipment within the facility.

Proposed System Layout Upgrade



3. BID FORMS AND ADDENDA

Please find in the following pages, the proposal forms in the order listed below followed by the addenda acknowledgments.

- Form A – Reference Worksheet
- Form B – Pricing Worksheet
- Affidavit
- Equal Opportunity Agreement
- Minority Business Enterprise Program
- Addendum #1 acknowledgement
- Addendum #2 acknowledgement

Form A

Reference Worksheet

The following is a list of similar projects performed by the Bidder, along with contact information. (Must include name and phone number of reference.)

PROJECT NAME CONTRACT SUM REFERENCE INFO (NAME/PHONE)

PROJECT NAME	CONTRACT SUM	REFERENCE INFO	SUMMARY OF WORK PERFORMED
City of St. Peters, MRF Upgrade	\$8.6M USD	Mr. Elliot Schneider Tel : 636-477-6600 eshneider@stpetersmo.net	New 8 TPH MRF
Recycle Ann Arbor, MRF Upgrade	\$0.4M USD	Mr. Bryan Ukena Tel : 734-662-6288 bryanukena@recycleannarbor.org	Addition of a SamurAI® Robot Sorter
Republic Services, King of Prussia MRF Upgrade	\$3.9M USD	Charles Noble Tel: 504-628-7651 cnoble2@republicservices.com	Addition of two (2) MACH HySpec® Optical Sorters and Three (3) MACH Motion Floor®

ATTACH SEPARATE SHEET IF NECESSARY

Please see the following pages for more information on our project references

Recycle Ann Arbor, Ann Arbor, MI

Contact: Bryan Ukena

Tel: 734-662-6288

bryanukena@recycleannarbor.org

M

Material Recovery Facility Upgrade

Drum Feeder

(2) MACH OCC Screen dual deck

MACH Scalping Screen

(2) MACH Ballistic Separators (primary & finishing)

Machinex SamurAI® Robot single arm (2022)

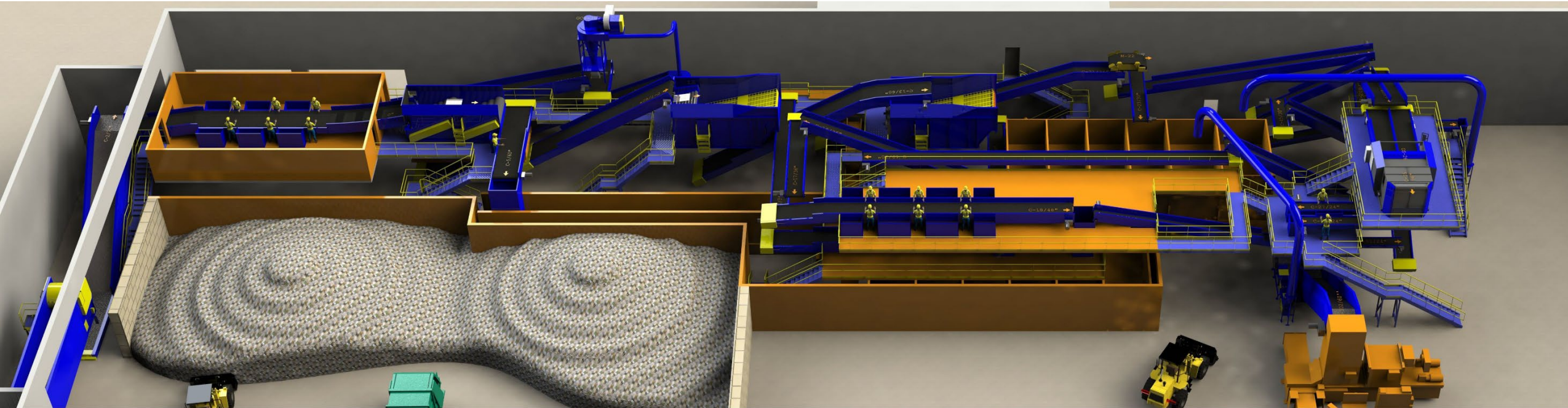
Magnet

MACH Hyspec® optical sorters

- Ejecting PET and fiber

Eddy Current

Glass Cleaning System



Completed in October 2021 with upgrade in 2022

Performance 18-20 TPH of Single Stream

Upgrade (2024)

- (2) MACH Hyspec® Optical Sorter
 - (2) Cleaning paper
- (3) MACH Motion Floor®

Upgrade (2019)

- MACH Scalping Screen (4"minus)
- (2) MACH Ballistic Separators

Material Recovery Facility (2008)

- (2) MACH OCC Screens double deck
- MACH Combo Screen
- (2) MACH News Screens
- MACH Finishing Combo Screen
- (4) Optical Sorters



Upgrades completed in 2019 & 2024
Base contract in 2008

Performance

40 TPH of Single Stream & Commercial

Material Recovery Facility Upgrade

Drum Feeder

MACH OCC Screen double deck

MACH Fines Screen double deck

Glass Cleanup System

MACH Ballistic Separator

MACH Hyspec[®] Optical Sorter

- Dual Channel

Magnet

MACH Eddy Current Separator

(3) MACH Motion Floor[®]



In Progress: Start up June 2025

Performance

8 TPH of Single stream

Form B

Pricing Worksheet

Item No.	Description w/Unit Bid Price Written in Words	Unit	Total Bid Amount **
1.	Dual-Eject Optical Sorter and associated equipment (e.g. transfer conveyors, platforms, supports, any modification to the air blowing units if required, compressor piping upgrades if required, chutes, safety guarding, electrical wiring and control systems, cages, etc.)		\$ 1,455,099.00
2.	Robot and associated equipment		\$ 261,355.00
3.	Freight to the site, loading and unloading equipment, system installation, commissioning and start-up support.		INCLUDED
4.	Post Installation MRF Staff Training Machinex will provide equipment staff training along with equipment start-up for two (2) weeks.		INCLUDED
5.	Initial supply of Spare Parts See Note Below		EXCLUDED
6.	One (1) year parts and service warranty See Section 20. Terms and Conditions of Sale for more details		INCLUDED
7.	Other required items not listed above ORM Upgrade for HD/PP Optical Sorter (AI Module)		\$187,055.00
8.	Optical Sorter Speed Belt Auto-Tracking Package		\$11,165.00

Taxes are not included in any of the given price

Prices are valid for standard Machinex Technologies Inc. colors: Blue RAL5010 and safety yellow RAL1037

Other colors are available at a competitive price

The main package pricing (Dual-Eject Optical Sorter) includes the mobilization of the installation crews for all the work needing to be completed for the optic & robot. If the county elects to go with just the robot package, the package price will need to be adjusted.

A list of emergency spare parts is attached to this proposal. Many of these parts are the same as currently used on other Machinex equipment within the MRF. If selected, Machinex will work with the county to identify items that may currently be in stock at the county Facility.

Due to the current volatile nature of international trade, tariffs have been included in the pricing provided here. If we receive clarity on that situation prior to award and/or prior to shipment of equipment, there could be some slight price reductions for LFUCG. Tariffs are not calculated as 25% of the total project because soft costs (engineering, freight, installation, electrical wiring, etc.) are not subject to tariffs.

ALTERNATE: LFUCG recognizes that technology for sorting recyclables is rapidly evolving, and the original equipment envisioned may no longer be practical, efficient, cost-effective, and/or appropriate based on current knowledge.

LFUCG invites Offerors to provide alternate equipment that meets the Project Goals outlined in Part III. The Alternate must include all necessary ancillary equipment, including all delivery, removals, equipment installation, etc. and be outlined in this submission. NOTE: Please include general arrangement drawings, project timelines, etc. along with this Alternate submission.

Item No.	Description w/Unit Bid Price Written in Words	Unit	Total Bid Amount
A1.	N/A		\$
A2.			\$
A3.			\$
A4.			\$
A5.			\$
A6.			\$

TOTAL OF ALL BID PRICES FOR Project (Items 1 through 7) in words and figures. In case of discrepancy, the amount shown in words will govern.

One Million Nine Hundred Fourteen Thousand Six Hundred Seventy-Four Dollars (\$ 1,914,674.00).

TOTAL OF ALL BID PRICES FOR Alternate (Items A1 through A6) in words and figures. In case of discrepancy, the amount shown in words will govern.

Not Applicable (\$ N/A).

AFFIDAVIT

Comes the Affiant, Mr. Rusty Angel, and after being first duly sworn, states under penalty of perjury as follows:

1. His/her name is Mr. Rusty Angel and he/she is the individual submitting the proposal or is the authorized representative of Machinex Technologies Inc., the entity submitting the proposal (hereinafter referred to as "Proposer").

2. Proposer will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the proposal is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Proposer will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Proposer has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Proposer has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Proposer will not violate any provision of the campaign finance laws of the Commonwealth.

6. Proposer has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

Continued on next page

7. Proposer acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

Rusty Angel

STATE OF NC

COUNTY OF Guilford

The foregoing instrument was subscribed, sworn to and acknowledged before me
by Mr. Rusty Angel on this the 5th day
of May, 2025.

My Commission expires: March 19th 2027

Jasmin Daigle
NOTARY PUBLIC, STATE AT LARGE

Commissaire à l'assermentation pour le
Québec et pour l'extérieur du Québec

Jasmin Daigle #244737

Commissioner for Oaths for the province of
Québec and for outside of Québec

EQUAL OPPORTUNITY AGREEMENT

Standard Title VI Assurance

The Lexington Fayette-Urban County Government, (hereinafter referred to as the "Recipient") hereby agrees that as a condition to receiving any Federal financial assistance from the U.S. Department of Transportation, it will comply with Title VI of the Civil Rights Act of 1964, 78Stat.252, 42 U.S.C. 2000d-4 (hereinafter referred to as the "Act"), and all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, (49 CFR, Part 21) Nondiscrimination in Federally Assisted Program of the Department of Transportation – Effectuation of Title VI of the Civil Rights Act of 1964 (hereinafter referred to as the "Regulations") and other pertinent directives, no person in the United States shall, on the grounds of race, color, national origin, sex, age (over 40), religion, sexual orientation, gender identity, veteran status, or disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Recipient receives Federal financial assistance from the U.S. Department of Transportation, including the Federal Highway Administration, and hereby gives assurance that will promptly take any necessary measures to effectuate this agreement. This assurance is required by subsection 21.7(a) (1) of the Regulations.

The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

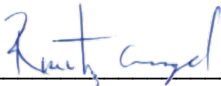
The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination

in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.



Signature

Machinex Technologies Inc.

Name of Business

WORKFORCE ANALYSIS FORM

Name of Organization: Machinex Technologies Inc.

Categories	Total	White (Not Hispanic or Latino)		Hispanic or Latino		Black or African-American (Not Hispanic or Latino)		Native Hawaiian and Other Pacific Islander (Not Hispanic or Latino)		Asian (Not Hispanic or Latino)		American Indian or Alaskan Native (not Hispanic or Latino)		Two or more races (Not Hispanic or Latino)		Total	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Administrators	1	1														1	
Professionals	77	66	7	2		1	1									69	8
Superintendents	10	10														10	
Supervisors	38	33	5													33	5
Foremen	10	10														10	
Technicians	146	114	1	26	1	4										144	2
Protective Service	51	48	2			1										49	2
Para-Professionals	79	71	5	1		2										74	5
Office/Clerical	51	8	41		1		1									8	43
Skilled Craft	53	35	13			2	3									37	16
Service/Maintenance	36	36														36	
Total:	552	432	74	29	2	10	5									471	81

Prepared by: Florence Gill, HR Advisor Date: 05 / 02 / 2025

(Name and Title)

Revised 2015-Dec-15

**DIRECTOR, DIVISION OF PROCUREMENT
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
200 EAST MAIN STREET
LEXINGTON, KENTUCKY 40507**

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL
EMPLOYMENT OPPORTUNITIES AND DBE CONTRACT PARTICIPATION**

The Lexington-Fayette Urban County Government has a Certified Minority and Women Business Enterprise seventeen percent (17%) minimum goal including minimum subgoals of five percent (5%) for Minority Business Enterprises (MBE) and a subgoal of twelve percent (12%) for Women Business Enterprises (WBE); a three (3%) minimum goal for Certified Veteran-Owned Small Businesses and/or Certified Service- Disabled Veteran Owned Businesses; and a goal of utilizing Disadvantaged Business Enterprises (DBE), where applicable, for government contracts.

For assistance in locating certified DBEs, MBEs, WBEs, VOSBs and/or VOSBs, contact Sherita Miller at 859/258-3320 or by writing the address listed below:

Sherita Miller, MPA, CPSD
Minority Business Enterprise Liaison
Division of Procurement
Lexington-Fayette Urban County Government
200 East Main Street
Lexington, Kentucky 40507
smiller@lexingtonky.gov
859-258-3323

Firm Submitting Proposal: Machinex Technologies Inc.

Complete Address: 716 Gallimore Dairy Road, Suite 103, High Point, NC, 27265
Street City Zip

Contact Name: Mr. Rusty Angel Title: Eastern Region Sales Manager

Telephone Number: (336) 558-6860 Fax Number: 819-362-2280

Email address: rangel@machinextechnologies.com



LEXINGTON

MINORITY BUSINESS ENTERPRISE PROGRAM

Sherita Miller, MPA, CPSD
Minority Business Enterprise Liaison
Division of Procurement
Lexington-Fayette Urban County Government
200 East Main Street
Lexington, KY 40507
smiller@lexingtonky.gov
859-258-3323

OUR MISSION: The mission of the Minority Business Enterprise Program (MBEP) is to facilitate the full participation of minority and women owned businesses in the procurement process and to promote economic inclusion as a business imperative essential to the long- term economic viability of Lexington-Fayette Urban County Government.

To that end the urban county council adopted and implemented Resolution 272-2024 – a Certified Minority and Women Business Enterprise seventeen percent (17%) minimum goal including minimum subgoals of five percent (5%) for Minority Business Enterprises (MBE) and a subgoal of twelve percent (12%) for Women Business Enterprises (WBE); a three (3%) minimum goal for Certified Veteran-Owned Small Businesses and/or Certified Service- Disabled Veteran Owned Businesses; and a goal of utilizing Disadvantaged Business Enterprises (DBE), where applicable, for government contracts.

The resolution states the following definitions shall be used for the purposes of reaching these goals:

Certified Disadvantaged Business Enterprise (DBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a person(s) who is socially and economically disadvantaged as define by 49 CFR subpart 26.

Certified Minority Business Enterprise (MBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by an ethnic minority (i.e. Black American, Asian American, Hispanic American, Native American)

Certified Women Business Enterprise (WBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a woman.

Certified Veteran-Owned Small Business (VOSB) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a veteran who served on active duty with the U.S. Army, Air Force, Navy, Marines or Coast Guard.

Certified Service -Disabled Veteran Owned Small Business (SDVOSB) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a disabled veteran who served on active duty with the U.S. Army, Air Force, Navy, Marines or Coast Guard.

The term “Certified” shall mean the business is appropriately certified, licensed, verified, or validated by an organization or entity recognized by the Division of Procurement as having the appropriate credentials to make a determination as to the status of the business.

The following certifications are recognized and accepted by the MBEP:

Kentucky Transportation Cabinet (KYTC), Disadvantaged Business Enterprise (DBE)

Kentucky Minority and Women Business Enterprise (MWBE)

Women’s Business Enterprise National Council (WBENC)

National Women Business Owners Corporation (NWBOC)

National Minority Supplier Development Council (NMSDC)

Tri-State Minority Supplier Development Council (TSMSSDC)

U.S. Small Business Administration Veteran Small Business Certification (VetCert)

Kentucky Service- Disabled Veteran Owned Small Business (SDVOSB)

To comply with Resolution 272-2024, prime contractors, minority and women business enterprises, veteran owned small businesses, and service-disabled veteran owned small businesses must complete monthly contract compliance audits in the Diverse Business Management Compliance system, <https://lexingtonky.diversitycompliance.com/>

A list of organizations that certify and/or maintain lists of certified businesses (i.e. DBE, MBE, WBE, VOSB and/or SDVOSB) is available upon request by emailing, Sherita Miller, smiller@lexingtonky.gov.



LEXINGTON

LFUCG MWDBE PARTICIPATION FORM

Bid/RFP/Quote Reference # 7-2025

The MWDBE and/or veteran subcontractors listed have agreed to participate on this Bid/RFP/Quote. If any substitution is made or the total value of the work is changed prior to or after the job is in progress, it is understood that those substitutions must be submitted to the Division of Procurement for approval immediately. **Failure to submit a completed form may cause rejection of the bid.**

MWBE Company, Name, Address, Phone, Email	DBE/MBE WBE/VOSB/SDVOSB	Work to be Performed	Total Dollar Value of the Work	% Value of Total Contract
1. None	N/A	N/A	N/A	N/A
Please See the Clarifications Section for Details				
2.				
3.				
4.				

The undersigned company representative submits the above list of MDWBE and veteran firms to be used in accomplishing the work contained in this Bid/RFP/Quote. Any misrepresentation may result in the termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Machinex Technologies Inc.

Company

05/16/2025

Date

Mr. Rusty Angel

Company Representative

Eastern Region Sales Manager

Title



LEXINGTON

LFUCG MWDBE SUBSTITUTION FORM Bid/RFP/Quote Reference #7-2025

The substituted MWDBE and/or veteran subcontractors listed below have agreed to participate on this Bid/RFP/Quote. These substitutions were made prior to or after the job was in progress. These substitutions were made for reasons stated below and are now being submitted to the Division of Procurement for approval. By the authorized signature of a representative of our company, we understand that this information will be entered into our file for this project. **Note: Form required if a subcontractor is being substituted on a contract.**

SUBSTITUTED DBE/MBE/WBE/VOSB Company Name, Address, Phone, Email	DBE/MBE/WBE/VOSB/SDVOSB Formally Contracted/ Name, Address, Phone, Email	Work to Be Performed	Reason for the Substitution	Total Dollar Value of the Work	% Value of Total Contract
1. None	N/A	N/A	N/A	N/A	N/A
Please See the Clarifications Section for Details					
2.					
3.					
4.					

The undersigned acknowledges that any misrepresentation may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Machinex Technologies Inc.

Company

05/16/2025

Date

Mr. Rusty Angel 

Company Representative

Eastern Region Sales Manager

Title



LEXINGTON

DOCUMENTATION REQUIRED FOR GOOD FAITH EFFORTS AND OUTREACH PLANS

As affirmed in Resolution Number 272-2024, the Urban County Council has adopted an annual aspirational goal of utilizing at least seventeen percent (17%) of public funds spend from certain discretionary agreements with certified Minority Business Enterprises (MBEs) and certified Woman Business Enterprises (WBEs); utilizing at least three percent (3%) of public funds from certain discretionary agreements with Certified Veteran-Owned Small Business and Certified Service-Disabled Veteran-Owned Small Businesses (VOSBs); and utilizing Disadvantaged Business Enterprises (DBEs) where applicable. Bidders should make every effort to achieve these goals.

Therefore, as an element of the responsiveness of the bid, all Bidders are required to submit documentation of their good faith and outreach efforts to ensure all businesses, including small and disadvantaged businesses such as minority-, woman-, and veteran-owned businesses, have an equal opportunity to compete for and participate in the performance of any subcontracts resulting from this procurement. Examples of good faith and outreach efforts that satisfy this requirement to encourage the participation of, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs include:

1. Advertised opportunities to participate in the contract in at least two (2) publications of general circulation media; trade and professional association publications; small and minority business or trade publications; and publications or trades targeting minority, women, and disadvantaged businesses not less than fifteen (15) days prior to the deadline for submission of bids to allow, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs to participate.
2. Attended LFUCG Procurement Economic Inclusion Outreach event(s) within the past year to meet new small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs to partner with on LFUCG contracts and procurements.
3. Attended pre-bid/pre-proposal meetings that were scheduled by LFUCG to inform small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs of subcontracting opportunities.
4. Sponsored Economic Inclusion event to provide networking opportunities for prime contractors and small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs.
5. Requested a list of certified small, DBE, MBE, WBE, VOSB and/or SDVOSB subcontractors or suppliers from LFUCG and showed evidence of contacting the companies on the list(s).
6. Contacted organizations that work with small, DBE, MBE, WBE, and VOSB companies for assistance in finding certified DBEs, MBEs, WBEs, VOSB and/or SDVOSBs to work

on this project. Those contacted and their responses must be a part of the bidder's outreach efforts documentation.

7. Sent written notices, by certified mail, email, or facsimile, to qualified, certified small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs soliciting their participation in the contract not less than seven (7) days prior to the deadline for submission of bids to allow them to participate effectively.
8. Followed up initial solicitations by contacting small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs via tailored communications to determine their level of interest.
9. Provided the interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs with adequate and timely information about the plans, specifications, and requirements of the contract.
10. Selected portions of the work to be performed by small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs in order to increase the likelihood of subcontracting participation. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate small, DBE, MBE, WBE, VOSB and/or SDVOSB participation, even when the prime contractor may otherwise perform these work items with its own workforce.
11. Negotiated in good faith with interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs, not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection must be so noted in writing with a description as to why an agreement could not be reached.
12. Included documentation of quotations received from interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs that were not used due to uncompetitive pricing or were rejected as unacceptable and/or copies of responses from firms indicating that they would not be submitting a bid.
 - a. Bidder has to submit sound reasons why the quotations were considered unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a small business', DBE's MBE's, WBE's, VOSB's and/or SDVOSB's quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy the participation goals.
13. Made an effort to offer assistance to or refer interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs to obtain the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal.

14. Made efforts to expand the search for small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs beyond the usual geographic boundaries.
15. Other – any other evidence that the bidder submits that may demonstrate that the bidder has made reasonable efforts to include small, DBE, MBE, WBE, VOSB and/or SDVOSB participation.

Bidder must document, with specificity, each of the efforts it made to include small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs as subcontractors in the procurement, including the date on which each effort was made, the medium through which each effort was made, and the outcome of each effort.

Note: Failure to submit the documentation requested in this section may be cause for rejection of bid. Bidders may include any other documentation deemed relevant to this requirement which is subject to review by the MBE Liaison. Documentation of Good Faith and Outreach Efforts must be submitted with the Bid, regardless of the proposed level of small, DBE, MBE, WBE, VOSB and/or SDVOSB participation in the procurement. If the Good Faith and Outreach Effort documentation is not submitted with the bid response, the bid may be rejected.

OUTREACH EFFORTS EVALUATION

Outreach efforts demonstrated by the bidder or respondent will be evaluated on a pass/fail basis.

ATTACHMENT A – SMALL AND DISADVANTAGED, MINORITY-, WOMEN-, AND VETERAN-OWNED BUSINESS OUTREACH PLAN

Proposer Name: Machinex Technologies Inc. **Date:** 05/16/2025
Project Name: Optical Sorter and Robotics Sorting Equipment for Materials Recovery Facility **Project Number:** RFP #7-2025
Contact Name: Mr. Rusty Angel **Telephone:** (336) 558-6860
Email: rangel@machinextechnologies.com

The mission of the Minority Business Enterprise Program is to facilitate the full participation of disadvantaged businesses, minority-, women-, veteran-, and service-disabled veteran-owned businesses in the procurement process and to promote economic inclusion as a business imperative essential to the long-term economic viability of Lexington-Fayette Urban County Government.

To that end, small and disadvantaged businesses, including minority-, woman-, veteran-, and service-disabled veteran-owned businesses, must have an equal opportunity to be utilized in the performance of contracts with public funds spent from certain discretionary agreements. By submitting its offer, Bidder/Proposer certifies that it has taken, and if there are further opportunities will take, reasonable steps to ensure that small and disadvantaged businesses, including minority-, woman-, veteran-, and service-disabled veteran-owned businesses, are provided an equal opportunity to compete for and participate in the performance of any subcontracts resulting from this procurement.

The information submitted in response to this clause will not be considered in any scored evaluation. Failure to submit this form may cause the bid or proposal to be rejected.

Is the Bidder/ Proposer a certified firm? Yes No

If yes, indicate all certification type(s):

DBE MBE WBE SBE VOSB/SDVOSB

and supply a copy of the certificate and/or certification letter if not currently listed on the city's Minority Business Enterprise Program's (MBEP) certified list.

1. Include a list of firms that Bidder/ Proposer has had a contractual relationship with within the last two years that are minority-owned, woman-owned, veteran-owned or small businesses, regardless of their certification status.

2. Does Bidder/Proposer foresee any subcontracting opportunities for this procurement?

Yes No

If no, please explain why in the field below. Do not complete the rest of this form and submit this first page with your bid and/or proposal. (Click or tap here to enter text.)

If yes, please complete the following pages and submit all pages with your bid and/or proposal.

Describe the steps Bidder/Proposer took to solicit small and disadvantaged businesses, including MBEs, WBEs, VOSBs, and SDVOSBs, for subcontracting opportunities for this procurement.

3. Check the good faith and outreach efforts the Bidder/Proposer used to encourage the participation of small and disadvantaged businesses including, MBEs, WBEs, VOSBs and SDVOSBs:

- Bidder placed advertisements in search of prospective small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs for the solicitation.
- Bidder attended LFUCG Procurement Economic Inclusion Outreach event(s) within the past year.
- Bidder attended pre-bid and/or pre-proposal meetings for this solicitation.
- Bidder sponsored an Economic Inclusion Outreach event.
- Bidder requested a list of certified small, DBE, MBE, WBE, VOSB and/or SDVOSB subcontractors or suppliers from LFUCG.
- Bidder contacted organizations that work with small, DBE, MBE, WBE, VOSB and/or SDVOSB companies.
- Bidder sent written notices to certified small, DBE, MBE, WBE, VOSB and SDVOSB businesses.
- Bidder followed up to initial solicitations with interested small, DBE, MBE, WBE, VOSB and/or SDVOSB.
- Bidder provided small, DBE, MBE, WBE, VOSB and/or SDVOSB businesses interested in performing the solicited work with prompt access to the plans, specifications, scope of work, and requirements of the solicitation.
- Bidder made efforts to segment portions of the work to be performed by small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs, including dividing sub-bid/partnership opportunities into economically feasible units/parcels, to facilitate participation.

- Bidder negotiated in good faith with interested small, DBE, MBE, WBE, VOSB and/or SDVOSB businesses.
- Bidder provided adequate rationale for rejecting any small business', DBEs, MBEs, WBEs, VOSBs or SDVOSBs for lack of qualifications.
- Bidder offered assistance in obtaining bonding, insurance, financial, equipment, or other resources to small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs, in an effort to assist them in meeting project requirements.
- Bidder made efforts to expand the search for small businesses, DBEs MBEs, WBEs, VOSBs and/or SDVOSBs beyond the usual geographic boundaries.
- Bidder made other reasonable efforts to include small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs participation.

4. Bidder/Proposer must include documentation, including the date each effort was made, the medium through which each effort was made, and the outcome of each effort with this form, regardless of the level of small, DBE, MBE, WBE, VOSB and/or SDVOSB participation. Examples of required documentation include copies of email communications, copies of newspaper advertisements, or copies of quotations received from interested small businesses, DBEs, MBEs, WBEs, VOSBs or SDVOSBs.

If awarded, Machinex Technologies Inc. will make the required efforts to solicit business from such subcontractors.

For detailed information regarding outreach efforts that satisfy the MBE Program's requirements, please see "Documentation Required for Good Faith Efforts and Outreach Plans" page.

Note: The Bidder/Proposer must be willing to report the identity of each subcontractor and the value of each subcontract to MBEP if awarded a contract from this procurement.

Failure to submit the documentation requested may be cause for rejection of the bid. Bidders may include any other documentation deemed relevant to this requirement, which is subject to review by the MBE Liaison. Documentation of Good Faith and Outreach Efforts must be submitted with the bid, regardless of the proposed level of SBEs, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs participation in the procurement. If the Good Faith and Outreach Effort Form and associated documentation is not submitted with the bid response, the bid may be rejected.

The undersigned acknowledges that all information is accurate. Any misrepresentations may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and claims.

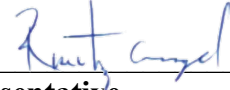
Machinex Technologies Inc.

Company

05/16/2025

Date

Mr. Rusty Angel



Company Representative

Eastern Region Sales Manager

Title



ADDENDUM #1

RFP Number: #7-2025

Date: April 15, 2025

Subject: Optical Sorter and Robotics Sorting Equipment for
Materials Recovery Facility

Address inquiries to:
Sondra Stone
(859) 258-3320
sstone@lexingtonky.gov

TO ALL PROSPECTIVE SUBMITTERS:

Please be advised of the following clarifications to the above referenced RFP:

1. See attached pre-proposal sign-in sheet.
2. See attached Form B Pricing Worksheet.
3. Regarding the two links on page 79 of the RFP:
 - a. The first link works, you just need to type BABA into the search box.
 - b. See attached for information provided in the second link.

Todd Slatin, Director
Division of Central Purchasing

All other terms and conditions of the RFP and specifications are unchanged. This letter should be signed, attached to and become a part of your submittal.

COMPANY NAME: Machinex Technologies Inc.

ADDRESS: 716 Gallimore Dairy Road, Suite 103, High Point, NC, 27265 USA

SIGNATURE OF BIDDER: 



MAYOR LINDA GORTON



LEXINGTON

TODD SLATIN
DIRECTOR
PROCUREMENT

ADDENDUM #2

RFP Number: #7-2025

Date: May 6, 2025

Subject: Optical Sorter and Robotics Sorting Equipment for
Materials Recovery Facility

Address inquiries to:
Sondra Stone
(859) 258-3320
[sstone@lexingtonky.gov](mailto:ssone@lexingtonky.gov)

TO ALL PROSPECTIVE SUBMITTERS:

Please be advised of the following clarifications to the above referenced RFP:

See attached updated wage rates.

Todd Slatin, Director
Division of Central Purchasing

All other terms and conditions of the RFP and specifications are unchanged. This letter should be signed, attached to and become a part of your submittal.

COMPANY NAME: Machinex Technologies Inc.

ADDRESS: 716 Gallimore Dairy Road, Suite 103, High Point, NC, 27265 USA

SIGNATURE OF BIDDER:



4. BID BOND

Please find the Bid Bond on the next page.



2200 Renaissance Blvd., Suite 400
King of Prussia, PA. 19406
Ph. (610) 832-8240

BID BOND

Bond Number: BDTO-470005-25-003

KNOW ALL MEN BY THESE PRESENTS, that we MACHINEX TECHNOLOGIES INC.
, as principal (the "Principal"),
and LIBERTY MUTUAL INSURANCE COMPANY, a Massachusetts stock insurance company, as surety (the
"Surety"), are held and firmly bound unto LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
, as obligee (the "Obligee"), in
the penal sum of FIVE PERCENT OF THE BID PRICE
 Dollars (\$ 5 %),
for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our
heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for: RFP #7-2025 OPTICAL SORTER AND ROBOTICS SORTING
EQUIPMENT FOR MATERIALS RECOVERY FACILITY

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal within the period specified therein, or, if no
period be specified, within sixty (60) days after opening, and the Principal shall enter into a contract with the Obligee
in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or
contract documents, or in the event of the failure of the Principal to enter into such contract and give such bond or
bonds, if the Principal shall pay to the Obligee the difference in money not to exceed the penal sum hereof between
the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with
another party to perform the work covered by said bid, then this obligation shall be null and void; otherwise to remain
in full force and effect. In no event shall the liability hereunder exceed the penal sum thereof.

PROVIDED AND SUBJECT TO THE CONDITION PRECEDENT, that any claim by Obligee under this bond must
be submitted in writing by registered mail, to the attention of the Surety Law Department at the address above,
within 120 days of the date of this bond. Any suit under this bond must be instituted before the expiration of one
(1) year from the date of this bond. If the provisions of this paragraph are void or prohibited by law, the minimum
period of limitation available to sureties as a defense in the jurisdiction of the suit shall apply.

DATED as of this 23rd day of April, 2025.

WITNESS / ATTEST

[Signature]

MACHINEX TECHNOLOGIES INC.
(Principal)
By: *[Signature]* (Seal)
Name: Chris Hawen
Title: CEO

LIBERTY MUTUAL INSURANCE COMPANY
(Surety)
By: *[Signature]*
Attorney-in-Fact
Lisa Betancur, Attorney-In-Fact





This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8210551-969099

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Lisa Betancur, Donna Marie Borja, Alison Chambers, David W. Garese, Robert J. Garese, Maria Pamela Duran Rufino, A. Catherine Skeen, Brooke A. Skeen

all of the city of Sacramento state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 22nd day of April, 2025.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: [Signature]
David M. Carey, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 22nd day of April, 2025 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: [Signature]
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 23rd day of April, 2025.



By: [Signature]
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Sacramento)

On April 23, 2025 before me, Donna Marie Borja, Notary Public
(insert name and title of the officer)

personally appeared Lisa Betancur,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

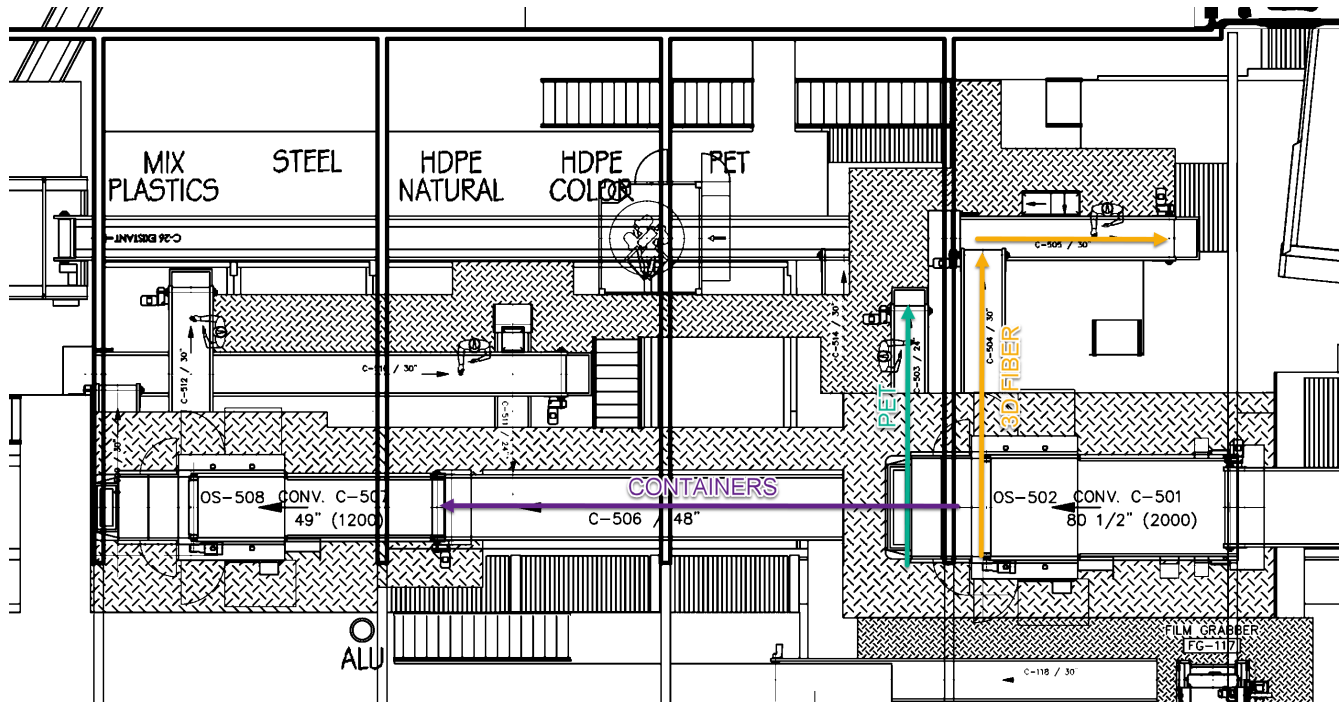


Signature Donna Marie Borja (Seal)

5. NARRATIVE DESCRIPTION

EXISTING PET/3D FIBER OPTICAL SORTER

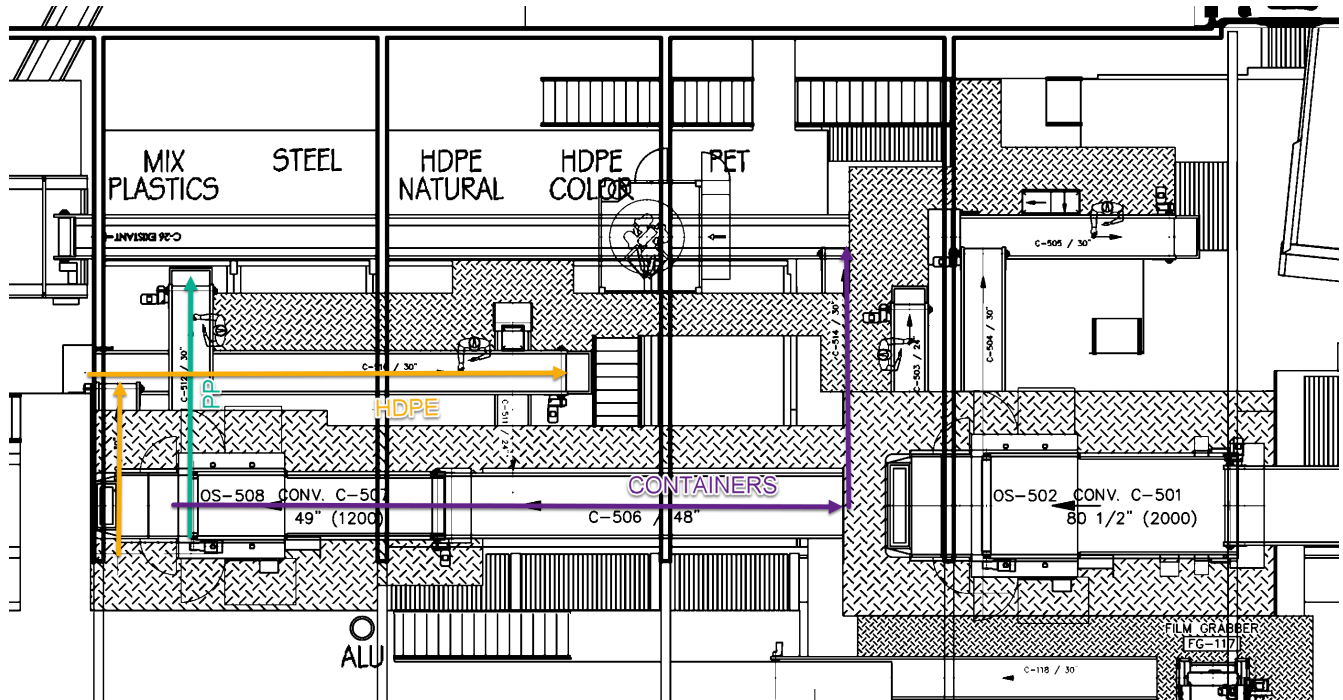
With the proposed upgrade, the first optical sorter on the container line will stay the same in ejecting PET upwards and 3D Fiber down. However, the non-ejected fraction from this existing optical sorter will now continue to the new proposed optical sorter instead of going to the manual container sort line.



NEW HDPE/PP OPTICAL SORTER

As mentioned above, the non-ejected from the PET/3D Fiber optical sorter continue to the HDPE/PP optical sorter. Once the material is delivered to the new optical sorter, the HDPE will be ejected upwards onto a QC/Color Sort conveyor where a manual sorter can inspect the material before it drops into one of the existing slope bunker. This HDPE sorter will have access to the HDPE natural bunker or the return back to the last chance container line.

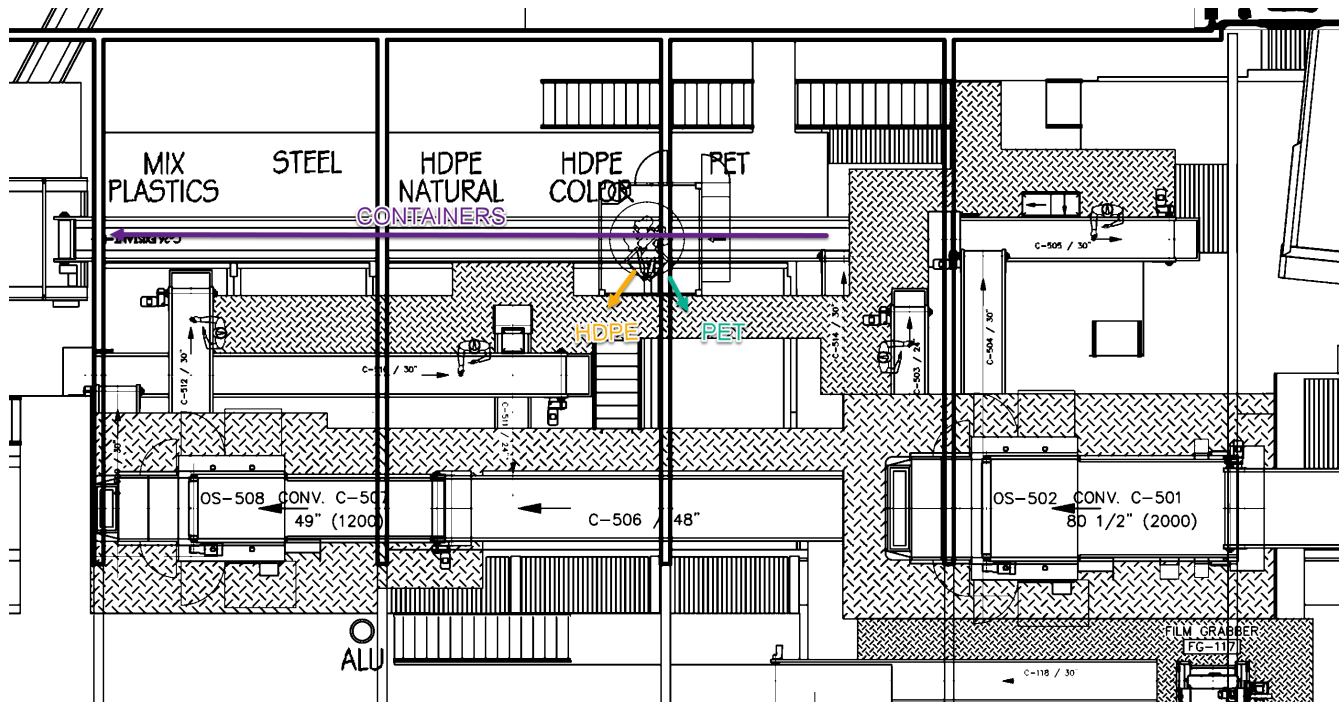
The second ejection from the new optical sorter will be PP (#5 plastics). This material will be ejected downwards and also pass by a QC station before getting dropped into the existing aluminum slope floor bunker for storage.



ROBOTIC CONTAINER SORTING & METAL SEPARATION

After the new optical sorter for HDPE and PP plastics, the non-ejected fraction will continue to the existing manual container sorting line. Once material arrives on the manual sorting conveyor, the first station will be equipped with a robotic sorter which can pick either PET or HDPE Color that may have been missed by the first two optical sorters. These commodities picked will be dropped into the existing slope floor bunkers.

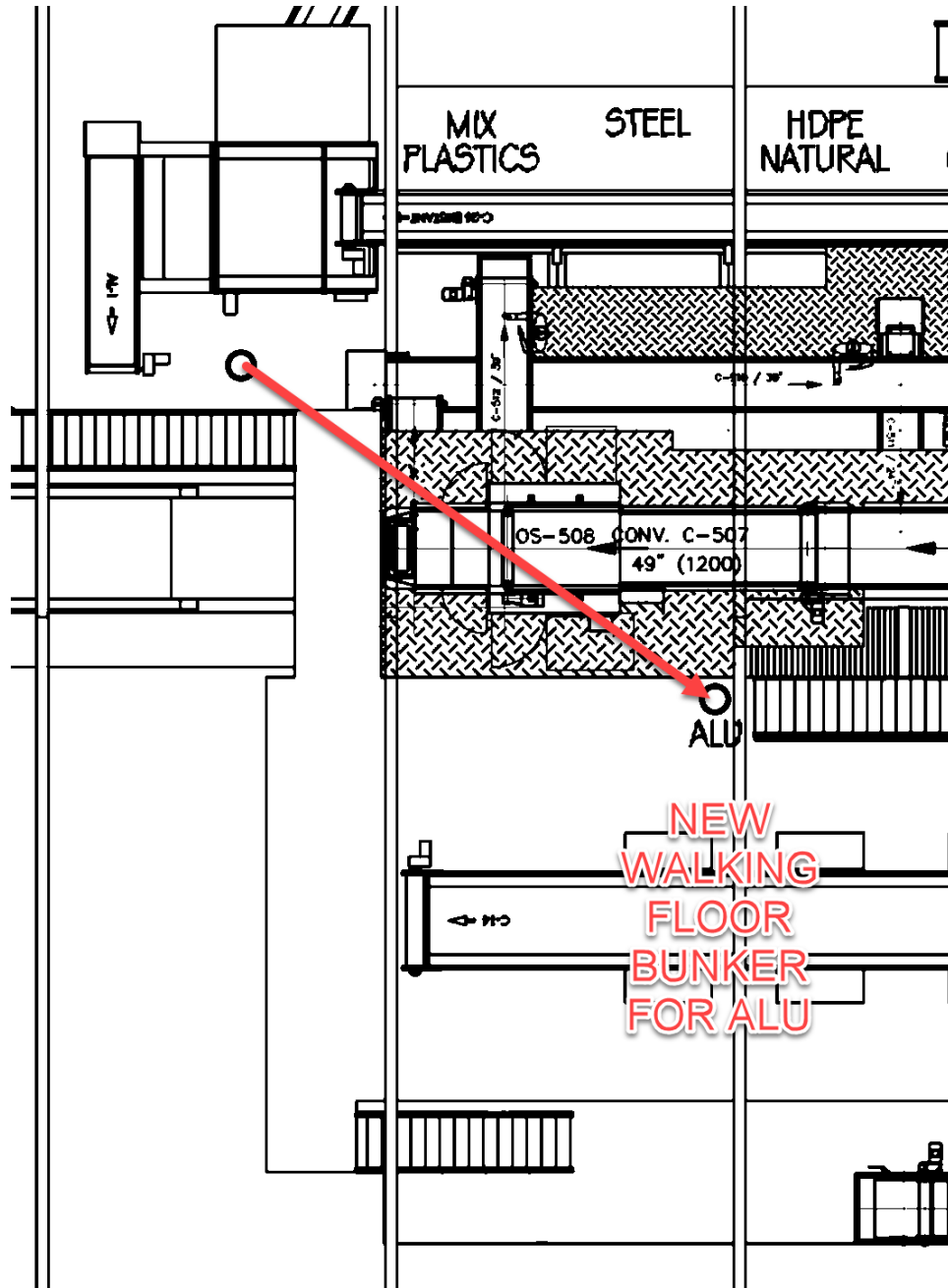
Note: The PET picked will be dropped into the first slope bunker.



ALU/UBC STOARGE

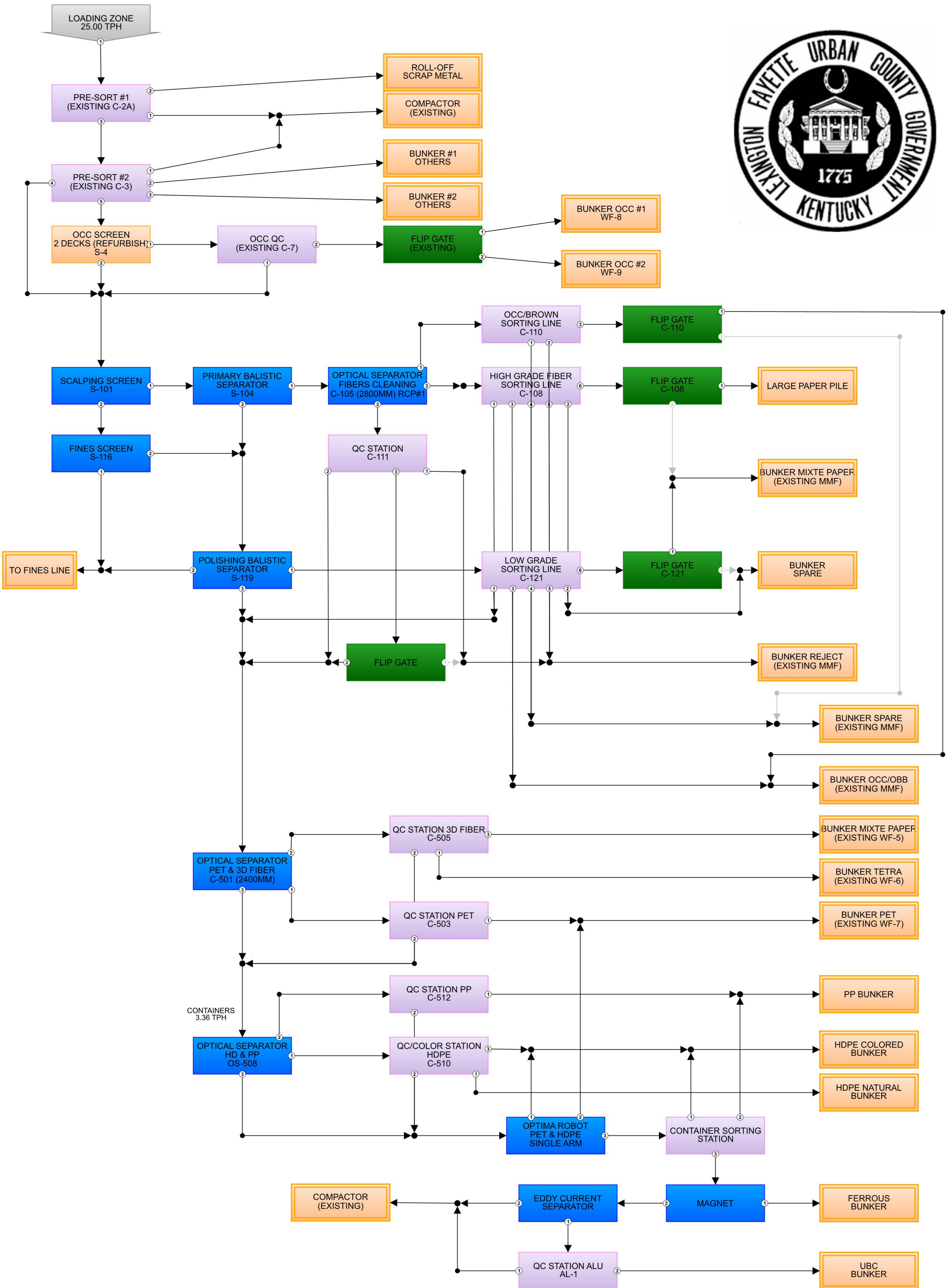
Because we are using the existing aluminum slope floor bunker for PP (#5 plastics) with the new container line setup. The blower system will be upgraded to include new piping to a new walking floor bunker which will be in the unused push through bunker under the fiber platform.

This new walking floor bunker will manage the sorted aluminum material until it is ready to be baled.



6. FLOW DIAGRAM

On the following page you will find a flow diagram for the complete system including the newly proposed equipment which includes an optical sorter for HDPE & PP along with a recovery Robotic Sorter.



7. EQUIPMENT LIST

*****At this stage, the following equipment list should be considered as "preliminary / not for construction". The final information will be presented upon final engineering within our layout approval process.*****

EQUIPMENT LIST						
ITEM #	DESCRIPTION	MODEL	HP	VFD	WIDTH	LENGTH
C-506	CONTAINER FEED CONVEYOR	SLIDER BED	3	X	48"	39' 3"
C-507	SPEED BELT	SPEED BELT	5	-	49"	18' 3"
OS-508A	HDPE & MIXED PLASTICS OPTICAL SORTER	Dual Eject	---	-	---	---
C-509	HDPE TRANSFER CONVEYOR	SLIDER BED	2	-	30"	11' 8"
C-510	HDPE QC CONVEYOR	SLIDER BED	2	-	30"	34' 8"
C-511	NON-HDPE RETURN CONVEYOR	SLIDER BED	2	-	24"	12'
C-512	MIXED PLASTICS CONVEYOR	SLIDER BED	2	-	30"	18' 7"
C-513	CONTAINER TRANSFER CONVEYOR	SLIDER BED	2	-	36"	50' 3"
C-514	CONTAINER TRANSFER CONVEYOR	SLIDER BED	2	-	36"	26' 3"
AB-1	ALU AIR BLOWER (PIPING ONLY) (Blower)		15	-	---	---
MMF-1	ALU WALKING FLOOR BUNKER		---	-	---	---
PLA-1	PLATFORM-STEEL PACKAGE(Door vulcan with Hoist)		0.75	-	---	---
"	PLATFORM-STEEL PACKAGE(Door vulcan with Hoist)		1	-	---	---
COMP-2	COMPRESSOR UNIT		---	-	---	---

OPTION #2 (ROBOT SORT UPGRADE)						
ITEM #	DESCRIPTION	MODEL	HP	VFD	WIDTH	LENGTH
SRM-2	OPTIMA ROBOT	SAMURAI® 1I-1C	---	-	---	---
PLA-4	PLATFORM-STEEL PACKAGE		---	-	---	---

OPTION #3 (AI FOR HDPE OPTICAL SORTER)						
ITEM #	DESCRIPTION	MODEL	HP	VFD	WIDTH	LENGTH
ORM-65A	HDPE MACH VISION (A.I. ANALYSIS)		---	-	---	---

OPTION #4 (SPEED BELT AUTO TRACKING)						
ITEM #	DESCRIPTION	MODEL	HP	VFD	WIDTH	LENGTH
TRAC-1	SPEED BELT TRACKING		---	-	---	---

8. EQUIPMENT DESCRIPTION

8.1 GENERAL DESIGN INFORMATION

Ancillary Features

Unless otherwise specified. These are some general Machinex Technologies Inc. key design features.

UNITS

- 1) Machinex Technologies Inc. equipment specifications are available in both imperial and metric, but this quote is in imperial units

SAFETY GUARDS AND OTHERS

- 2) All safety guards are bolt on type for ease of maintenance.
- 3) Protective guards are provided under an accessible height of 9'-0" [2.75m] on all equipment.
- 4) Roller baskets under conveyor provided at a height of 9'-0" [2.75m] and more in a working and/or walking zone.
- 5) Painted surface preparation includes chemical cleaning or sandblasting, prior to application of primer/paint.

DRIVES AND MOTORS

- 6) A complete list of motor power is available in Equipment List
- 7) Gear reducers and motors are helical in line shaft mount type, sized by application.
- 8) All motors are mounted on reducers and are PREMIUM efficiency type, 1.15 Service factor.

STRUCTURAL SUPPORTS

- 9) All equipment structural supports to be made of square tubing and/or structural steel.
- 10) All legs have boot adjustments. Each boot to be attached using "Wedge anchors" through 2 to 4 holes in each footpad.
- 11) Support bracings to be made of angle iron and/or structural steel.

TRANSFER PANELS

- 12) All transfer panels are made of formed steel plate. Transfer panels to be bolt on type for easy access to head shafts.
- 13) Appropriate adapter skirts or shields, chutes and transfer panels to be provided at all transfer points to ensure that all transitions are sufficiently enclosed to minimize spillage or dust emissions.

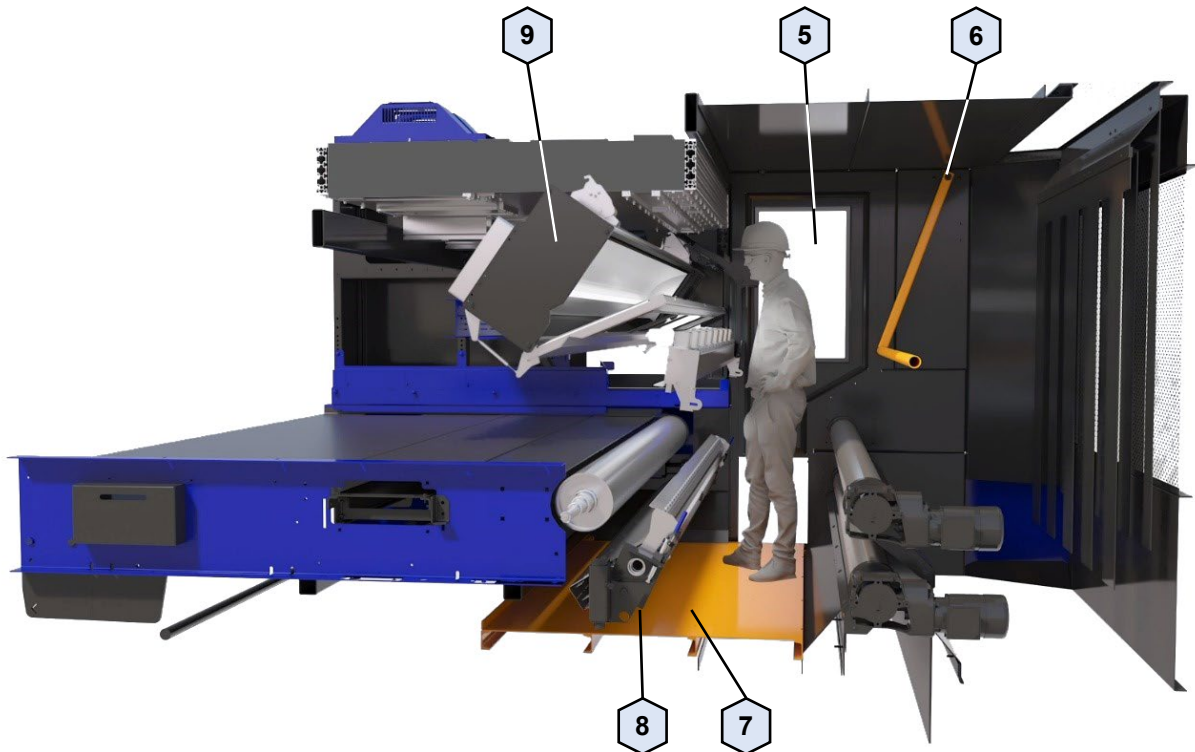
8.2 MACH HYSPEC® OPTICAL SORTER

High performance and accuracy optical sorter with ease of access for maintenance

Features	Description	Additional Information
CONTROLS & DETECTION SYSTEM		
1	Control Panel	Touch screen control panel with user-friendly menus Remote access capabilities for maintenance Panel has an air conditioner
	Acquisition System	One (1) central computing unit & associated software
	Measuring System	HYSPEC® SHORTWAVE
	Measurement per seconds	+/- 20,000,000 Very high speed
	Signal Quality	Signal to noise ratio of 64db Dark noise of only 9.3 ADU Far superior quality compared to classic technologies
	Analysis Resolution	3 x 15mm and 5 x 15mm (200Hz) 3 x 8.7mm and 5 x 8.7mm (346Hz)
	Ejection Precision	Time between reading and ejection is 500µs Better efficiency on rolling object
LIGHTING SYSTEM		
	Light Type	Diffused light (Halogen) Very little heat at the belt level
	Light Performance	Help identify thin and transparent objects as well as thick and opaque objects
	Construction	No moving parts used in the optical and detection system Less maintenance and higher reliability
OTHERS		
2	Ejection Hood	Heavy duty steel and tubing construction Increased safety and maintenance access
3	Air Tunnel	Keep the material flat on the high-speed belt <i>Optional feature (Refer to Equipment List)</i>



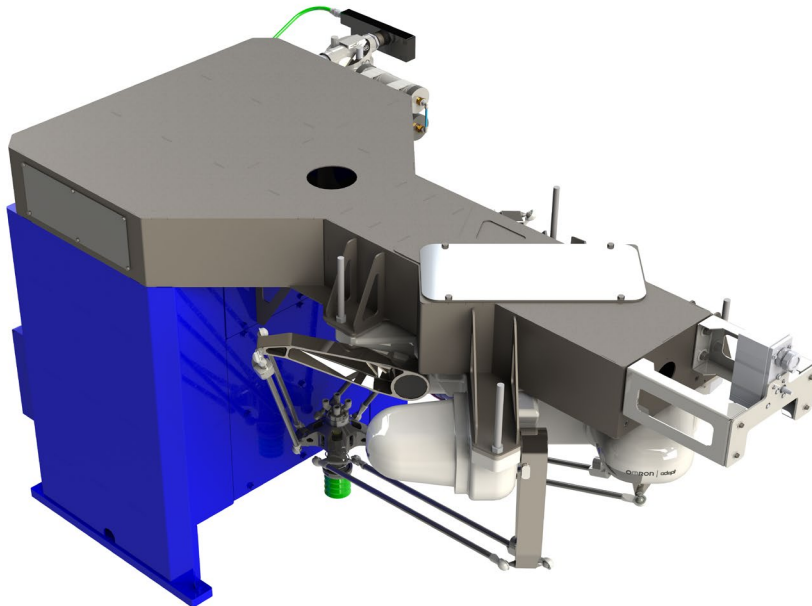
Features	Description	Additional Information	
MAINTENANCE FEATURES			
4	Conveyor Access	Custom made ladder to provide an easy and safe access onto the speed belt conveyor	Provide access to clean and inspect lamp's fins, air treatment system, etc.
5	Ejection Hood Access	Full height door providing a safe and easy access to the inside of the ejection hood	
6	Inside Hood Safety	Pivoting handrail	Manual rotation from the outside of the hood to increase safety
7	Mobile Platform (Optional)	Provide a save and easy working position into the ejection hood for maintenance and cleaning	Included Manually activated from the outside of the hood
8	Nozzles Bar Cleaning & Maintenance (Optional)	Rotation of the nozzles bar to allow optimal position for cleaning or maintenance	Included Manually activated Smooth movement secured by air dampers
9	Lamp Cleaning & Replacement (Optional)	Rotation of the lighting system to allow optimal position for window cleaning or bulb replacement	Included Manually activated Smooth movement secured by air dampers



8.3 MACHINEX SAMURAI® ROBOT

AI powered robot with up to 50 picks per minute per arm

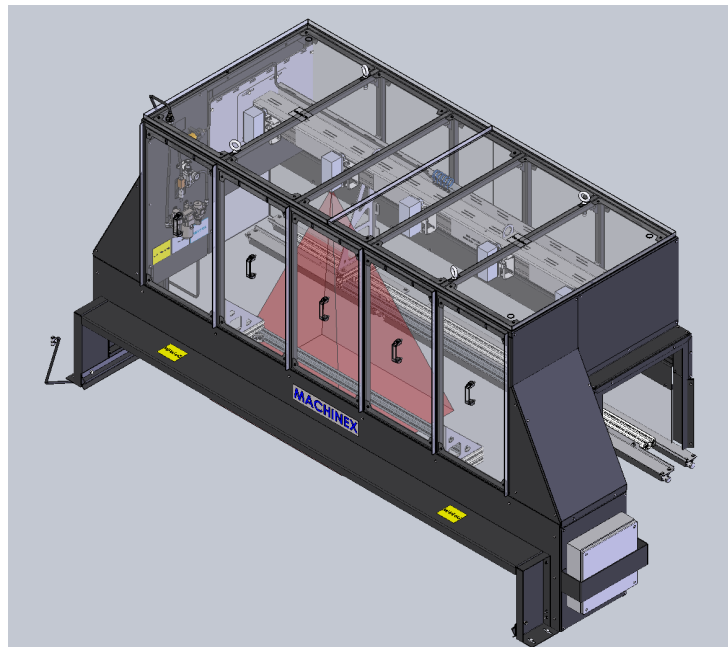
Features		Description	Additional Information
CONFIGURATION			
Robot	Adept Quattro S650H	4 articulations robot from Omron	
Number of robots	1 robot		
Number of AI	1x AI computer + camera	AI = Artificial Intelligence	
CONVEYOR WIDTH			
S650H	42" [1065mm] / chute 1 side	36" [915mm] / chute 2 sides	
SUCTION			
Suction Cup	Ø 3" [77.5mm] No strainer	Allows small items to go through the hose. Reduced suction cup jam	
Venturi System	20 SCFM @ 100psi [0.57 l/min @ 7bar]	Create vacuum to grab items on the belt and used an air jet to eject picked material	
Automatic Unjam Mode	Compressed air jet unclogged any items stuck inside cup or hose	Pressure sensor to detect a jam	
OPERATION FEATURE			
Maintenance Access	Large access to robot inside and key component		
Bin sorting	Robot can sort in a bin	For small amount of material Bin removable without stopping the robot	



8.4 MACHINEX ORMZ

High accuracy object recognition module

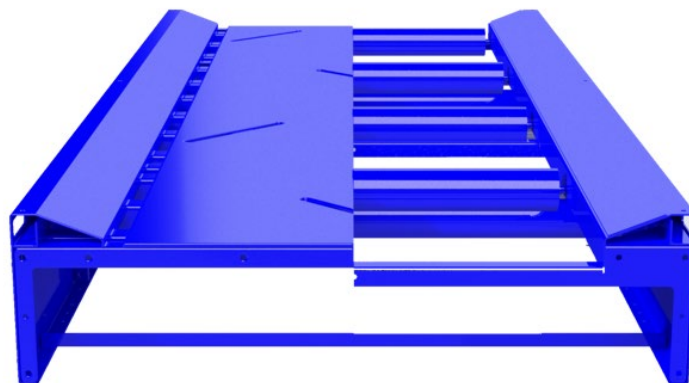
Features	Description	Additional Information
CONTROLS & DETECTION SYSTEM		
Control Panel	Controllable from the optical unit touch screen	Remote access capabilities for maintenance Panel has an air conditioner
Acquisition System	From 1 to 5 computing systems (depending on the width of the belt)	
Measuring System	RGB Camera	
LIGHTING SYSTEM		
Light Type	LED lights	Very little heat at the belt level
Light Performance	Helps to distinguish between the shapes of containers in the same chemical family	
Construction	No moving parts used in the optical and detection system	Less maintenance and higher reliability
OTHERS		
Independent Pneumatic System	The unit has its own air Intake, filters and regulators.	



8.5 SLIDER BED / SLIDER ROLLER CONVEYOR – TYPE CSRT

All sorting conveyor and heavy-duty transfer conveyor

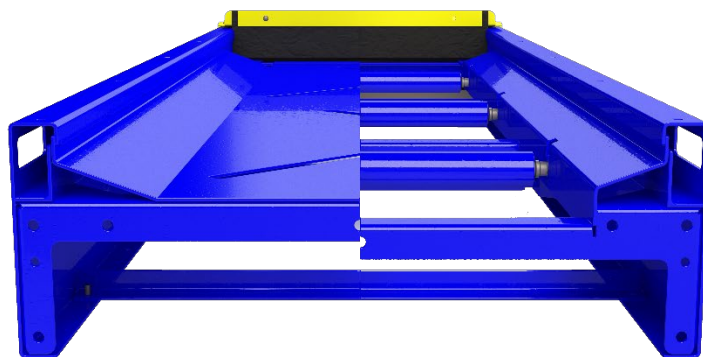
Features	Description	Additional information
FRAME		
Construction	Open frame 3/16" [5mm] thk.	Flat side conveyor
Section length	Maximum 12'-0" [3.657m]	Reinforced every 72" [1.828m]
Connecting plates	1/4" [6mm] thick	
Conveyor bed or Carrying rollers <i>(based on application)</i>	Steel plate 3/16" [5mm] slotted for self-cleaning or Ø5" [127mm] (steel-CEMA "C")	Roller with sealed bearings and slide in type brackets.
Return rollers	Ø5" [127mm] (steel-CEMA "C")	Roller with sealed bearings and slide in type brackets.
Extension Panels	Minimum 6" [152mm] height	12 gauge [2mm] steel plate
BEARINGS, SHAFTS AND PULLEYS		
Tail bearing & shaft	Minimum Ø2 15/16" [75mm]	Pillow block bearing; Mounted on take-up mechanism; Taper hub bushings with keyways and set screws.
Tail pulley	Minimum Ø12" [305mm]	Winged, crowned and self-cleaning
Head bearing & shaft	Minimum Ø2 15/16" [75mm]	Four (4) bolts flange bearing
Head pulley	Minimum Ø12" [305mm]	Crowned with 1/4" [6mm] lagging; Taper hub bushings with keyways and set screws.
RUBBER BELT		
Belt	Minimum 2 ply 220 PIW	One (1) piece with one mechanical joint
Belt cover	Top 3/16" [5mm] thick Low friction back	



8.6 SLIDER BED / SLIDER ROLLER CONVEYOR – TYPE CSR4

Medium duty carrying conveyor or sorting conveyor

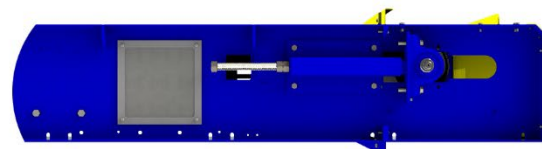
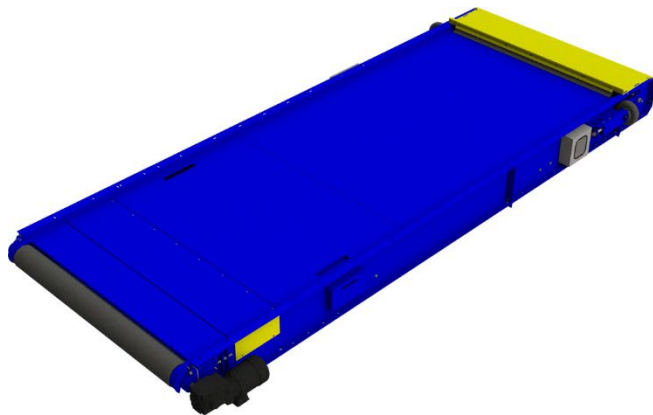
Features	Description	Additional information
FRAME		
Construction	Closed frame 3/16" [5mm] thk	Flat side conveyor
Section length	Maximum 12'-0" [3.657m]	Reinforced every 72" [1.828m]
Connecting plates	1/4" [6mm] thick	
Conveyor bed or Carrying rollers <i>(based on application)</i>	Steel plate 3/16" [5mm] slotted for self-cleaning or Ø3" [76mm] (steel-CEMA "C")	Roller with sealed bearings and slide in type brackets.
Return rollers	Ø3" [76mm] (steel-CEMA "C")	Roller with sealed bearings and slide in type brackets.
Extension Panels	Minimum 6" [152mm] height	12 gauge [2mm] steel plate
BEARINGS, SHAFTS AND PULLEYS		
Tail bearing & shaft	Minimum Ø2 7/16" [60mm]	Pillow block bearing; Mounted on take-up mechanism; Taper hub bushings with keyways and set screws.
Tail pulley	Minimum Ø8" [203mm]	Winged, crowned and self-cleaning.
Head bearing & shaft	Minimum Ø2 7/16" [60mm]	Four (4) bolts flange bearing
Head pulley	Minimum Ø8" [203mm]	Crowned with 1/4" [6mm] lagging. Taper hub bushings with keyways and set screws.
RUBBER BELT		
Belt	2 ply 220 PIW	One (1) piece with one mechanical joint
Belt cover	Top 3/16" [5mm] thick Low friction bare back	



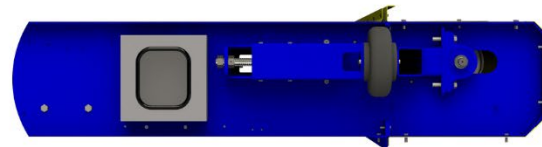
8.7 SPEED BELT CONVEYOR

For optical sorting units

Features	Description	Additional information
FRAME		
Construction	Closed frame 3/16" [5mm] thk	
Section length	Maximum 12'-0" [3.657m]	Reinforced every 72" [1.828m]
Connecting plates	3/8" [10mm] thick	
Conveyor bed	Steel plate 3/16" [5mm]	
Return rollers	Ø6" [152mm] (Rubber disk -CEMA "C")	Roller with sealed bearings and slide in type brackets.
Side skirts	Minimum 6" [152mm] height	12 gauge [2mm] steel plate
BEARINGS, SHAFT AND PULLEYS		
Tail bearing & shaft	Minimum Ø1 15/16" (50mm)	Pillow block bearing; Mounted on take-up mechanism
Tail pulley	Minimum Ø8" [203mm]	
Head bearing & shaft	Minimum Ø1 15/16" (50mm)	Pillow block bearing
Head pulley	Minimum Ø8" [203mm]	
AUTO-TRAKING SYSTEM (FOR OPTICAL SORTER 2000mm AND MORE)		
Auto-tracking	Continuously monitored by 2 lasers, they read if the belt is moving from side to side	Air suspension balloons are inflated / deflated to increase tension each side individually. This will track belt into optimal position.
RUBBER BELT		
Belt	Minimum 4 ply 180 PIW	One (1) piece with one vulcanized joint.
Belt cover	Top 3/32" [2.3mm] thick Low friction Bare Back	



Basic take-up mechanism

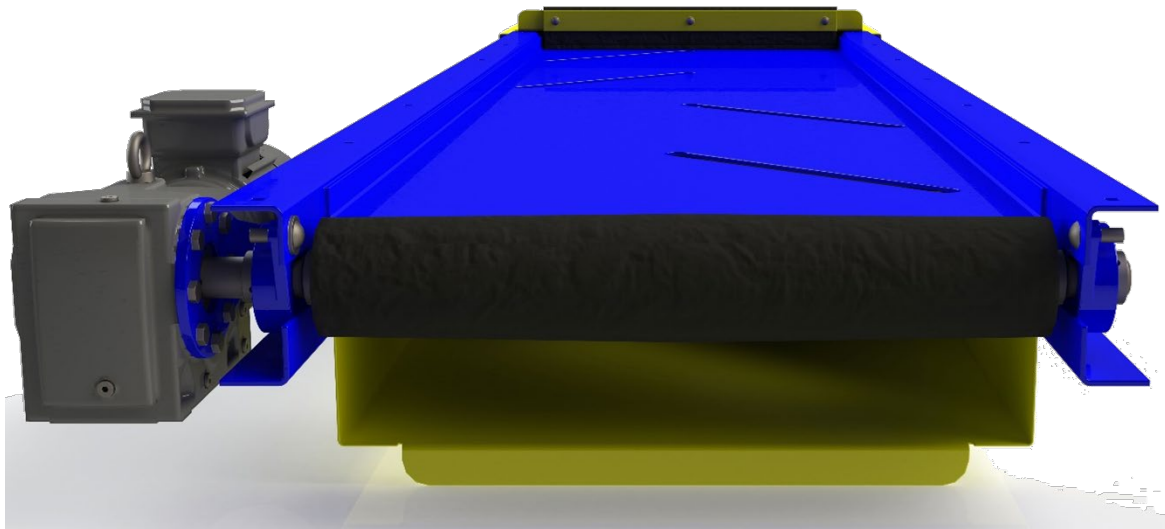


Take-up with auto-tracking system

8.8 SLIDER BED CONVEYOR – TYPE CC8

Medium duty carrying conveyor – Tight space

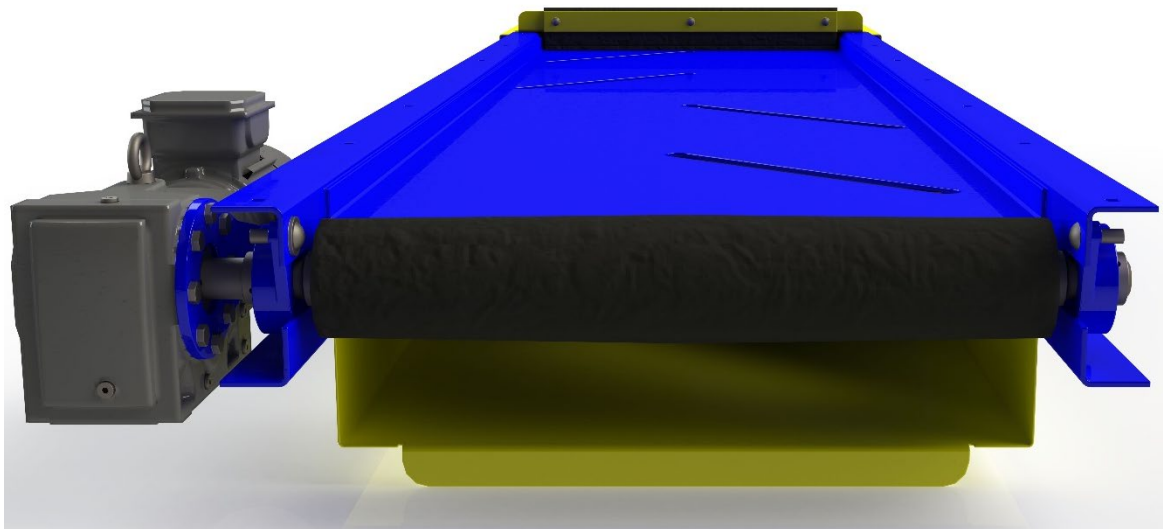
Features	Description	Additional information
FRAME		
Construction	Closed frame 3/16" [5mm] thick	
Section length	Maximum 12'-0" [3.657m]	
Connecting plates	3/8" [10mm] thick	
Conveyor Bed	Steel plate 3/16" [5mm]	Slotted for self-cleaning
Return rollers	Ø3" [76mm] (steel-CEMA "C")	Roller with sealed bearings and slide in type brackets.
Side skirts	Minimum 6" [152mm] height	12 gauge [2mm] steel plate
BEARINGS, SHAFT AND PULLEYS		
Tail bearing & shaft	Ø2 7/16" [60mm]	Two (2) bolts flange bearing. Mounted on take-up mechanism.
Tail pulley	Ø6" [152mm]	Crowned to help self-tracking.
Head bearing & shaft	Ø2 7/16" [60mm]	Two (2) bolts flange bearing.
Head pulley	Ø6" [152mm]	Crowned with 1/4" [6mm] lagging;
RUBBER BELT		
Belt	2 ply 160 PIW	One (1) piece with one mechanical joint
Belt cover	Top 1/8" [1.5mm] thick Low friction bare back	



8.9 SLIDER BED CONVEYOR – TYPE CC6

Medium duty carrying conveyor – Tight space

Features	Description	Additional information
FRAME		
Construction	Closed frame 3/16" [5mm] thick	
Section length	Maximum 12'-0" [3.657m]	
Connecting plates	3/8" [10mm] thick	
Conveyor Bed	Steel plate 3/16" [5mm]	Slotted for self-cleaning
Return rollers	Ø3" [76mm] (steel-CEMA "C")	Roller with sealed bearings and slide in type brackets.
Side skirts	Minimum 6" [152mm] height	12 gauge [2mm] steel plate
BEARINGS, SHAFT AND PULLEYS		
Tail bearing & shaft	Ø1 7/16" [35mm]	Two (2) bolts flange bearing. Mounted on take-up mechanism.
Tail pulley	Ø3 15/16" [90m]	Crowned to help self-tracking.
Head bearing & shaft	Ø1 7/16" [35mm]	Two (2) bolts flange bearing.
Head pulley	Ø3 15/16" [90m]	Crowned with 1/4" [6mm] lagging.
RUBBER BELT		
Belt	2 ply 160 PIW	One (1) piece with one mechanical joint
Belt cover	Top 1/8" [1.5mm] thick Low friction bare back	



9. ELECTRICAL INFORMATION

9.1 OPERATIONS PHILOSOPHY

Infrastructure

The Local Control Panel (LCP) shall consist of base standing panels. Ventilation/cooling*/heating will be provided according to the manufacturers' recommendations. The panel assembly will be approved according to local regulation (CSA; 22.2 #14-13, CSAus; UL508A, CE; IEC61439).

*Cooling calculation are done with ambient temperature of 35 Celsius *degree*.

If your project requirement differs, please advise your sales representative.

Safety Controller/Relay

The loop for safety components is done according to the manufacturers' recommendations and EN 954-1/ISO13849-1 standard is applied. It is possible to achieve high safety performance level through programming when having a safety controller, in which case zoning can be done with the connected circuits and proper design to facilitate maintenance**. A risk assessment of the system will be done. Safety Performance Level of each function will be adjusted accordingly.

**can be proposed as an option

Remote Access

Machinex uses eWON industrial VPN router to have remote access to the control panel and all its ethernet featured devices. The customer must bring, connect and commission the Internet access into Machinex control cabinet. The eWON is a full IP router featuring "Factory" LAN to "Machine" LAN routing functionalities with an embedded modem for use as a backup access to the "Machine" LAN.

Advantages: Firewall-friendly, Outbound connections only, Standard ports use: 443 (HTTPS) & 1194 (UDP),
Compatible with customer LAN's Proxy

Customer keeps control: VPN access can be controlled with external key switch, Connection report

Motor Control

VFD, Soft/Start and motor starter with communication capabilities*** can be reset externally on minor faults. Thus, no need to open the panel to reset the Overload, prohibiting exposure of high voltage and reducing the downtime. Communication capabilities also came with amperage reading. With the amperage reading, a low and high current limit alarm can be set up. A low amp limit can be used to detect a loose or broken belt or a local disconnect let in OFF position. The high amp limit is usually set to detect an untracked belt or a blockage.

***for components make/model/option, see Electrical Component

Emergency Stop

All emergency stop functions are designed according to ISO 13850:2008 4.1.3. Each operator/sorter workstation has an accessible emergency device (E-Stop or emergency pull cord) available (ISO 13850:2008 4.4.2). Emergency door switches have been installed on maintenance guards and access is determined by the risk assessment. The positioning of the e-stops is decided by several factors such as occupancy, equipment risk and egress. All frequent maintenance access doors have a safety door switch security detection installed.

The E-Stops must only be activated in case of an emergency. Activation of an E-Stop during operation may lead to uncontrolled conditions in the system as all equipment are stopped disregarding of any sequence. Therefore, the reason for the activation of the E-Stop must be determined and an inspection of the system must be carried out before restart of the system.

LOCK OUT / TAG OUT

Lock out / Tag out procedure is to be determined by the customer and shall be respected by everybody on site. Everything is in place to facilitate it, local motor isolator and MCC main disconnect switch allow multiple lock.

9.2 INFO SWITCH GEAR

OPTION #1 - HDPE/MIXED PLASTICS OPTICAL SORTER				
Description	Drop Tension (Volt)	Number of Phases	Frequency (Hz)	Panel protection (Main Breaker rating in Amp)
OS-508A HDPE & MIXED PLASTICS OPTICAL SORTER	460	1	60	80

OPTION #2 - ROBOT QC UPGRADE				
Description	Drop Tension (Volt)	Number of Phases	Frequency (Hz)	Panel protection (Main Breaker rating in Amp)
SRM-2 OPTIMA ROBOT SAMURAI 1I-1C	460	3	60	

10. COMMODITY SPECIFICATIONS / PERFORMANCE GUARANTEES

PROCESSING RATE THROUGHPUT

→ Machinex guarantees the proposed new optical sorter can process containers up to 3.5 TPH to achieve the performances listed below. The inbound material composition should be close to the following.

PRODUCT	TPH	PURITY %
Dense Plastic: HDPE Color	0.408	11.55
Dense Plastic: HDPE Natural	0.408	11.55
Dense Plastic: PET	0.036	1.03
Dense Plastic: Unspecified	0.201	5.69
Ferrous Metal: Food and drink cans	0.386	10.94
Glass: Unspecified	0.043	1.20
Non-Ferrous Metal: Drinks cans	0.192	5.44
Paper/Card: Card packaging	0.051	1.45
Paper/Card: Cardboard	0.023	0.64
Paper/Card: Newspaper	0.049	1.39
Paper/Card: Unspecified	0.031	0.88
Rejects & Other: Unspecified	1.684	47.66
Tetrapak: Unspecified	0.020	0.57

OPTICAL SORTER PERFORMANCE

- The Optical Unit OS-508 proposed will achieve:
 - HDPE Upward : (Larger than 4" x 4")
 - 92-94% + Purity
 - 93-94% + Efficiency
 - PP Downward (Larger than 3" x 3"):
 - 88 to 92% Purity
 - 90 to 94% Efficiency

ROBOT PERFORMANCE

- The Robot Unit (SRM-2) can achieve the following:
 - PET & HDPE Materials
 - Up to 70 attempted picks per minute
 - Estimated successful picks per minute range (45-55)

Note #1: Because presentation of material to the robot camera & arm is critical, the attempted picks per minute depends on recognition of items. These variables can include but not limited to (spacing of targeted materials, partially or fully covered items, and number of targeted items).

Note #2: Above numbers are based on targeted materials that can be recognized within the A.I. camera system. If targeted commodities change, the estimated successful picks per minute will need to be adjusted.

10.1 OPTICAL SORTER PERFORMANCE GENERAL ASSUMPTIONS

REQUIRED TO OBTAIN THE PERFORMANCES LISTED FOR A MACH HYSPEC® OPTICAL SORTER

To obtain the performances mentioned above, certain assumptions should be formulated. Machinex is open to discuss if one or more of these assumptions are unacceptable.

ASSUMPTION #1 - Targeted items must have a surface of visible material equal or greater than 3x3 inches (75x75 mm) to be considered as missed in the performance calculation.

ASSUMPTION #2 - Fluctuations greater than 5% of a given material's category total weight (or 0,2% for the plastic film) can affect the purity and system's efficiency.

ASSUMPTION #3 – Accuracy & performances can be affected for those products:

- With more than 25% of its content inside,
- Ice-covered, spherical, or unbalanced,
- Having a surface mass greater than 0,014 pounds per square inch, example: 16 gauges (1.2mm) steel or a phone book greater than 0.59" (15mm),
- Whose visible surface with targeted characteristics represents less than 25% of the total area,
- Wet, dirty, greasy, oily, soiled.

ASSUMPTION #4 - Targeted items must be exempt of black or dark-colored outside or inside faces (dark brown, dark green, etc.) to be considered as missed in the performance calculation.

ASSUMPTION #5 - If two or more items of different materials or colors are clustered, fastened or somehow stuck together, these mixtures can affect the performances and must not be calculated in the performances of the system.

ASSUMPTION #6 – Except when equipped with metal detection technology option, it is not always possible for the optical sorters to tell apart stickers or plastic sleeves from metal or foil containers. Such items will therefore be calculated as categorized by the optical sorter (Ex. for an optical sorter ejecting PET upwards, a can with a PET label is counted in the PET category).

ASSUMPTION #7 – Transparent plastic films must have a thickness greater than 50µm to be considered missed in the performance calculation.

ASSUMPTION #8 – Items made of LDPE (#4) that are thicker than 200µm cannot be considered in the HDPE optical sorter analysis.

ASSUMPTION #9 – Any object that allows light to pass, transparent or translucent, is considered in the natural or clear category. Any object that does not allow light to pass is considered has colored.

ASSUMPTION #10 – A sample is considered adequate to validate the performance test if:

- It allows to achieve the sold performances.
- or
- It allows to miss three (3) items to achieve the performances guarantees.
- and
- It provides a minimum of fifteen (15) targeted items per minute.

11. PROJECT TIMELINE

11.1 PRELIMINARY PROJECT SCHEDULE

Machinex can achieve the requested project timeline for starting up the processing equipment by August 16th, 2026 and could **IMPROVE** that timeline depending on when the order would be placed. As of the date when the proposal has been submitted, Machinex could manufacture and install this equipment in the 4th quarter of 2025.

We are open to having final discussion about which installation time works best for Lexington-Fayette if Machinex is the selected supplier on this project. After which, Machinex will provide a final project schedule which is agreed upon.

Machinex believes it is important to note that Machinex has completed numerous project upgrades with Lexington-Fayette and we have completed all project on-time or ahead of time. The County can be assured that dates provided will be achieved even in this difficult installation upgrade. As mentioned within the project management & key individuals section, Machinex has a very detailed approach to ensuring project timelines are achieved.

11.2 PRELIMINARY INSTALLATION SCHEDULE

Below is a tentative installation schedule that will need to be coordinated during project planning with all the parties involved. Machinex is willing to discuss alternative installation schedule ideas to help Lexington-Fayette out if selected for this project.

PRELIMINARY INSTALL SCHEDULE													
SUNDAY		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY	
				NORMAL OPERATIONS	ALL DAY	NORMAL OPERATIONS / INSTALLATION STARTS AT NIGHT	Starts @ 4PM	SYSTEM INSTALLATION WITH SHUTDOWN	ALL DAY	SYSTEM INSTALLATION WITH SHUTDOWN	ALL DAY	SYSTEM INSTALLATION WITH SHUTDOWN	ALL DAY
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SYSTEM I NSTALLATION WITH SHUTDOWN	ALL DAY	SYSTEM START-UP	7AM	NORMAL OPERATIONS	ALL DAY								

LEGEND:	
	Regular Operations
	Shutdown
	Start-up

11.3 SCHEDULE RATIONALE SECTION

When developing a timeline for a given project, Machinex has a rigorous internal protocol whereby all departments that will touch the project must evaluate the scope, current workload and expectations from the customer. This process usually takes about a week to complete because each department must fully understand how the project aligns with *all* departments at any moment.

Our departments include:

- **Engineering**
 - Detailed structural calculations
 - Development of egress routes to comply with OSHA requirements
 - Study of all safety aspects of the project as it relates to OSA guidelines
 - 3D drawings of every component must be done prior to manufacturing
- **Manufacturing**
 - Preparing and cutting steel
 - Assembly
 - Painting
- **Electrical**
 - Detailed electrical calculations
 - Detail electrical drawings
 - Fabricate control panels
 - Programming
- **Installation**
 - Mechanical installation
 - Electrical field wiring (not to include main power drops)
- **Start-up & testing**
 - Dry commissioning (running the system with no material after the installation is complete)
 - Wet commissioning (running the system with material after the installation is complete)
 - Performance testing

Once each department has had an opportunity to review the scope of the project and determine how it will fit within their respective schedules, a formal delivery request is completed, and each department must sign off on it. Then, and only then, will the official timeline be generated.

With regards to risk mitigation, please refer to our Section 12.1 below where we describe, in detail, our Gate process. Our project management procedure is quite detailed and Machinex's track record of on-time deliveries, installations and startups are second-to-none in this space.

Lexington's desire to have the facility operational by August 2026 is easily achievable based on our current workload. However, this also assumes that the County would be prepared to issue an order prior to August 1, 2025. Of course, conditions can change, and new orders can have a significant impact on the timeline, so each day prior to August 1 that an order can be placed will only improve our ability to meet your expectations.

12. PROJECT MANAGEMENT & KEY INDIVIDUALS

In addition to the description of our Gate Process in Section 12.1 below, we have also provided our Key Personnel in Section 12.2 to help the County better understand the roles and qualifications of our project management team headed by Jerome Lemay. As projects do not get assigned to a project manager until receipt of order, we have not included a resume for a specific project manager at this time but will be happy to do so if awarded. Certain subcontractors (like for electrical field wiring) have also not been selected at this time, but we will gladly provide those later, if awarded.

12.1 PROJECT MANAGEMENT PROCESS

Within this section a detailed approach will be laid out to help Lexington-Fayette understand the project management process that Machinex uses to ensure projects are handled effectively and completed on time. This Gate process will involve not only the Machinex project team but will also include key individuals from Lexington-Fayette to make sure all parties are informed about the process.

1- PHILOSOPHY OF OUR PROJECT MANAGEMENT

Project management is at the core of Machinex daily activities, reflecting its four corporate values: respect, communication, passion, and personal development. A Machinex Project Manager line of conduct is determined as follows:

"Like an orchestra conductor, the project manager at Machinex demonstrates leadership and rigorously applies management processes. He operates within the contractual framework to meet the strategic objectives and deliverables of the project to the satisfaction of internal and external clients. He is proactive in his approach and anticipates difficulties by using active listening combined with effective communication with stakeholders. Finally, his involvement in all stages of the project sets the tone for the process and contributes to a successful team synergy".

Six years ago, Machinex started a Kata to improve its lean management. Most of our current project management processes come from this Kata. As we will explain in detail, we created the Gates Process to manage skills, risks, schedule and needs at every step of the project management. In this process, which became our master tool, the Workbook appeared. Then, the matrix with the subdivision of our team was created, and other progress management tools were implemented.

When a project order is processed internally, the first step is to identify the type of project it is, its requirements, and what resources we must mobilise to meet our client's needs.

2- GATE PROCESS

The project management is divided into 11 gates to handle our clients needs and manage associated risks. Each gate raises risks that may appear at each step of the project. For each Gate, an Implementation Manager is selected and will have the responsibility to ensure proper execution of the process and make sure all modifications requested are relevant. The Gates process was established during the project management Kata, in order to face the increasing complexity of our projects and our drive to keep good practices and eliminate the bad actions to homogenise our process and bring the best service as possible to our client.

At Machinex, we have implemented internal procedures that are adapted to project types. These procedures aim primarily to structure the management of projects, but also to manage the associated risks. Indeed, every procedure acts as a gate to raise risks that may emerge at specific times in the project. Therefore, we have elaborated the Project Management Gates that are represented by the following eleven (11) meetings:

- **Gate 1:** Transfer of information between Sales Department and the project team including the management of commercial risks (Pre-Kick Off)

A meeting is required to transfer all information from the Sales Department to the Project Manager. To do so, multiple subjects are covered during the meeting, starting with the project presentation (project's purpose, goals, context, particularities, etc.), followed by performance criteria including immediate actions to be taken and obviously any risks.

- **Gate 2:** Strategic Planning

With the help of the Delivery Request Questionnaire sent to the client, this process aims to establish a strategic project planning as per fixed critical dates. The strategic planning helps reduce risks particularly associated to the delivery date.

- **Gate 3:** Technical review including technical risk management

This meeting includes all Machinex most experienced and technical people and challenge the solution with the aim of highlighting the remaining technical risks that would have not been highlighted already in gate #1.

- **Gate 4:** Launch of the project (Kick-off)

Before the launch of the project, an internal meeting is required, where the Project Manager explains thoroughly, each important aspect of the project to the rest of the team to create a chemistry with the team.

- **Gate 5:** Layout approval by customer

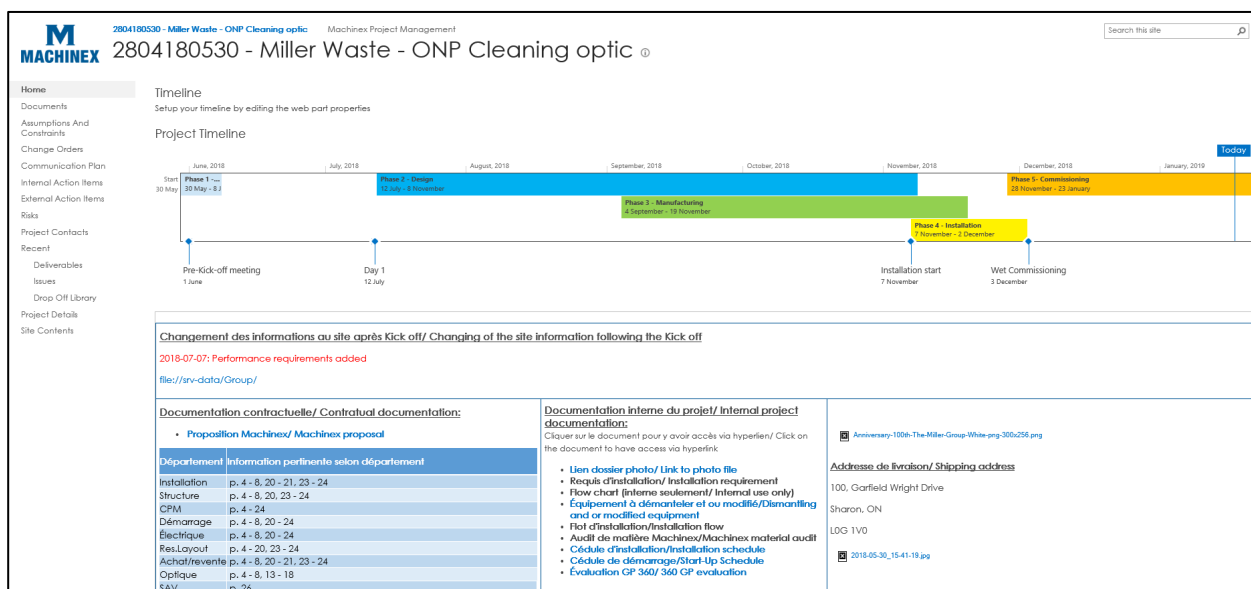
At this stage of the process, the customer approval of the project's general layout including the operating process, security and control system philosophy is required.

- **Gate 6:** Equipment scheduling (first step of interface management for installation)

All interfaces with the Civil contractor will be scheduled, listed and dated at this stage. Then a meeting is required to determine, the installation schedule in relation with the customer. Installation planification starts at this step of the process.

- **Gate 7:** Weekly Internal Meetings

Weekly meeting allowing, (with the help of the project team) discussion of the project's progress, assign "homework" for monitoring purposes, raise potential risks and discuss the project's critical aspects. All items can be followed with the help of the Project's Site (Workbook), where all information related to the project is stored (see image below).



Indeed, every project has its own Workbook as well as its important items follow-up document (Internal Actions Items). This is a very important tool, that facilitates structuring the project and ensures effective follow-up of items raised during the Weekly Internal Meetings.

ID	Actions	Responsible	Who	Recorded Date	Planned Date	Rescheduled Date	Status	Closed Date	Comments	Action Type
1	Goal: clean ONP with optical sorters	...	Charles-Étienne Simard	2018-06-01			Decision			
2	Customer saw our optic at Bluewater and were satisfied by it.	...	Charles-Étienne Simard	2018-06-01			Decision			
3	No performances in the project, but we have to process 7 TPH per optic and 85% purity on fiber (after the optic). Miller know that they won't reach Chinese market quality.	...	Charles-Étienne Simard	2018-06-01			Decision			
4	Dual eject optics: cardboard & OSB up, contaminants (containers, film, metal) down (need metal detector). #2 & #4 and film could be ejected up and sorted on the QC station.	...	François Demers	Charles-Étienne Simard	2018-06-01		Decision			
5	Film capture on each ejection hood of the optics, plus one more capture point on the transfer point (3 hoods in total)	...	François Demers	Christian Roy	2018-06-01	2018-07-13	Closed	2018-07-10	2018-07-10: Film grabber will be used as the 3rd capture point.	
6	QC station to sort containers back in the line, mix fiber back in the line, rejects and film in a bin on a platform. Do we want to add a capture point at the QC station for the film?	...	Jérôme Lemay	2018-06-01	2018-07-13		Closed	2018-07-10	2018-07-10: No capture point at this sorting station	
7	ESA and PSHR by Miller	...	Charles-Étienne Simard	2018-06-01			Decision			
8	Determine who takes care of TSSA. In the proposal, it is Miller, but since we are providing the compressor, it makes more sense to ask the supplier to take care of it.	...	Charles-Étienne Simard	Jérôme Lemay	2018-06-01	2018-07-13	Closed	2018-06-28	2018-06-28: Machinex will take care of the TSSA	
9	Determine where the control panel will be located	...	Patrick Dufosse	Christian Roy	2018-06-01	2018-07-13	Closed	2018-07-10	2018-07-10: Will be located in the sorting room, in front of C-42	
10	See if it is possible to install the three OCC transfer conveyor, bag capture platform and OCC screens shafts during the boiler installation	...	Christian Roy	Jérôme Lemay	2018-06-01	2018-07-13	Closed	2018-07-10	2018-07-10: Possible to install some OCC transfer conveyors and C-1000, but not the OCC screens modifications	
11	Air capture blower not connected to a dust collector. Some small pieces will be projected by the blower. See if it is an issue.	...	François Demers	Jérôme Lemay	2018-06-01	2018-07-13	Closed	2018-07-10	2018-07-10: Not an issue. Will not be worse than the cyclone that they already have.	

External meetings with the customer will indeed take place throughout the complete process of the project. Meeting notes will come out of those meetings with actions & homework agreed with a responsible individual to take care of the task.

➡ **Gate 8: Engineering and Purchasing Department adjusted requirements**

This step in the process is internal to our services. Agreement between the Manufacturing and the Engineering departments to determine delivery dates for each of the Project's work sheets (MFT). This gate also determines the assignment of the items ready for purchase (PPA).

➡ **Gate 9: Internal installation start-up meeting (Final interfaces and validation of the building on site)**

This meeting is scheduled to establish the installation scope of work and the equipment scheduling (including the sector's interrelations validation and the installation schedule).

A final version of the documents prepared for the customer at gate 6 will be released at gate 9.

➔ **Gate 10:** Start-up meeting (Commissioning and start-up meeting)

This meeting is planned to coordinate the detailed and final schedule of the different persons involved in the system start-up to minimize associated risks. The client is involved at this stage of the process.

➔ **Gate 11:** Kick-out Meeting

Meeting to identify what have been the main challenges throughout the project, prioritise some of them and establish necessary actions to make sure it will not happen again on any future projects.

Along the same lines, for each procedure (Gate) an Implementation Manager is selected. This person will have the responsibility to ensure the proper conduct of the process in terms of what is discussed during the meeting or the overall meeting planning (persons invited, meeting planned at the right time in the project, etc.). To do so, the Implementation Manager must be present at all meetings scheduled for the process he is responsible for, and this applies for all projects. Finally, if modifications are to be made to the process, the request will have to be made to the Implementation Manager, who will make sure the requested modifications are relevant and bring a plus-value to the process.

3- RISK COMMITTEE

Even though the Project Management Procedures have been implemented in order to properly manage risks that may emerge during the project, it may happen that the project management team faces critical situations which necessitate quick decisions and immediate actions. To reduce reaction and intervention time for these types of situations, we have established a Risk Committee formed with experienced decisional individuals that together cover many different sectors of the company. The Risk Committee is called when a significant risk is raised and its management exceeds the terms, the expertise, or the authority of the Project Team.

To plan a Risk Committee, the first step will be to fill out the Risk Committee questionnaire (see image on the right). Once filled, the questionnaire will be handed to two members of the Committee for approval. These two members will have the responsibility to decide whether a meeting is necessary. If indeed, a meeting to manage the risk is considered necessary, the meeting will be planned for within the 24 hours following the reception of the approved questionnaire. During the meeting, the items requiring follow-up will be registered in the appropriate space provided in the questionnaire. A follow-up of the items will be done by the Project Manager, and subsequent meetings shall be planned if needed.

Successful Interface Management entails the anticipation of issues or scenarios that can or will impede progress and has measures in place to avoid situations that could negatively impact customer’s projected completion goals and budgets. It is crucial when working with large numbers, along with other stakeholders who are expecting regulated feedback. It is all about controlling risk by actively monitoring dynamic operations.

4- PROJECT MANAGEMENT INTERFACE PLAN

The goal of the **Machinex Project Interface Plan** is to establish an interface management process to manage key interfaces that arise during the planning and execution of the Lexington project. For the project to eliminate waste (time and capital), interfaces must be managed. The interface management process consists of planning, identification, approving, auditing, and closing-out interfaces. Closing out these interfaces is critical to the successful implementation and execution of the Lexington project. Machinex procedure addresses the following:

- Outline the process for successfully coordinating and managing all key interfaces.
- Define the responsibilities for each of the teams involved with the interface requests such that the individuals are accountable to follow up the required actions.
- Define how key interfaces are identified, logged into an interface register, and tracked until completion.
- Logging all key interfaces into an accessible register, and actively keep the interface register up to date.

POTENTIAL RISK QUESTIONNAIRE			
PROJE	DATE	REQUEST	
<i>Please fill out this questionnaire and send it to the GP if you notice a potential risk to the project</i>			
THE RISK IMPACT AT LEAST ONE OF THE FOLLOWING ASPECTS :			
<input type="checkbox"/> Costs	<input type="checkbox"/> Delays	<input type="checkbox"/> Project Closure	<input type="checkbox"/> Normalisation/Legislation
<input type="checkbox"/> Quality	<input type="checkbox"/> Customer Satisfactor	<input type="checkbox"/> System Performance	<input type="checkbox"/> Equipment performance
<input type="checkbox"/> Contract	<input type="checkbox"/> Design	<input type="checkbox"/> Other (precise): _____	
PARTIES INVOLVED			
<input type="checkbox"/> Project Manager	<input type="checkbox"/> Sales Director	<input type="checkbox"/> CPM	<input type="checkbox"/> Technical Advisor
<input type="checkbox"/> CPI / CPE	<input type="checkbox"/> Electrical Quote Responsible	<input type="checkbox"/> Layout Resp.	<input type="checkbox"/> Manufacturing
<input type="checkbox"/> Buy/Resale	<input type="checkbox"/> R&D	<input type="checkbox"/> Start-up	<input type="checkbox"/> Optical
<input type="checkbox"/> Other: (please specify) _____			
RISK DESCRIPTION: _____			
PROJECT MANAGER JUDGEMENT			
<input type="checkbox"/> Call the Risk Committee		<input type="checkbox"/> Unfounded risk	
Project Manger Comments : _____			

MEETING NOTES:			

RISK COMMITTEE (if called):			
Actions	Follow-up?	Responsible	Deadline
	<input type="checkbox"/> yes <input type="checkbox"/> no		
	<input type="checkbox"/> yes <input type="checkbox"/> no		
	<input type="checkbox"/> yes <input type="checkbox"/> no		
	<input type="checkbox"/> yes <input type="checkbox"/> no		
	<input type="checkbox"/> yes <input type="checkbox"/> no		
	<input type="checkbox"/> yes <input type="checkbox"/> no		

- Define the workflow that interface requests will follow throughout their life cycle.
- Establish the process to monitor the status of the interface requests contained within the register and actively make certain that all requests are closed out in a timely manner.
- Implement the system by which the parties coordinate their interface activities.
- Facilitate communications between parties, including conflict resolution.
- Promote clear and consistent communication among the involved project team members for transmitting interface information.

The primary objectives of this procedure and its implementation are as follows:

- Identify the appropriate personnel who will be responsible for each interface request and for resolution of the interface request
- Provide a system which will facilitate the identification of interfaces, and address the specific interface request requirements
- Establish a procedure that promotes efficient management of interface issues from initiation to close out
- Define methods for communication and coordination of interface requests between various parties
- Facilitate clear and frequent communication amongst parties
- Facilitate the agreement of a schedule for interface request resolution and close-out
- Define a means for the control, expediting, and reporting of progress on the transfer of interface requests
- Define processes of assurance that interface requests are effectively identified and managed in the Workbook Management Platform.

5- MACHINEX WORKBOOK

As mentioned previously in Gate 7, a project management platform was developed internally to allow a successful implementation of the project management procedure. This platform is called the Workbook, where all projects have their own file which contains all related information, easily accessible to appointed internal stakeholders. This tool allows every project to be managed in the same level of detail and conduct consistent interventions with all parties involved.

The main page of the Project details the scheduled timeline. Thus, briefly, the Project Manager can know the status of the project and the next steps. The Workbook is an internal management tool, that allows a full breakdown of the contract with links to paragraphs related to each department. Complete transparency is maintained through the Workbook; the information is easily accessible to meet the highest standards of project management. The Workbook is the central piece of the internal project management process.

6- MANAGEMENT ORGANISATION CHART

When the Kata first took place, one important aspect was to define the structure that we would use to manage the different projects. The main factors of a project team were identified and separated into different fields. The Project Manager (PM) is the leader of the project team, which consists of one representative from each

department. For instance, the engineering department is represented by one Mechanical Project Manager (MPM), the electrical department by one Electrical Project Manager (EPM), and so on. The Project Manager ensures that the project team works together to meet the requirements of the project, while maintaining a good communication with the client. A Project Manager can work on multiple projects consisting of different team members. Should issues arise in one project team, the Project Manager can escalate this issue to the corresponding department director for support to resolve the issue. This structure is called a matrix organisation.

7- KPI PROGRESS DASHBOARD

Indicators of the project progress in the Dashboard allows us to monitor the progress for design, fabrication, installation, delivery and others.

The **manufacturing progress** is monitored by the schedule of delivery and the KPI progress dashboard.

The **mechanical & electrical erection progress** is monitored through the management of interfaces and in the project indicator tool shown below. Daily emails are sent from the engineers on site to the project management team on the office to notify the progress of the day and the progress versus project completion on site.



The delivery progress allows our shipping co-ordinator to follow each shipment and track each part. The shipping team uses the dashboard to access to the shipping schedule, which is also used by the installation team. From this schedule, it is possible follow the anticipated shipping sequence, to track the delivery of each piece of equipment and to see what is still to be shipped

Tableau de bord MACHINEX - LIVE

Fichier Outils ?

Liste des projets sélectionnés :

Projets actifs Cédées Machinex Expédition Ingénierie Job Infos MPI-PL MPI-PR Planif Points de contrôle Prévention SAV TOUS

Expéditions de projet Bons d'expédition Suivi des expéditions Stat. Exp. Détail d'expédition (tab) Cédée d'expédition Indicateurs Expédition

Rafraîchir la date des transports Projet (optionnel) : Tous Transports Équipements

De : 2020-11-04 à 2020-11-25 Selon date de départ Afficher les lignes Punctlist seulement

Calendrier Dates livraison Dates expédition

Hrs estimées de chargement
Nb de transport régulier
Nb de conteneur
Prévisions Nb transports

Projet	No Eq	# Equip test	No Lot	No Séq	# Secteur	# Job	MFT	Requis Prod	Date Lean MFT	Date LEAN MEP	FOB	Date Changement	Départ Machinex	Nb Transport	Dim	Arrivée Site	A/R	Livrer chantier	Montage	% Localisé	% Expédié	Expédition Comm	
USA RECYCLE- 50 TPH C&D FREIGHT	1	24	24.000	0		0044594-19-1	_TRSP		2020-10-30			2020-11-04	2020-11-06	0		2020-11-07				0	0	0	
USA RECYCLE- 50 TPH C&D	1	98	98.000	0		0044594-19-1	_TRSP-STD		2020-10-30			2020-11-04	2020-11-06	0.00		2020-11-07				0	0	0	
USA RECYCLE- 50 TPH C&D	1	98	98.010	0		0044594-51-1	HUILE_CHANTI.		2020-10-30			2020-11-04	2020-11-06	0.00		2020-11-07				0	0	0	
USA RECYCLE- 50 TPH C&D	1	98	98.000	0		0044594-20-1	_DOUANES		2020-10-30			2020-11-04	2020-11-06	0.00		2020-11-07				0	0	0	
USA RECYCLE- 50 TPH C&D PUNCH LIST	1	98	98.040	0		0044594-23-1	PUNCHLIST		2020-10-30			2020-11-04	2020-11-06	0.00		2020-11-07				0	0	0	
USA RECYCLE- 50 TPH C&D	1	2	2.000	0		0044594-23-1	_TRSP-STD		2020-10-30			2020-11-04	2020-11-06	1.57		2020-11-09				0	0	0	
USA RECYCLE- 50 TPH C&D SUP-1	1	2	2.020	0		0044594-39-1	SUP-805L		2020-10-30	2020-10-22	2020-11-02	2020-11-04	2020-11-08	0.10		2020-11-09				100	100	100	
USA RECYCLE- 50 TPH C&D ACH-1	1	2	2.040	0		0044594-32-1	ACH-209L		2020-10-30	2020-10-26	2020-10-26	2020-11-04	2020-11-08	0.02		2020-11-09				100	100	100	
USA RECYCLE- 50 TPH C&D PLAS-1	1	2	2.080	1		0044594-34-1	PLAS-1500L		2020-10-30	2020-10-16	2020-10-16	2020-11-04	2020-11-08	1.00		2020-11-09				100	100	100	
USA RECYCLE- 50 TPH C&D C-4	1	2	2.100	1		0044594-5-1	CSRT-1340L		2020-10-30	2020-10-15	2020-10-15	2020-11-04	2020-11-08	0.45	74 3"	2020-11-09			3/3	100	100	100	
USA RECYCLE- 50 TPH C&D	1	4	4.000	0		0044594-23-1	_TRSP-STD		2020-10-30			2020-11-04	2020-11-08	3.90		2020-11-09				0	0	0	
USA RECYCLE- 50 TPH C&D PLAS-2	1	4	4.020	2		0044594-35-1	PLAS-1498L		2020-10-30	2020-10-20	2020-10-30	2020-11-04	2020-11-08	0.20		2020-11-09				100	100	100	
USA RECYCLE- 50 TPH C&D PLA-2	1	4	4.040	2		0044594-27-1	PLA-1498L		2020-10-30	2020-10-20	2020-10-20	2020-11-04	2020-11-08	2.50	56 6"	2020-11-09			6/6	100	100	100	
USA RECYCLE- 50 TPH C&D C-7	1	4	4.060	2		0044594-8-1	CSRT-1343L		2020-10-30	2020-10-28	2020-10-28	2020-11-04	2020-11-08	0.25	56 6"	2020-11-09			3/3	100	100	100	
USA RECYCLE- 50 TPH C&D C-8	1	4	4.080	2		0044594-9-1	CSRT-1344L		2020-10-30	2020-10-22	2020-10-22	2020-11-04	2020-11-08	0.25	56 6"	2020-11-09			2/2	100	100	100	
USA RECYCLE- 50 TPH C&D C-6	1	4	4.100	2		0044594-6-1	CSRT-1341L		2020-10-30	2020-10-16	2020-10-16	2020-11-04	2020-11-08	0.70	102 9"	2020-11-09			5/5	100	100	100	
USA RECYCLE- 50 TPH C&D	1	6	6.000	0		0044594-24-1	_TRSP-STD		2020-10-30			2020-11-04	2020-11-08	1.90		2020-11-11				100	100	100	
USA RECYCLE- 50 TPH C&D CONTROL	1	6	6.020	0		0044594-24-1	PC-900L		2020-11-02			2020-11-05	2020-11-10	0.10		2020-11-11				0	0	0	
USA RECYCLE- 50 TPH C&D CONTROL	0	6	6.025	0		0044594-24-1	PC-900L		2020-11-03			2020-11-05	2020-11-10	0		2020-11-11				0	0	0	
USA RECYCLE- 50 TPH C&D MDS-2	1	6	6.040	2		0044594-37-1	MDS-630L		2020-11-02	2020-10-20	2020-10-20	2020-11-05	2020-11-10	0.20		2020-11-11				100	100	100	
USA RECYCLE- 50 TPH C&D C-6	1	6	6.060	2		0044594-7-1	CSRT-1342L		2020-11-02	2020-10-22	2020-10-26	2020-11-05	2020-11-10	0.20	21 6"	2020-11-11			1/1	100	100	94	
USA RECYCLE- 50 TPH C&D MDS-3	1	6	6.080	3		0044594-31-1	MDS-629L		2020-11-02	2020-10-23	2020-11-03	2020-11-05	2020-11-10	0.45		2020-11-11				100	100	100	
USA RECYCLE- 50 TPH C&D C-14	1	6	6.100	3		0044594-14-1	CSRT-1347L		2020-11-02	2020-10-21	2020-10-22	2020-11-05	2020-11-10	0.06	7 9"	2020-11-11			1/1	100	100	100	
USA RECYCLE- 50 TPH C&D	1	2	2.000	0		0044594-14-1	_TRSP-STD		2020-10-30			2020-11-05	2020-11-10	0.36		2020-11-13				0	0	0	
GFL PEEL- CONV REPL FL SUP-1	1	2	2.020	0		0045331-20-1	SUP-828L		2020-11-05	2020-11-10	2020-11-10	2020-11-10	2020-11-12	0.00		2020-11-13				100	0	0	
GFL PEEL- CONV REPL FL ACH-1	1	2	2.040	0		0045331-17-1	ACH-222L		2020-11-05	2020-11-10	2020-11-10	2020-11-10	2020-11-12	0.00		2020-11-13				33	0	0	
GFL PEEL- CONV REPL FL CONTROLS	1	2	2.060	0		0045331-3-1	PC-908L		2020-11-05	2020-11-05	2020-11-05	2020-11-10	2020-11-12	0.00		2020-11-13				0	0	0	
GFL PEEL- CONV REPL FL C-1205	1	2	2.080	3		0045331-8-1	CSRA-1963L		2020-11-05	2020-11-10	2020-11-10	2020-11-10	2020-11-12	0.10		2020-11-13			1/1	92	0	0	

The assembly column indicates all equipment done and inspected. In the localisation column, you can find what is still in our storage place, and what is ready to be shipped. The shipment percentage column shows us what part is ready and scanned in a packing slip. The shipped percentage column indicates the percentage of equipment already shipped to their destination.

It is also from this schedule that the Shipment Report is printed.

TABLEAU DE BORD MACHINEX - EXPÉDITIONS 2020-11-11 08:51:29

Projet	Départ le	No Job	No Seq	No Equip	No MFT	Job Description	Requis PROD	Dimension	Montage	RAL Projet	RAL Gardes
USA RECYCLE- 50 TPH C&D	2020-11-08	0044594-34-1	2.080	PLAS-1	PLAS-1500L	PLAS-1 PLATE-FORME //	2020-10-30		0/0	RAL5010 BLEU	RAL1037_JAUNE
Seq 1	Part	Description	Date LEAN	Qté	Poids	# Bon	# Camion	# Boite			
1	AST-1500-1	USA RECYCLE **** IDENTIFICATION (6) : B1,B2,D1(2),Z1,Z2 ****	2020-10-16	6.00	1 135	96972	1	2.000-1 // D1(2) 2.080-A // B1(1),B2(1),Z1(1),Z2(1)			
3	STR-000A-0356	ASSEMBLAGE STRUCTURE **** IDENTIFICATION : A & B ****	2020-10-16	2.00	10 340	96972	1	0.000-SOL //A(1) 2.000-1 // B(1)			

This report is used to load trucks before shipping.

The #Bon (coupon) column indicates to the installer on which packing slip he received the equipment. The #Camion (truck) is the shipment number and the #Boite (box) details on which box the shipment number was scanned.

TABLEAU DE BORD MACHINEX - EXPÉDITIONS												2020-11-11 08:51:29	
Projet	Départ le	No Job	No Seq	No Equip	No MFT	Job Description		Requis PROD	Dimension	Montage	RAL Projet	RAL Gardes	
USA RECYCLE- 50 TPH C&D	2020-11-08	0044594-34-1	2.080	PLAS-1	PLAS-1500L	PLAS-1 PLATE-FORME //		2020-10-30		0/0	RAL5010 BLEU	RAL1037_JAUNE	
Seq	Part	Description	Date LEAN	Qté	Poids	# Bon	# Camion	# Boite					
1	AST-1500-1	USA RECYCLE **** IDENTIFICATION (6) : B1,B2,D1(2),Z1,Z2 ****	2020-10-16	6.00	1 135	96972	1	2.000-1 / D1(2) 2.080-A / B1(1),B2(1),Z1(1),Z2(1)					
3	STR-000A-0355	ASSEMBLAGE STRUCTURE **** IDENTIFICATION : A & B ****	2020-10-16	2.00	10 340	96972	1	0.000-SOL / A(1) 2.000-1 / B(1)					

When the equipment is scanned on a packaging slip, an inspection sheet is printed to inspect what has been scanned as loaded on the truck.

Feuille de contrôle des Expéditions

PROJET: ESSEX WINDSOR- C-2 REPL [44580]

DATE DE DÉPART PRÉVUE: 2020-08-24

VOYAGE: _____

BON D'EXPÉDITION: 96 102

VAN: _____

<u>BOÎTES</u>		<u>PILES</u>		<u>SOL / RACK / AUCUNE</u>				
LOT // SEQ		LOT // SEQ		MFT	SEQ	MONTAGE	QTÉ EXP	LETTRE
2.000 // 2		2.060 // A		CCA4-398L	A0	2	1.00	
2.000 // 1				CCA4-398L	A0	5	1.00	
2.000 // 3				CCA4-398L	A0	4	1.00	
				CCA4-398L	A0	3	1.00	
				CCA4-398L	A13		4.00	

8- PROJECT INDICATOR TOOL

Finally, our project indicator tool (*refer to the picture below*) allows our Project Manager to follow the progress of each step of the project. The aim of this tool is to have a global vision on the project's advancement to be able to respond to our client's requests.

This dashboard allows us to monitor the progress of:

- Mechanical Engineering
- Manufacturing
- 3rd party procurement
- Electrical Engineering
- Electrical erection
- Mechanical erection
- Shipping



RESUME OF GATES AND PM FUNCTIONS

The Machinex Project Manager (PM) is responsible for holding interface meetings every 1- 2 week as needed. All key parties should attend. During these meetings:

- The PM will have a copy of the most recent interface register.
- High priority and overdue items will be addressed and discussed to expedite close-out.
- The remaining open items can be discussed for status updates and clarifications.

- Any new interface requests that have not already been logged into the interface register should be entered at this point.

The drawing and the layout are, designed to show interfaces with the building and the positioning of a pit and holes in the walls. These drawings and layouts are typically used in all projects for coordination with Civils contractors.

In addition to the weekly or bi-monthly meetings, there are some important gates that focus on the installation and commissioning of the equipment. During these gates, the interfaces between the Civil Contractor and Machinex are reviewed to ensure they are managed properly. Upstream from the following steps, the Project Manager has regular meetings with clients. Different gates from the Project Management process ensure that all interfaces are managed between Machinex and the Civil Contractor:

Gate #6: The purpose of this gate is to establish the installation sequence for the equipment, while taking into consideration the particularities of the project. At this stage, all preliminary Civils contractors' interfaces are officialised with the client, listed, and dated. This gate is essential, as the main output is the installation sequence, which will dictate the engineering requirements needed to deliver the equipment on time.

Gate #9: As we get closer to the installation, this gate is a recap of gate 6, but with a more in-depth view of the sequence. Since the design is complete at this point, it is the perfect opportunity to review the sequence one last time, to make sure the interfaces are coordinated properly and to make last minute adjustments if needed. During the meeting, details of the officialised interfaces are listed and dated. This step includes a site visit to validate the progress and correctness of building interfaces.

Gate #7: Weekly or bi-monthly meetings held with all key parties to manage the open action items and interface items.

Gate #10: Prior to the end of installation, the start-up technician produces & presents the commissioning schedule for the project. During this meeting, the different requirements for the commissioning are reviewed and the corresponding interfaces with the Client and Civil Contractor are coordinated. At these stages, the client is highly involved, as it concerns the commissioning and start-up of the project. This gate ensures that all parties involved know exactly what they must do and when it needs to be done.

This explanation concerning our main management tools (Gates process and Workbook) complete the overall presentation of Machinex project management tools.

Management of lead times

At Machinex, we have implemented internal procedures that are adapted to project types. These procedures aim primarily to structure the management of projects but also to manage the associated risks. Indeed, every procedure acts as a gate to raise risks that may emerge at specific times in the project. Project Lead Times are tracked and managed throughout all 11 Phases of the project. Risks to Lead Times are managed first by the Project Manager and the Project Team. If the risk needs to be elevated to ensure timely delivery of a project milestone, the Machinex Risk Committee will be summoned to determine the best path forward:

- Maintain on hand inventory of assemblies commonly used to produce equipment
- Vertical integration – the ability to source, manufacture and assemble internally. Suppliers can be vertically integrated, or our business could become more vertically integrated
- Reduce Cycle Times, thus reducing Production Lead Times
- Maintain a robust quality control system
- Maintain proper staffing levels
- Further reduce supplier lead times, with a focus on long lead time components, by sourcing local whenever possible
- Maintain stocking agreements with partnered vendors
- Accurately forecasting, planning, and scheduling for project milestones
- Measure supplier performance and quality, emphasis stable strategic suppliers with a focus on supplier development
- Reduce product and component variation

Communication Media

Machinex engages in regular communications with clients and its supply chain when working on projects ensuring that its services are continually reviewed during all stages of a project; issues are resolved effectively; the client is continually updated on project progress and all deliverables are met. This is achieved using email, fax, post, telephone calls, teleconference, conference meetings and face to face meetings (all as applicable).

Note: all meeting notes, action points including all agreed decisions are detailed and circulated for acceptance and sign off, using the Workbook tool and the meeting note excel document shown above.

Meeting Schedule

These meetings are scheduled within the overall project plan, to ensure that all parties have prior knowledge of a standard agenda (which will reflect the participants involvement and requirements) this approach will ensure effective and informed discussion.

Meeting Specifics

On projects we regularly communicate with our clients through planned reviews such as weekly project management meetings or site meetings. These meetings usually discuss aspects of the project identifying or clarifying potential issues or queries, reporting on progress, receiving client feedback, and discussing other areas such as Health & Safety matters. Meeting minutes are taken with the required action points circulated to both clients and contractors ensuring any issues are resolved efficiently. These meetings are usually conducted face to face or as a teleconference.

Internal Communications

We also produce monthly reports at management level to communicate our progress against the KPIs / specification of the project, which are usually emailed. Ad-hoc (online) face to face meetings are also used to communicate specific aspects of a project and often used in the early stages of the project when discussing deliverables, discussing / developing designs, and finalising paperwork. They can be also used on site when an issue need resolving immediately.

Machinex Project Team / Customer Communication

Project management and continued client communication is a key role on all our projects and to help assist this process we have developed tools to enable us to manage this effectively and efficiently. We use an electronic project workbook on all our projects containing all information on the project including, plans, client contact lists, deliverables, action lists, client communication logs / notes, etc. A project governance chart is also produced for each project identifying the key personnel and roles for both the client and the contractor.

PROCEDURE FOR APPROVAL AT EACH STAGE OF THE INSTALLATION

The installation scope is segregated into 'Working Sectors', i.e. the installation is split into individual zones (sectors). These zones have the specific equipment (to be installed) assigned to them, i.e. structure, standalone equipment etc. in turn the number of projected installation hours (target) required to install / construct each item or piece of equipment within that specific zone is identified.

The installation schedule for the equipment will always be determined by the floor layout of the facility. The simple explanation of this is that the installation will begin at one end or one corner of the building, typically furthest from the access doors. The equipment will arrive on site in a pre-determined order to facilitate this process. The main benefit regarding this approach is the fact that equipment and parts are installed as they arrive, this removes the need for large intermediate (laydown) storage areas within or adjacent to the building, therefore saving time and manpower.

Mechanically, each item of equipment, structure, platform (within its sector), is inspected weekly during the construction phase, by the Site Manager / Site Supervisors. Quality Inspection documentation is completed, stage-by-stage, until full installation sign-off is achieved for that piece of equipment.

Additionally, further inspections are undertaken by the Commissioning Engineers to develop a 'Punch List' (snag list). This 'Punch List' creates a rectification work plan and is executed until final sign-off is approved by the Commissioning Supervisor.

Therefore, the site manager on a daily, weekly, and monthly basis, monitors the estimated, the target and the actual hours and these are all identified and compared to enable constant real-time monitoring of the overall program, actual (point in time) progress and all the associated costs. This process enables any issues to be identified and quantified and therefore resolved at a very early stage.

The site manager will relay the details of progress against program during the regular scheduled meetings with the client and internally via daily email to the project management group. Although this will be an overview, there is nothing to prevent the client from meeting with the site manager outside of these meetings to discuss the program and ongoing progress in more detail.

Progress Metric & reporting: The metric used to monitor the installation progress is the installation hours against progress on site. To report the progress (to customer or for internal purpose) a Gantt chart is provided to express the details in conjunction with the overall % completion against program target.

To ensure the progress of the overall program, the site manager will sign off a completed identified section (zone) of the facility to enable the start-up technicians to start carrying out component testing with this zone. The site manager will sign off that portion of the installation for both mechanical and electrical installation and provide a Quality Control Inspection Sheet, this will include all structures and third-party suppliers' scope within that zone.

Also included within this staged process is the film extraction & dust extraction systems. These can be inspected for installation completeness in stages prior to full testing once the full systems are completed. The compressed air system is also included within this staged approach to installation, sign-off and testing.

The sorting cabins is also fully installed, quality inspected and signed off ahead of the commissioning phase of the projects as these will be fully completed as the sector (zone) in which they are positioned is completed.

This ongoing process enables a punch-list (snag-list) to be prepared (if / as required) and any identified supplementary works carried out, well within the overall timescale. This can then all be progressed prior to any dry run commission phases with the expectation to be completed before the Take-Over.

The obvious benefit of this approach is to minimise this element of work required at the end of the entire installation.

As for the electrical erection, it consists of 6 major tasks:

- Cable tray installation
- Components installation
- Cables installation
- Termination of cables
- Testing
- General inspection

In collaboration with the mechanical installation manager, the electrical installation will begin into Sectors that have been fully installed. Each task will be supervised and inspected by the Machinex electrical installation supervisor on site. Prior to the energization of an LCP (Local Control Panel) a test on the main power will be done.

For the commissioning, the system is also segregated into commissioning "Zone". Each zone can be tested independently of the rest of the system. A zone who is ready to be commissioned is a zone which has passed all the mechanical & electrical installation quality tests mentioned above.

12.2 KEY INDIVIDUALS

Pierre Paré, P.Eng., President & Chief Executive Officer, Industries Machinex Inc.

- President & Chief Executive Officer of Industries Machinex since 2004.
- President of the Machinex Group of Companies since 1995.
- Sales & Marketing Director for the Machinex team from 1989 to 2004.
- Joined Machinex in 1983 as a Project Manager and Sales Representative.
- Earned a bachelor's degree in professional engineering from Laval University in Quebec and a bachelor's degree in business finances from Sherbrooke University.
- Member of the Quebec Order of Professional Engineers (OIQ).

Mr. Paré has overseen many important projects since 1983 and has participated in the technological development of Machinex since he was hired by the Company.

Chris Hawn, Chief Executive Officer, Machinex Technologies Inc.

- Chief Executive Officer of Machinex Technologies Inc. since September 2017
- Executive Vice-President Sales & Business Development from 2016 to 2017
- Machinex North American Sales Manager from 2010 to 2016.
- Vecoplan, LLC Director of Business Development from April 1999 to January 2010.
- Earned a bachelor's degree in business administration from Appalachian State University in 1992.

Mr. Hawn helps broaden sales and business development in the North American market for the company while also overseeing all business growth plans. Chris also coordinates initial project information, concept drawings, and budgetary proposals. Upon approval from the customer, verification of funding, and receipt of accommodating facility details, he brings in the Project Director, and ultimately the Chief Engineer, to oversee the formal drawing and pricing. From the bidding document preparation to the customer's purchase order, Chris coordinates meetings, presentations, and manage the negotiations for the final contract.

Rusty Angel, Eastern Region Sales Manager (USA)

- Eastern Region Sales Manager (USA) since 2017
- Machinex Southeast Territory Sales Manager (USA) from 2011 to 2017.
- Vecoplan, LLC Territory Sales Manager from 2002 to 2011.
- DISA Systems (currently known as Nederman) Territory Sales Manager from 1993 to 2000 and National Sales Manager from 2000 to 2002.

As a Regional Sales Manager for Machinex Technologies, Rusty coordinates initial project information, concept drawings, and budgetary proposals. Upon approval from the customer, verification of funding, and receipt of accommodating facility details, the Sales Manager will bring in the Project Director, and ultimately the Chief Engineer, to oversee the formal drawing and pricing. From the bidding document preparation to the customer's purchase order, the Sales Manager will coordinate meetings, presentations, and manage the negotiations for the final contract.

David Marcouiller, Executive VP Sales Engineering

- Executive Vice-President Sales Engineering since May 2016
- Machinex Project Director from 2007 to 2016.
- Machinex Project Manager from 2004 to 2007.
- Machinex Research & Development Draftsman in 2003.
- Earned a Technical Engineering Diploma from Shawinigan College in 2002.

As the Executive Vice-President Sales Engineering, and with his valuable expertise in sorting design, David ensures all quality standards of the sorting solutions are maintained according to the continuously evolving market needs. David also designs recycling systems to suit the customer's needs and ensures these designs are forwarded through the proper systems and that the finished product satisfies the highest industry standards. From the document preparation to the start-up, he overviews and handles each step of the project realization, such as:

- Realization of the general arrangement (layout).
- Drawing up the proposal (bid document).
- Ensuring all the negotiations and contractual needs.
- Furnishing the information to the Project Manager.
- Dealing with the Research & Development Department for new or special needs of the contract.
- Maintaining the project schedule and keeping it up to date with the customer's needs (with the help of the Project Manager).
- Coordinating the installation timeline.

Brad Goins, Project Director / Sales Engineering

- Machinex Project Director at Sales Engineering since 2012.
- Vecoplan Project Engineer from 1998 to 2012.
- Earned a Mechanical Engineering Assoc. from Davidson County / Guilford Technical College

As a Sales Engineering Project Director, Brad designs the recycling system to suit the customer's needs and ensures these designs are forwarded through the proper systems and that the finished product satisfies the highest industry standards. From the document preparation to the start-up, the Sales Engineering Project Director will overview and handle each step of the project realization, such as:

- Realization of the general arrangement (layout).
- Drawing up the proposal (bid document).
- Ensuring all the negotiations and contractual needs.
- Furnishing the information to the Project Manager.
- Dealing with the Research & Development Department for new or special needs of the contract.
- Maintaining the project schedule and keeping it up to date with the customer's needs (with the help of the Project Manager).
- Coordinating the installation timeline.

François Demers, Senior Project Manager / Technical Advisor at Engineering

- Senior Project Manager at Machinex since 2008 (highly involved in design improvement, knowledge transfer, and the training of Mechanical Project Managers).
- Machinex Sales Engineer from 1999 to 2007 (involved in the design of the recycling systems and also overlooked the installation, start-up, and commissioning phases of his projects in order to achieve the customer's objectives).
- Joined the Machinex team as a part-time Technical Staff employee in 1995 while he was still studying at Sherbrooke University.
- Earned a bachelor's degree in mechanical engineering from Sherbrooke University in 1998.
- Member of the Quebec Order of Professional Engineers (OIQ).

François assures the link between the Sales and Engineering Department and the Mechanical Engineering Department. Once the projects are sold, François becomes the technical point of contact as the Project Manager.

Jérôme Lemay, P.Eng., Project Manager

- Machinex Project Manager since 2011
- Machinex Mechanical Project Manager from 2006 to 2011.
- Project Manager trainee at Alcan -Métal Primaire, Alma, Quebec in 2004 and 2005 and at Teknion Concept, Lévis, Quebec in 2003 (16 months total through a Cooperative Bachelor's Degree Program).
- Earned a bachelor's degree in mechanical engineering from the University of Sherbrooke, Quebec in 2005.
- Member of the Quebec Order of Professional Engineers (OIQ).

As a project manager, Jérôme Lemay is assigned to the project upon award of the contract. He coordinates and manages the project using the labor resources of our engineers, designers, builders, service personnel, and manufacturing resources. He also works with our suppliers to ensure proper material flow for the project.

Due to our location and experience in the recycling industry, Machinex can obtain a wide variety of high quality, industrial material with acceptable delivery schedules. The Project Manager will plan, organize, and coordinate the delivery schedule in every stage of the project and will ensure that the appropriate approval is obtained from the client in due time for the project progression. Once awarded, Jérôme will become your primary point of contact for technical questions.

Karl Paré, Vice-President of Manufacturing Operations / Engineering Department Director

- Vice-President of Manufacturing Operations since 2021
- Engineering Director since 2005.
- Machinex Project Manager from 2000 to 2005 (involved in designing recycling systems and MRFs as well as supervising the complete project process).
- Machinex Technical Draughtsman from 1996 to 2000.
- Earned a Master Certificate in Project Management from both Laval and York Universities in 2009.

As a Professional Technician from Thetford College, he has contributed to the technological advancement and development of the company and has been involved in the realization of many major projects.

Jonathan Fortier, Application's Specialist

- Machinex Application Specialist since 2016
- Machinex Electrical quote & design Manager from 2014 to 2016
- Machinex Start-up Technician from 2009 to 2014
- Machinex Optical Technician from 2007 to 2009
- Technical Diploma in Electrical Engineering, specialization in instrumentation and automation from the Victoriaville College, Quebec in 2002
- Professional Studies Diploma in Electro Mechanic Automation Systems from Vision 2020 Education Establishment in Victoriaville, Quebec in 1996

As an Applications Specialist, Jonathan is a technical advisor for the sales department and helps them to design and quote the electrical controls systems. Jonathan is also an active member and sits on different NWRA ANSI comity that manages the safety of the equipment in Facilities, as well as on the Machinex Projects Safety Comity. Once a project is sold, Jonathan acts as a mentor for the electrical design team to make sure that the controls of the system will meet the customer's expectations and current legislation.

Sébastien Delisle, Health-Safety Regulations Manager

- Machinex Health-Safety Regulations Manager since 2015.
- Machinex Product Improvement Coordinator from 2008 to 2015.
- Earned a Technical Engineering Diploma from Thetford Mines College in 2002.
- CMSE® titled (Certified Machinery Safety Expert), accredited by TÜV NORD, an International Certifier. CMSE® is a globally recognized qualification enabling a 360° approach to machinery safety.
- Masters the regulations and standards subject to North America and overseas, such as CSA, ANSI, ASME, EN ISO and OSHA.
- Serves actively on the ANSI Z245 Drafting Committee, which is specific to the recycling industry.
- Cumulated numerous training to ensure conformity of equipment and systems to "CE" compliance.

As the Health-Safety Regulations Manager, Sebastien assures that the system integrity meets and exceeds the safety requirements. He offers the suitable options to simplify and secure all operations and maintenance tasks to be achieved. Besides working to obtain Combustible Dust Hazardous Atmosphere, he also accompanies the client in the development of appropriate traffic and evacuation routes. From the induction of a project until its delivery, Sebastien supports the teams involved in matter of safety.

Christian Lagacé - Quality Coordinator

- Machinex Quality Department Coordinator since April 2016
- Machinex Quality Department Project Manager from March 2015 to April 2016
- Welding Supervisor for the CWB (Canadian Welding Bureau) in 2015
- Production Manager in the Steel Industry from 2012 to 2014
- Quality Director in an aluminium smelter from 2008 to 2012
- Chief inspector in an aluminium smelter from 2004 to 2008
- Earned a college technical diploma in Industrial electronics with an industrial design option in 2004

As the Quality Department Coordinator, Christian elaborates and maintains the quality process, elaborates the quality criteria, follows up on the member's mandates, coordinates improvements projects in the department and interferes with the non-conformances. Christian also supervises the CWB, creates fabrication procedures, inspects sub-contractor's machining, manages control sheets, and is responsible of the welding methods.

Serge Beaurivage, P.Eng., Customer Service and Technical Support Director

- Machinex Customer Service and Technical Support Director since 2005.
- Foreman and Planner at Quebec Cartier Mining in Mont Wright, QC, from 2003 to 2005.
- Responsible for the Machinex Research & Development Department and the Engineering Department from 2001 to 2003.
- Earned a bachelor's degree in mechanical engineering from ÉTS (École de technologie supérieure)
- University of Quebec, Montreal, in 2001.

As the Customer Service and Technical Support Director at Machinex, Serge schedules, structures, and develops the plans for the After-Sales Service Department, Optical Unit Device Department, Electrical Controls Department, and the Installation Department.

From the installation of the system to the end of the project life cycle, Serge will remain your primary point of contact. He will make sure his team satisfies all your needs and expectations.

Serge can be contacted at (819)-362-3281 or on his mobile at (819)-740-1337.

Daniel R. Hoffmann, Installation Supervisor

- Machinex Recycling Services Installation Supervisor since 2008 in Delta, BC.
- Ermeltek International Services Installation Supervisor from 2003-2008.
- Tebo Mill Installations Service Manager / Millwright from 1999 to 2003.
- Earned his Millwright Certificate from 2004 to 2006 at the BCIT (British Columbia Institute of Technology) in Burnaby, BC.

As the Installation Supervisor, Daniel Hoffman:

- Ensures the quality and completion of a wide variety of projects in the recycling industry.
- Motivates and manages a team of technical support providers.
- Assists clients in defining their goals and negotiates details of the project installation.
- Responsible for scheduling, budget, and other various variables such as local safety authorities and local contractors.
- Works in training service and maintenance personnel at customer's site.
- Has repeatedly completed projects both on time and on budget.

Guy Légaré, Start-Up Supervisor

- Machinex Senior Technician (responsible for the start-up and commissioning of systems and MRF equipment) since 2005.
- Involved in the rigging and installation of equipment at Machinex from 1995 to 2004.
- Joined the Machinex team in 1991 as a welder and equipment installer.
- Has contributed to the technological advancement and development of the enterprise.

A key-support to the continuous development of Machinex equipment. His industry knowledge and vast experience have made him an "expert" in his field.

Dan Ouellet, Start-Up Technician

- Machinex Start-Up Technician since 2012 (responsible for start-up, training, and commissioning of systems and MRF equipment).
- Based in the United States near Boston, Massachusetts.
- In-House Mechanic Deschamps Printing Machine Operator in Salem, Massachusetts from 2009 to 2012.
- Machinex Start-Up Technician in 2008 and 2009 in Plessisville, Quebec.
- Held positions such as Service Manager, Field Service Technician, and Mechanic in other fields of work from 1994 to 2008.
- Certified Forklift Operator, Machine Rigger, Truck Driver, Machine Engineer, Car Mechanic, and is also certified in the transportation of hazardous materials.

On your side from the start-up date until you and your employees are fully trained and independent, Dan will also coordinate punch-lists and any other final adjustments to be made upon equipment start-up.

12.3 EVIDENCE OF STAFF CAPACITY AND SUBCONTRACTING INVOLVEMENT

Machinex is one of the largest recycling equipment providers in North America with providing turnkey recycling facilities throughout North America, Northern Europe, and Australia. Between all Machinex organizations, the company has over 600 employees within different regions of the world. This includes several US employees that help support within different phases of the project phase (sales, installation, start-up, and after-sales service).

At the time of submission, we have not yet determined if the system will be mechanically installed by a Machinex crew or a subcontractor. That will be determined later once the timing of the project has been set and the availability of our own crews has been evaluated. As such, we don't know who that subcontract might be, but we will supply Lexington-Fayette with that information as soon as it is determined.

For the electrical wiring, a local subcontractor will be used. However, that subcontract would be selected later in the project if we are fortunate enough to be selected.

Background

Machinex is a world leader in the industry, developing cutting-edge sorting, waste management and recycling technology. Over the years, our experts have designed and installed over 650 turnkey facilities in partnership with leading MRFs in Canada, the United States, Europe, and Oceania.

In 2020, Machinex celebrated its 50th anniversary and its half century of experience results in the industry. This celebration also included the achievement of the new Technology Hub to better support our high-tech equipment development. Great contributor of the recycling industry development, Machinex is a recognized expert in his field, focused on technical and technological innovation to develop its expertise all around the world. Highly engaged in Real Customer Care Experience, Machinex developed lots of equipment allowing customers to improve the performance of their operations with better automation of sorting techniques and a Real After Sales Service. Currently, the robot driven by artificial intelligence that is more accurate to identify materials for a better product recovery is part of Machinex offer. To resume Machinex is qualified by high performance made by experience results with sorting technologies experts. The company has a vision turned toward the future inspired by its mission statement "Design solutions for a sustainable tomorrow".



Our Mission

Our mission is to create solutions for a more sustainable future. We provide our clients with the best leading-edge recycling technology available. We are committed to the highest quality standards in our design and manufacturing processes. Highly engaged in the customer care process, Machinex ensures quality control from blueprint to assembly and a follow-up of every installation. We offer our clients reliable, innovative recycling solutions at a competitive cost while operating our business in an environmentally responsible manner.

Quality Equipment

All our products are designed and manufactured in-house by skilled craftsmen with extensive experience and unmatched industry knowledge. Our designers and engineers pride themselves on the lasting quality of their workmanship and are there to assist and design equipment or systems to perform according to your expectations. Expertise means understanding the market trends and your concerns to remain competitive. Our field engineers keep in touch with major recycling associations and are in tune with specific market needs. They are ready to design and create your future projects.

The Machinex campus includes 18 buildings where our products are conceived, developed, and manufactured. The new Technology Hub completes those facilities to ensure the development of current and future technology. Since we use only quality materials in our equipment, you are guaranteed reliable components that require minimal maintenance.

Lean Manufacturing

With continuous improvement as our guiding principle and lean manufacturing as a management tool, our team is always working to increase quality while reducing cost. We incorporate automation, advanced machinery, and the latest CAD-CAM manufacturing processes to produce reliable, long-lasting machinery.

Superior Design

Engineers and technicians are proficient with cutting edge 3D drafting stations for comprehensive and accurate plans and drawings. Versatile, creative, and experienced, they have several custom designed installations all around the world. In addition, Machinex has an agile R&D department that can propose innovative solutions to get a subscription. This is a singularity of Machinex, which is reactive thanks to its internal resources to satisfy our clients.

Dedicated Service and Support

In today's Material Recovery Facilities, there are many integral pieces of equipment that determine plant efficiency, recovery rates, and ultimately, return on investment. At the same time, service and support are paramount to overall operating success. In fact, having a single source just a phone call away is critical to ensuring maximum plant uptime. Once your Machinex equipment is installed, our service & support team will be ready to assist you. They are 100% dedicated to optimising your operations and serve you!

13. COST PROJECTIONS

Please refer to Form B – Pricing Worksheet, located in Section 3.

14. PRELIMINARY EMERGENCY SPARE PARTS LIST

On the following pages, a list of 1st and 2nd Emergency Spare Parts are provided. Some of the parts maybe the same as other parts already stocked by the county. During the project management phase, Machinex and the county will work together to identify parts already utilized and will make a game plan for what parts are needed for the new equipment.



1st Emergency Spare Parts List, (Preliminary), LFUCG, Proposal 3425015-0



Equipments	Qty	Part #	Part Description	Unit Price (\$ USD)	Total (\$ USD)
1 ELECTRICAL PARTS	1.00	ELBR-TEL-GV2-10A	MAGNETIC CONTROLLER 10 AMPS	\$140.79	\$140.79
2 ELECTRICAL PARTS	1.00	ELBR-TEL-GV2-14A	MANUAL STARTER 14 AMPS	\$149.29	\$149.29
3 ELECTRICAL PARTS	1.00	ELBR-TEL-GV2-18A	MAGNETIC CONTROLLER 18 AMPS	\$150.99	\$150.99
4 ELECTRICAL PARTS	1.00	ELBR-TEL-GV2-2.5A	MANUAL STARTER 2.5 AMPS	\$114.44	\$114.44
5 ELECTRICAL PARTS	1.00	ELBR-TEL-GV2-25A	MAGNETIC CONTROLLER 25 AMPERES	\$180.74	\$180.74
6 ELECTRICAL PARTS	1.00	ELBR-TEL-GV2-6.3A	MAGNETIC CONTROLLER 6.3 AMPS	\$122.09	\$122.09
7 ELECTRICAL PARTS	1.00	ELBR-TEL-GV2RT-10A	10 AMPS MAGNETIC CONTROLLER	\$150.99	\$150.99
8 ELECTRICAL PARTS	1.00	ELBR-TEL-GV2RT-23A	23 AMP MAGNETIC CONTROLER	\$160.01	\$160.01
9 ELECTRICAL PARTS	1.00	ELBR-TEL-GV3-32A	32 AMPS MANUAL STARTER	\$284.44	\$284.44
10 ELECTRICAL PARTS	1.00	ELBR-TEL-GV3-40A	40 AMP MANUAL STARTER	\$273.39	\$273.39
11 ELECTRICAL PARTS	1.00	ELBR-TEL-GV3-50A	MAGNETIC CONTROLLER 50 AMPERES	\$276.79	\$276.79
12 ELECTRICAL PARTS	1.00	ELBR-TEL-GV3-65A	65 AMP MANUAL STARTER	\$280.19	\$280.19
13 ELECTRICAL PARTS	1.00	ELBR-TEL-GVAE11	AUXILIARY CONTACT	\$36.24	\$36.24
14 ELECTRICAL PARTS	1.00	ELCA-TEL-LADN11	AUXILIARY CONTACT	\$23.49	\$23.49
15 ELECTRICAL PARTS	1.00	ELCA-TEL-LADN40	AUXILIARY CONTACT	\$54.94	\$54.94
16 ELECTRICAL PARTS	1.00	ELCO-TEL-025-3-024	CONTACTOR	\$156.94	\$156.94
17 ELECTRICAL PARTS	1.00	ELCO-TEL-050-3-024	CONTACTOR	\$264.04	\$264.04
18 ELECTRICAL PARTS	1.00	ELCO-TEL-075-3-024	CONTACTOR	\$353.29	\$353.29
19 ELECTRICAL PARTS	1.00	ELCO-TEL-09A-3-024	HEATER CONTACTOR	\$50.69	\$50.69
20 ELECTRICAL PARTS	1.00	ELCO-TEL-250-3-024	CONTACTOR	\$2,263.76	\$2,263.76
21 ELECTRICAL PARTS	1.00	ELES-EMERG-COMPLET	EMERGENCY STOP	\$92.86	\$92.86
22 ELECTRICAL PARTS	2.00	ELFU-020-600-TDE-04	20 AMP FUSE	\$18.39	\$36.78
23 ELECTRICAL PARTS	2.00	ELFU-040-600-000-01	40 AMPS FUSE	\$50.69	\$101.38
24 ELECTRICAL PARTS	2.00	ELFU-060-600-000-03	60 AMPS FUSE	\$51.54	\$103.08
25 ELECTRICAL PARTS	3.00	ELFU-080-600-000-02	80 AMP FUSE	\$59.19	\$177.57
26 ELECTRICAL PARTS	1.00	ELPH-PF-DIF-2M-24V	PHOTOELECTRIC SENSOR	\$624.11	\$624.11
27 ELECTRICAL PARTS	1.00	ELPWS-PX-1-24DC-10A	POWER SUPPLY	\$213.89	\$213.89
28 ELECTRICAL PARTS	1.00	ELPWS-PX-1-24DC-2.5A	POWER SUPPLY	\$166.81	\$166.81
29 ELECTRICAL PARTS	1.00	ELPWS-PX-1-24DC-20	POWER SUPPLY	\$464.31	\$464.31
30 ELECTRICAL PARTS	1.00	ELPWS-PX-1-24DC-5A	POWER SUPPLY	\$130.26	\$130.26
31 ELECTRICAL PARTS	1.00	ELPWS-PX-3-24DC-10A	POWER SUPPLY	\$474.51	\$474.51
32 ELECTRICAL PARTS	1.00	ELRE-MK3P5SDC24	RELAY	\$26.89	\$26.89
33 ELECTRICAL PARTS	1.00	ELRE-TEL-CAD-024DC-1	RELAY	\$89.79	\$89.79
34 ELECTRICAL PARTS	1.00	ELRE-TEL-CAD-024DC-2	RELAY	\$89.79	\$89.79
35 ELECTRICAL PARTS	1.00	ELRE-TEL-CAD-120AC-1	RELAY	\$67.69	\$67.69
36 ELECTRICAL PARTS	1.00	ELRE-TEL-RPM-024DC-1	RELAY 24VDC	\$12.44	\$12.44
37 ELECTRICAL PARTS	1.00	ELRE-TEL-RPM-120AC-1	RELAY 120VAC	\$12.44	\$12.44
38 ELECTRICAL PARTS	1.00	ELRE-TEL-RXM-024DC-1	RELAY	\$47.29	\$47.29
39 ELECTRICAL PARTS	1.00	ELSL2-2POS-CLE-02	KEY SELECTOR SWITCH 2 POSITION	\$49.51	\$49.51



1st Emergency Spare Parts List, (Preliminary), LFUCG, Proposal 3425015-0



Equipments	Qty	Part #	Part Description	Unit Price (\$ USD)	Total (\$ USD)
40 ELECTRICAL PARTS	1.00	ELTSU-TEL-32A	CONTACTOR BASE 32 AMPERES	\$162.89	\$162.89
41 ELECTRICAL PARTS	1.00	ELTSU-TEL-32A-REV-24	REVERSIBLE CONTACTOR BASE	\$460.39	\$460.39
42 ELECTRICAL PARTS	1.00	ELTSU-TEL-ADV-1.4A-24	ADV 24VDC THERMAL RELAY	\$179.04	\$179.04
43 ELECTRICAL PARTS	1.00	ELTSU-TEL-ADV-18A-24	ADV 24VDC THERMAL RELAY	\$179.04	\$179.04
44 ELECTRICAL PARTS	1.00	ELTSU-TEL-ADV-32A-24	ADV 24VDC THERMAL RELAY	\$179.04	\$179.04
45 ELECTRICAL PARTS	1.00	ELTSU-TEL-ADV-5A-24	ADV 24VDC THERMAL RELAY	\$179.04	\$179.04
46 ELECTRICAL PARTS	1.00	ELTSU-TEL-STD-1.4A-24	STD 24VDC THERMAL RELAY	\$179.04	\$179.04
47 ELECTRICAL PARTS	1.00	ELTSU-TEL-STD-18A-24	STD 24VDC THERMAL RELAY	\$140.79	\$140.79
48 ELECTRICAL PARTS	1.00	ELTSU-TEL-STD-32A-24	STD 24VDC THERMAL RELAY	\$130.59	\$130.59
49 ELECTRICAL PARTS	1.00	ELTSU-TEL-STD-5A-24	THERMAL RELAY	\$130.59	\$130.59
50 ELECTRICAL PARTS	1.00	ELVFE-OMR-DV-DNET	DNET COMMUNICATION CARD	\$472.30	\$472.30
51 GENERAL	4.00	BRRHP-F4-115-S-S-1	FLANGE BEARING	\$65.58	\$262.32
52 GENERAL	2.00	BRRHP-F4-207-S-S-1	FLANGE BEARING	\$118.28	\$236.56
53 GENERAL	6.00	BRRHP-F4-215-S-S-1	FLANGE BEARING	\$230.48	\$1,382.88
54 GENERAL	2.00	BRRHP-F4-307-S-S-1	FLANGE BEARING	\$386.03	\$772.06
55 GENERAL	6.00	BRRHP-PB-115-S-S-1	PILLOW BLOCK	\$69.06	\$414.36
56 GENERAL	6.00	BRRHP-PB-207-S-S-1	PILLOW BLOCK	\$116.58	\$699.48
57 GENERAL	6.00	BRRHP-PB-215-S-S-1	PILLOW BLOCK ø2 15/16"	\$233.88	\$1,403.28
58 GENERAL	1.00	BRRHP-PB-307-S-S-1	PILLOW BLOCK	\$442.13	\$442.13
59 GENERAL	1.00	ELVF-OMR-DV-480-3.0	VARIABLE FREQUENCY DRIVE	\$1,487.97	\$1,487.97
60 GENERAL	1.00	ELVF-OMR-DV-480-5.0	VARIABLE FREQUENCY DRIVE	\$1,849.22	\$1,849.22
61 GENERAL	1.00	PRNG-STATOR-2/4-2.0	STATOR FOR 2.0 HP MOTOR	\$828.96	\$828.96
62 GENERAL	1.00	PRNG-STATOR-2/4-3.0	3 HP STATOR	\$1,100.96	\$1,100.96
63 GENERAL	1.00	PRNG-STATOR-2/4-5.0	5 HP STATOR	\$1,257.36	\$1,257.36
64 OPTICAL FEED CONVEYOR	4.00	BRNSK-PB-115-T-B-1	PILLOW BLOCK	\$102.98	\$411.92
65 OPTICAL FEED CONVEYOR	2.00	BRSKF-ADP-HA-001	PILLOW BLOCK ADAPTOR	\$56.31	\$112.62
66 OPTICAL FEED CONVEYOR	1.00	IDRD-500X41-C-2	RETURN IDLER	\$238.13	\$238.13
67 OPTICAL SORTER MACHINEX	1.00	ELFC-RIT-FILTER-3322700	FILTER (6"X6") CONTROL PANEL	\$9.04	\$9.04
68 OPTICAL SORTER MACHINEX	1.00	ELPH-SCH-XUM2APCNM8	PHOTOELECTRIC CELL	\$234.29	\$234.29
69 OPTICAL SORTER MACHINEX	1.00	ELSD-SCH-SFTY-DOOR	SAFETY DOOR SWITCH (MAGNETIC)	\$205.39	\$205.39
70 OPTICAL SORTER MACHINEX	1.00	PRPEM-DOU-R7S2500LG	PAIR OF REFLECTOR SOCKET	\$19.01	\$19.01
71 OPTICAL SORTER MACHINEX	8.00	PRSOM-HAGL-J120-200W	200W HALOGEN GLOBE	\$23.43	\$187.44
72 OPTICAL SORTER MACHINEX	15.00	PRSOM-VALVE-BUSE	PNEUMATIC VALVE	\$118.19	\$1,772.85
73 SLIDERS AND IDLERS	2.00	BECO-MINET-45-60-14M	BELT SPLICE	\$429.38	\$858.76
74 SLIDERS AND IDLERS	2.00	BRRHP-PB-107-S-S-1	PILLOW BLOCK	\$38.46	\$76.92
75 SLIDERS AND IDLERS	1.00	IDLU-DIC-C-2X2106-S	RETURN IDLER	\$113.01	\$113.01
76 SLIDERS AND IDLERS	1.00	IDLU-DIC-C-2X2300-S	RETURN IDLER	\$125.76	\$125.76
77 SLIDERS AND IDLERS	1.00	IDLU-DIC-C-2X3500-S	RETURN IDLER	\$136.81	\$136.81
78 SLIDERS AND IDLERS	1.00	IDLU-DIC-C-2X4700-S	RETURN IDLER	\$197.16	\$197.16



1st Emergency Spare Parts List, (Preliminary), LFUCG, Proposal 3425015-0



Equipments	Qty	Part #	Part Description	Unit Price (\$ USD)	Total (\$ USD)
79 SLIDERS AND IDLERS	6.00	IDLU-PSR-C-5X0508-S	RETURN IDLER	\$80.03	\$480.18
80 SLIDERS AND IDLERS	3.00	IDLU-PSR-C-5X1700-S	RETURN IDLER	\$134.43	\$403.29
81 SLIDERS AND IDLERS	3.00	IDLU-PSR-C-5X2300-S	RETURN IDLER	\$161.63	\$484.89
82 SLIDERS AND IDLERS	3.00	IDLU-PSR-C-5X2900-S	RETURN IDLER	\$187.98	\$563.94
83 SLIDERS AND IDLERS	3.00	IDLU-PSR-C-5X3500-S	CEMA C, 5" DIA. X 35" LG. WITHOUT BRACKET	\$215.18	\$645.54
84 SLIDERS AND IDLERS	3.00	IDLU-PSR-C-5X4700-S	RETURN IDLER	\$279.78	\$839.34
85 SLIDERS AND IDLERS	1.00	IDLU-PSR-D-5X4700-S	RETURN IDLER	\$446.38	\$446.38
86 SLIDERS AND IDLERS	3.00	IDLU-RDI-C-5X3500-S	RETURN IDLER	\$533.08	\$1,599.24
87 SLIDERS AND IDLERS	3.00	IDLU-RDI-C-5X4600-S	RETURN IDLER	\$537.33	\$1,611.99
88 SLIDERS AND IDLERS	10.00	MESC-AC-107	SHAFT COLLAR	\$5.31	\$53.10
89 SLIDERS AND IDLERS	10.00	MESC-AC-115	SHAFT COLLAR	\$11.02	\$110.20
90 SLIDERS AND IDLERS	5.00	WHWH-0800-1400-PH-02	WHEEL 8" DIA. PHENOLIC	\$41.69	\$208.45
91 SLIDERS AND IDLERS	5.00	WHWH-1200-1400-PH-01	WHEEL 12" DIA.	\$103.74	\$518.70
				TOTAL	\$35,663.58



2nd Emergency Spare Parts List, (Preliminary), LFUCG, Proposal 3425015-0



Equipments	Qty	Part #	Part Description	Unit Price (\$ USD)	Total (\$ USD)
92 ELECTRICAL PARTS	1.00	ELSW-OMR-DOOR-D40B-1	SAFETY-DOOR SWITCH	\$328.31	\$328.31
93 ELECTRICAL PARTS	1.00	ELSW-SFTY-ROPE-30M	SAFETY PULL CORD KIT	\$397.49	\$397.49
94 ELECTRICAL PARTS	1.00	ELSW-SFTY-TENDER-01	SAFETY PULL CORD TENSIONER	\$128.56	\$128.56
95 OPTICAL FEED CONVEYOR	1.00	BECO-M43TBB-180-47P5	BELT 47"	\$6,953.21	\$6,953.21
96 OPTICAL FEED CONVEYOR	1.00	CSO-003D-12	BLADE FOR SCRAPER	\$76.46	\$76.46
97 OPTICAL FEED CONVEYOR	1.00	CSO2-009D-05	TAIL PULLEY FOR CSO 1200MM	\$3,740.54	\$3,740.54
98 OPTICAL FEED CONVEYOR	1.00	CSO2-012D-03	HEAD PULLEY FOR CSO 1200MM	\$3,787.29	\$3,787.29
99 OPTICAL SORTER MACHINEX	1.00	ELIN-OMG-RTD-PT100	TEMPERATURE SENSOR	\$88.94	\$88.94
100 OPTICAL SORTER MACHINEX	1.00	ELIN-SCH-SONDE-XMLG010D2	PRESSURE SENSOR, 10BAR, 4-20MA	\$349.04	\$349.04
101 OPTICAL SORTER MACHINEX	1.00	PNVA-2VF08P-24VDC	AIR 24VDC N.C. SOLENOID VALVE	\$160.78	\$160.78
102 OPTICAL SORTER MACHINEX	1.00	PRSOM-CAM-ALIM	CAMERA POWER SUPPLY	\$187.89	\$187.89
103 OPTICAL SORTER MACHINEX	1.00	PRSOM-PNEU-REG-08-01	PRESSURE REGULATOR 1/2 NPT	\$135.36	\$135.36
104 OPTICAL SORTER MACHINEX	1.00	PRSOM-PNEU-REG-108-01	PRESSURE REGULATOR 1 1/2 NPT	\$525.34	\$525.34
105 SLIDERS AND IDLERS	8.00	BECO-MINET-45-60-14M	BELT SPLICE	\$429.38	\$3,435.04
106 SLIDERS AND IDLERS	20.00	BECO-R203BB-220-2401	BELT 24"	\$24.78	\$495.60
107 SLIDERS AND IDLERS	20.00	BECO-R303BB-330-3001	BELT 30"	\$34.98	\$699.60
108 SLIDERS AND IDLERS	20.00	BECO-R303BB-330-3601	BELT 36"	\$49.43	\$988.60
109 SLIDERS AND IDLERS	20.00	BECO-R303BB-330-4801	BELT 48"	\$52.83	\$1,056.60

TOTAL \$23,534.65

15. EXPERIENCE & QUALIFICATIONS

In section 12.2 Key Individuals, you will find a list of key personnel that will have hands on this project through different phases of the process. The key individuals have years of experience on all types of projects within the Waste & Recycling industry. These projects can consist of some of Machinex Technologies higher profile projects which are listed within the Project Reference section of this proposal.

Machinex is an industry leader who has designed, manufactured, installed, and started up many sorting systems for single and dual stream recycling facilities over the last 50 plus years. If selecting Machinex, Lexington-Fayette will not only be selecting a cutting-edge partner but a proven supplier within the Waste & Recycling industry.

One unique benefit to doing business with Machinex versus other equipment suppliers is that our business structure aligns all manufacturing within a single business unit. Conveyors, steelwork, screens, optical sorters, robots, balers, eddy currents, glass cleaning equipment, compactors and controls all fall under one umbrella. This harmonizes our team's approach from the initial contact all the way through to the start-up, optimization and testing of the equipment and even into the after sales and service support. All company eyes and mindset are focused on a common goal to produce an exceptional customer experience. Our corporate tag line is *Experience Results* for a reason.

It is also worth noting that Machinex has completed several successful projects for Lexington-Fayette over the last 15+ years. With the partnership between the county and Machinex over the years, the county is currently operating a lot of Machinex equipment within the current facility. Having a single contact for equipment/service for most of the processing equipment will help daily operation be more efficient in keeping the processing system up and running.

Successful Past Project Completed with Lexington-Fayette	
Project Description	Timeframe
Complete MRF Upgrade	2008
Eddy Current Upgrade	2011
OCC Storage & Drum Feeder Upgrade	2011
Screen Replacement & Container Optic Replacement Upgrade	2021

Recent Successful Projects

To add further about recent experiences for high volume MRFs with cutting-edge technologies, Machinex has brought online several high technology MRFs over the last few years. Below is a list of some of these MRFs which include similar equipment that will be used within this upgrade.

We would encourage Lexington-Fayette to reach out and visit one or more of these facilities to understand what Machinex has to offer in MRF design.

High Technology Projects (Completed within the past 5 years)			
PROJECT NAME:	RUMPKE JOYCE	RECOLOGY SANTA ROSA	CASELLA CHARLESTOWN
Project Location & Address	Columbus, OH 1178 Joyce Avenue	Santa Rosa, CA 2417 Standish Avenue	Charlestown, MA 24 Bunker Hill Industrial Park
Customer Name	Rumpke Recycling	Recology	Casella Recycling LLC
Customer Contact Info	Larry Ochs Larry.ochs@rumpke.com Cell: 513-383-8647	Ed Farewell efarewell@recology.com Cell: 707-695-2726	Austin McKnight Austin.McKnight@casella.com Cell: 508-887-0559
Summary of Work Performed	Completely new 60 TPH MRF for Residential Single Stream	Completely new 50 TPH MRF for Residential Single Stream	Completely new 50 TPH MRF for Residential Single Stream
Number of Optical Sorters	19 Optical Sorters (A.I. Technology for Plastics & UBC Sorting)	7 Optical Sorters (Fibers & Containers)	7 Optical Sorters (Fibers & Containers)

16. AFFIRM

Machinex has done business with LFUCG many times over the years. The most recent substantial upgrade to the system was awarded to Machinex in 2021 and so we are quite confident that we comply with the LFUCG procurement policies. However, if there have been changes to the policies since 2021, please let us know what those changes are, and we will be more than happy to evaluate them.

With regards to the SWIFR Grant requirements (BABA), Machinex is a Canadian company and, therefore, does not comply with BABA. As stated in our Executive Summary in Section 2 above (page 5), we feel that an exception letter would be in the best interest to LFUCG for the following reasons:

1. Because this is not an entirely new system from scratch, but an upgrade to an already-existing system, it is in the County's best interest to stick with the existing equipment supplier for ease of integration, especially on the controls side. Overall system performance is also easier to guarantee with a single supplier due to material presentation from one machine to another, controls logic and precise feeding to each piece of equipment. (No finger pointing!)
2. If PMI (Preventive Maintenance Intervals) are required for the equipment, those visits are simplified since one vendor can provide the PMI's for all optical sorters. If a different manufacturer is selected, those PMI visits will need to be coordinated and executed by separate companies.
3. Critical parts on the optical sorters such as lighting, valves, etc. will be compatible with the existing equipment. If a different supplier is chosen, that will not be the case.
4. Maintenance access into the Machinex HySpec® optics has been a significant benefit to LFUCG...a feature that most other optical sorters do not have.
5. Project management and installation coordination will be much simpler and less risky with Machinex because the existing equipment is ours. We have 3D drawings of the entire facility which contains critical details and dimensions of the areas around the optic as well as on the last-chance line where the robot will be placed.
6. Based on our experience with past projects, if Lexington purchases this upgrade from another supplier, that supplier would need to contract with Machinex for the integration on the controls side. **Those fees could range in the \$50,000 to \$100,000 range and would include project management and programming as needed.**

17. REFERENCES

Please refer to Form A – Reference Worksheet, located in Section 3.

18. LIMITED SCOPE OF SUPPLY

Within the hereinafter listed tables, additional information related to the limited scope of supply will determine which party is responsible for each of the listed items. Those items relative but not limited to the work, the services, the associated equipment, the time and material, and other miscellaneous items commonly found during the realization of a typical project contracted with Machinex Technologies Inc.

- Price reflects the use of non-union labor for equipment installation (Machinex Technologies Inc. crew). We reserve the right to modify pricing should the use of union labor be required.
- Machinex Technologies Inc. request to be included as named insured to the Buyer’s Builder’s Risk Insurance, while on site performing installation, start-up, commissioning, and punch-list as specified within our term and conditions.
- If a non-applicable scope becomes relevant for the project, it will be assigned to Lexington Fayette Urban County Government by default.

Mechanical	Machinex Technologies Inc.	Lexington Fayette Urban County Government	Not applicable
All necessary tools for the installation crew	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All necessary labor and travel expenses to install all the listed equipment in this proposal.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Forklift, Crane and Scissors lift or other lifting equipment needed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Touch-up	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Any refurbishing or new components on existing equipment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dismantling of the existing equipment. Dismantling to be performed in largest pieces possible for faster dismantling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Any general cleaning of the area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Loading dismantled equipment on trucks & disposal of used equipment, if any.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Access to facilities for Machinex Technologies Inc. employee (washroom and break room)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Waste removal from site after and/or during installation. It also involves bin or containers plus disposal fees to remove waste from site.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any unexpected issues will be corrected in a timely fashion by the installation crew always in contact with the project manager.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Any unexpected issues resulting of building or other work not included will be managed by all parties involved including Machinex under a change order agreement and additional charges may apply.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Building	Machinex Technologies Inc.	Lexington Fayette Urban County Government	Not applicable
Any building modifications as such but not limited to: building extension, pits, wall openings, ceiling and trusses.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any fire protection system (Sprinklers) neither in the building nor any additional sprinklers underneath the proposed equipment (if required).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any pit work (new or existing to be filled)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any enclosure or cabin for sorters	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any compressor room or control room work	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any concrete blocks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete slab calculations, modifications if needed (in time, equipment loads would be provided)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any dust collection/suppression system for the equipment or the building. It also excludes all dust collection/suppression system supporting structure, or hoods to our equipment.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Electrical Wiring	Machinex Technologies Inc.	Lexington Fayette Urban County Government	Not applicable
Infeed wiring: Bringing or removing main power from the electrical room / switchgear to new Machinex Technologies Inc. control panels (460/3/60): LCP's Optical Units, Air Compressors, Balers, Compactors, Shredders, or any other control panel. Machinex Technologies Inc. will advise on the location & the level of each load drops required once project is awarded.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Switchgear update: Any modification to the existing switchgear for the additional load.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Factor Correction/Compensation system	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RAMS (Risk assessment method statement)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Harmonic Correction/compensation system	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Field wiring: Bringing power and control wiring (MC (Metal Clad) Cable) from control panels to each field devices (Motor, E-Stop, Photocell, etc.) that will meet local codes.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local Motor Disconnect for new Motor added	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical installation guidelines, support and quality control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dismantling wiring from equipment being removed to existing control panel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light and emergency lighting under the platform	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Light and emergency lighting in maintenance area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any addition/modification of maintenance outlet	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any modification to the fire alarm system	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Internet connection to the main Control Panel and other stand-alone equipment panel if required. Internet speed connection and bandwidth to be specified over the course of the project. Internet requirement details can be provided upon request.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ethernet connection from main Machinex control panel to Machinex provided equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Electrical Control	Machinex Technologies Inc.	Lexington Fayette Urban County Government	Not applicable
New Control Panel: for controlling newly supplied equipment. New Control Panel will comply with local regulation. See Operation Philosophy section for more details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical control drawing for newly supplied equipment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Any new field devices: E-Stop, Safety door switch, Photocell, Trapped key, Emergency-Stop pull cord, Time delay pull cord, limit switch, zero-speed switch, push button station, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modification of existing Control Panels: Integration/ Interconnection with new Machinex Technologies Inc. control panel, including but not limited to: PLC, HMI, Machine Safety, Electrical Drawing, Scada, mobile device, etc. It is Machinex Technologies Inc. duty to advise the customer that is control might not achieve today's safety standards and requirement and propose a solution. Under the OSHA law, the employers have a responsibility to provide a safe workplace with standards, rules and regulations.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Upgrading safety performance for existing equipment or control panel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any control upgrade for the existing control panel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Replacing defective parts in existing control system if required	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Integration / interlock with existing system control panels → Modification to the hardware of the existing system control panels → Modification of the existing PLC / program / HMI	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any modification/addition of video system (CCTV)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any furniture for the control room (computer/furniture)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any complete Lock-out/Tag-out procedure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any Arc Flash Study	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Startup, Commissioning and Testing	Machinex Technologies Inc.	Lexington Fayette Urban County Government	Not applicable
Start-up	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Labor costs associated with cleaning and maintenance of plant during commissioning testing period. These tasks need to be done by the Employer which is part of the essential operational learning curve.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Supply of sufficient baling wire and other consumables (fuel, oil, lubricants, water, chemical, etc.) items throughout the commissioning testing period. It is the Employer’s responsibility to forecast and order a sufficient amount of in-feed material and any necessary consumables. Machinex Technologies Inc. could however bring on-site some consumables to avoid any emergency situations.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any fee for the independent testing agency.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Miscellaneous	Machinex Technologies Inc.	Lexington Fayette Urban County Government	Not applicable
Any rolling stock equipment for MRF operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any roll-off containers or bins of any kind	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any security fences on floor during installation or after installation for guarding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
conveyors Lifelines	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulic Oil	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Compressor & Piping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Any fee for the Independent CE, UKCA for specific marking audit inspection.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pre-Start Health & Safety Review	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any local Electrical Inspection fees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any local pressure vessel inspection fees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Builder's risk insurance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any as build drawings after installation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any cleaning of equipment after installation (snow, mud)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Local Environmental Protection Agency (EPA) permits, i.e. EPA & Planning and/or construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Building permits (if applicable)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Seismic engineering & structure design approval: <ul style="list-style-type: none"> In-house engineer calculations using specialized structure design software, generic seismic data according to site location. 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seismic engineering & structure design approval: <ul style="list-style-type: none"> Validation and approval of Machinex calculations by a local authorized professional engineer. Drawings stamping and seismic engineering calculations by a local authorized professional engineer. Any tests on site to validate seismic engineering calculations. 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stamped structural drawings by a local professional engineer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RAMS (Risk assessment method statement) for installation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Maintenance manuals (Electronic / Online), equipment signage & HMI in French or English	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The provision of all necessary safety equipment (fire blanket, eyes washer station, extinguishers, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

19. CLARIFICATIONS

19.1 ADMINISTRATIVE CLARIFICATIONS

MWDBE Participating Goals

Machinex Technologies will solicit bids from subcontractors for certain aspects of the work (rigging equipment, electrical wiring) and encourage minority, women-owned and veteran-owned businesses to participate in those opportunities if awarded the project.

Machinex Technologies Inc. officially requests a list of certified small, DBE, MBE, WBE, VOSB and/or SDVOSB subcontractors or suppliers from LFUCG.

Equal Employment Opportunity Act

Machinex always promotes equal employment for all qualified persons. Due to the nature itself of the work scope, and in order to minimize shutdown impact, Machinex intends to accomplish all tasks related to the project by its own force. In other words, the subcontractor selection is always done for the own good of our clients and their projects.

Please find our Equal Employment Access Policy at the end of this section.

MWDBE & Veteran Participation Goals

Again, due to the nature of the work, the entire value of the work is related to specialized work that will be performed by our own force. Regardless the effort being gathered to respect the 10% it would be unachievable for our company to meet these expectations. However, Machinex is a very open-minded company and never discriminate any candidate within our own organization at hiring process or at any other time.

Affirmative Action Plan

When it is feasible, it is one of Machinex business value to provide work to local force. Hence, our Affirmative Action Plan for the Lexington-Fayette Urban County is based on the fact that we expect to hire a local MWDBE & VOSB subcontractors for the field wiring of the project. This statement represents an engagement of approximately 3% of the total value of the project. Nevertheless, if local subcontractors do not achieve Machinex's quality standards, Machinex may decide to accomplish all tasks related to the project by its own force. In other words, the subcontractor selection is always done for the own good of our clients and their projects.

Taxes

Based on past project with the county which have been tax exempt, Machinex has not included any local taxes for this project. If the county is not tax exempt for this project, taxes will need to be added to the overall quoted amount.

Contract Language

Machinex and LFUCG have worked on other projects and signed contracts together as recently as 2021. Our preference would be to revert to contract language already agreed to by both parties and then discuss any potential updates needed if we are fortunate enough to be selected.



EQUAL EMPLOYMENT ACCESS POLICY

The below stated policy is to inform you on the employer's position concerning the equal employment opportunity.

Statement of the Policy

Machinex policy is to offer an equal employment access to all the candidates and employees exempt of any prejudice of racial, skin color, religious, sex, nationality, age, handicap, marital and military status or any other category under the protection of the federal, provincial and local laws.

The implementation of this commitment applies to all aspects of the business relation in the workplace such as: recruiting, hiring, remuneration, employee benefits, promotions, transfers, disciplinary measures, dismissal, redundancy, choice of training and courses for the employee's development.

Machinex is committing to offer an environment free of harassment, discrimination or any retaliation based on the above mentioned items. Likewise, it is also the employee's responsibility to ensure that this policy is applied on a daily basis. Machinex will not tolerate under any circumstances any type of illegal harassment, discrimination or any retaliation in the workplace. In the event that someone does not respect this policy, he or she will be held responsible and the Board of Directors will have to apply the appropriated disciplinary measures.

This policy is also valid for all branches of Machinex, whether they are located in Canada, United States or Europe.

Effective as of March 30th, 2012

20. TERMS AND CONDITIONS OF SALE

All products shall be supplied by Machinex Technologies Inc. and accepted by the buyer in accordance with the following Terms and Conditions of Sale:

PRICES

Our proposal for the technical equipment is valid for 5 business days.

Prices are subject to change after that period. Clerical and stenographic errors are subject to correction.

Note: Actual fluctuation in steel cost, components shortage and currency exchange may cause price increase in short term on some equipment. Final review of the proposal will be completed at time of final design

Our prices exclude payment of all taxes, if applicable.

TERMS OF PAYMENT

Below are the agreed upon payment terms for the major upgrade in 2021. Because of the duration of the project Machinex is open to adjusting these payment terms to help the accounting process.

- 10% With Order
- 35% At general layout approval
- 10% Prior to Shipment
- 25% Upon Last Equipment Arrival on Site
- 15% Upon Substantial Completion of Installation
- 5% Upon Customer Approval

NOTES

Machinex Technologies Inc. will remain the owner of all the supplied equipment (or any part or portion thereof) until final and complete payment. The buyer shall do all things necessary to perfect and maintain such right and title to Machinex Technologies Inc..

In the case where the buyer would not respect the terms of payment and that Machinex Technologies Inc. would have to take back the equipment, the buyer accepts that Machinex Technologies Inc. will keep, as compensation, all sums already paid by the buyer.

INFORMATION

We have assumed that the customer, without any delay, will give Machinex Technologies Inc. information about all circumstances that may have an effect on the time schedule.

INSTALLATION

The installation is included in the price

FREIGHT

The freight is included in the price

D.D.P (Incoterms 2020): Lexington, KY

**Any special freight requirements for specific roads or thaw periods is subjected to a price review.

WARRANTY

All new equipment is covered with a warranty of 12 months (2200 hours) whichever comes first against manufacturer's equipment defaults (material & labor) while in normal use.

The warranty period starts from the date of delivery

The warranty will lapse if the equipment is repaired or altered by personnel that has not been authorized by Machinex Technologies Inc. to carry out repairs, or if operation and maintenance instructions for the equipment have not been followed and approved.

Machinex Technologies Inc. or anyone having participated to the delivery or the installation of the equipment cannot be held responsible for loss or damages of any kind, or from any cause, to any person or property of any person, or for loss of revenue or profit, or for any other special, incidental or consequential damages.

Any parts or equipment which Machinex Technologies Inc. supplies but does not manufacture shall be subject only to the warranties of Machinex Technologies Inc. vendor's to the extent Machinex Technologies Inc. can enforce such warranties.

The warranty covers replacement parts and related labor, for parts over two thousand (\$2000) dollars, when approved by the seller's after sale service responsible, and excludes non-approved labor, and/or consequential damages. The seller's after sale service representative might authorize parts replacement for plant operation convenience, but final approval for warranty coverage will be determined and confirmed after defective parts inspection.

This warranty does not cover expendable parts, maintenance (alignment, adjustments etc.), wear or impact on Machinex Technologies Inc. products, including but not limited to, lubrication grease, oils, hydraulic connectors, gaskets and seals and any other items that may show evidence of negligence use or overloading, abuse, accident, improper maintenance, storage, improper use or unauthorized alterations.

Buyer shall notify Machinex Technologies Inc. in writing within fifteen (15) days of discovery, within the warranty period, of any alleged defect and permit Machinex Technologies Inc. and/or its representatives to make such investigation, examination and tests deemed appropriate. Upon request from Machinex Technologies Inc., the buyer shall return the alleged defective product to Machinex Technologies Inc. factory for examination and testing. If Machinex Technologies Inc. determines that the product is defective, and provided that the warranty of quality applies, Machinex Technologies Inc. will either repair or replace such product with a similar item which Machinex Technologies Inc. manufactures or supplies (F.O.B. Machinex Technologies Inc.'s factory) or will allow buyer credit for an amount equal to the one invoiced for the said product. The

replacement, repair or development of a defective part shall not give rise to any extension of the terms initially fixed for the warranty period.

Any action for breach of warranty or other action under this agreement must be commenced within one (1) year after such cause of action arises.

In regard to equipment that is sold as "used" and/or "as is", if applicable, Machinex Technologies Inc. declines all warranties, whether expressed or implied, and assumes no responsibility nor authorizes any person to assume any liability on its behalf in regard to the sale of said equipment.

If Machinex Technologies Inc. is not integrating the equipment, new or used, Machinex Technologies Inc. declines any responsibility regarding, but not limited to, security related to such equipment. Since the buyer is responsible for the integration of this equipment, the Buyer has the responsibility to ensure compliance with regulations. The Buyer is entirely responsible for the compliance with regulation standards, and the security of such equipment during engineering, risk assessment, installation, operation, maintenance, etc.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS.

INSURANCE

The Owner (customer) is responsible for the insurance of the equipment after arrival on site, as well as during unloading from trucks or containers. All other insurance for the installation period is the customer's responsibility.

The Owner shall obtain and maintain Builder's Risk Property Insurance including Work and Products, upon the entire Project for the full replacement cost and including Sales Taxes at the time of loss. This insurance shall include as named insured the Owner, Contractor, and Subcontractors. The policy shall insure against direct risk of physical loss or damage including flood or other water damage, earthquake, act of terrorism, transit, off premises storage, boiler & machinery. The coverage shall be maintained continuously until 10 Days after the date of the final certificate for payment (or after the date of start-up testing and commissioning). In case of loss, the Owner is responsible for the insurance deductibles. The maximum deductible for all risk perils is \$10,000 except flood and earthquake, which shall be \$25,000 and \$100,000 respectively, in this contract currency.

Until the Purchase Price has been paid in full, the Owner shall have the obligation to maintain all the Equipment sold and delivered properly insured against theft and loss or damage by fire or other cause with a reputable and solvent insurance company, and to provide the Vendor with the evidence of such insurance coverage. Such policy shall name the Vendor as loss payee. In the event of a theft, loss or damage to the Equipment sold before the Purchase Price has been paid in full, the Vendor shall have the right to collect any insurance proceeds that may be payable, up to the extent of its interest.

Evidence of coverage as shown in a certificate of Insurance is to be presented to Machinex Technologies Inc. before beginning of work. In addition, the policy or policies will have to be endorsed with an

undertaking by the Insurer to provide Machinex Technologies Inc. with not less than Thirty (30) days advance written notice of cancellation, change or amendment restricting coverage.

DELIVERY

Deliveries are scheduled with reception of a purchase order and down payment, clarification of required technical information, resolution of commercial issues, and customer approval of drawings when required. The delivery schedule is based upon the conditions at the time of proposal but is not guaranteed. In the event where the customer must delay the equipment delivery, storage fees may apply.

Machinex Technologies Inc. shall not be liable for delays in delivery or failure to manufacture due to force majeure or causes beyond its reasonable control such as Acts of God, acts or omissions of the buyer, acts or omissions of civil or military authority, priorities, fire, strikes, floods, epidemics, quarantines, restrictions, riots, war, acts of terrorism, delays in transportation, transportation vehicle/vessel shortages and inability to perform due to inability to obtain necessary labor, materials or manufacturing facilities. In the event of any delay such as above described, the date of delivery shall be extended for a period equal to the time lost by such delay.

Without limiting the generality of the terms used in the paragraph above, the Vendor shall not be liable for any failure to deliver if the failure is caused by an event of Force Majeure. In those circumstances, the delivery date shall automatically be extended for a period equivalent to the delay caused by the Force Majeure event.

However, should such delay be caused by acts or omission of the buyer, new delivery dates shall be established with respect of Machinex Technologies Inc.'s order book and other prior commitments.

The Owner shall do whatever is required in order to allow the Vendor to have free access to the Facility for the purpose of installing the Equipment sold in the Facility. The Owner shall promptly notify Vendor of all circumstances that may have an effect on the schedule and/or the price of the project.

During the process of completing the Vendor's Scope of Work, should the Vendor encounter or be notified of conditions outside of their control, it is Vendor's responsibility to provide Written Notification to Owner of any possible delays or extended costs to the Owner. These conditions could include a) any physical condition on the Site which is affecting Vendor's ability to deliver or complete the work on schedule, or b) any Supply Chain variation condition (such as the electronic / electrical components shortage) which is significantly affecting Vendor's ability to manufacture, deliver, or install the goods at the contracted price and/or and the planned time.

Written notification from Vendor to Owner shall include the following information: a) condition encountered, b) steps the Vendor is taking or proposing to overcome condition, and c) estimates of the cost and/or delay effect on the Scope of Work that the Vendor will incur.

CANCELLATION

No order may be canceled by the buyer except upon written notice to Machinex Technologies Inc. and upon payment to Machinex Technologies Inc. of all costs incurred by it arising out of, or in connection with the order, determined on a basis consistently observed by Machinex Technologies Inc. and in accordance with sound accounting principles. Machinex Technologies Inc. shall have the right to cancel any order or to refuse to deliver or to delay shipment in the event buyer fails to submit payments when due or perform any other obligations of buyer.

SPECIAL CLAUSE

Machinex Technologies Inc. reserves the possibility to make any modifications or adjustments to the design or equipment shown on drawing MR-2444A-1 REV.4. Although the layout will remain the same, any adjustments such as but not limited to: the horsepower of motors, conveyor frame, conveyor type, safety features or others that can improve or standardize the equipment shown on the previously mentioned drawing and specification detail is under Machinex Technologies Inc. discretion.

In a circumstance where the buyer purchases, in whole or in part, an equipment that is to be utilized in this project, directly or using a third party, from another manufacturer than Machinex Technologies Inc. the buyer is responsible for all costs as well as the management related to the equipment's integration, unless otherwise specified in this proposal. These costs may include, but are not limited to, the items listed in the section "Limited Scope of Supply" such as: delivery charges and unloading, insurances, warranties, performance guarantees, integration, mechanical and electrical installation (wiring and controls), civil work (building, permits, safety, risk assessments and environmental standards), start-up, testing and any other cost related to these including redoing these if necessary.

In the case where Machinex Technologies Inc. commits to such equipment's integration, certain information will be required throughout the project. Dates will be assigned by Machinex Technologies Inc. to specify when such information needs to be provided by the buyer and it will remain under the buyer's responsibility and management. If such information is not supplied within the expected timeline, additional costs will be charged to the buyer.

Whether the equipment is being integrated by the buyer or Machinex Technologies Inc., any delays and additional costs in the project that are related to that equipment such as but not limited to: communication with supplier to validate equipment integration protocol, communication and control protocol, performances and mechanical / physical equipment integration are solely the responsibility of the buyer. Any additional cost, losses, direct and indirect liabilities related to these delays will be at the Buyer's expense.

MODIFICATIONS

No waivers or modification of any of the foregoing Terms and Conditions of Sale shall be valid unless made in writing and signed by both parties. The failure of Machinex Technologies Inc. to enforce any right it possesses under the foregoing Terms and Conditions of Sale shall not constitute a waiver thereof or establish a custom. In the event any Terms and Conditions submitted by buyer to Machinex Technologies Inc. shall conflict with any Terms and conditions herein, the Terms and Conditions set forth herein shall govern and prevail.

In the event any other agreement between the Owner and Vendor regarding the Project shall be in conflict with any of the terms and conditions stated in this document, the terms and conditions set forth in this document shall govern and prevail.

DISPUTE RESOLUTION

Any dispute which arises in the course of this agreement shall be definitively settled by means of arbitration and to the exclusion of courts of law. However, in order to minimize the costs, there shall be only one arbitrator, and the arbitration proceedings and all documentation shall be in the English language. The arbitrator's decision will be final, without appeal and will bind upon the parties.

21. SIGNATURES

Machinex Technologies Inc.

Lexington Fayette Urban County
Government



5/16/2025

Brad Goins
Sales Project Director

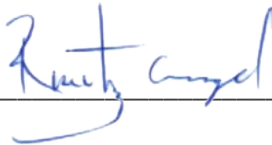
Date

Name
Title

Date

Machinex Technologies Inc.

Lexington Fayette Urban County
Government



5/16/2025

Rusty Angel
Eastern Region Sales Manager

Date

Name
Title

Date

APPENDIX A - LAYOUT

