

CARY[®] *up*

autonomous mobile robot

TECHNICAL DATA



GENERAL SPECIFICATIONS	CARY® up pro	CARY® up summit
weight [kg]	80	
dimensions (LxWxH) [mm]	1038x402x678	
max. speed [m/s]	0.75	
max. operating time per charge [h]	6	
temperature during operation [°C]	+10 bis +40	
temperature during transport [°C]	-25 bis +55	
humidity	20 % - 60 % rH	
minimum passage width [cm]	80	
max. gradient	5%	
ground clearance [mm]	17	
VDA5050 compatible	Yes	
fleet management	Yes	
monorail compatible	Yes	
BATTERY	CARY® up pro	CARY® up summit
type	LFMP	
nominal capacity [Ah]	60	
operating voltage [V]	26	
lifetime	≥ 1500 discharge cycles (80% DOD)	
rate of self-discharge [%]	≤ 3	
charging time (0% zu 80%) [h]	3	
POWER SUPPLY	CARY® up pro	CARY® up summit
type	MetraLabs autonomous charging station (ACS)	

DRIVE	CARY® up pro	CARY® up summit
type	Brushless DC electric motors (BLDC)	
system	ISO 13849-1, Performance Level d	
torque [Nm]	typ.: 19,4 max.: 81	
software	CogniDrive® [Metralabs]	
FORK	CARY® up pro	CARY® up summit
minimum height [mm]	110	
max. lifting height [mm]	36	
width [mm]	230	
max. payload [kg]	50	200
SAFETY	CARY® up pro	CARY® up summit
laser scanner (vertical)	Yes	
safety laser scanner (vertical)	No	Yes
safety laser scanner (horizontal)	Yes	
3D camera	Yes	
blinker	Yes	
blue spot	Yes	
acoustic warning system	Yes	
bumper	Yes	
CE	Yes	
DOLLY DETECTION	CARY® up pro	CARY® up summit
proximity switch	Yes	
camera	Yes	
switch contacts	Yes	
ACCESSORY		
pennant	warning light	
adapter for dolly		