HospitalCarts.ca # 1-800-717-1075 Fax: 1-800-717-3288 functionality + healthcare technology = Functionology **Spec** Guide April 2012

Mobile Technology Workstations — Powered

110 North Front Street, Suite 402, Belleville, ON K8P 0A6 Order@hospitalcarts.ca





functionality + healthcare technology =

Functionology Ceployed

func-tion-ol-o-gy [fuhngk-shuhn-ol-uh-jee] The science of technology access at the point of care—or anywhere

At Altus, form follows Functionology,™ making our mobile and wall-mounted technology workstations the best available. Altus Functionology™ deploys optimized mobility, adjustability, access to patient data, and documentation at the point of care—or anywhere.

Functionology™ is an exclusive combination of:

- patented, easy-to-operate Ascend[™] Sit-to-Stand lift technology available in lite, standard and heavy duty
- maximum mobility from the lightest weight cart available
- fast, easy, and extensive customization
- no assembly required
- deployment 10x faster than others
- unsurpassed value
- an exclusive focus on the needs of healthcare clinicians
- unlimited support for clinicians, IT and integrators



Altus **Func**tionology[™] is successfully optimizing EMR/CPOE initiatives, patient care, clinician comfort, and efficiency in thousands of healthcare facilities around the country.

Altus designs and manufactures mobile and wall-mounted technology workstations at our state-of-the-art headquarters in Grand Rapids, Michigan.

Integrator partnerships are available exclusively from integrators who receive ongoing, comprehensive training and support from Altus engineering and sales teams.

Learn how to put **Func**tionology[™] to work for you at **Func**tionology.net.

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Power System & Battery Chemist

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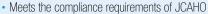
Willo Power System

Willo Mobile Powered Technology Workstations are designed to deliver the most lightweight and the best performing power system. Willo's LiFe (Lithium Iron Phosphate) battery is lightweight in design, but packs a punch with its impressive charge time and cycle life.

Willo Mobile Powered Workstations are hospital-grade power systems.

- On/Off Switch
- 3 AC Output Plug
- Intuitive Worksurface Interface
- Integrated Cable Management
- Quiet design
- Recovery from prolonged discharge
- 20 AMP Charger
- 150 Watt Output

- Multi-level low battery warning alarm
- Data Logging
- Universally compatible output (120 VAC)
- High output efficiency (87%)
- TUV tested, certified and compliant with IEC 60601-1, UL 60601, UL1778 Standards







Battery Chemistry Options



LITHIUM IRON PHOSPHATE BATTERY

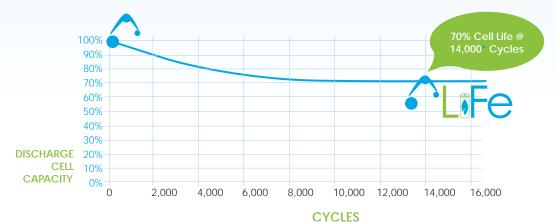


40 AMP/Hr. (AH)

- High energy density/Light weight (11 lbs.)
- Fast charging (100% recharge in 2 hours)
- High cycle life (8,000 cycles / 5 years)
- Durable
- Superior safety and abuse tolerance
- Built-in intelligence to protect the battery
- · Lower cost of ownership for life of product
- 3 Year Warranty

SLA BATTERY: 55 AMP/Hr. (AH)

- Battery size 55Ah (39 lbs.)
- Charging (up to 5 hours to 100%)
- Cycle life (up to 1,200 cycles)
- Durable
- Safe
- · Low cost of initial ownership
- 90 Day Warranty



One LiFe cycle = 100% complete discharge and full recharge
*14,000 cycles in laboratory testing

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WilloCare Power System Software

WilloCare software can be installed on a local/native workstation that is connected to a Willo Power System via a USB cable. The software runs as a service on the local/native machine. The software keeps its own independent log file on the local workstation that can be viewed using the Graphical User Interface (GUI).

Software Capabilities:

- · Real-time information (Battery life, Battery charge level)
- Data logging
- Detailed event logs
- · Real-time alerts



Device Settings

Willo Battery User Interface

The easy-to-read battery user interface, which is located on the front surface of the cart handle, gives the user a real-time status of the battery. Each LED will illuminate in several sequences to indicate the approximate charge level of the battery.

- The first LED displays power on/off indicator
- LEDs two through five indicate charge level and correspond to a percent of charge range.
- Power Alert Mute Button (second to last button on right) If the battery level falls below 10% for LiFe Battery/20% for SLA battery, an alarm will sound. This button will mute the alarm.
- Power Button (last button on right) To power up press and hold for 2 seconds, and the on/off Indicator will beep and power on. To power down, press and hold for 2 seconds, and the on/off Indicator will beep and power off.







Accessing technology at anytime and anywhere, working safely within different healthcare environments, and enhancing productivity are just some of the ways that we are making a difference in mobile computing. Below are other ways you'll see why Altus is differentiating itself in today's healthcare market.

1. Ease of Mobility:

Giving you a **lightweight** (as low as 90 lbs.) and highly mobile solution (100 mm Heavy Duty casters) helps assist you with delivering technology where you need it.

2. True Sit to Stand adjustment capability:

Ascend \mathbb{R}^m lift technology offers 18" of effortless height adjustment range, with the added bonus of an easy height adjustment hand lever.

3. Counterbalance System:

With each cart there are variable worksurface and accessory weights. For maximum performance, we offer three counterbalance systems (lite, standard and heavy duty). See page 12 for more information.

4. Small footprint:

With our cart being at only 18" wide, we are helping you fit into tight spaces.

5. Ships fully assembled:

Making deployment faster and easier.

6. Cable Management

Our Cord Tray manages all of your cables and technology components into one easy to reach area.

7. Lithium Iron Phosphate) Battery:

Don't let the lightweight design fool you. Our LiFe Battery packs a punch with its impressive charge time and cycle life.

8. Color Choices:

Three solid, two abstract and four wood grain 3D Laminate worksurface colors gives you more color choices.

9. Handle and Integrated User Interface:

While our sleek handle ensures effortless navigation, it also gives the user a easy-to-read status of the battery.

10. Customization:

There are unique needs for every healthcare environment. That is why customization is key. Let our professional sales and engineering team help you customize your cart.









Cable Access Holes are 5"W x 6.5"H (middle dimension is 3"W) Middle Access Hole is 2.5"W x 3.25"H

Cord Tray Area Dimensions are 16"W x 8"D x 5"H (168 sq. in.)

Cable Management

Our spacious cable management area (cord tray) is able to store all of your technology component cables and more. Top-side access ensures an ergonomic approach to speed deployment. Once your cables are stored, the cover encloses the area.

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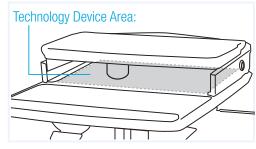
While the cable management area offers clever storage and accessibility, the rear basket gives your clinicians more options for storage.

When the coiled power cord is unplugged from the wall outlet, it can be placed simply in the cord plug holder.

Technology Component Storage

When integrating various technology components, having extra storage is a must. Our technology storage comes both keyed and keyless for optimal security.

The storage area fits a variety of technology components. From laptops to small form factors, easy integration is only a step away.



The upper surface has three levels of incremental height adjustment: 2", 2.5", and 3". The total space within is 20"W x 12"D.



ANSI/BIFMA Compliant & CARB 93120 Complian





Willo Laptop Cart W1

LiFe Model Number W1L-XX-YYYY-Z	Worksurface Dimensions 20"D x 20"W	Base Dimensions 18"W x 20"D	Weight 90 lbs.	MSRP Price \$3,820
SLA Model Number	Worksurface Dimensions	Base Dimensions	Weight	MSRP Price
W1S-XX-YYYY-Z	20"D x 20"W	18"W x 20"D	118 lbs.	\$2,620

(L= LiFe Battery, S= SLA Battery, XX = counterbalance system - refer to pg.12, YYYY = worksurface color, refer to pg.13, Z = Accent Color, refer to pg. 13)

Lower Surface
20"W x 20"D
Upper Surface
20"W x 11"D
8"W x 9"D

Base

• A19P

(Ascend Base w/ 100mm Heavy Duty Casters)

• WLT-40

(Life Battery System)

OR

• WST-55

(SLA Battery System)

Worksurface

• TLB2020

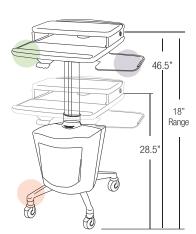
(Dual Surface)

 1" 3D Laminate -Upper Surface: slope edge Lower Surface: reversed tear drop edge

Accessory

- SAM-3 (Swing A Mouse)
- HW (Handle)
- CT (Cord Tray)

• For Additional Color Options See Pg. 13





Power System Enclosure



Handle with User Interface



Cable Management Area Access Holes



Cable Management Area with Clear Acrylic Cover



Coiled Power Cord (Left and Right Rear Worksurface Mounting)



Detail of Sloped Edge Worksurface (allows viewing of the entire laptop screen)



Swing A Mouse (SAM3)



Height Adjustment Hand Lever



Adjustable Upper Surface Laptop Security Spacing: 2",2.5", 3"H 20"W x 10"D, No Tools Required



Laptop Lock w/Key for Security & HIPAA



100mm Highly Mobile Heavy Duty Tente Casters 2 Locking/2 Non-Locking





LiFe Model Number Worksurface Dimensions **Base Dimensions** Weight **MSRP Price** W3L-XX-YYYY-Z 20"D x 20"W 18"W x 20"D 93 lbs. Flat Panel Cart \$3,995 SLA Model Number Worksurface Dimensions **Base Dimensions** Weight **MSRP Price** W3 W3S-XX-YYYY-Z 20"D x 20"W 18"W x 20"D 112 lbs. \$2,795

(L= LiFe Battery, S= SLA Battery, XX = counterbalance system - refer to pg.12, YYYY = worksurface color, refer to pg.13, Z = Accent Color, refer to pg. 13)





Base

• A19P

(Ascend Base w / 100mm Heavy Duty Casters)

• WLT-40

(Life Battery System)

0Ř

• WST-55

(SLA Battery System)

Worksurface

• THB2020

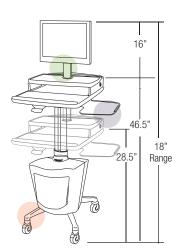
(Dual Surface)

• 1" 3D Laminate -Upper Surface: slope edge Lower Surface: reversed tear drop edg

Accessory

- SAM-3 (Swing A Mouse)
- HW (Handle)
- CT (Cord Tray)
- FSA-2 (Flat Panel Monitor Arm)

• For Additional Color Options See Pg. 13





Power System Enclosure



Handle with User Interface



Cable Management Area Access Holes



Cable Management Area with Clear Acrylic Cover



Flat Screen Monitor Arm (FSA-2), 16" Height Adj., +100°/-40° Tilt, +/- 90° Swivel, +/- 180° Rotation, VESA Std., 75mm or 100mm



Coiled Power Cord (Left and Right Rear Worksurface Mounting)



Swing A Mouse (SAM3)



Height Adjustment Hand Lever and Black Vinyl Palm Support



Adjustable Upper Surface Laptop Security Spacing: 2",2.5", 3"H 20"W x 9"D, No Tools Required



Laptop Lock w/Key for Security & HIPAA



100mm Highly Mobile Heavy Duty Tente Casters 2 Locking/2 Non-Locking



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Medical Drawer Carts

Medical Drawer Laptop Cart W4 Series

LiFe Model Number	Worksurface Dimensions	Base Dimensions	Weight	MSRP Price
W40L-XX-YYYY-Z (w/ lock)	20"D x 20"W	18"W x 20"D	100 lbs.	\$4,220
W41L-XX-YYYY-Z (no lock)	20"D x 20"W	18"W x 20"D	99 lbs.	\$4,070
W42L-XX-YYYY-Z (w/cht. pocket)	20"D x 20"W	18"W x 20"D	96 lbs.	\$3,970
SLA Model Number	Worksurface Dimensions	Base Dimensions	Weight	MSRP Price
W40S-XX-YYYY-Z (w/ lock)	20"D x 20"W	18"W x 20"D	128 lbs.	\$3,020
W41S-XX-YYYY-Z (no lock)	20"D x 20"W	18"W x 20"D	127 lbs.	\$2,870
W42S-XX-YYYY-Z (w/cht. pocket)	20"D x 20"W	18"W x 20"D	124 lbs.	\$2,770

(L= LiFe Battery, S= SLA Battery, XX = counterbalance system - refer to pg.12, YYYY = worksurface color, refer to pg.13, Z = Accent Color, refer to pg. 13)

	Upper Surface 20"W x 11"D
2" Riser 20"	8"W x 9"D
18 s s s s s s s s s s s s s s s s s s s	
20"	18"

*Photo shown as W41

Medical Drawer Laptop Cart Reference:

W40 - Includes Medical Drawer (Ref. MD-30), Keyless Lock, Removable Insert, Integrated Handle

W41 - Includes Medical Drawer (Ref. MD-31), No Keyless Lock, Removable Insert, Integrated Handle

W42 - Includes Chart Pocket (Ref. MD-32)

• A19P

(Ascend Base w/ 100mm Heavy Duty Casters)

• WLT-40

(LiFe Battery System)

0R

(SLA Battery System)

Worksurface

• TLB2020

(1" Dual Surface)

• 1" 3D Laminate Upper Surface: slope edge Lower Surface: reversed tear drop edge

Accessory

• SAM-3

(Swing A Mouse)

• HW

(Handle)

· CT

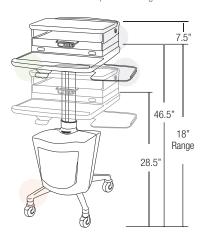
(Cord Tray)

(Medical Laptop Drawer)

· Drawer Front available in Matching 3D Laminate

· Drawer Housing - Platinum Finish

• For Additional Color Options See Pg. 13





Power System Enclosure



Handle with User Interface



Rear Access to Cord Trav



Coiled Power Cord (Left and Right Rear Worksurface Mounting)



Keyless Security System for Front Storage Compartment (W40 Only)



Drawer front in matching



Pull-Out Drawer w/ Removable Insert (Incl.) Dtw. & Ins. Dimensions: 18.44"W x 2.2"H x 8.75"D Six Compartments 4 - 2.625"W x 2.125"H x 8.5"D 2 - 2.625"W x 2.125"H x 7"D (W40 & W41 Only)



Back Compartment with Locking Panel Secures Technology Components and provides Cable Management



Swing A Mouse (SAM3)



Height Adjustment Hand Lever



100mm Highly Mobile Heavy Duty Tente Casters 2 Locking/2 Non-Locking



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Medical Drawer Flat Panel Cart

W5 Series



*Photo shown as W51

Medical Drawer Flat Panel Cart Reference:

N50 - Includes Medical Drawer (Ref. MD-40), Keyless Lock, Removable Insert, Integrated Handle

W51 - Includes Medical Drawer (Ref. MD-41), No Keyless Lock, Removable Insert, Integrated Handle

W52 - Includes Chart Pocket (Ref. MD-42), (18.5"W x 2"H x 9"D) LiFe Model Number

W50L-XX-YYYY-Z (w/ lock)
W51L-XX-YYYY-Z (no lock)
W52L-XX-YYYY-Z (w/cht_nocket)

W52L-XX-YYYY-Z (w/cht. pocket)
SLA Model Number
W50S-XX-YYYY-Z (w/ lock)

W51S-XX-YYYY-Z (no lock)

W52S-XX-YYYY-Z (w/cht. pocket)

Worksurface Dimensions
23"D x 20"W
23"D x 20"W
23"D x 20"W

Base Dimensions 18"W x 20"D 18"W x 20"D 18"W x 20"D

weight 101 lbs. 100 lbs. 98 lbs.

ight MSRP Price I Ibs. \$4,270 O Ibs. \$4,120 Ibs. \$4,020

Worksurface Dimensions Base Dimensions Weight **MSRP Price** 23"D x 20"W 18"W x 20"D 129 lbs. \$3.070 23"D x 20"W 18"W x 20"D 128 lbs. \$2.920 23"D x 20"W 18"W x 20"D 126 lbs. \$2.820

(L= LiFe Battery, S= SLA Battery, XX = counterbalance system - refer to pg.12, YYYY = worksurface color, refer to pg.13, Z = Accent Color, refer to pg. 13)

Base • A19P

(Ascend Base w/ 100mm Heavy Duty Casters)

• WLT-40 (Life Battery System)

0R • WST-55

(SLA Battery System)

Worksurface

• TFB2020 (Flat Panel Surface)

 1" 3D Laminate -Upper Surface: slope edge Lower Surface: reversed tear drop edge

Accessory

- SAM-3 (Swing A Mouse)
- HW
- (Handle)
- ·CT
- (Cord Tray)
- FSA-2 (Flat Screen Monitor Arm)
- MD-40 (Medical Flat Panel Drawer)
- Drawer Front available in Matching 3D Laminate
- Drawer Housing Platinum Finish

For Additional Color Options See Pg. 13



Drawer front in matching 3D Laminate

16" 7.5" 46.5" 18" Range

Chart Pocket Option



Chart Pocket Inside Dimensions: 18.5"W x 2"H x 9"D (W52 Only)



Power System Enclosure



Handle with External User Interface



Rear Access to Cord Tray



Coiled Power Cord (Left and Right Rear Worksurface Mounting)



Flat Screen Monitor Arm (FSA-2), 16" Height Adj., +100°/-40° Tilt, +/- 90° Swivel, +/- 180° Rotation, VESA Std., 75mm or 100mm



Keyless Security System for Front Storage Compartmen (W50 Only)



Pull-Out Drawer w/ Removable Insert (Incl.) Drw. & Ins. Dimensions: 18.44" W x 2.2" h x 8.75" D Six Compartments 4 - 2.625" W x 2.125" h x 8.5" D 2 - 2.625" W x 2.125" h x 7" D (MED-80P & MED-81P Only)



Back Compartment with Locking Panel Secures Technology Components and provides Cable Management



Swing A Mouse (SAM3) 8"W x 9"D



Height Adjustment Hand Lever and Black Vinyl Palm Support



100mm Highly Mobile Heavy Duty Tente Casters 2 Locking/2 Non-Locking





Accessorie

barcode holders

BCHBar Code Holder

Bar Code Holder
MSRP Price: \$50
Weight: 1 lbs.



4"W x 6"D x 3.5"H Worksurface Mount Black Finish

BCH-4 Cordless Bar Code Holder MSRP Price: \$50



4.5"W x 9.5"D 90° Swivel Worksurface Mount Platinum Finish

keyboard/mousing

SAM-3 Left

Left-handed Swing a Mouse **MSRP Price: \$50** Weight: 2 lbs.



8"W x 9"H Worksurface Mount Adjustment Paddle Drops Down to Allow for Dual Mousing Black Finish

MH Mouse House MSRP Price: \$25 Weight: .5 lbs



2.75"W x 4"H x 1.5"D Adhesive Mount White Finish

vital signs monitor holder

VS-10

Phillips Vital Signs Monitor Holder **MSRP Price: \$100** Weight: 3 lbs.



5"W x 9.5"D Worksurface Mount Weight Limit Not to Exceed 10 lbs. Platinum Finish

monitor arms

FSΔ

Flat Screen Monitor Arm MSRP Price: \$175 Weight: 6 lbs.



16" Height Adj., +100°/-40° Tilt, +/- 90° Swivel, +/- 180° Rotation, VESA Std., 75mm or 100mm, Weight Limit Not to exceed 30 lbs. Worksurface Mount Black Finish

cpu holders

CPU-FSM CPU Holder MSRP Price: \$100



Vesa Std. Mounting (75mm or 100mm) 3.5"W x 4.75"H Monitor Arm Mount Mounts to Back of FSA-2 Weight Limit Not to Exceed 5 lbs. Black Finish

miscellaneous

IVP IV Pole - Telescoping MSRP Price: \$150 Weight: 4 lbs.



Locking Collar Adjusts height from 22" to 40" Anodized aluminum tubing Weight Limit Not to Exceed 8 lbs. Anodized Aluminum

USB hub

USB-4PH USB 4-Port Hub MSRP Price: \$30 Weight: .5 lbs.



Expands 1 USB port into 4 Speeds up to 480 Mbps 23" cable length with 90° USB connector end 2.25" in Diameter, .5" H PC: Windows SE, 2000, ME, Vista or 7 Mac: OSX 10.3 or higher Inside Cord Tray Mount Grey Finish

miscellaneous

CF

Cool Feet™ Laptop Adj.

MSRP Price: \$20

Weight: .5 lbs.



Set of 4 (2) 1" H and (2) .5" H, Keeps Laptop Cool Suction Cup Attachment Grev Finish

drawer insert

RDI

Removable Drawer insert **MSRP Price: \$30** Weight: .5 lbs.



Removable Drawer Insert Insert Dimensions: 18.44"W x 2.2"H x 8.75"D Six Compartments: 4 - 2.625"W x 2.125"H x 8.5"D 2 - 2.625"W x 2.125"H x 7"D (W4 & W5 Only) White Plastic

adapter bracket

AB

Adapter Bracket

MSRP Price: \$50

Weight: .5 lbs.



Height Adjustable Upper Surface Adapter Bracket Fits taller technology components Height Spacing: 3.5", 4", 4.5"H (for use with model's W1, W3 & W4) Black Finish

Rear Basket

RB-2

Rear Basket

MSRP Price: \$120

Weight: 1 lbs.





The Rear Basket is designed to hold everything from blood pressure cuffs, IV bags, and even cordless barcode holder chargers.

Basket dimensions: 16.25"W x 5.24"D x 6"H

Light Grey or Medium Grey or Black Finish





*Depending on the total weight of your technology equipment and accessories, we offer three counterbalance

The following guideline illustrates which system is best for your individual use. To start guideline equation, add model number weight + optional accessory(s) weight + technology component(s) weight.

systems for maximum performance: Lite Duty (LD), Standard Duty (SD), and Heavy Duty (HD).



Model Number (includes worksurface and accessory) & Weights: Included Surface **Total** Model # Included Accessory(s) Weight Assembly W₁P TLB2020 (20 lbs.) + SAM-3 (2 lbs.) = 22 lbs.W3P THB2020 (23 lbs.) + SAM-3 (2 lbs.) + FSA-2 (3 lbs.) = 28 lbs.W40P TLB2020 (20 lbs.) + SAM-3 (2 lbs.) + MD-30 (8 lbs.) = 30 lbs.W41P TLB2020 (20 lbs.) + SAM-3 (2 lbs.) + MD-31 (7 lbs.) = 29 lbs.W42P TLB2020 (20 lbs.) + SAM-3 (2 lbs.) + MD-32 (4 lbs.) = 26 lbs.TFB2020 (13 lbs.) + SAM-3 (2 lbs.) + FSA-2 (3 lbs.) + MD-40 (13 lbs.) = 29 lbs. W50P TFB2020 (13 lbs.) + SAM-3 (2 lbs.) + FSA-2 (3 lbs.) + MD-41 (12 lbs.) = 28 lbs. W51P TFB2020 (13 lbs.) + SAM-3 (2 lbs.) + FSA-2 (3 lbs.) + MD-42 (10 lbs.) = 26 lbs. W52P

	2	Uptional worksurface Mounted Accessory(s) & Weights			
ı		Surface Mounted Accessory	Accessory Weight		
		BCH	1 lbs.		
		BCH-4	1 lbs.		
		CF	0.5 lbs.		
		CPU-FSM	1 lbs.		
		IVP	4 lbs.		
		RB-2	1 lbs.		
		SAM-3 Left	2 lbs.		
		VS-10	1 lbs.		

tional Workourfood Mountad Accord



Recommended
Counterbalanced System:

Lite Duty (LD): Supports Lifting Loads: 0-12 lbs.

Standard Duty (SD): Supports Lifting Loads: 13-40 lbs.

Heavy Duty (HD): Supports Lifting Loads: 41-60 lbs.

Counterbalance Guideline Step-by-Step Example:						
	Surface (Included)	Accessory(s) (Included)	Optional Accessory	Technology Component	Total Weight	Recommended System
Example: W1P: weigh	TLB2020 + ts: 20 lbs. +	SAM-3 Left 2 lbs.	+ BCH + + 1 lbs.	Laptop, Keyboard & Mouse + 8 lbs.	= 31 lbs. =	Standard Duty System (SD)