

## VOYAGER 200





VOYAGER 200 is BM Group Polytec S.p.a. AGV project.

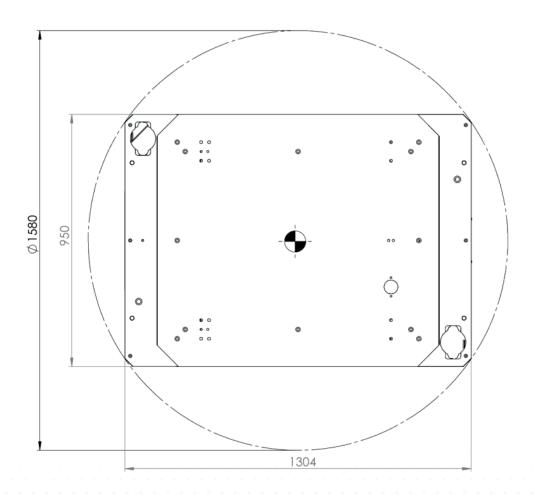
It's purpose is to automate and optimize transport of heavy load and pallets. It's payload of 2000 kg lets our AGV be able to transport loads without any other safety measure, even in crowded environment.

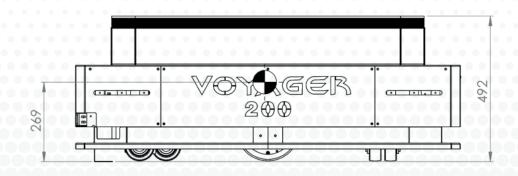


GENERAL CARACHTERISTICS		
Туре	Autonomous Guided Vehicle (AGV)	
Use	Transport for indoor logistic	
Color	Black RAL 9005 / Orange RAL 2004	
M	IECHANICAL CARACHTERISTICS	
Length (mm)	1300	
Width (mm)	950	
Height (mm)	490	
Weight (kg)	622	
Ground clearance (mm)	40	
Load surface (mm)	1060 x 950	
	PAYLOAD	
Payload (Kg)	2000	



NAVIGATION GUIDANCE		
Positioning precision (mm)	± 20 (With optimal environment fixed references)	
Angular precision (°)	± 2	
Maximum speed (m/s)	1,2	
Maximum obstacle height (mm)	25	
Minimum width (rotation in place) (mm)	1700	
Minimum corridor width (kg)	1250	







BATTERY & RECHARGE		
Battery type	LiNMC	
Rated Voltage (VDC)	44,4	
Capacity (Ah)	100	
Available energy (kWh)	4,440 (100 Ah @ 44,4V)	
Fast Recharge capacity	1 C (100 A)	
Standard Recharge capacity	0,5 C (50 A)	
BMS (Battery management system)	CAN OPEN communication enables charging only if communication with Battery charger is active	
Cycle life	≥2000 at 80% Depth Of Discharge	
Charger connection type	Contacts plate	
Charger power (kW)	6 (48V 120A rated)	
Charger connection	400Vac (Customizable for different market)	
Recharge time (min)	< 60 (10% - 90%)	
Autonomy	8h (continuous movement @ full load)	
	ENVIRONMENT	
Ambient temperature (°C)	-5 ÷ 45 (Rated performance @ 25° C)	
Humidity	10-95% without condensation	
Type of environment	Indoor	
	SAFETY	
Laser Scanner	2 safety laser scanner SICK Microscan3	
Safety area covered	360° up to 9m distance - 64 different programmable safety areas	
STO	Safety Torque Off integrated on traction wheels drives	
Emergency buttons	Double emergency button	
	CONFORMITY	
Industrial vehicles standard	EN 3691-4, EN IEC 62046	
	CONNECTIVITY	
Fieldbus	ProfiNet / CANopen fieldbus	
WiFi connection	IEEE 802.11 a/b/g/h/n, 2,4/5 GHz all country certified	