Scaglia Indeva
A worldwide network at your service

A reliable Company with a long history

The ant is a tireless and intelligent worker. It is able to lift and carry with ease loads much larger than itself. This simple analogy represents Scaglia Indeva’s mission to design and produce industrial manipulators that are compact yet strong, simple yet intelligent, and offer improved performance whilst reducing the risk of injury and improving workforce wellbeing.

A world-leading manufacturing company in the field of material handling and intra-logistics

Since 1838 this family-owned company has been at the forefront of manufacturing and is now an important industrial group with diverse business interests worldwide. Since 1970 Scaglia Indeva has been at the leading edge of design and manufacture of innovative, ergonomically designed industrial manipulators that are used by major global manufacturers in varied applications throughout the world.

World-wide, Scaglia Indeva works with many blue-chip manufacturers across most sectors, including the leading automotive companies, where innovative and reliable material handling solutions are required. Our headquarters are in Val Brembilla - Italy. Our key locations offer a central sales and support operation, which provides excellent engineering services and supply of spare parts.

References

ABB
AIRBUS
AKZO FIBERS
APRILIA
ARCELOR-MITTAL
AUDI
B.P. CHEMICALS
BANK OF ENGLAND
BANQUE DE FRANCE
BARILLA
BEKAERT
BENTLER
BENTLEY
BMW
BORG WARNER
BOSCH
BREMBO
BREMSTONE FIRESTONE
BRITISH-AMERICAN TOBACCO
CATERPILLAR
CHRYSLER
CIBA GEGY
CITROËN
COCA COLA
COMAU
CONTINENTAL
CPM-DÜRR GROUP
DAIKIN

DAIMLER
DENSO
DUCATI
DUNLOP
ELECTROLUX
ENICHEM
FAURECIA
FCA
FERRARI
FERRERO
FIAT
FINMECCANICA
FORD
FRESNIEUS
GE AUTOMATION
GE AVIATION

GENERAL ELECTRIC
GENERAL MOTORS
GLAXO
GOOD YEAR
ITALTEL
IVECO
JAGUAR LAND ROVER
JOHN DEERE
JOHNSON & JOHNSON
JSB
KELLOGGS
KIMBERLY CLARK
KRAFT GENERAL FOODS
KUKA
LAMBORGHINI
LEAR
LEONARDO HELICOPTERS
MAGNA WERKZEUGTECHNIK
MAHLE
MAN ROLAND DRUCKMASCHINEN
MERCEDES BENZ
MICHELIN
MOET & CHANDON
NESTLE
NISSAN
OPEL
PEPSICO
PERFETTI

HEADQUARTERS & PRODUCTION UNIT
ITALY

GERMANY
FRANCE
UNITED STATES
P.R. OF CHINA
UNITED KINGDOM
SWEDEN
RUSSIA

PEUGEOT
PHI LIP MORRIS
PIAGGIO
PIRELLI
PPG
PROCTER & GAMBLE
PSA
RENAULT
REYNOLDS TOBACCO
ROLLS-ROYCE
SAAB
SAINT GOBAIN
SCARIA
SCHNEIDER ELECTRIC
SIEMENS
STILL
TENARIS
THYSENN
TOYOTA
UNIPFI
UNIROYAL
VALEO
VOLKSWAGEN
VOLVO
WHIRLPOOL
ZF
The Liftronic® Series, known as INDEVA®, is a new generation of advanced industrial manipulators featuring electronic control. They represent the evolution from traditional manipulators and are part of the innovative product group of load handling devices known as Intelligent Assist Devices.

This series is equipped with an advanced electronic control system which overcomes the control limitations of pneumatic manipulators. They provide truly ergonomic and effortless handling.

The INDEVA® Liftronic® series offers numerous important and unique advantages over a traditional pneumatic manipulator, especially the auto-weight sense and auto balancing features:

- **Increased productivity**: using an INDEVA®, output can be maintained throughout a full shift giving increased productivity and operator wellbeing.
- **Better ergonomics**: a fingertip-sensitive handle allows for the lifting or lowering of heavy loads by simply touching the handle with a finger. Very little human effort is required during any part of the lift, place and lower process.
- **Higher precision**: with considerably more speed and precision than a traditional pneumatic manipulator, an INDEVA® allows for unsurpassed precision, where the operator will intuitively work at the pace best suited to the task. The operator has exceptional control with the lightest of touch needed.
- **User friendly**: the auto weight sensing and auto balancing functions operate in real time, so no need to pre-set the load or to keep buttons depressed. The Float Mode option allows the operator to control movement directly from the load.
- **Safety**: state-of-the-art safety features prevent movement unless an operator is present and in control. Should a power failure occur, the motor is held with a mechanical lock and the load cannot be released until power is restored, or the full weight of the load is supported.
- **Wireless connectivity for industry 4.0**: an INDEVA® can exchange data with the Customer IT System through the Company Network and allows visualisation of manipulator activity by means of interface software.
- **Remote trouble shooting**: an INDEVA® can be connected via Wi-Fi to App Indeva, so that machine data can be transferred to a remote tablet or smartphone in real time. This can assist fault diagnosis, so significantly reducing call-out charges and operator downtime.
- **Environment friendly**: low carbon footprint thanks to efficient and low energy consumption.

In applications which require speed of handling, smooth movement and precise load placement, the INDEVA®s Liftronic® Series provide a perfect solution.

A recent case study by the Engineering Faculty of the Brescia University and published by the International Journal of Industrial Ergonomics, together with a comparison study carried out by the University of Milan proved how the use of an INDEVA® satisfies current industry demand for increased productivity combined with improved ergonomics and safety.
**Liftronic® Series**

Intelligent Devices for Handling

The Liftronic® Series Intelligent Devices for Handling, known as INDEVA®, represent true evolution of traditional industrial manipulators. State-of-the-art standardised components, combined with cutting-edge technology, hardware and optimised software provide a high degree of safety and reliability.

**Electronic control**

The Liftronic® Series Intelligent Devices for Handling, known as INDEVA®, represent true evolution of traditional industrial manipulators. State-of-the-art standardised components, combined with cutting-edge technology, hardware and optimised software provide a high degree of safety and reliability.

**Pneumatic control**

PN series manipulators are traditional industrial manipulators featuring pneumatic control and drive. All manipulators in the PN Series can be designed in accordance with ATEX regulations as per EU Directives 2014/34 regarding applications in controlled environments with danger of explosion, classified classes 1 and 2 (Gas) (only for PN Flex) and 21 and 22 – Dust (for all PN series models).

**Manipulators range**

### Liftronic Easy

- Capacity up to 320 kg.
- Suitable for rapid and repetitive work cycles with simple gripping tools.

### Liftronic Pro

- Capacity up to 500 kg.
- Suitable for complex work cycles with bespoke gripping systems.

### Liftronic Air

- Capacity up to 350 kg for standard models and 450 kg for special applications.
- Suitable for handling offset loads with speed and precision.

### PN Flex

- Capacity up to 310 kg for standard models and 450 kg for special applications.
- Suitable for handling offset loads.

### PN Ergo

- Capacity up to 320 kg for standard models and 450 kg for special applications.
- Suitable for handling offset loads.

### PN Compatto

- Capacity up to 310 kg.
- Suitable for handling offset loads in a small work area.

### PN Zip

- Capacity up to 100 kg.
- Very compact structure suitable when a short vertical stroke is required.

**Auto-weight Sense**

- Automatic weight sensing in real time.
- Moves as fast or as slow as the operator desires using fingertip control with minimal effort and instant response.
- Precise and coordinated with fine adjustment allowing accurate placement so reducing the risk of damage.

**Auto-balancing**

- Weight balancing is not automatic or real time. Press set-up via selector switch.
- System response is slower and feels heavier because of this, especially with upward movement.

**Responsiveness**

- Some resistance is felt as air enters and leaves the cylinders so restricting natural speed of movement.
- System requires heavier and bulkier structure so reducing visibility and maneuverability.
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**Load placement**

- Precise and coordinated with fine adjustment allowing accurate placement so reducing the risk of damage.
- Light and compact structure allows great visibility and ease of maneuverability.

**Carbon footprint & total cost of operation**

- Lower: a comparative study showed that the CO2 output and total running cost of an INDEVA® is around 12.5% that of a pneumatic manipulator.
- Higher: a comparative study showed that the CO2 output and total running cost of an INDEVA® is around 8 times that of an INDEVA®.

**Maneuverability**

- Light and compact structure allows great flexibility and ease of maneuverability.
- Simple and efficient: by means of display.
- Check and diagnosis by expert technician attending site. Remote trouble shooting is not available.

**Diagnostic & remote trouble shooting**

- Comprehensive auto-diagnostic software and remote trouble shooting with App-Indeva or INDEVA® Gateway.
- Restricted options to identify faults at the machine.

**Man / machine interface**

- Simple and efficient: by means of display.
- Restricted options to identify faults at the machine.
**Liftronic® Easy**  
Intelligent Device for Handling

Liftronic® Easy is an INDEVA®- Intelligent Device for Handling. Suitable for rapid and repetitive work cycles with simple gripping tools.

**Main features**
- Auto-weight sense and auto-balancing
- Can be integrated with App-Indeva and INDEVA® Gateway
- Unparalleled safety
- Ergonomic design
- Simple gripping devices
- Compact and light
- Fast, responsive and precise
- Low-carbon footprint

**INDEVA® Modulo**  
Make your own gripping tool

INDEVA® Modulo is a standard component range for assembling a gripping tool which is to be attached to a Liftronic® Easy tool head. It is easy for customers to design the tool to best suit their needs and then purchase the necessary parts. These standardised modules have been proven over many years and are a key part of our continuous improvement and development program.

**I-Connect**
These chucks can be fitted with jaws according to your specific requirements

**Gripping Modules**
Standard I/O Interface module: you can easily implement safety functions for your own custom gripping tool.

**Accessories**
Air and electric connections via a continuous swivel joint at the toolhead to keep cables from tangling.

**Scissor pantograph**
Remote control handles complete with centre of gravity adjustment

**Linear pantograph**
Simple remote handle frame

**Machine/Operator Interfaces**
Remote controls
Remote touch sensitive handle available in different lengths

**TECHNICAL DATA**
- Max. gross capacity: from 80 to 320 kg (weight of lifting tool included)
- Power supply: 110/230 V-AC - 50/60 Hz
- Power consumption: max 700 VA
- Enclosure protection: 54 IP
- Vertical stroke: up to 2.80 m

**INDEVA® Gripping tools**
- Linear
- Compact
- Expanding Chuck

**Liftronic® Series**
App-Indeva and INDEVA® Gateway
Wi-Fi Network Connectivity

Industry 4.0 ready

App-Indeva is a virtual INDEVA® service engineer always at your site providing machine data capture and analysis, diagnostic and real-time trouble shooting whenever it is needed.

App-Indeva is based on an in-house designed App suitable for Android smartphone or tablet that can be connected via Wi-Fi to the lift assistor, features Real-Time Capability to collect and analyse machine data and deliver the results to the operator, maintenance technician or a remote Indeva Service Centre.

If you are using an INDEVA® manipulator equipped with App-Indeva you will increase your machine availability through:

• reduced time for diagnosis and trouble shooting by your staff
• reduced time for communication with an INDEVA® service centre
• reduced time for malfunction repair by INDEVA® staff

INDEVA® Gateway allows real-time data exchange with the Customer IT System through the Company Wi-Fi network and allows visualisation of production data by means of an interface software.

Main features
• Auto-weight sense and auto-balancing
• Can be integrated with App-Indeva and INDEVA® Gateway
• Unparalleled safety
• Ergonomic design
• Bespoke gripping devices
• Compact and light
• Fast, responsive and precise
• Low carbon footprint

Liftronic® Pro
Intelligent Device for Handling

It is used for complex applications with bespoke gripping systems.

Liftronic® Pro is an INDEVA® - Intelligent Device for Handling.

Liftronic® Pro is an INDEVA® - Intelligent Device for Handling. It is used for complex applications with bespoke gripping systems.

Liftronic® Series

INDEVA® Gripping tools

TECHNICAL DATA
Max. gross capacity: from 80 to 320kg (weight of lifting tool included)
Power supply: 110/230 V-AC - 50/60 Hz
Power consumption: max 700 VA
Vertical stroke: up to 2.80m

Options for all Liftronic® Series units

App-Indeva

In the image, the Liftronic® Pro is shown as a large, industrial device designed for handling tasks. The Liftronic® Pro is specifically noted for its use in complex applications with bespoke gripping systems. The Liftronic® Pro is described as an INDEVA® - Intelligent Device for Handling, indicating its advanced capabilities in handling tasks efficiently and accurately.

The INDEVA® Gateway is highlighted as a feature that allows real-time data exchange with the Customer IT System through the Company Wi-Fi network. This connectivity is crucial for monitoring and managing production data, enabling operators and technicians to access real-time data and make informed decisions promptly.

The App-Indeva is another key feature, designed to be compatible with Android smartphones or tablets. It connects via Wi-Fi to lift assistors, collecting and analysing machine data in real-time. This capability enhances the efficiency and effectiveness of maintenance and troubleshooting processes.

The text emphasizes the benefits of using App-Indeva, including reduced time for diagnosis, trouble shooting, and communication with service centres. These improvements are expected to increase machine availability, contributing positively to industrial operations.

The INDEVA® Gateway and App-Indeva together represent a comprehensive solution for modernising industrial handling processes, ensuring that operations are more efficient and responsive to the needs of the industry 4.0 era.
Liftronic® Pro & Easy

Versions

Articulated Arms

2 JOINT ARMS
Standard arms featuring 2 joint articulation.

<table>
<thead>
<tr>
<th>STRUCTURE</th>
<th>R1 (m)</th>
<th>2.5</th>
<th>3.5</th>
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<tr>
<td>L= Light</td>
<td>LC kg</td>
<td>400</td>
<td>600</td>
<td>650</td>
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<td>R2 (mm)</td>
<td></td>
<td>550</td>
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<tr>
<td>H= Heavy</td>
<td>LC kg</td>
<td>260</td>
<td>190</td>
<td>105</td>
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<tr>
<td>R2 (mm)</td>
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<td>760</td>
<td>880</td>
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<td>X= Extra</td>
<td>LC kg</td>
<td>-</td>
<td>320</td>
<td>280</td>
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<tr>
<td>R2 (mm)</td>
<td></td>
<td>680</td>
<td>1000</td>
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</table>

LC= max load capacity; R2= dead area

3 JOINT ARMS
The INDEVA® Orbit Arm3 is a 3 joint arm available on request for both column and overhead versions with capacities up to 145 kg (including tooling). The 3 joint Arm provides increased coverage within the radius of the arm and offers the operator smooth, controllable movement across the full radius with the added benefit of quick sideways movement using the forearm only.

<table>
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<tr>
<th>STRUCTURE</th>
<th>R1 (m)</th>
<th>2.75</th>
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<th>3.75</th>
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<td>L= Light</td>
<td>LC kg</td>
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</tr>
<tr>
<td>R2 (mm)</td>
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<td>H= Heavy</td>
<td>LC kg</td>
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<td>R2 (mm)</td>
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<td>105</td>
<td>250</td>
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<tr>
<td>X= Extra</td>
<td>LC kg</td>
<td>-</td>
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<tr>
<td>R2 (mm)</td>
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</table>

LC= max load capacity; R2= dead area
Liftronic® Air
Intelligent Device for Handling

Pneumatic drive - electronic control

The world’s first manipulator with the strength of a traditional pneumatic manipulator and the intelligence of an INDEVA®.

It offers electronically controlled air and load management, delivering precise, energy efficient handling and auto weight sensing, removing the responsibility from the operator to make adjustments for different weights by utilising our touch sensitive handle technology.

It is suitable for handling offset and/or very heavy loads with minimum effort.

Liftronic® Air units can be supplied either column, ceiling or overhead rail mounted.

Compared to traditional pneumatically controlled manipulators, Liftronic® Air offers important advantages which help improve safety, ergonomics, productivity and the Environment.

Main features
- Efficient use and delivery of air
- Auto-weight sense and auto-balancing
- Unparalleled safety
- Fast, responsive and precise
- Low carbon footprint

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<tr>
<th>STANDARD MODELS</th>
<th>LA80</th>
<th>LA160</th>
<th>LA250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross capacity (including lifting tool)</td>
<td>kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vertical stroke</td>
<td>mm</td>
<td>1752</td>
<td>1752</td>
</tr>
<tr>
<td>Arm length</td>
<td>mm</td>
<td>2700</td>
<td>2700</td>
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<tr>
<td>Offset handling, max. distance from the lifting tool Z axis</td>
<td>mm</td>
<td>300</td>
<td>300</td>
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<tr>
<td>Uncovered area</td>
<td>mm</td>
<td>907</td>
<td>907</td>
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<tr>
<td>Rotation around column axis</td>
<td>degrees</td>
<td>360°</td>
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<tr>
<td>Rotation around tool axis</td>
<td>degrees</td>
<td>550°</td>
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<tr>
<td>Air pressure min.</td>
<td>bar</td>
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<tr>
<td>Power supply</td>
<td>V-AC Hz</td>
<td>115/230 50/60</td>
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<tr>
<td>Power consumption max</td>
<td>VA</td>
<td>100</td>
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<tr>
<td>Enclosure protection</td>
<td>IP</td>
<td>54</td>
<td></td>
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</table>

*With counterweights and reinforcement for arm.
PN Series
Traditional Industrial Manipulators

PN Series are traditional industrial manipulators featuring full pneumatic operation. It is suitable for handling offset and/or very heavy loads.
PN units can be supplied either column, ceiling or overhead rail mounted.

Main features

- **Reliable**
  Continuous product development using standard modules and components for improved safety and efficiency.

- **Safe**
  Equipped with safety devices that maintain the grip on the load, even in the event of a total air loss. It is not possible to release the load when it is fully supported by the machine. When the control handle is released, a full set of brakes lock the machine and prevent further movement.

- **Versatile**
  It can be equipped with a wide range of bespoke tools operated pneumatically by grip or vacuum. Simple mechanical tools can also be used.

### STANDARD MODELS

<table>
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<tr>
<th></th>
<th>PN80</th>
<th>PN160</th>
<th>PN250</th>
</tr>
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<tbody>
<tr>
<td><strong>Gross capacity (including lifting tool)</strong></td>
<td>kg</td>
<td>80</td>
<td>160</td>
</tr>
<tr>
<td><strong>Vertical stroke</strong></td>
<td>mm</td>
<td>1752</td>
<td>1752</td>
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<tr>
<td><strong>Arm length</strong></td>
<td>mm</td>
<td>2700</td>
<td>2700</td>
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<td><strong>Offset handling: max. distance from the lifting tool Z axis</strong></td>
<td>mm</td>
<td>300</td>
<td>300</td>
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<tr>
<td><strong>Uncovered area</strong></td>
<td>mm</td>
<td>907</td>
<td>907</td>
</tr>
<tr>
<td><strong>Rotation around column axis</strong></td>
<td>degrees</td>
<td>continuous</td>
<td></td>
</tr>
<tr>
<td><strong>Rotation around tool axis</strong></td>
<td>degrees</td>
<td>standard 550</td>
<td>optional continuous</td>
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<tr>
<td><strong>Air pressure min.</strong></td>
<td>bar</td>
<td>6.5</td>
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*With counterweights and reinforcement for arm.
Industry fields

- AGRICULTURE
- AEROSPACE
- AUTOMOTIVE
- BATHROOM AND TOILETWARE
- CERAMIC
- CHEMICALS/PHARMACEUTICALS
- ELECTRO-MECHANICAL
- ELECTRONICS
- FOOD/DRINK/TOBACCO
- FOUNDRY
- FURNITURE
- GLASS
- HOUSEHOLD ELECTRIC APPLIANCES
- MECHANICS
- METAL WIRES
- MOTORCYCLES
- PAPER PRODUCTION
- RUBBER/PLASTICS
- TEXTILE
- TYRES
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<td><a href="mailto:info@se.indevagroup.com">info@se.indevagroup.com</a></td>
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<td><a href="http://www.indevagroup.se">www.indevagroup.se</a></td>
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<tr>
<th>SIT INDEVA</th>
<th>United States</th>
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<tbody>
<tr>
<td>S.I.T. INDEVA Inc.</td>
<td></td>
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<tr>
<td>3630 Green Park Circle</td>
<td></td>
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<tr>
<td>Charlotte, NC 28217</td>
<td></td>
</tr>
<tr>
<td>Tel. +1 704 357 8811</td>
<td></td>
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<tr>
<td>Fax +1 704 357 8866</td>
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<tr>
<td><a href="mailto:info@sit-indeva.com">info@sit-indeva.com</a></td>
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<tr>
<th>SIT INDEVA</th>
<th>P. R. of China</th>
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<tr>
<td>SIT INDEVA (Shanghai) Ltd</td>
<td></td>
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<tr>
<td>Shanghai Nanhai Industrial Park</td>
<td></td>
</tr>
<tr>
<td>#2 Building, No 269 YuanZhong Rd. 201300</td>
<td></td>
</tr>
<tr>
<td>Tel. +86 (21) 5108 2206 - 137</td>
<td></td>
</tr>
<tr>
<td>Fax +86(21) 6486 3511</td>
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<tr>
<td><a href="mailto:info@cn.indevagroup.com">info@cn.indevagroup.com</a></td>
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<tr>
<th>Scaglia INDEVA</th>
<th>Russia</th>
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<tr>
<td>Scaglia INDEVA Rus LLC</td>
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<tr>
<td>Moscow, Kaluzhskoye shosse.</td>
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<tr>
<td>23-я километр, 14к3, office 90-91, Russia</td>
<td></td>
</tr>
<tr>
<td>Tel. +7 (812) 4495016</td>
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<tr>
<td><a href="mailto:info@ru.indevagroup.com">info@ru.indevagroup.com</a></td>
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