

Haddington Dynamics is the creator of Dexter, a high-precision, high-performance 3D-printed haptic robot powered by FPGA supercomputing technology. Dexter is designed as an open-source global resource that radically bends cost curves, and empowers society to redefine how humans use and interact with robots. Dexter has a 1Kg payload and its 50 micron repeatability is load independent.

Ready for orders!

Small Company – Big Plans

We have received so much support from the community. We are a small company and greatly appreciate this support. So we have decided to extend the introductory sale (The current full kit sales price does not require you to pay the cost of 3D Printing). We would like everyone to understand that because we are a small company constrained by resources, we have only a limited supply of robot kits, and will only continue the sale until December 31, 2015.



Dexter Applies to Universities

Young though he may be, Dexter is already applying to go to college. Two US schools have already requested interviews.

The Haddington team was visited by Matthew Cornelius, Director of Art Media Technology for Fine Arts Department at the New York Institute of Technology, at New York Maker Faire. We started to discuss the possibilities of HD presenting to the different disciplines at NYIT known for their world class computer graphics and animation. We will be there to showcase more of Dexter's features and functions and to start dialogue on integrating our technology into their HIVE (Home of Innovation Visualization and Exploration) center. NYIT is interested in bringing its students up to speed on manufacturing of the future and where robots can be integrated into art. If you are in New York we would love to see you at this presentation. Walk ins welcome or visit see our website <http://hdrobotic.com/exhibiting/> for reservations. The presentation will be at NYIT Auditorium on Broadway 1871 Broadway, between 61st and 62nd Streets, New York, NY, 10023, on November 18th, 2015 from 6-8PM.

The other school is the University of Las Vegas, our home town university. UNLV is known for their supercomputing capabilities, and ranked in the top 200 for Green supercomputing. Talks started to focus around the supercomputing needed with all the data generated from multiple Dexters' data files and how HD can partner with UNLV to look for patterns of best practices by using their supercomputer. The engineering department is interested in bringing its students into applications for Dexter, including integration into their unique Entertainment Engineering department.

DEXTER SAYS

THANK YOU

for signing up for our newsletter. We will provide monthly updates regarding, Dexter's progress, calendar of upcoming events, in the press, technical details, and big picture stuff, such as the economics and sociology of where low cost automation can go.

***Introductory price ending
12/31/15***

Order NOW

The introductory price of \$1,995 for the kit will expire at the end of the year. You can order now at <http://hdrobotic.com/store>



Dexter Shines in Las Vegas

The Las Vegas Global Economics Alliance ([LVGEA](#)) is a membership organization dedicated to developing the economies of Las Vegas, Clark County, Henderson, North Las Vegas, Boulder City, and Mesquite through regional cooperation, global trade, and global connectivity. They are the economic and community development resource for Southern Nevada. The LVGEA has been instrumental in bringing high tech companies to Southern Nevada.

They asked Haddington Dynamics to showcase Dexter at their largest annual event. The HD team got to show off Dexter to 700 business leaders and politicians. This display led to many great conversations as to where the robot can be used by local business. Educational leaders are excited to get HD's tech into their schools and robotics clubs.

A Look Under The Hood

Dexter's Specs

Haddington Dynamic's (HD) reconfigurable robot has a 1kg payload capacity and a 1m spherical open work envelope. Its precision of 0.05mm repeatability independent of load (Load Adaptive Repeatability) also makes HD extraordinary.

Paramount uniqueness is derived from our *HD TruTouch™* technology, which is created using optical measurement, millions of times a second, to achieve total sensory awareness. This haptic interface allows the robot to interact with high resolution force and sensitivity. The ultra-light material used on Dexter gives it a weight of only 6kg.

The *HD Hi-Q™* intelligent processor, a massively parallel supercomputer embedded in FPGAs, enables unprecedented computational performance for the advanced control algorithms, vision, neural networks, and digital signal processing (DSP), enabling bio-mimicry and humanlike behaviors. The compact nature of this *HD Hi-Q™* brain eliminates the need for the spacious, heavy, power-hungry and expensive controller racks other high precision, high performance robots.



Haddington Dynamics in the news:

[Reuters](#)

[Make:](#)

[EDN:](#)

[PCMag](#)

[Las Vegas Review Journal](#)

<http://hdrobotic.com/new-page/>

Haddington Dynamics will be exhibiting @

NYIT Auditorium on Broadway

November 18th, 2015 from 6-8PM

1871 Broadway, between 61st and 62nd Streets, New York, NY, 10023

Unionwear

November 19th, 2015 10am

305 Third Ave West

Newark, NJ 07107

BIOmed & Designers of Things –
San Jose Dec 2-3, 2015, San Jose
Convention Center. Showcase of
New Technology Exhibit

RoboUniverse San Diego

December 14-15, 2015, San Diego
Convention Center, Booth 222

San Diego Robotics Club Dec 16,
2015 6-8PM

<http://hdrobotic.com/exhibiting/>