KIVERCO™
RECYCLING PLANT

MODULAR PLANT

PS123 PICKING STATION
TECHNICAL SPECIFICATION



MODULAR

PS123 PICKING STATION

APPLICATIONS

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



FEATURES & BENEFITS

- The PS123 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 PS123 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 PS123 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	18.4m
CONVEYOR BELT	Chevron EP400 3 PLY 4 + 2
VARIABLE SPEED BELT	0.1m/s to 0.4m/s to optimise picking rates for given applications
EXTENDED STEEL SIDE PLATES C/W SKIRTING RUBBER ON INCLINE SECTION	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	

PS123 PICKING STATION

PICKING STATION CABIN





Spacious cabin can accommodate up to 8 pickers

DETAILS	
6 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 Double Glazed PVC Doors

HYDRAULIC SYSTEM (FOR SET UP ONLY)



DETAILS	
POWERPACK	**4kW Motor**
TANK VOLUME	120L
JACK LEGS	Heavy Duty Square Hollow Steel Section Front and Rear Hydraulic Jack Legs c/w Bracing Manual fold out/in to reduce transport width
CABIN LIFTING RAM	
SAFETY DEVICES INBUILT ON HYDRAULIC SYSTEM	

60KVA STAGE 3A GENERATOR (SUPER SILENT CANOPY)



DETAILS	
GENERATOR	400V, 50HZ
ENGINE	4.5L
FUEL CONSUMPTION	@50% duty/load 9.5 L/hr Range 24.7 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 & MACHINE WIRING





DETAILS	
IP66 RATED ELECTRICAL CONTROL PANEL	• Mild steel enclosure IP66 (800mm x 800mm x 250mm) • 80A door interlocked main isolator switch • Manual/Off/Auto selector switch • Start/Stop illuminated push buttons for manual control and auto control • Multi-pin sockets on side of control panel to interlock to other modular plant • 24VDC control for hydraulic solenoids c/w dog lead and pendant for solenoid control of jack legs system

POWER REQUIREMENTS SUMMARY

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





DETAILS	
PICKING STATION CONVEYOR	4kW Drive Motor
MAGNET (OPTION)	1.5kW Motor
BLOWER (OPTION)	11kW Motor
HYDRAULIC SYSTEM	4kW 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

OPTIONS

GENERATOR OPTIONS



FACTORY FITTED OPTION	DETAILS
REVERSIBLE (CLEAN FIX) FAN	
REMOVE COMPLETE GENERATOR & ANCILLARIES	
WINTER SPEC OPTION	Battery wrap heater, oil sump heater, engine jacket coolant heater, anti-condensation heater for alternator, heat tracing for fuel pipework and injector pump, an appliance inlet 16AMP 2P+E on a separate enclosure with local isolation and with separate circuit protection for each heater

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

CABIN ENCLOSURE OPTIONS



FACTORY FITTED OPTION	DETAILS
CABIN AIR CONDITIONING	Heating & cooling
TRAP DOORS ON THE BOTTOM OF THE PICKING BINS	Manually operated 6 x standard picking bins
4th BAY OPTION	8 x smaller bins @ 800mm wide in place of 6 x standard @ 1250mm wide NB: This option can be added to the machine in the future if required
RUBBER DROP SOCK UNDER THE 6 X 1250M WIDE BINS	Helps direct material into smaller skips/containers below machine
RUBBER DROP SOCK UNDER THE 8 X SMALLER 800MM WIDE BINS	
1 X ELECTRICAL POWER SOCKET	Single 240v socket single phase supply from consumer unit
1 X HIGH LEVEL 1.5KW FAN HEATER	Not required if air conditioning option is selected

MACHINE OPTIONS



FACTORY FITTED OPTION	DETAILS
UNBRAKED WHEELED SITE AXLE	Comes with 5th wheel coupling kit
BRAKED WHEELED SITE AXLE KIT	Only available on PS123. 22½" Super Single Wheels Comes with: • Mud Guards • Spring Suspension • ABS Brakes. 5th wheel coupling kit, lighting board & side crash bars
11KW FAN BLOWER	Comes with air ducting kit Left hand discharge standard Right hand discharge also available

MAGNET OPTIONS



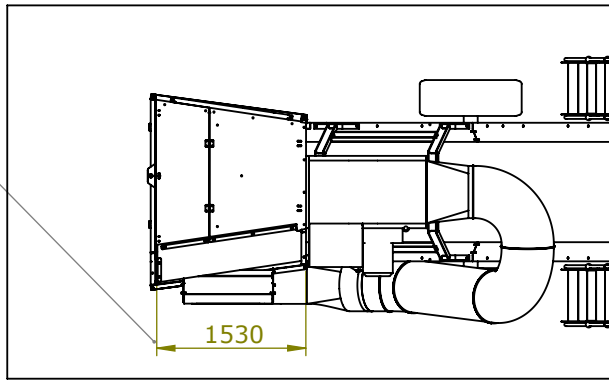
FACTORY FITTED OPTION	DETAILS
OVERBAND MAGNET {12/300}	Comes with support frame kit Left hand discharge standard Right hand discharge also available *Recommended mounting height of 300mm above 1200mm wide belt*

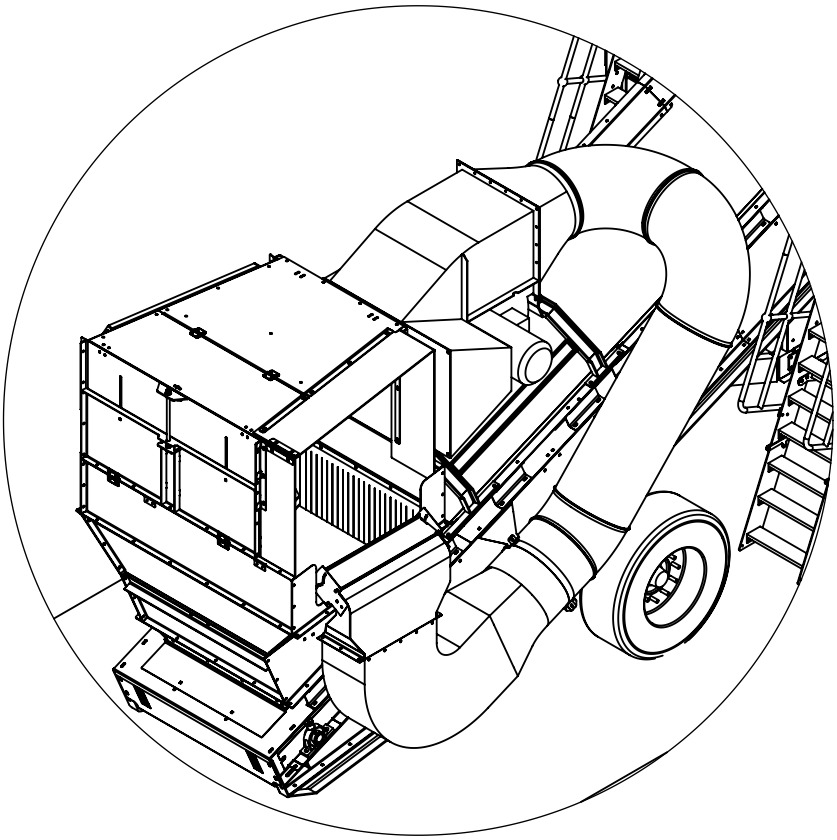
OPERATING DIMENSIONS

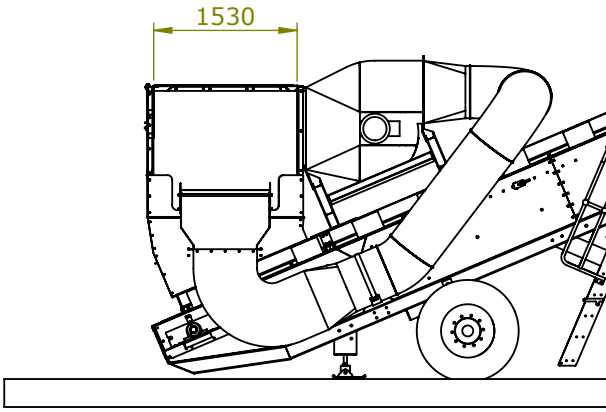
OPERATING DIMENSIONS

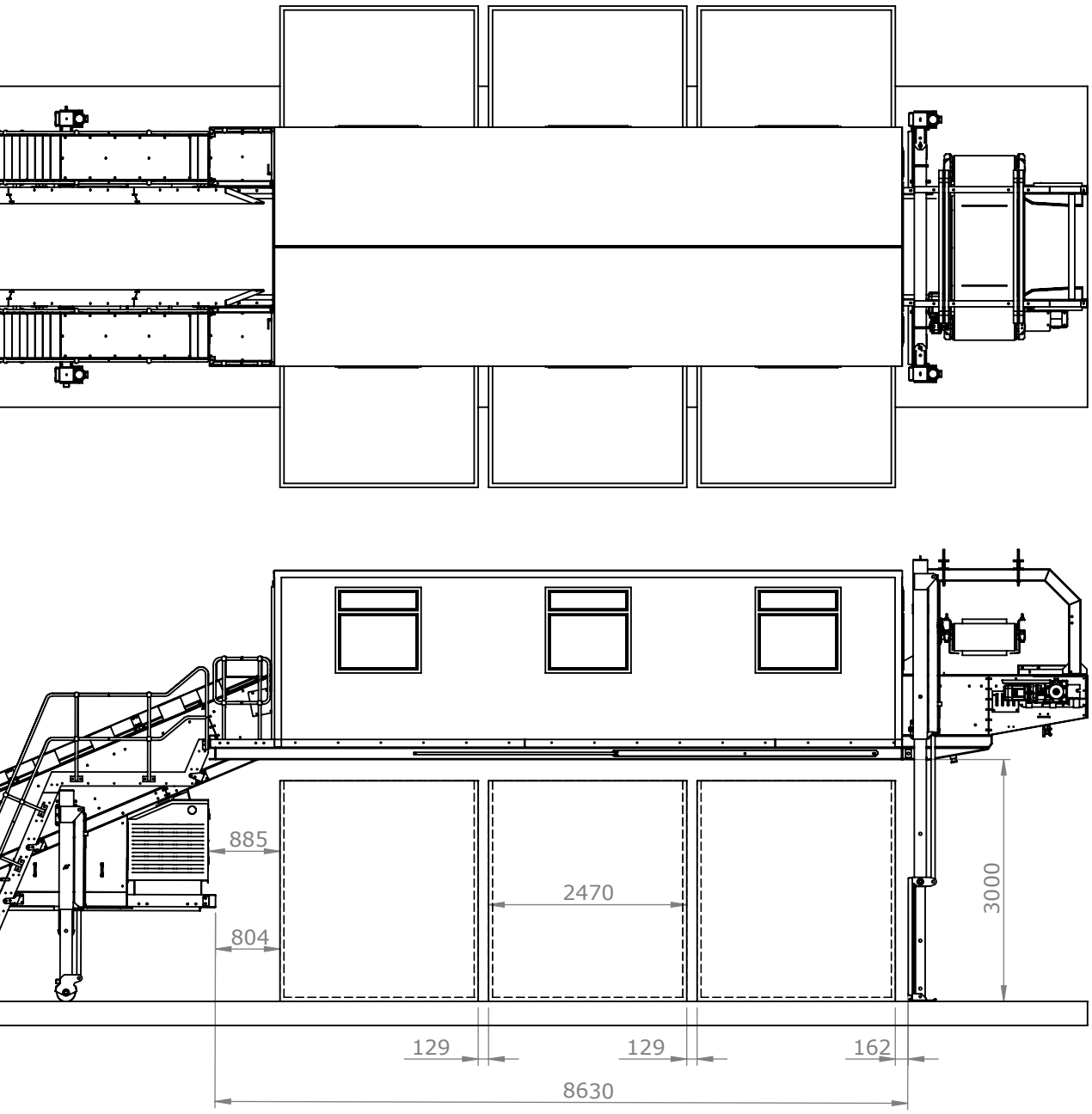
- Operating Length: 18.5m
- Operating Width: 3,380mm
- Operating Height: 5,560mm
- Feed In Height (with blower): 2.18m
- Feed In Height (without blower): 1.73m
- Discharge Height: 4.1m
- Weight: 21,000kg

NOTE:
Canopy Opening of PS122 is 1730mm








885
804
2470
3000
129
129
162
8630

TRANSPORT DIMENSIONS



TRANSPORT DIMENSIONS

- Transport Length: 18.9m
- Transport Width: 3m
- Transport Height: 4.00m
- Standard Total Weight: 21,000Kg (including blower & magnet)

