How are the regulatory exceptions used in the Mobile Cobot Regulatory Free Zone?

TEST DEMONSTRATION PERIOD

December 1 2020 ~ November 30, 2022



Test demonstration of mobile cobots that work on the move which can be applied in the manufacturing and production process

The use of mobile cobots that work on the move in manufacturing and production sites is not possible and only stationary operation is allowed due to the absence of mobile cobot safety standards

Improvement

Expand the scope of use of cobots in manufacturing and production sites and improve the production system of SMEs by allowing the use of mobile cobots that work on the move

Automated manufacturing process (car lamp module)

Manufacturing process

(automobile door latch)

Large product production process (pressure tank)

Small amounts of various automobile production processes

(parts welding) Logistics warehouse management for electronic parts

Test demonstration of work done on the move by mobile cobots for untact service in shared living space

The application of mobile cobots that work on the move in untact service work(pest prevention, sterilization) is not possible and only stationary operation is allowed due to the absence of mobile cobot safety standards

Proactively respond to the demand for untact robot services and contribute to the expansion of the new robot market by allowing the use of mobile cobots that work on the move

> Untact service in sharing living space (pest prevention & sterilization site)

MOBILE COBOTS



Automated manufacturing process

fcar lamn module



Manufacturing process (automobile door latch)





production process

production processes





Logistics warehouse management for electronic parts



in sharing living space (pest prevention & sterilization site)

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A GLOBAL ROBOT CITY WHERE PEOPLE AND ROBOTS COEXIST, DAEGU

Daegu **Mobile Cobot** Regulatory Free Zone













What is the Mobile Cobot **Regulatory Free Zone?**

It is a designated area for the expansion of the scope of use of mobile cobots and the promotion of the commercialization of robots that can coexist with humans through regulatory innovation of the robot industry, the future growth industry of Daegu

*What are mobile cobots?

It is a new product made by combining cobots and bogies using new technology which is anticipated to contribute to the revitalization of the robot industry by expanding the market not only to diverse and flexible manufacturing and production systems but also to professional services such as pest prevention and logistics

Where is the Mobile Cobot **Regulatory Free Area located?**



embers of ongseo Industrial Park	Horimdong, Wolamdong, Daecheondong Dalseogu Daegu, etc.
embers of the obotics Industry Cluster	Noweondong Buk-gu Daegu, etc.
embers of negu Technopolis	Yugaeub Dalseo-gu Daegu, etc.
embers of iseong Alpha City	Daeheungdong Suseong-gu Daegu, etc.

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Daegu Mobile Cobot Test Demonstration Subjects



Test demonstration Name

Demonstration of mobile cooperative robots for the application of small amounts of various automobile production processes (parts welding)

Organizing Entity VIISIING PRECISION IND CO. ITD

Participating Institution

OPTIMUS NEXT GENERATION OF TECHNOLOGY. DAEGU MECHATRONICS & MATERIALS INSTITUTE



Test demonstration Name

Demonstration of a mobile collaborative robot for application to large product production process (pressure tank)

Organizing Entity Yuiin Mechatronics

Participating Institution

YULIM FACTORY AUTOMATION. DAFGII MECHATRONICS & MATERIALS INSTITUTE



Test demonstration Name

Demonstration of mobile cooperative robot for application of manufacturing process (automobile door latch)

Organizing Entity

Participating Institution

POWER TECH, ONE SYSTEM. DAEGU MECHATRONICS & MATERIALS INSTITUTE





- . Discover diverse new business models and spread the use of service robots through the application in service fields with potential for high growth
- · Prepare safety standards for mobile cobots through test demonstrations and lead domestic and international standardization



Test demonstration Name Demonstration of mobile manipulator for

untact service in sharing living space Organizing Entity

Daegu digital innovation promotion agency

Participating Institution ZETABANK(Robot Al Daegu Lab).

Huons Meditech, Unmanned Solution, DGIST



Test demonstration Name

Demonstration of mobile collaborative robot for application of automated manufacturing process (car lamp module)

Organizing Entity SI Cornoration (Seongsen Flectronics Plant)

Participating Institution

Daegu Mechatronics&Materials Institute



Test demonstration Name

A project that builds, operates and evaluates a mobile cooperative robot for application of logistics warehouse management for electronic parts

AJUNEXTEK Co. 11d

Organizing Entity Participating Institution

BADIX CO., LTD.,

Daegu Mechatronics&Materials Institute