KIVERCO™
RECYCLING PLANT

MODULAR PLANT

PS122 PICKING STATION
TECHNICAL SPECIFICATION



MODULAR

PS122 PICKING STATION

APPLICATIONS

- Construction & Demolition Waste
- Commercial & Industrial Waste
- Dry Mixed Recyclables
- Composting
- Municipal Solid Waste
- Land Remediation Sites



FEATURES & BENEFITS

- The PS 122 can be set-up and **operational in less than 1 hour**
- No cranes required during set up
- Fully insulated, enclosed weatherproof cabin protects operators from the elements and eliminates the need for a building. Low energy lighting and optional heaters further facilitate **operator comfort**
- **Cabin 'climate control'** heating and cooling system options
- With emergency pull cords the length of the conveyor, emergency stops and isolators on each electric motor the PS 122 conforms to all relevant **European accredited safety requirements**
- With a super silent diesel generator, electric drive, enclosed cabin and optional dust covers and chutes the PS 122 is ideal for use in **environmentally sensitive built up areas** – low noise, low dust and no risk of oil spills during operation.

FEED AREA



DETAILS	
FEED BOOT WIDTH	1.94m
FEED BOOT LENGTH	1.82m
IMPACT BED	5 No. Impact Bars c/w Support Plates 100mm Spacing
Large Volume Feed Boot With Highly Durable Impact Section	

PICKING STATION CONVEYOR







DETAILS	
CONVEYOR BELT WIDTH	1200mm
CONVEYOR BELT LENGTH	16m
CONVEYOR BELT	Chevron EP500 3 PLY 5+1.5
VARIABLE SPEED BELT	0.1m/s to 0.4m/s to optimise picking rates for given applications
EXTENDED STEEL SIDE PROTECTION PLATES C/W SKIRTING RUBBER ON INCLINE SECTION	Protects the belt, aids flow of material and greatly reduces spillage
Heavy Duty Pillow Block Bearings	
Emergency Stop Pull Cord in Picking Cabin	
Auto-Grease Dispensers Fitted to Each Bearing	
Incline Angle 23 Degrees	
Continuous Belt Eliminates The Risk of Snagging and Spillage at Transfer Points	
Optimal Belt Width to Maximise Recovery of Material From Both Sides of the Belt	

PS122 PICKING STATION

PICKING STATION CABIN





Spacious cabin can accommodate up to 8 pickers

DETAILS	
4 X STANDARD SORTING BINS SIZES	1250mm W x 320mm D x 1030mm H
FLOOR TYPE	Chequered Steel Plate
CABIN WALLS	35mm insulation thickness.
CABIN LIGHTS	2 No. Low Energy Double fluorescent lights
WINDOW SIZE & TYPE	6 No. Double Glazed PVC Windows to maximise natural light
DOOR TYPE	2 x Heavy Duty Double Glazed PVC Doors

HYDRAULIC SYSTEM (FOR SET UP ONLY)



DETAILS	
POWERPACK	**5.5kW Motor**
TANK VOLUME	110L
HEAVY DUTY SQUARE HOLLOW STEEL SECTION FRONT AND REAR HYDRAULIC JACK LEGS	Comes with: Bracing to quickly raise the unit from transport to operating position without the need for a crane
Cabin Lifting Ram	
Safety Devices Inbuilt on Hydraulic System	

60KVA STAGE 3A GENERATOR (SUPER SILENT CANOPY)



DETAILS	
GENERATOR	415V, 50HZ
ENGINE	4.5L FPT
FUEL CONSUMPTION	@50% duty/load 7 L/hr Range 33.6 hrs
WIDE CORE RADIATOR	To improve performance of the engine cooling system and greatly reduce risk of overheating
PRE CLEAN FILTER	• Extends the life of the air filter • Reduces operating costs • Separates more than 99% of particles 20 micron and larger

ELECTRIC CONTROL PANEL





DETAILS	
IP66 RATED ELECTRICAL CONTROL PANEL	• Heavy duty switchgear • Panel built to BS ISO standards • Emergency Stop
EXTERNALLY MOUNTED VSD UNITS	Weatherproof

POWER REQUIREMENTS SUMMARY

Low power requirement with the option of running the unit directly from mains electric





DETAILS	
PICKING STATION CONVEYOR	3kW Drive Motor
MAGNET (OPTION)	1.5kW Motor
BLOWER (OPTION)	11kW Motor
HYDRAULIC SYSTEM	5.5kW Motor **For setup only
ELECTRIC DISTRIBUTION UNIT	240AC 1 Phase 50Hz 65A breaker
TOTAL OPERATING POWER CONSUMPTION FOR STANDARD UNIT (With no blower and magnet)	5kW
TOTAL OPERATING POWER CONSUMPTION FOR UNIT (Including blower and magnet)	27kW

GENERATOR OPTIONS



FACTORY FITTED OPTION	DETAILS
REVERSIBLE (CLEAN FIX) FAN	
REMOVE WIDE CORE RADIATOR	NB: Wide core radiator and reversible fan are both strongly recommended for use in dusty conditions
REMOVE COMPLETE GENERATOR & ANCILLARIES	

ELECTRICAL CONTROL SYSTEM OPTIONS



FACTORY FITTED OPTION	DETAILS
DUAL POWER/MAINS CHANGEOVER	This enables mains electric or generator input
E-STOP SYSTEM LINK CABLE TO LINK BACK TO AUXILIARY EQUIPMENT UP TO A MAX. LENGTH OF 25M	If longer cable required please specify cable length please state length and request price
VARIABLE BELT SPEED CONTROLLER LOCATED IN THE PICKING CABIN ENCLOSURE	Allows the pickers to adjust conveyor belt speed without having to leave the picking cabin
PAUSE BELT / RE-START FUNCTION	Allows the pickers to stop and re-start the picking conveyor from inside the cabin

CABIN ENCLOSURE OPTIONS



FACTORY FITTED OPTION	DETAILS
REMOVAL OF CABIN	Includes adding hand-railing
OIL FILLED RADIATORS	Not required if specifying cabin air conditioning option
CABIN AIR CONDITIONING	Heating & cooling
TRAP DOORS ON THE BOTTOM OF THE PICKING BINS	Manually operated
3RD BAY OPTION	6 x smaller bins @ 800mm wide in place of 4 x standard @ 1250mm wide NB: This option can be added to the machine in the future if required
RUBBER DROP SOCK UNDER THE 4 X 1250M WIDE BINS	Helps direct material into smaller skips/containers below machine
RUBBER DROP SOCK UNDER THE 6 X SMALLER 800MM WIDE BINS	

MACHINE OPTIONS



FACTORY FITTED OPTION	DETAILS
UNBRAKED WHEELED SITE AXLE	Comes with 5th wheel coupling kit
BRAKED WHEELED SITE AXLE KIT	Only available on PS122. 22½" Super Single Wheels Comes with: • Mud Guards • Spring Suspension • ABS Brakes. 5th wheel coupling kit, lighting board & side crash bars
HEAVY DUTY IMPACT SECTION	9 impact bars in place of the normal 5 impact bars
11KW FAN BLOWER	Comes with air ducting kit
BASIC LIGHTS CAGE	3.5mW x 3.5mD x 3.0mH kit format ~ requires on-site assembly

MAGNET OPTIONS



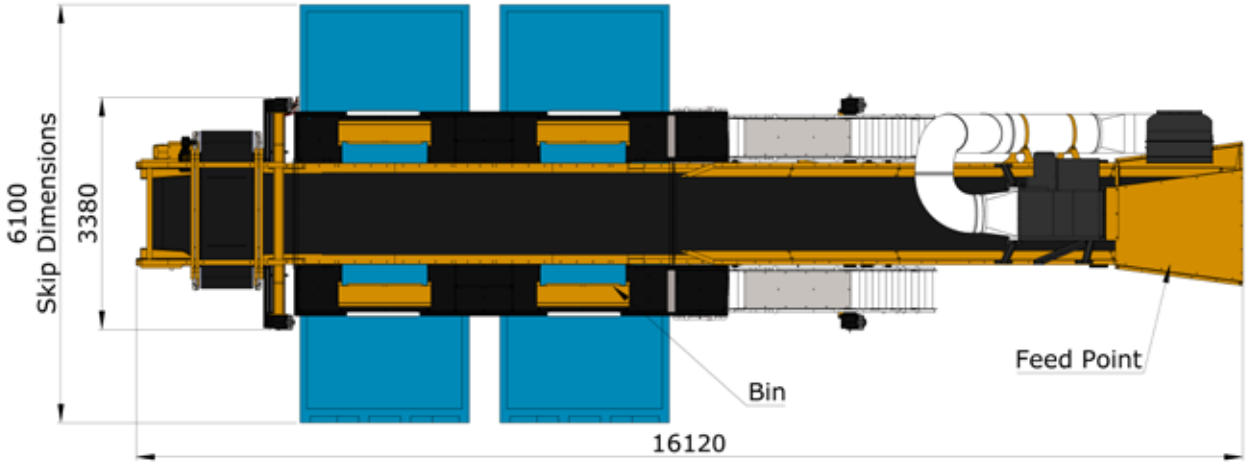
FACTORY FITTED OPTION	DETAILS
OVERBAND MAGNET {12/300}	Comes with support frame kit ~ Left hand discharge *Recommended mounting height of 300mm above 1200mm wide belt*
OVERBAND MAGNET {12/400}	Comes with support frame kit ~ Left hand discharge *Recommended mounting height of 400mm above 1200mm wide belt*

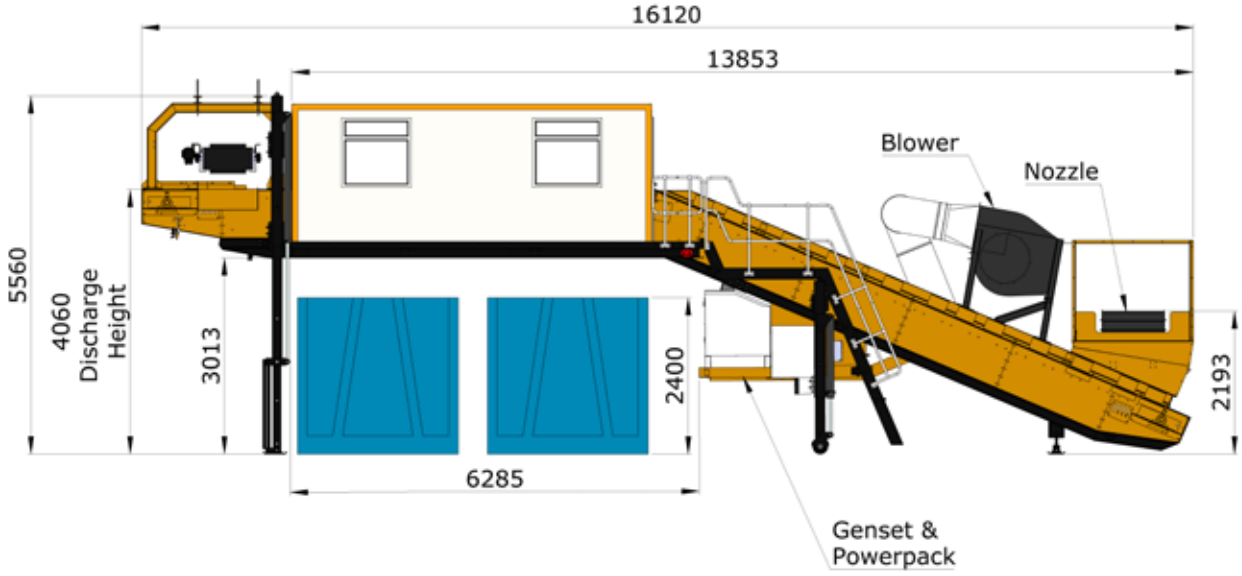
OPERATING DIMENSIONS

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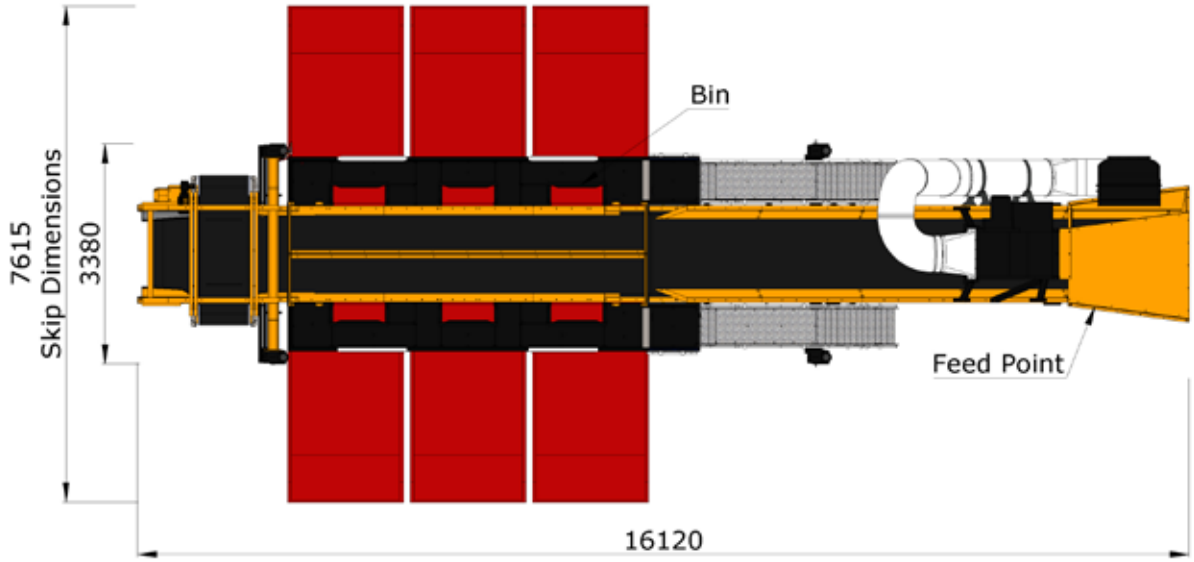
- Operating Length: 1.2m
- Operating Width: 3,380mm
- Operating Height: 5,560mm
- Feed In Height (with blower): 2.18m
- Feed In Height (without blower): 1.73m
- Discharge Height: 4.1m
- Weight: 19,000kg

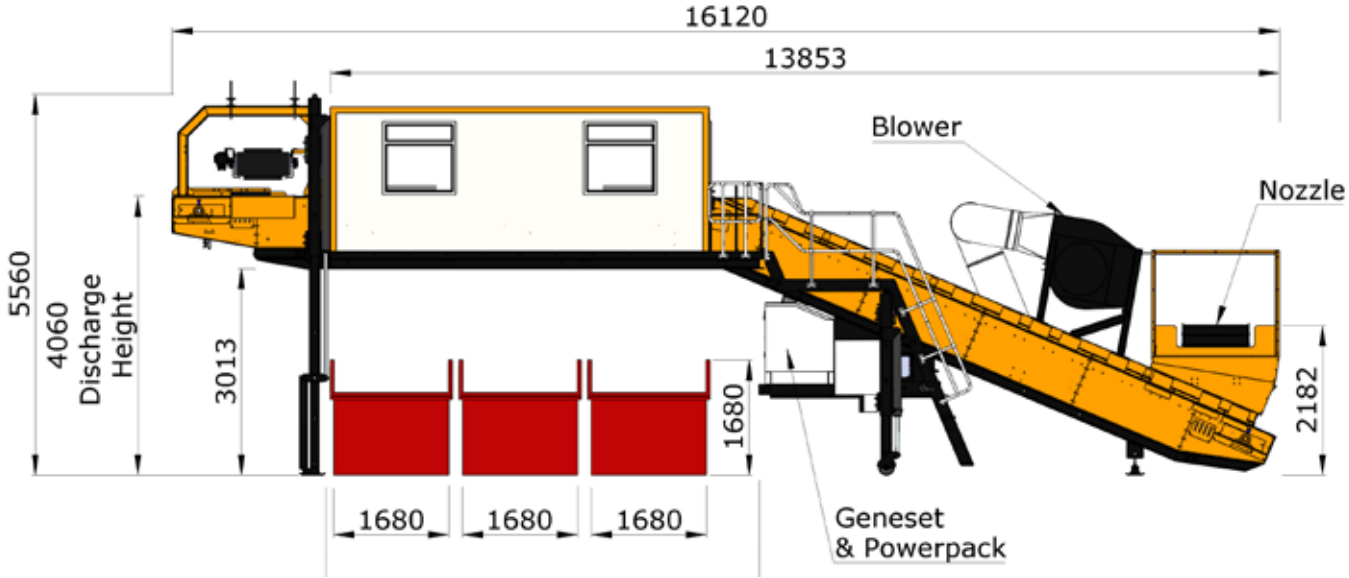









Bin
7615
Skip Dimensions
3380
Feed Point
16120


16120
13853
Blower
Nozzle
5560
4060
Discharge
Height
3013
1680
2182
1680
1680
1680
Geneset
& Powerpack

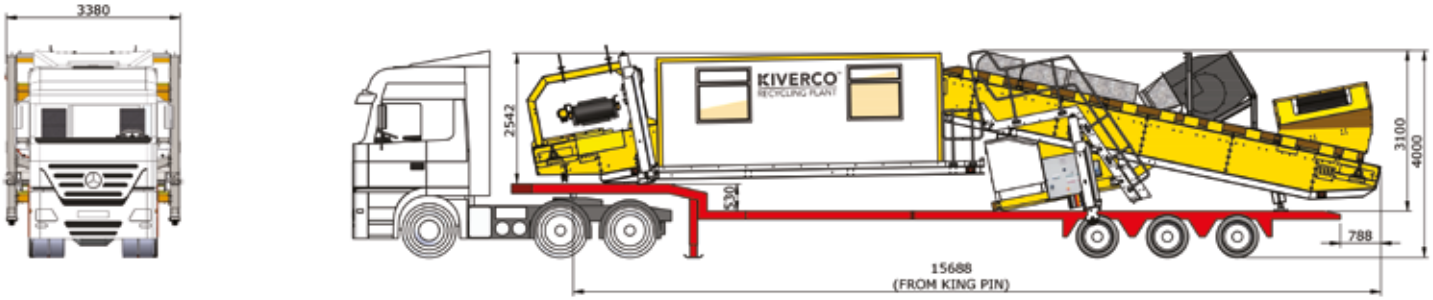
TRANSPORT DIMENSIONS

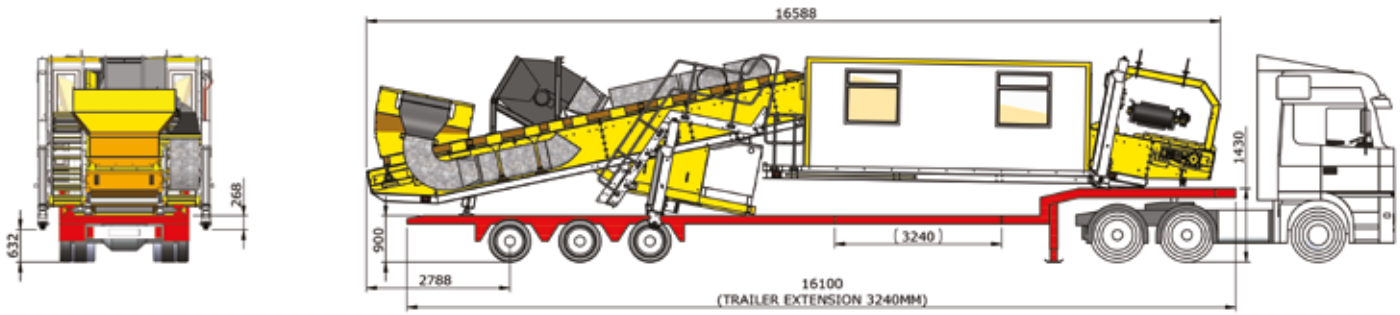


TRANSPORT DIMENSIONS

- Transport Length: 16.58m
- Transport Width: 3.38m
- Transport Height: 4.00m
- Standard Total Weight: 18,000Kg (excluding blower & magnet)







Site Transportation Option

