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SPUDNIK



2990 Optical Sorter Walk-Around

SPUDNIK

WHY on farm Optical Sorting Solutions?

- Better Quality to customer. Fryers and Seed current focus.
- Reduced labor. Better utilization of investment for sorting and separating. 3-8 workers replaced per machine.
- Labor Shortage Insurance..
- Contract maximization. Sizing and Quality. (“Green”)
- Optical sorting machines do not get tired. What % of current labor is truly effective?
- Optical Sorter options detect things the human eye cannot.
- Recover more usable yield. Meet strict customer/contract standards. (Contract management story.)
- Improves storage of valuable crop. Lowers risk of rot and quality issues that come from bad product. (Pithium. Pink Rot. Leak. Etc..)
- Strategic Investment. (Mcains, Simplot, Lamb Weston, Cavendish.)
- Future Proofing an operation.



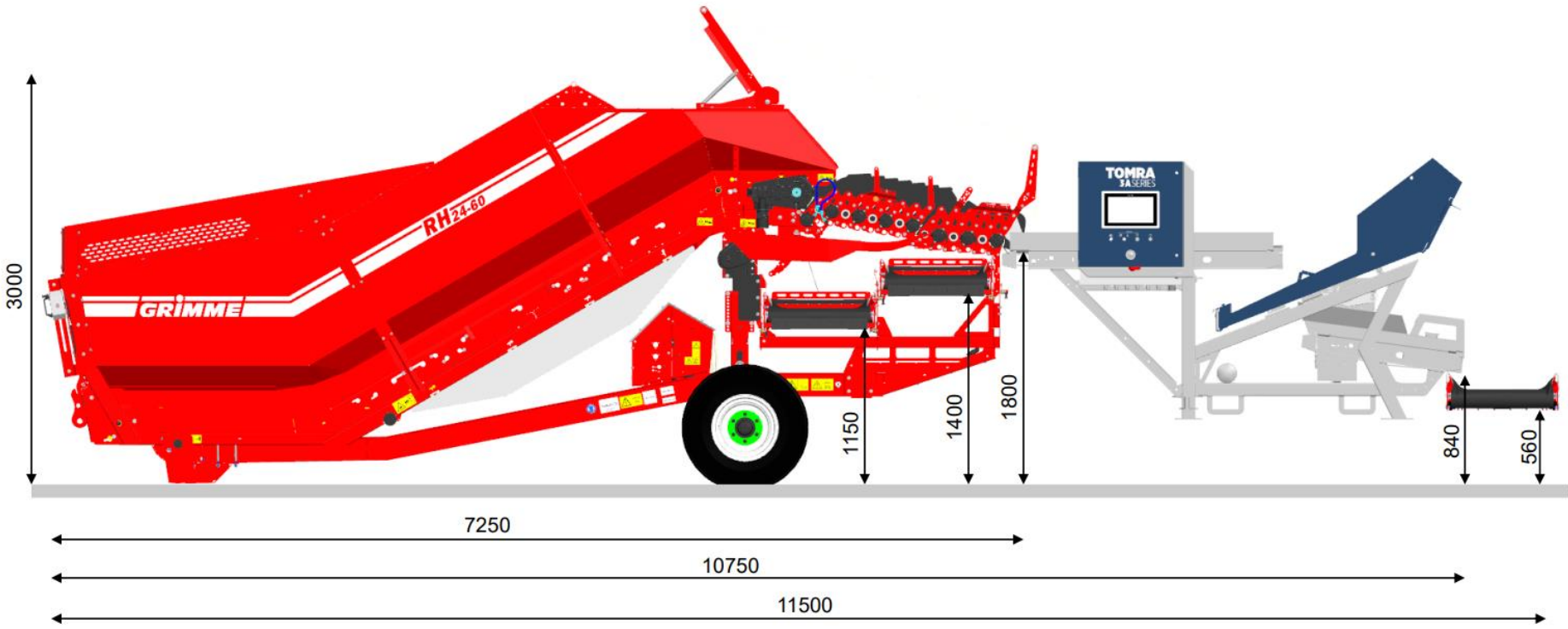
SPUDNIKS POSITION

- Can be used both pre and post storage to improve customer product.
- Some optical sorters link to cloud-based platforms that can measure crop size and profile for marketing and usage purposes. Good data makes good marketing decisions possible. Sizing at Harvest into storages.
- All Optical options will use own OS. Spudnik will provide power and compressor. Not operating system.
- Customers experience a ROI of 2-4 years depending on crop value, labor costs and run time.
- Spudnik will provide any optical solution Custom built into a Spudnik Frame/ Eliminator /Chassis.
- Spudnik is not recommending a specific machine solution. Customer preference will dictate.
- Price will be \$400k-\$950k. Depending on single or double sorter and customization.

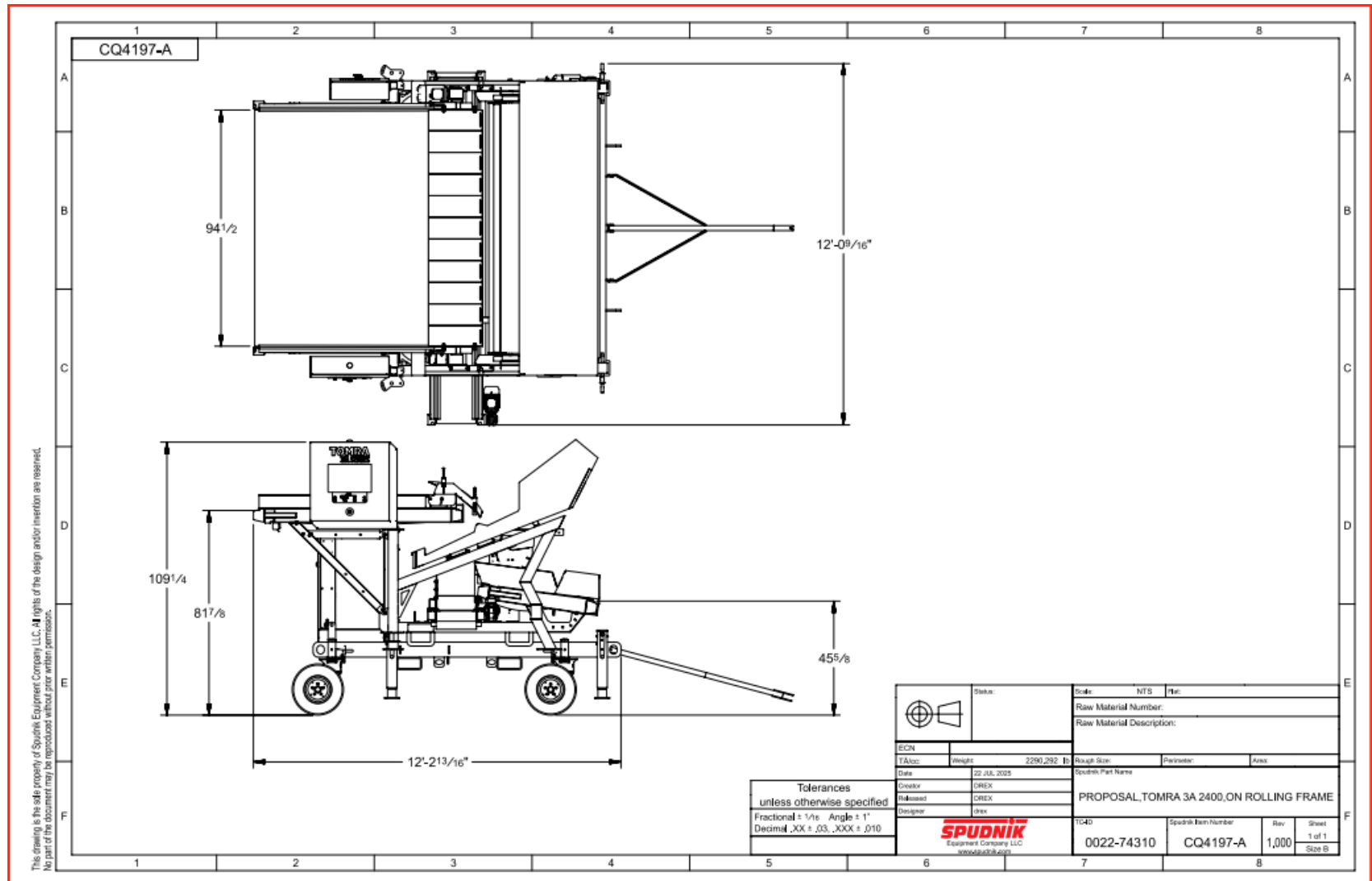


2990 Option

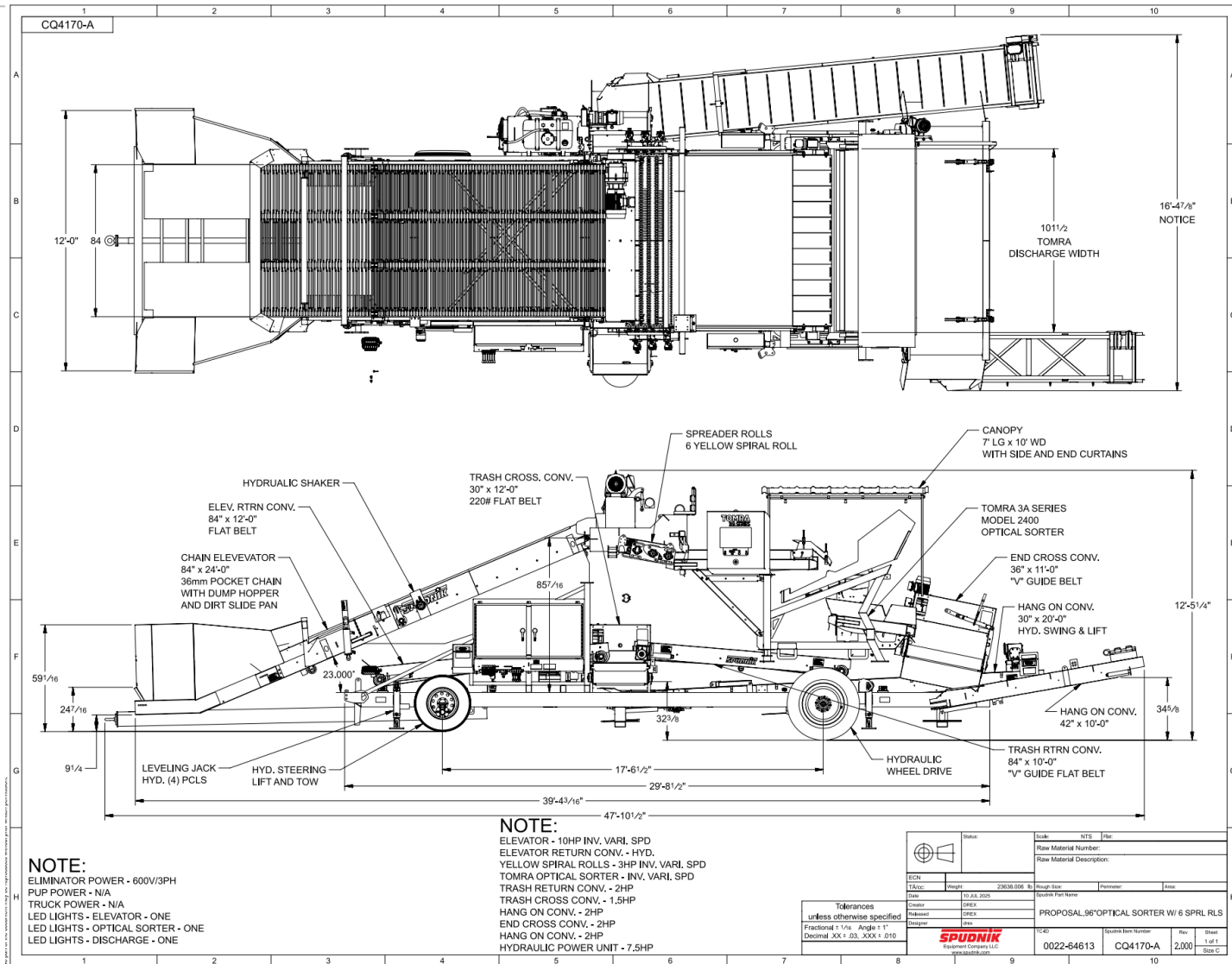
RH 24-60 CF + Tomra 3A 2400
with 150mm frame elevation + product conveyor detachable



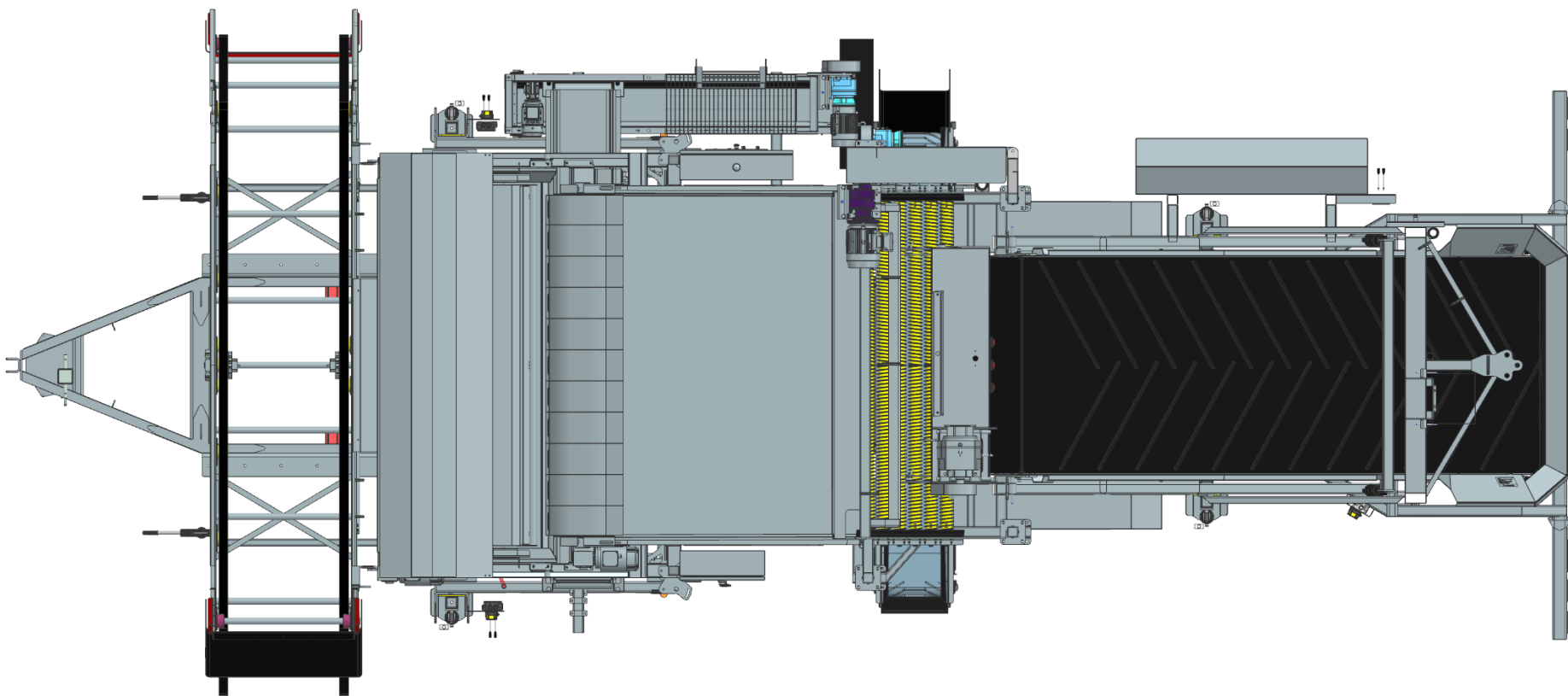
2990 Option



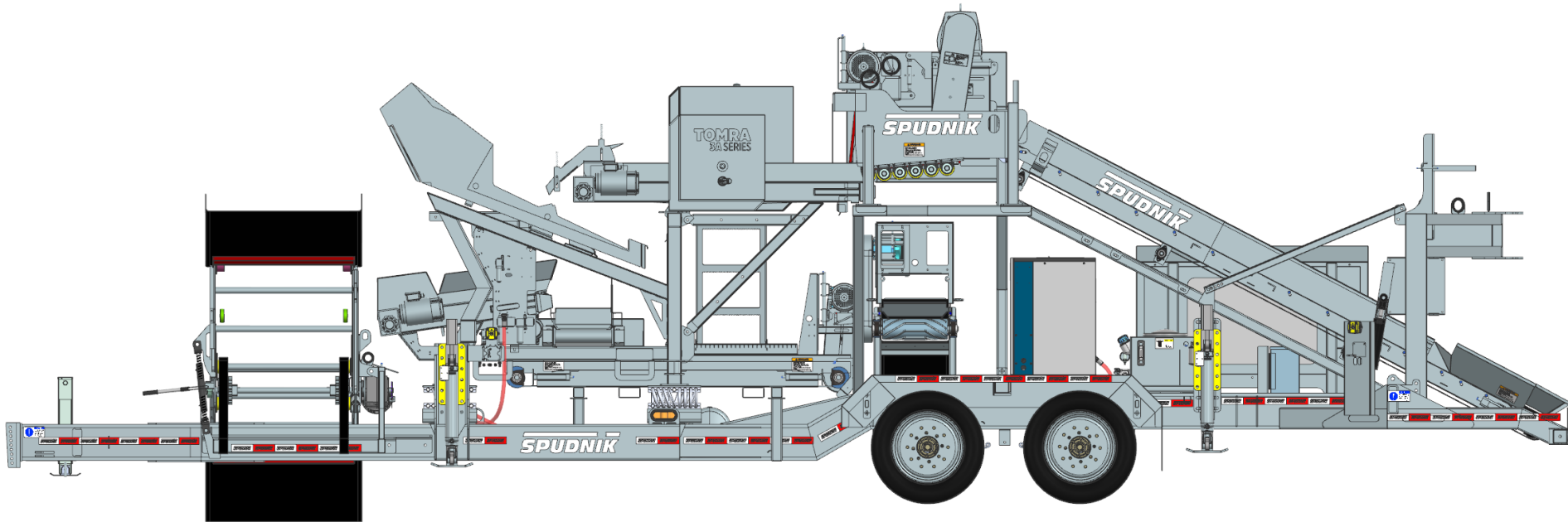
2990 Option

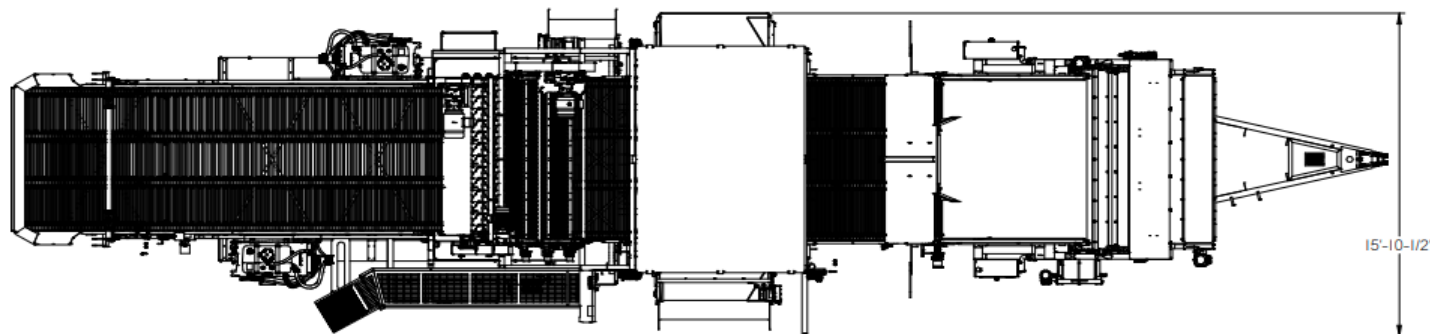


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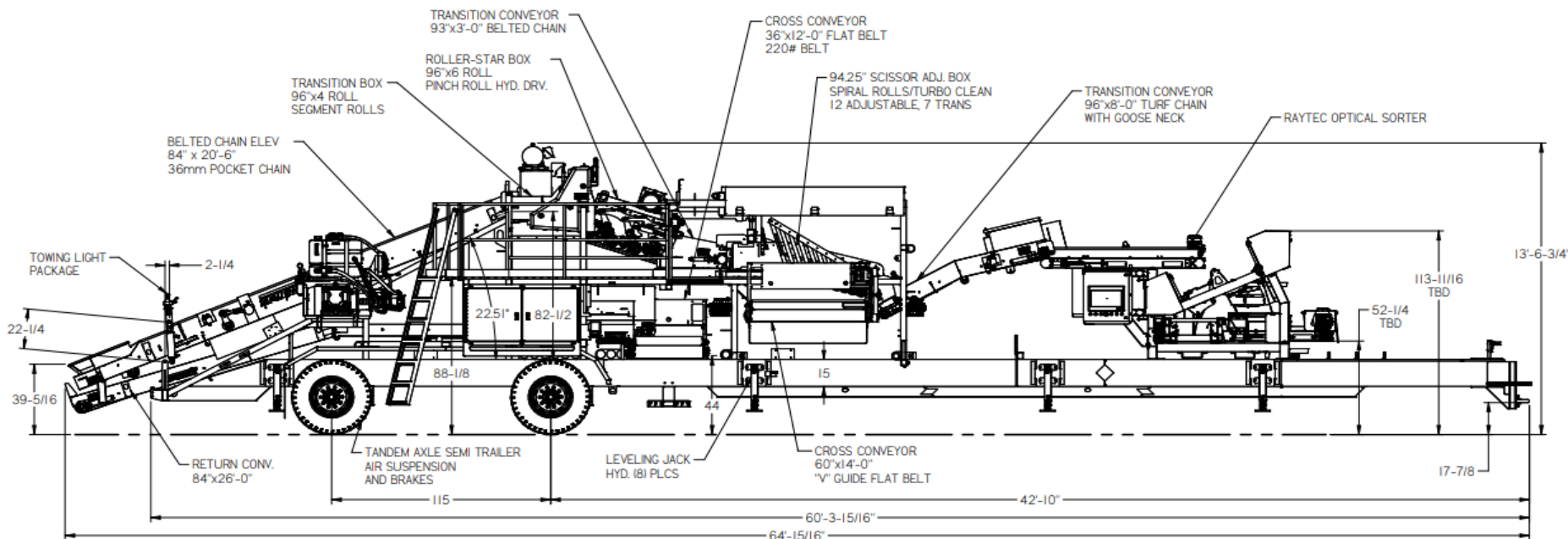
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NOTE:

ELEVATOR - 10HP INV VARI SPD
 ROLLER-STAR TRANS. ROLLS - 3HP INV VARI SPD
 ROLLER-STAR BOX - 7.5HP - INV VARI SPD
 ROLLER-STAR TRANSITION CONV - HYD VARI SPD
 SPIRAL ROLLS BOX - 40HP PUMP - HYD VARI SPD
 SIZING TRANSITION CONVEYOR - HYD VARI SPD
 PICKING TABLE TRASH TRANS CONV - HYD x 2
 ELEVATOR DIRT RETURN CONVEYOR - 3HP
 DIRT CROSS CONVEYOR - 1.5HP
 PRODUCT CROSS CONVEYOR - 3HP (651055)
 FUNCTION & RLR-STR HYDRAULICS - 40HP PUMP
 RAYTEC OPTICAL SORTER - TBD



ELIMINATOR POWER: OPTION
 PUP POWER: OPTION
 TRUCK POWER: OPTION
 LED LIGHT: OPTION
 LED LIGHT: OPTION
 LED LIGHT: OPTION
 LED LIGHT: OPTION
 TOWING LIGHT PACKAGE

NO.	DESCRIPTION OF REVISION	DATE	BY	ECN #
6				
5				
4				
3				
2				
1	RELEASED			

SPUDNIK EQUIPMENT COMPANY
 P.O. Box 1045 Telephone 208-785-0480
 Blackfoot, Idaho 83221

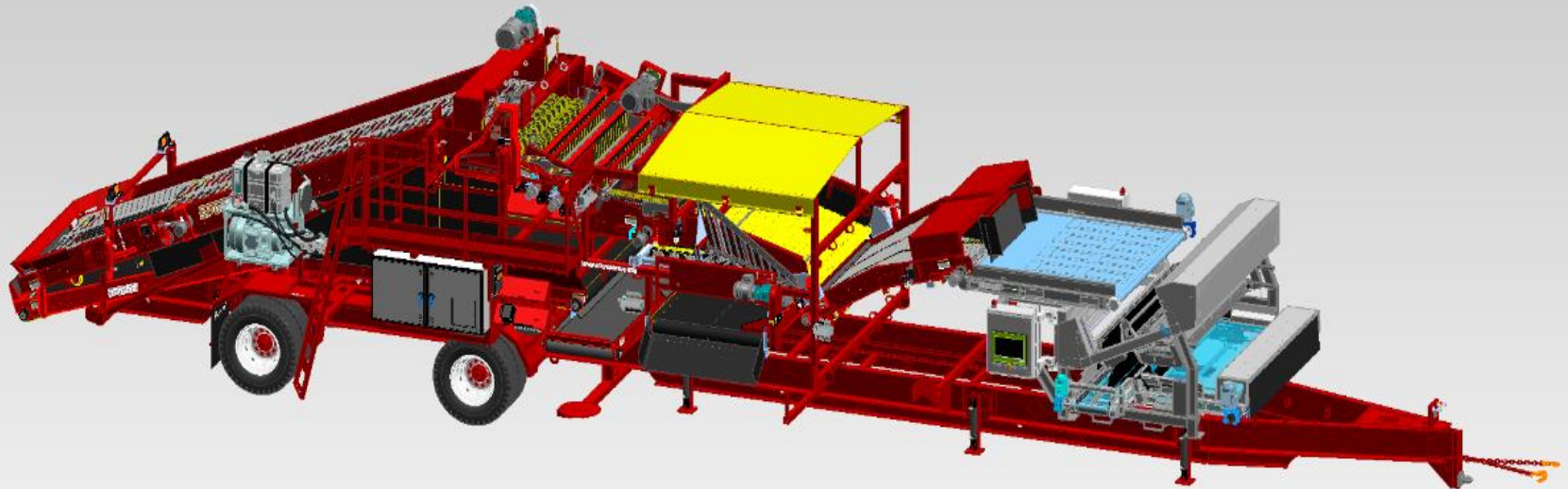
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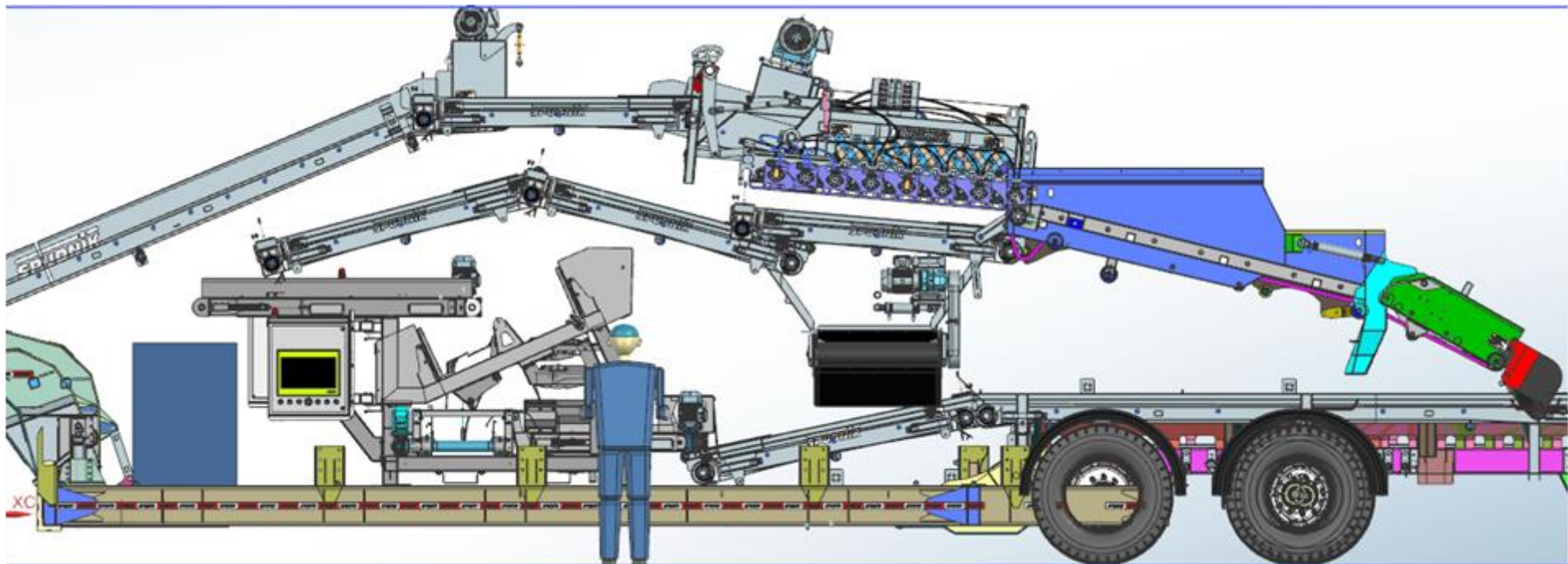
TOLERANCES			FRACTIONAL ± 1/16			ANGLE ± 1°		
UNLESS OTHERWISE SPECIFIED			DECIMAL: .xx ± .03			.xxx ± .010		
DATE	BY	CHKD	DATE	BY	CHKD	DATE	BY	CHKD
1/14/2026								
PROPOSAL.CUST.900-915.96'4-19 ROLL			CQ3974-A.S					
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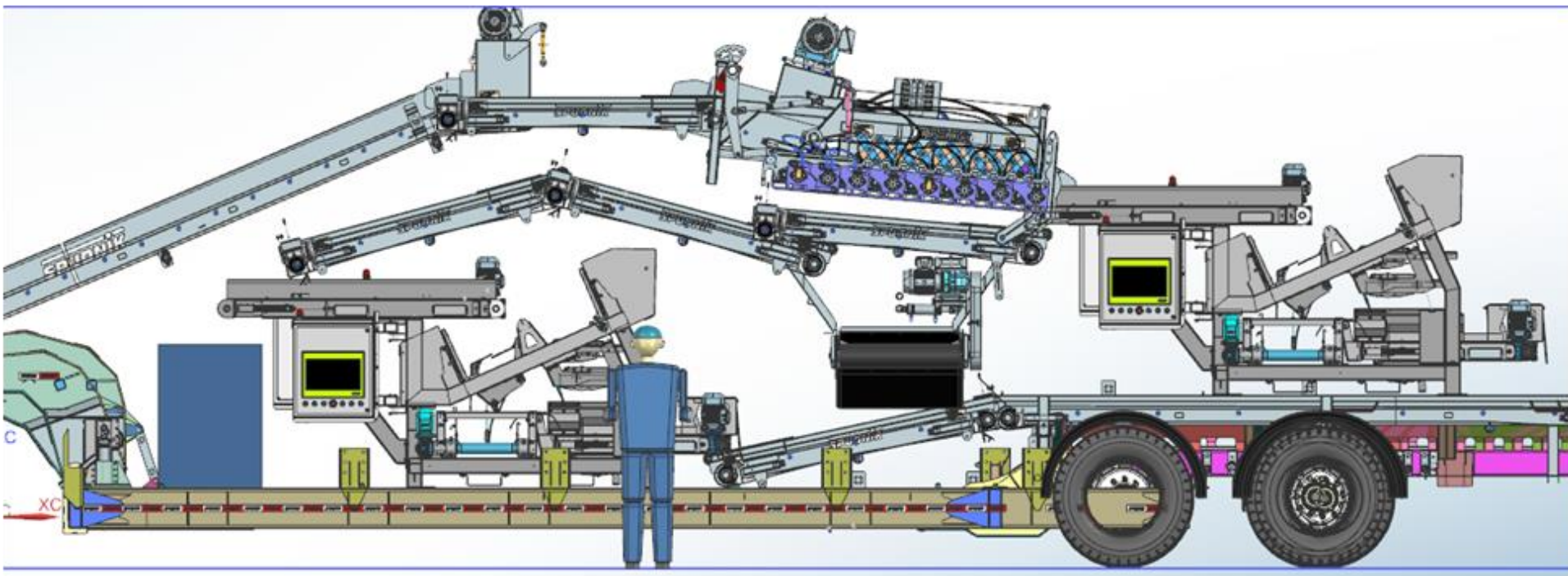
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Downs Crop Vision

- Cameras and AI software
- 3 way sorting of product. Good product, process product and waste.
- 360degree imaging with object rotation.
- Proven to work well with unwashed product,
- Stand alone machines or can be integrated into new or existing sorters.
- 90-125T/hr depending on precleaning, crop size and FM volume to be sorted

Tomra 3A

- Multi-Spectral-NIR+color imaging.
- Uses sophisticated image analysis with increased AI tech.
- Sensors are sealed to withstand dust and moisture boosting reliability.
- Handled up to 100T/hr of unwashed product.

Raytek Ingenuity

- Dual Vision color+NIR. Dual side sensor visibility.
- Optical resolution 4x4mm with pulsed LED and Photodiode array.
- Available in 2 way or three way sorting.
- Broad application capabilities. (carrots, onions, apples, beets. Etc)
- 80-100T/hr depending on precleaning, crop size, and FM volume to be sorted.



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