



logistics delivered...



NAVIGATING BUSINESS & INDUSTRY



# smart. simple. cost-effective.

**Automation normalizes the cost of manufacturing and material handling around the world – so companies can keep pace with customer demand, reduce costs and streamline the supply chain.**

**Adept** automates existing manual processes in assembly, handling, packaging and logistics. Today, intelligent *mobile* robots are an integral segment of Adept's automated solutions, delivering optimal levels of productivity.

**Case in Point: The Adept Lynx™ Autonomous Indoor Vehicle (AIV)** reclaims productivity lost when humans move material from point to point. The latest addition to the Adept family of robots, Lynx self-navigates from any starting point to wherever it's needed with zero infrastructure required.

As with all Adept robotic and control innovations, we've combined the intelligence and flexibility of people with the efficiency of automation.

**Simplicity ... delivered.**





# moving the world through innovation.

**Adept Technology has been inventing, manufacturing and deploying intelligent, vision-guided robotics for three decades. Today, we are the largest US-based industrial robotics company.**

A powerful engineering and technology focus continues to turn ideas into robust products by providing smart and mobile robotic systems. We've developed nearly 60,000 such solutions now at work around the globe – as well as mobile controls that have logged over 1,000,000 miles of autonomous navigation.

Adept continues to break ground in ultra-compact controllers, machine vision and user-friendly interfaces.

Whether in manufacturing, logistics, cleantech, medical or packaging industries, our customers are advancing in quality, productivity and reshoring efforts through Adept thinking ...

**Good for your customers. Good for business.**



# lynx™

autonomous indoor vehicles



## Lynx™ is a key element in the flexible manufacturing and logistics solutions delivered by Adept.

The cost of moving and delivering goods can account for more than two-thirds of total production costs. When humans spend time moving materials from station to station, productivity and efficiency are forfeited. Lynx™ reclaims lost productivity and eliminates the waste associated with assets such as conveyors and the hazards of using fork trucks around people and expensive capital equipment.

Lynx is available to developers, integrators and end-users for custom applications and payloads. It includes Adept's proprietary self-navigation software, ideal for use in crowded, peopled environments, tight hallways and applications where a small automated vehicle is advantageous.

### Product Features and Benefits

- **Simplifies** payload integration / small mobile platform
- **Senses** people and unanticipated obstructions
- **Easily reconfigures** facility or machine layouts
- **Easily deployed**, no facilities modifications required (MobilePlanner)
- **Localizes** via a virtual map (MobileEyes)
- **Transports up to 60kg** with **runtime of over 19 hours/day**
- **Easily configured and scalable fleets**





## Eliminating unnecessary deployment costs and maximizing flexibility is critical to achieving aggressive return on investment requirements.

Up to 15% of the cost of deploying a traditional automated guided vehicle (AGV) system is lost in adapting the site – wires or magnets in the floor or navigational beacons. Lynx eliminates extra time and expense with MobilePlanner™ mapping software, which requires ZERO facility modification.

AGVs are fixed-line followers, much like a bus that doesn't divert from its route; Lynx operates like a taxi – starting anywhere and going wherever needed via the best route, with the ability to avoid traffic jams. It intelligently navigates around unplanned obstacles, where conventional AGVs simply stop.

### Sample Lynx™ Applications

#### Manufacturing:

- Line-side replenishment
- Conveyor or overhead replacement
- LEAN operation enablement

#### Cleantech:

- Smart robotic arms with no FIFO/FILO constraints
- Smart sensor / RFID capable
- Reduces contamination

#### Intralogistics / Warehousing / Distribution:

- Random-in/random-out (RIRO)
- Full traceability of goods moved
- Scalability; add to or remove from fleet as needed

#### Healthcare:

- Transport security
- Path-planning in trafficked areas
- Improved nursing and clinician efficiency

**Productivity ... delivered.**



# usable. compact. in control.

The **Adept Motivity** suite of control technologies uses natural feature navigation to determine mobile asset location and manage response to exceptions, such as people and other obstacles in the environment. Companies using Motivity experience significant improvements in productivity, intelligence and system start-up.



**Adept Enterprise Manager** provides traffic control, job allocation and information management for an entire fleet of vehicles. It distributes transport requests across multiple AIVs, selects the best one for each job, and shares each robot's position and trajectory with others in its vicinity.

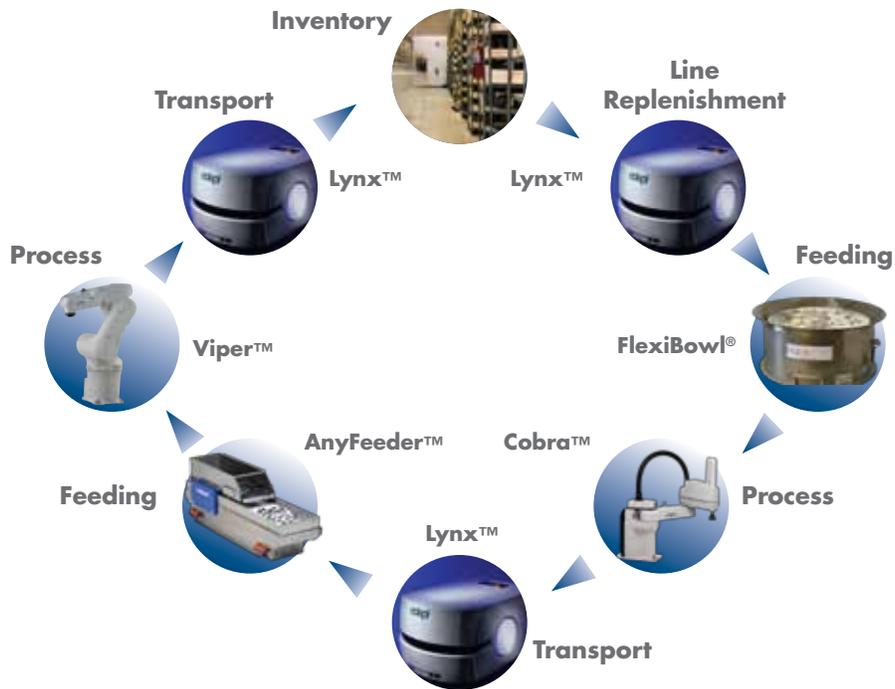
**Adept MobilePlanner** is PC-based software that builds floor plans and maps for AIV applications. Laser-guided robots scan a given environment to capture all natural features and customize virtual routes and forbidden lines for safe operation.

**Adept MobileEyes** software acts as an eye for the mobile robot, showcasing actual navigation on a virtual map and providing a visualization tool for location-tracking, camera images, path-planning and obstacle avoidance.

**Motivity Fleet Simulator** reduces layout time and installation cost with simulated robot missions that help estimate fleet size, optimize throughput and develop user software such as custom GUIs.



## Rounding out Adept's solutions for the complete Production Life Cycle ...



**Adept Cobra™** high-speed, high precision SCARA (4-axis) robots lead the category in assembly, kitting, packaging and other material-handling applications.



**Adept Viper™** 6-axis articulated robots are designed specifically for complex assembly applications, for a high level of flexibility, accuracy and accelerated time to market.



**Adept Quattro™** parallel (4-arm) robots are capable of up to 2,000 picks per hour. Fast, nimble, energy-saving and smooth, they minimize product breakage and maximize throughput.



**Adept Python™** linear modules, engineered for scalability and versatility in assembly and material-handling, are among the most robust modules for gantry or cantilever configurations.



**Adept SmartControllerEX™**, the industry's most compact motion control platform's latest generation, enhances robot performance with 10X more processing power and 4X more memory than its predecessor.



**Adept ePLC Connect™** enables customers new to robotics to easily install, program, operate and support high-performance robots through seamless connectivity with their PLC networks.



**Adept FlexiBowl®**, an innovative feed solution for any Adept robot and vision system, handles a wide array of small, loose parts, delivering higher throughput and faster changeover than traditional equipment.

# fast. flexible. adept.



To maximize the utility and value of Adept robotics and autonomous indoor vehicles, we make them smart, simple and cost-effective.

**It's the *only* way we make them.**

We stand ready to demonstrate how these technologies can prove their value in your environment today and into the future.

Contact us now... and move forward.



### **Worldwide Headquarters (USA)**

**Adept Technology Inc.** / 5960 Inglewood Drive / Pleasanton, CA 94588

Tel: +1 925 245 3400 / Fax: +1 925 960 0452 / [info@adept.com](mailto:info@adept.com)

[www.adept.com](http://www.adept.com)

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#### **European Headquarters**

Adept Technology GmbH

Otto-Hahn-Str. 23 / 44227 Dortmund / Germany

Tel: +49 231 7589 40 / Fax: +49 231 7589 450

[info.de@adept.com](mailto:info.de@adept.com) / [www.adept.de](http://www.adept.de)

#### **Paris Showroom**

**Adept Technology France SARL**

Parc d'activités du Haut de-Wissous

3, av. Jeanne Garnerin / Bât. 4, RDC gauche

91320 Wissous / France

Tel: +33(0)1-6919-1616 / Fax: +33(0)4-5069-1359

[Info.fr@adept.com](mailto:Info.fr@adept.com) / [www.adept-technology.fr](http://www.adept-technology.fr)

#### **Adept Technology**

**France SARL**

Parc Altaïs / 25, rue Véga

74650 Chavanod / France

Tel: +33(0)4-5002-8116 / Fax: +33(0)4-5069-1359

[Info.fr@adept.com](mailto:Info.fr@adept.com) / [www.adept-technology.fr](http://www.adept-technology.fr)