



# IoT Products (Internet of Things Products)

物联网产品



"Smarctory" is an IoT solution which Nidec promotes for the factory innovation.  
"Smarctory" 是日本电产集团推出的工厂物联网品牌。

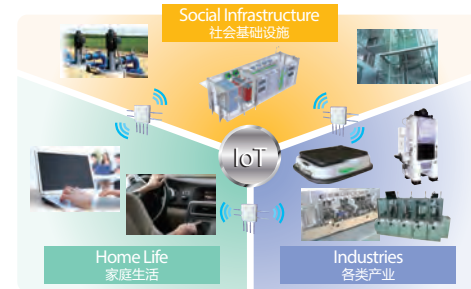
## The World where everything is connected via Internet

所有“事物”通过互联网组成了“互联世界”

### Nidec's Smarctory

Germany's Industry 4.0 focuses on the manufacturing industry, in automating the process of making things by connecting industrial equipment, in using collected data towards increasing productivity through yield improvement, and in deepening collaboration between companies participating in the supply chain. Nidec, as a professional in production, is working towards IoT production equipment, offering a variety of solutions for the IoT era.

日本电产集团的“Smarctory”计划由德国率先提出的“工业4.0”战略正聚焦于制造业，该战略将通过工业设备之间的相互配合实现自动化生产，运用收集到的数据改善成品率，从而提高生产效率，甚至还将加强处于供应链上的企业间合作。日本电产集团作为制造领域的行家，将尽快实现生产的物联网化，除所需生产设备以外，还将为客户提供迈向物联网时代的各种解决方案。



## IoT Gateway (IoT GW)

物联网网关 (IoT GW)

NIDEC CORP.™P41



- Basic Version 基础版**
  - LAN, USB
  - LAN/USB signal collection from machinery
  - Edge computing software
  - Using the USB port, WLAN dongle, 3G dongle are available.
- Extended Version 扩充版**
  - LAN, USB, RS232C, I<sup>2</sup>C, A/D, D-Port
  - Various signal collections from machinery
  - Edge computing software
  - Using the USB port, WLAN dongle, 3G dongle are available.

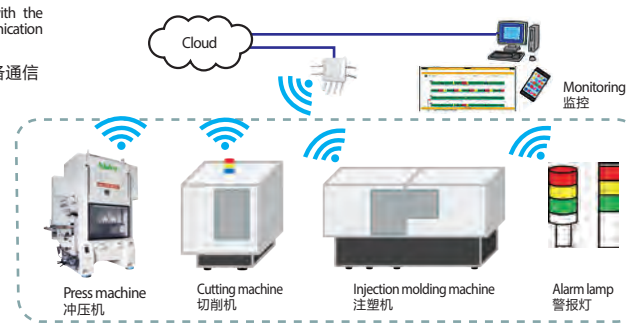
IoT GW enables the communication with the devices that don't have any communication functions.

安装物联网网关后，可以与不具备通信功能的设备进行通信。

IoT GW



Installation 安装



## IPS (Indoor Positioning System) 位置信息系统

NIDEC GLOBAL SERVICE CORP.™P47

Nidec is developing a business of Indoor Positioning System (IPS) with Quuppa in Finland. Quuppa's system detects the angle of arrival of radio waves, and calculates with advanced signal processing so as to obtain the position of the BLE (Bluetooth Low Energy) device in the format of "coordinate data", on real-time basis with high accuracy. BLE device has been rapidly spreading at good cost, and Quuppa system visualize the location and movement of people/things both for indoors and outdoors, enabling various types of analysis that contributes to improvement of work efficiency and security.

Nidec与芬兰公司Quuppa合作推进室内定位系统 (IPS) 业务。通过检测迅速普及的BLE (蓝牙低功耗) 设备的无线电波的方向，对高级信号处理并实时提供BLE设备的位置作为高精度“坐标数据”，“可视化”室内/室外人员和事物的位置和移动，从而进行有助于运营效率和安全性等各种分析。



## Modular Automation Line

模块化自动生产线

NIDEC MACHINERY CORP.™P47

Labor-saving, productivity and quality improvement with modularization of the assembly and inspection. It is possible to build the optimal line layout according to the application and purpose.

通过组立·检查的模式化实现了省人力化，提高了生产性·品质。结合用途·目的构造最好的产线布局。



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"Smarctory" 标志是日本电产株式会社在日本、美国以及其他国家的商标。



# Other Products

其他产品

## Music Boxes 八音盒 NIDEC SANKYO CORP.™P42

More than 10,000 different musics are available for gifts. 拥有1万首以上的乐曲库，八音盒最适合做为纪念品和礼品。

### Cylinder Musical Movements

音筒式八音盒

Cylinder with pins according to music rotate by spring power and it flicks comb (vibration plate) with each sound. Its mechanism create the melody. Sliding cylinder system makes it play longer for several music plays.

根据乐曲内容，拨片扫过通过发声旋转的圆筒上的凸点，拨动一根根拥有音阶的振动板，演奏出旋律。音筒横向移动可以延长演奏时间，增加演奏曲目。



### Disc Musical Movements

磁盘八音盒

Starwheel with projection and hole is rotated and flick the comb to play the melody. Everybody can enjoy the various musics by changing the disc same as the records.

让设计有突起和孔的星座盘旋转，弹拨振动板演奏旋律。像CD一样只需切换碟片即可以欣赏不同的音乐。



Nidec Sankyo Corporation Music Box Museum Suwanone. Nidec Sankyo, is the only integrated manufacturer of music boxes in Japan, has renovated the Lake Suwa Music Box Museum Somei-kan and re-opened on March, 2016 as Music Box Museum Suwanone.

日本电产三协八音盒纪念馆 谒访的清音  
日本国内唯一的八音盒一体化制造厂商日本电产三协，于2016年3月重新开放了旧访湖八音盒博物馆“奏鸣馆”。



## Ceramic Art Equipment 陶艺设备

NIDEC SHIMPO CORP.™P43

NIDEC brand of Potter's Wheels have the world's No.1 market share. NIDEC-SHIMPO also manufactures Kilns and Pug Mills for the Ceramics market. We have wide-range products as a world leader of the manufacturer for the Ceramic's market.

尼得科品牌的电动制陶机在日本国内外的市场占有率均居领先地位，此外，作为综合性陶艺设备制造商，我们还开发包括制陶电窑及练泥机在内的品种丰富的产品。



## Services 服务

NIDEC GLOBAL SERVICE CORP.™P47

### Hotel Service

酒店业务

We have "Green Sun Hotel" in Shimosuwa, Japan and "Green Sun Hotel" in Pinghu, China.

我们在信州下諏访有“GreenSun Hotel”，并在中国浙江省平湖市有“绿阳大饭店”。



Green Sun Hotel, Shimosuwa, Japan  
绿阳大饭店  
信州下諏访温泉



Green Sun Hotel, Pinghu, China  
绿阳大饭店

### LED Business

LED业务

By proposing the introduction of LED lighting, we will realize energy saving and reduction of environmental impact.

通过引入LED照明，可以实现节能和减少对环境的影响。



For General Lighting  
一般照明



For Large-Scale Facilities Lighting  
大型设施照明