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ABOUT

SCIENGATE AUTOMATION

WHO WE ARE
Sciengate Automation (M) Sdn. Bhd. together with its associates started off as a trading and engineering company in 1991, been established over 30 years specialising exclusively in providing reputable brands of factory automation system components parts to the MANUFACTURING and OEM industries.

WHAT WE DO
Sciengate is dedicated in providing customers with the most cost effective and technically advanced solutions in the automated process. We provide end to end solution. We provide direct integration into existing system, pilot testing and proof of concept.

30 years of experience in providing solution for control and measurements in the market. Partnering with leaders in the industries from local and overseas, we have standard software, embedded controllers, customised software developments & Sensors.

OUR EXPERIENCE
We have delivered projects to multinational corporation (MNC) such as Panasonic, Western Digital, Continental Tyre Malaysia, SKF Bearing, Sensata Technology, Perodua Manufacturing and others.
Software for Manufacturing Analytix in Real Time (SMART) 4.0 is a fully customizable and adaptable solution where customers require insight into what is happening in their shop floor. With over 15 years of experience in solving manufacturer’s data connectivity, we have come a long way in creating SMART 4.0 platform that uses the latest technology in IOT.
Dashboard Smart 4.0
**BENEFITS**

- **Reducing operating cost**
- **Gaining insight into machine operation conditions**
- **Improving response time**
- **Eliminating wastage and improve productivity**

**SMART 4.0 FEATURES:**

- Monitor and reports machine usage, conditions and losses
- Notification and alerts via email or popular messaging APP to alert key personnel on issues related to machines.
- Do away with traditional paper work. Smart 4.0 user interface can be adapted to mobile, or tablet environment. Production target/achieve quantity, machine stoppage reasons can be entered into the system.
- Automatic or on demand report can be generated and distributed to the management.
- Web based dashboard display provides stunning and clear results to be shared with operators and management. Fast response to any abnormality can be identified and resolve. Data’s are updated in real-time.
SMART 4.0 consist of the following modules:

- **Dynamic dashboard**
  Collaborate and share shop floor information across various department. Aligns objective and goals easily with clear representation of expectation and results.

- **Analytix and Reporting Engine**
  Supports key decision makers with insightful data from the shopfloor. Identify operation baseline, daily, weekly trends, key losses and many more. User defined reporting that can be published, shared and digitally documented.

- **User Interface**
  Customized web based user interface for parameter, machine, production and maintenance entry or remarks

- **Data Storage**
  Distributed or centralized database engine. Uses MS SQL or Postgre SQL as standard. Different SQL can be accommodated upon request.

- **Data Acquisition Module**
  Interface to machine directly using serial, Ethernet or Wireless Solution. Reads machine information on demand in real-time
**SMART 4.0**

**ANDON SYSTEM FOR MANUFACTURING**

Andon systems are traditionally implemented as an alert and notification to notify problem in the shop floor requires urgent attention. Alerts are displayed on a big display and placed on key areas that can be visually seen by all parties concerned.

SMART 4.0 enhances this further by tracking the time to resolve various problem and monitor the Overall Equipment Effectiveness (OEE) all in a single solution.

**PATLITE WIRELESS ARCHITECTURE**

**PATLITE WD TRANSMITTER**

- **WD-LR-Z2 Transmitter**
  - Signal Tower LR6 Transmitter
  - WDT-6LR-Z2
  - Transmission Distance: 20m
  - Current Consumption: max 55mA

- **WDT-5LR-Z2 Transmitter**
  - Signal Tower LRS Transmitter
  - WDT-5LR-Z2
  - Transmission Distance: 20m
  - Current Consumption: max 55mA

- **WDT-4LR-Z2 Transmitter**
  - Wireless Data Acquisition System LR Transmitter
  - WDT-4LR-Z2
  - Transmission Distance: 20m

- **WDT-5E-Z2 Transmitter**
  - WDT-5E-Z2
  - Maximum Communication Range: line of sight 20m²

- **WDT-6M-Z2 Transmitter**
  - WDT-6M-Z2
  - Maximum Communication Range: line of sight 20m²

**PATLITE WD RECEIVER ADVANTAGES**

- **Real-time Equipment Status Collection**
- **Quality of wireless connection Diagnostics**
- **Real-time Equipment Status Display on Andon Screen**
- **Collaboration functions including Modbus/TCP and MySQL Database**

**PoE Capability**

Model: WDR-LE-Z2-PRO

1. There are some restrictions to the compatibility of Signal Towers.
2. Due to the characteristics of radio waves, this value is only a reference point.
3. Please contact your local sales representative for the availability in your region.
Maintenance calls from manual assembly stations are only visually displayed on signal towers. When a supervisor is away from a station or site, delays and production bottlenecks occur.

With the WD installed in workstation, supervisors can now receive email alerts for maintenance calls when away from the site, greatly reducing bottlenecks.

No system in place to remotely monitor machines in real time. Goal is to share productivity among all facilities to improve company wide productivity.

The WD system allows monitoring of all lines in multiple locations and in real-time. Workers are able to better understand how their efforts affect the bigger picture improving company productivity.

Production bottlenecks caused by machine down time and uneven production flow are surmounting. To address this issue, employees are creating daily machine reports which are tedious and inaccurate.

The WD system enables us to monitor out line in real-time, quickly identify bottlenecks and address them. The PATLITE process can also determine the severity of machine issues for more effective predictive maintenance.
OVERALL EQUIPMENT EFFECTIVENESS (OEE)

SMART 4.0 OEE module can be implemented across various discrete and continuous manufacturing lines. SMART 4.0 helps customers to identify hidden losses and takes a pro-active approach to reduce these losses and translate it into productive manufacturing time.

**Overall Equipment Effectiveness (OEE)**

**Availability Loss**
- How long your machine is running
- How long is it in standstill (waiting)
- How long is it in stop (under repair or no production)

**Performance Loss**
- What is your machine speed
- Is it running below set cycle time?

**Quality Loss**
- What is the yield?
- What are the defects coming out of the machine?

**Six Big Losses in Manufacturing**

**Unplanned Stops**

**Planned Stops**

**Small Stops**
- Reduced speed or slow cycles

**Production Rejects**

**Startup Rejects**

**Fully Productive Time**

Customised Software
Features and functionalities of Smart Factory Solution:

- Live View of Shop-floor
- Task Manager
- Secure access as per the roles and responsibilities
- Tool Setup Option
- Digital Work Instruction by ballooning drawing
- First-off Inspection Approval
- Operator Dashboard
- Escalation Matrix - System Alarms for accounting losses
- Shift hand-over notes
- Advance documentation in a centralized platform
- Live dashboard
- Live Machine Performance
- OEE trend
- Availability trend
- Productivity trend
- Quality trend
- Live Production Report
- Live losses for downtime
- Live Productivity Report
- Operator Performance Report
- Overall OEE

Benefits of Smart Factory Solution

- Improve productivity, transparency and capacity utilization. The transparency of the system allows you to acutely understand issues by getting real-time information.
- Production increases by making better decisions driven by data, enabling better, real-time communication between management and the shop floor.
- Real-time production level notifications
- Live feedback of employee/operator performance.
- Eliminates manual data input.
- Improve on-time delivery.
PROFACE HUMAN MACHINE INTERFACE

Architecture

Cloud Data Server -> SCADA -> Andon Monitoring System -> OEE System

Facility -> Production line -> Logistic -> QA/QC

Human Machine Interface (HMI)

SP5000 Series
SP500X Series
STW6000 Series
ST6000/ST6000E Series
STM6000 Series
GP4100 Series (Compact)
GP4000R Series (Rear Mount)
GP4000E Series
GP4000 Series (Standard)
GP4000M Series (Modular)
CONNECTING INFORMATION AND PEOPLE FOR OPTIMAL COMMUNICATION

**HMI + Control**
- LT4000M Series (Modular)
- GP4000H Series (Handy)

**Flat Panel Monitors**
- FP5000 Series
- SP5000 Series

**Industrial PCs (IPCs)**
- PS5000 Series
- PS6000 Series
- PS4000 Series

**Software**
- Screen Editor "GP-Pro EX"
- Data Management Software "Pro-Server EX"
- Remote Monitoring Software "GP-Viewer EX"
- Remote Monitoring Software for Mobile "Pro-face Remote HMI"

**Services for Pro-face**
- Product troubleshooting and repair
- Project Consultancy
- After Sales support
- Product Demo and loan services

Pro-face BLUE Open Studio

w w w . s c i g a t e . c o m . m y
Motion control Architecture – Optimized
Cost Optimization with IIOT service

Track
3G/4G, Internet
Technical manager

Monitor
Secure Connect
Pro-face GP4000e
Ethernet

Motion control Architecture – High Performance (Synchronized)

Easyline LXM 16D
0.1-1.5kW

EcoStruxure Architecture
Packaging & Food & Beverage Machinery
Material Handling
Material Working
Hoisting
Pumping
HVAC

Apps, Analytics & Services
AVEVA Software
Assets Performance Monitor & Control

EcoStruxure Machine Advisor
EcoStruxure Secure Connect Advisor
EcoStruxure Augmented Operator Advisor

Edge Control
Magelis
RIOT Box & Industrial PC
Packet
Motion and automation controllers

Modicon
Machine controllers

Sercos
Ethernet

Connected Products
Machine Expert

Machine Advisor

1

3G/4G, Internet

Secure Connect
One software for HMI & PLC & Drive

Machine Expert

2

Sercos

Ethernet IP

Vision Camera

LXM28s

Servo Motor BCH2
**Smart services**
EcoStruxure Machine Advisor

- EcoStruxure Machine Advisor is the new digital cloud-based services platform.
- It enables machine builders to provide new services to machine operators for each installed machine in any production site worldwide.

### EcoStruxure Machine Advisor – Overview

**Track**

Track is a repository service to get access to the machine’s documentation and history: e.g. bill of materials, manuals, maintenance log, and task management.

**Monitor**

Monitor is a cloud-based service to get access to machine data e.g. OEE, performance, availability, and quality dashboards.

**Fix**

Use EcoStruxure Software in the cloud to fix machine issues.

---

**Controllers for Industrial Machines**

- **Modicon M221**
  - For hardwired architectures
  - The best performance for its size

- **Modicon M241/M251**
  - For simple motion control and distributed machines
  - Achieve benchmark performance

- **Modicon M262**
  - IIoT ready controller for Logic & Motion machines
  - High performance & flexibility!

---

**Servo Drives & Motors**

- **Lexium 16**
  - Servo drives and servo motors up to 1.5 kW
  - Flexible for a variety of applications
  - Entry level Motion Control
  - Features 6 references for servo drives for the right choice of product application
  - With 16 references of servo motors to tailor for your specific needs

- **Lexium 28**
  - Servo drives with embedded safety and motor servo up to 4.5kW
  - Optimized for compact machines

- **Lexium 26**
  - Servo drives and servo motors up to 7.5 kW
  - Optimized for simple motion control applications
  - Ideal use in limited space
  - Essential functions with no compromise on quality
  - Anti-vibration function for suppression of resonance frequencies

- **Lexium 32**
  - Servo drives and servo motors up to 11 kW
  - Flexible with embedded safety for a variety of applications
  - Independent to synchronized motion solution
  - Powerful control loop

---

**Altivar Variable Speed Drives**

- **Simple Machines**
  - Easy Altivar 310 Compact Format
    - 0.37...11kW
    - 400V

- **Building**
  - HVAC
    - ATV 212 Compact Format
      - 0...75kW
      - 200...400V

- **Process**
  - General Purpose
    - Easy Altivar 610
      - IP21
      - 0.75...160kW
      - 400V
Exor has updated its flagship product the eX700 Series and gone much further, creating the ultimate all-in-one solution ready for scalable applications across many industries.

- High Performance.
- High Resolution Glass Cap Touch.
- Fully Connectable upstream & downstream.
- Powerful Integrated PLC w/ all the major protocols.
- Integrated VPN with Service Cloud, with up to a 5-year warranty.

### The controller eXware

- Represents a prudent first step into the implementation of IIoT and Industry 4.0 compatibility.
- Can communicate between automation devices, cloud, fog, and applications.
- Facilitates data intensive and complex IIoT applications to be enabled.

### Software for Industrial Edge Management

JMobile covers the connectivity from edge to:

- Cloud
- Device management
- Process management and
- Data visualization essential for the all the edge to cloud levels.

JM4Web is the connection between Industrial control applications and ubiquitous mobile devices such as smart phones and tablets.

### Connectivity Management

- Corvina Cloud 1.0 is the connectivity management platform which leads from JMCloud.
- This IIoT-ready, secure, and user-friendly platform reduces the excess costs involved with installation and maintenance.

- CORVINA Cloud is a PaaS (Platform as a Service) and RMM (Remote Monitoring and Management) system.
- It bridges layers between IT and OT architecture,
- Providing effective tools to access all the industry 4.0 benefits, such as asset performance management, predictive maintenance, and OT remote monitoring.
Telemetry and Connectivity

GRD-3G Family

Telemetry Device with 3G+2G Cellular / Satellite communication and Programmable Logic

- Using the GRD-3G allows for remote monitoring and control of sensors, transducers, and intelligent devices from your own control system or through our Web Server for Telemetry applications.
- Remote Serial Port (Modbus or wireless)
- Modbus Master protocol in port RS232/485 for I/O expansion

Wireless Inputs/Outputs using MODBUS protocol

This solution allows us to connect Modbus devices to the remote nodes with the RS232 or RS485 ports and access them through the concentrator.

Specification:
RF Wireless Protocol: IEEE 802.15.4
Frequency: 2.4000 to 2.4835 Ghz
Free Band Channels: 16
Separation between channels: 5 MHz

Wireless access to MODBUS slave

This solution allows us to monitor the physical inputs/outputs of the nodes, by reading the internal Modbus slave on the concentrator.

Specification:
Antenna: 2dBi Connector RP-SMA
Scope: 2Km between nodes, with antenna of 2dBi and line of sight
Mesh Network - Amount of Nodes: Up to 50 max.
Mesh Network - Repetition between nodes: Up to 4
LIQUID & SOLIDS LEVEL TRANSMITTERS/SWITCHES

**Reflective Ultrasonic Sensors**
- General purpose
- Intrinsically safe

<table>
<thead>
<tr>
<th>Application</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day tank, skid or machine, cooling tower, IBC or drum, process tank, small waste sump</td>
<td>9.8' (3m)</td>
</tr>
<tr>
<td>Bulk storage, neutralization tank, clarifier, large waste sump</td>
<td>39.3' (12m)</td>
</tr>
</tbody>
</table>

**Pulse Radar Sensors**
- General purpose
- Intrinsically safe
- Dry Bulk Solids

<table>
<thead>
<tr>
<th>Application</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process</td>
<td>114.8' (35m)</td>
</tr>
<tr>
<td>Process</td>
<td>114.8' (35m)</td>
</tr>
<tr>
<td>Crusher, transfer station, stockpile, silo, bin</td>
<td>229.7' (70m)</td>
</tr>
</tbody>
</table>

**Ultrasonic Sensors**
- General purpose
- General purpose

<table>
<thead>
<tr>
<th>Application</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical feed, skid or machine, IBC or drum</td>
<td>49.2&quot; (1.25m)</td>
</tr>
<tr>
<td>Bulk storage, day tank, waste sump</td>
<td>32.8' (10m)</td>
</tr>
</tbody>
</table>

**Guided Wave Sensors**
- General purpose
- General purpose
- General purpose

<table>
<thead>
<tr>
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<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day tank, skid or machine, IBC or drum, process tank, waste sump</td>
<td>9.8' (3m)</td>
</tr>
<tr>
<td>Day tank, skid or machine, IBC or drum, process tank, waste sump</td>
<td>9.8' (3m)</td>
</tr>
<tr>
<td>Bulk storage</td>
<td>18' (5.5m)</td>
</tr>
</tbody>
</table>
### Level Switches

<table>
<thead>
<tr>
<th>KF-805N Multi-point Ball Type Float Switch</th>
<th>KF-207 Standard Flange Type</th>
<th>KF-32 Small-caliber Type</th>
<th>KF-500 Flange Type・Detection Pipe Type</th>
<th>KF-650 Remote construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable to control the supply and drainage pump, the motor and the solenoid valve</td>
<td>Various flange regulations are available</td>
<td>Suitable for liquid level measurement</td>
<td>Applicable to high viscous liquid</td>
<td>Suitable for liquid level measurement</td>
</tr>
</tbody>
</table>

### Level Transmitters for liquid and powder

<table>
<thead>
<tr>
<th>NL-8B Standard Flange Type</th>
<th>NL-15B Withstand Load Type</th>
<th>LS Standard Type</th>
<th>SWM-8B Standard Flange Type</th>
<th>SWM-8BA Adjustable Shaft Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic model of rotary paddle level switch</td>
<td>Suitable for low level detection inside the big tank</td>
<td>Basic model of small rotary paddle level switch</td>
<td>Standard model of swing level switch</td>
<td>Suitable for the application length adjustment</td>
</tr>
</tbody>
</table>

### Level / Flow Switch for Powder/Granules

<table>
<thead>
<tr>
<th>KLI Amplifier Remote Type</th>
<th>KSL-T8 CPU Built-in Model</th>
<th>KF-100 Stainless Type</th>
<th>KF-130PVC Type</th>
<th>B1 Standard Type, Straight Electrode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable measurement even while charging</td>
<td>Measuring tape material is stainless steel</td>
<td>Applicable to water, oil, general liquid etc</td>
<td>Suitable for corrosive liquid measurement</td>
<td>It measures the capacitance variations between the main electrode and the tank wall</td>
</tr>
</tbody>
</table>
APPLICATION

- Crane Overload
- Mooring
- Anchor Winch
- Bridge Structural Monitoring
- Crane Hoist
- Jack Up Vessel Load Monitoring
- Shore Side Crane
- Cable Tension Monitoring
ENSURING THE BEST ACCURACY FOR EVERY MEASUREMENT

Load Cells + Accessories

Shear Beam
- 65023
- SBR

Compression
- PS24
- CC3

Double Shear Beam
- DDR

Bending Beam
- BBR

Platform Scale

Single Cell

Weighing Beam

Mounting Kit

MKX

DE

MH

LOAD FOOT

UWT 6008

SMART JUNCTION BOX

DAT 1400

Weight Transmitter

MCT 1302

Weight Indicator

TESTER 1008

Junction Box

Load Cell

Smart Junction Box

www.scigate.com.my
ENSURING THE BEST ACCURACY FOR EVERY MEASUREMENT

Pavone Sistemi Application
Assembly Process Monitoring System

**maXYmos BL**

- 5 kHz Sampling Rate
- 24 bit Resolution
- 16 Measuring Programs
- Evaluation Time: 10 parts/s
- 3.5” Monitor Size
- Profibus DP, Ethernet/IP
- 11 freely programmable Digital Inputs
- 8 freely programmable Digital Outputs

**maXYmos TL**

- 20 kHz Sampling Rate
- 24 bit Resolution
- 128 Measuring Programs
- Evaluation Time: 20 parts/s
- 10.4” Monitor Size
- 22 freely programmable Digital Inputs
- 24 freely programmable Digital Outputs

**System Benefits:**
- In-process monitoring of joining assembly process
- Early detection of quality variations in the production process
- Transparency in product process enables fast feedback
- Traceable process results
- Economization of test routines

**maXYmos XY Monitors for 100 % Quality in Production, Assembly and Product Testing**

**Servo Drive with a Built-in Force and Position Sensor**

**Applications**

- Motor control feedback
- Motor controller
- PC Ethernet interface
- CSV, Q-DA*, PDF, XAML
- Visualizers via VNC*

---

**Force vs Displacement Monitoring in One Display**

Our pressure sensors are designed with customization in mind and they are flexibly configured to fix the needs of every application.

### Surtronic Series

- **Surtronic S-100 Series**
  - Advanced parameter options to suit your application
  - USB Connectivity for charging, USB stick storage or printing
  - Measure any surface, any height with the included stylus lift
  - Anti-slip V-feet mean the system can be used on flat or curved surfaces
  - Built to last, by design – Impact resistant rubberised mouldings
  - 2000 measurements from a single charge.

- **Surtronic Duo Surface**
  - Bluetooth technology - Quick, reliable communication between traverse and display/ control unit.
  - Profile graph - Clear detailed graph showing measurement area – excellent for visually identifying defects.
  - Separates - The Duo splits into a display/control unit and traverse unit via a slide and lock mechanism.

### PROFILOMETERS FOR THE ANALYSIS OF SURFACE TEXTURES AND FORMS

- **Piezoresistive OEM Measuring Cell**
- **Pressure Transmitter**
- **Temperature Transmitter**
- **Pressure & Temperature Transmitter**
- **Pressure Switch**
- **Liquid Level Transmitter**
- **Level & Temperature Transmitter**
- **Hydrostatic Level Logger & Water Management**

---

Measurement area for various surfaces:

- Eddy Current Sensor
- Capacity Sensor
- Laser Displacement Sensor
- Confocal Sensor
- Draw Wire Sensor
- Interferometer Sensor
- IR Temp Sensor
- Fiber Colour Sensor
- Laser Projector Sensor
- Thermal Imager
- Thickness Sensor
- Coating Thickness Sensor

Advance and New Technology

Capacity Sensor
- Nano meter resolution
- Multi-channel measurement
- Thickness, distance, flatness, gap

Interferon Meter Sensor
- Nano meter resolution
- Transparent, translucent, metal, mirror surface
- Thickness, Distance, Flatness

Thermal Imager
- Precise Temperature Capture
- High resolution FOV for temperature
- Customize monitoring location

3D Sensor
- Fast 3D capturing
- Height resolution for x,y,z axis
- 3D data direct from sensor

Micro-Epsilon Application

Colour Homogenous for Car Headlight
Gap Measurement for mechanical assembly
Height/Quality/Area/width check for dispensing beam
Inline thickness/quoting thickness
Solder Height, process positioning control
Glass manufacturing temperature monitoring
Contact lens diameter check
Dispensing height monitoring
Wafer: thickness, flatness, saw mark, bow and warp
Transparent material checking: curvature, thickness, multi layer thickness

Why Choose Micro-Epsilon?

Non-Contact
Traceability
Reduce Reject Rate
Documentation
Quality Product
Precise and Accurate
HIGH PRECISION LINEAR MEASUREMENT SENSORS

- Class Leading Performance in a rugged, durable package
- Up to 0.01 microns resolution
- Up to 0.05 microns repeatability
- Up to 0.05% Full Scale Linearity, 0.2 microns accuracy
- Excellent sideload capability
- Probes have lasted up to hundreds of millions of cycles in the field
- Digital and Calibrated at factory

Gauging Probes and Light Tip force probes

- Spring and Pneumatic, 0.5mm to 30mm ranges
- Tip forces as light as 3g to 5g
- Excellent for precise gauging in automotive, glass, aerospace, electronics, and other industries

Specialized Gauging Sensors

- Fit sensors into bores and tough to reach areas
- Multiple configurations
- Robust and Repeatable

Wireless Gauging

- Calibrated sensor with Bluetooth
- Single channel fits 3rd Party head
- Multi channel option
Orbit Modules and Gateways
- Flexible and easy to use
- Interface up to 150 Orbit® Digital Probes.
- Mathematical Formulae, both fixed and user programmable
- Log Data to Microsoft Excel® formatted files for further processing
- Upgrade options for Complex Formulas, Mastering and Statistical Process Control (SPC)

Orbit® 3 Network
- Calibrated Digital Sensors
- Network up to 150 sensors
- Output via USB, RS232, Ethernet, Ethernet/IP®, Profinet®, EtherCAT®, Modbus, Bluetooth, and others

Orbit® Air Gauge Interface Module (AGM)
- Calibrated Digital Sensors
- Network up to 150 sensors
- Output via USB, RS232, Ethernet, Ethernet/IP®, Profinet®, EtherCAT®, Modbus, Bluetooth, and others
- AGM works with PC / PLC interface module of Solartron Metrology

Bowers Digital Smartplug
- Custom-made size
- High Precision Digital Bore Gauge 2-points
- Can be integrated with Solartron Digital Transducer

SOFTWARE

APPLICATION
- Flatness Check Station
- ID Check of Con-Rod
- Curvature and Thickness of Glass
OUR SERVICES

www.scigate.com.my

Product Training
Project consultation and management
Precision measurements and inline inspection
Technical Support

Industrial 4.0 consultation

3 SHIFT FACTORS
8 THRUSTS
21 DIMENSIONS

Industry 4.0 Readiness Assessment: Source by MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY
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