



D S T L C O . , L T D .

Industrial Engineering & Manufacturing Technology Solutions

For foundry, die casting, automotive and manufacturing plants.
Engineering expertise, proven technology and integrated solutions — delivered
and supported in Thailand.

Company Presentation · Nonthaburi, Thailand · Established 2008



Who We Are

WHO

DSTL

D S T L Co., Ltd. — an engineering house for the metal casting industry, established in Thailand in 2008.

WHAT

Industrial Engineering & Manufacturing Technology Solutions

Design, equipment, integration and service delivered as one scope rather than separate purchases.

FOR WHOM

Foundry • Die Casting • Automotive • Manufacturing

Plants that need output, quality and energy performance improved on real production lines.

WHY DSTL

Engineering Expertise + Technology + Integrated Solutions

Engineers who size and specify the technology, then stay through installation and service.

Explore our solutions — then talk to our engineer.



Contents

01 About DSTL

Company profile, capability and approach

02 Solutions

Foundry industry , Die casting, furnaces, shot blast, equipment, automation, robotics ,Monitor

03 Technology

Process engineering, energy optimization, Environment controlled , thermal and measurement

04 Projects

Delivered installations across the casting process chain and Production/manufacturing line

05 Partners & Contact

Principals, insights and how to reach us



The DSTL Equation

Engineering + Technology + Equipment + Integration + Service

Five capabilities that only create value when they arrive together on one project.

01

Engineering

Process and plant design, calculation and detailed drawings.

02

Technology

Proven casting, thermal, shot blast technology and measurement from leading principals.

03

Equipment

Machines and systems specified and matched to your production.

04

Integration

New and existing plant combined into one controlled line.

05

Service

Commissioning, maintenance, spare parts and technical support.

Company Profile

Design, installation and consulting for the foundry industry , Production/Manufacturing line

- Established in 2008 in Nonthaburi, Thailand, delivering mechanical and electrical system design and installation.
- Representative of OTTO-JUNKER products in Thailand since August 2006.
- Professional consulting services for foundry and die casting operations.
- Modernisation, 2D/3D drawing and design, service and spare parts, installation and commissioning.
- Committed to quality, business ethics and environmentally responsible operation.





DSTL at a Glance

1993

Heritage since

Rooted in Chananchai (1993); DSTL established 2008

THB 20M

Revenue, FY2022

Steady growth serving Thai and regional foundries

6

Solution lines

From melting through casting, cleaning and automation

100%

Turnkey scope

Design, supply, installation, commissioning and service

Financial figure as reported for the year ending 31 December 2022.



Our Capability

Mechanical systems

Layout, structures, piping, material handling and plant utilities for foundry lines.

Electrical & control

Power distribution, control panels, PLC and instrumentation for casting cells.

Design & drawing

2D and 3D engineering drawings, plant modelling and equipment integration studies.

Installation & commissioning

Erection, combination of new and existing equipment, start-up and trial production.

Service & spare parts

Preventive maintenance, breakdown response and genuine spare part supply.

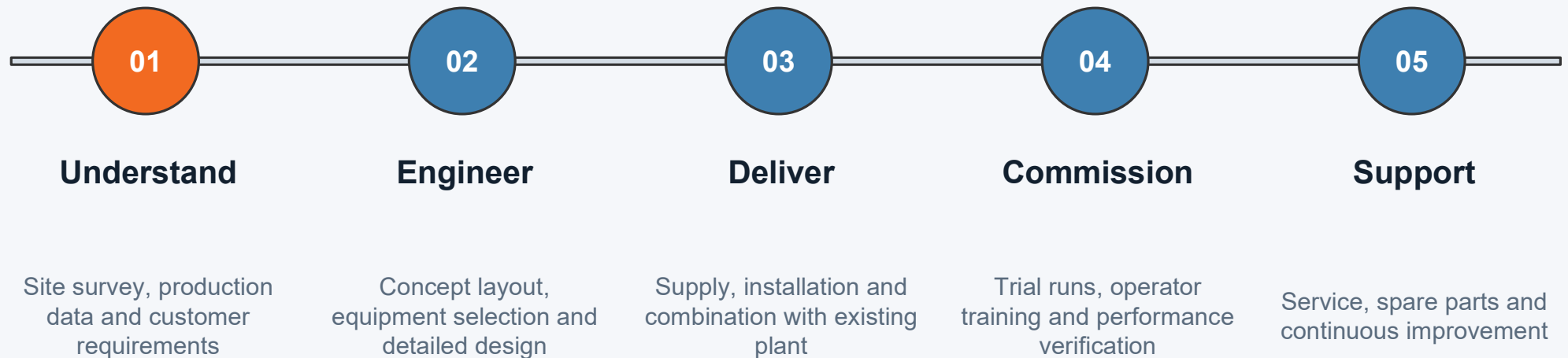
Consulting & modernisation

Process assessment, upgrade planning and pollution control improvement.



Our Approach

A single engineering partner from first survey to long-term plant support.



SECTION 02

Solutions

Six connected solution lines covering the full casting process chain — melting, casting, cleaning, handling and data.





Scope of Solutions

Everything DSTL designs, supplies, integrates and services across the casting process chain.

Casting & Thermal

- Melting & Holding Furnace
- Green Sand Molding Machine
- Sand Plant
- Die Casting Machine

Equipment & Handling

- Shot Blast
- Automation
- Robot
- System Integration

Measurement & Process

- Dust Collector
- Measurement
- Energy Optimization
- Process Engineering

Die Casting

SOLUTIONS / 01

High and low pressure die casting cells built around your part, not the other way round.

- Cold chamber machines specified by clamping force and shot weight for aluminium, magnesium and brass.
- Low pressure die casting for thick-wall, pressure-tight parts such as wheels, housings and manifolds.
- Complete cells: ladling, spraying, extraction, cooling and trim integrated into one control philosophy.
- Servo-hydraulic and energy-saving drives to cut power draw without losing shot repeatability.
- Die and process support to stabilise scrap rate and die life.

HP/LP

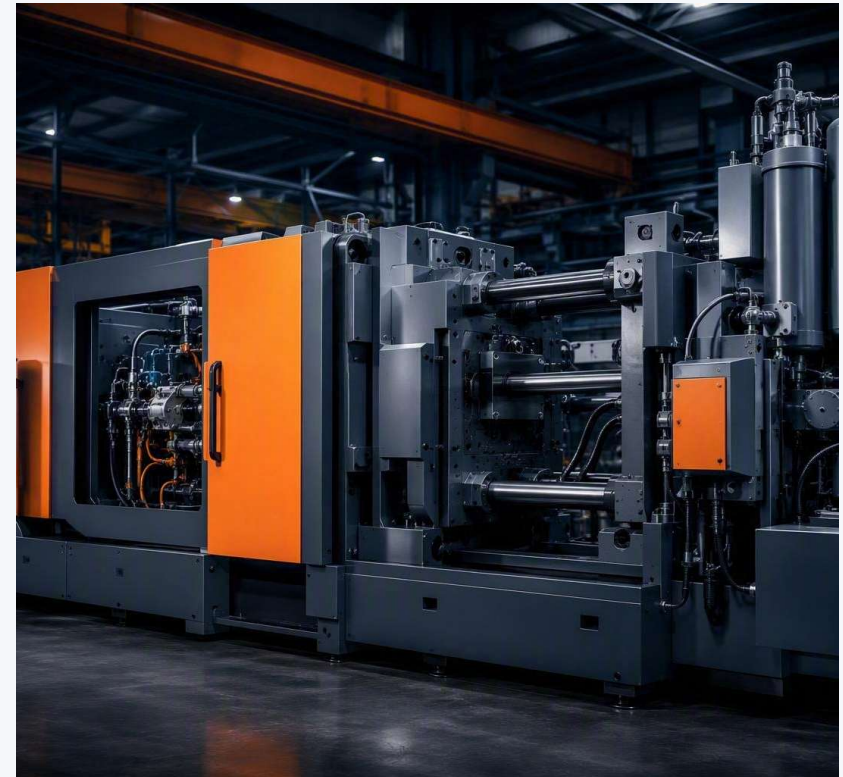
process

Al · Mg

alloys

Cell

turnkey



Melting & Holding Furnace



SOLUTIONS / 02

Reliable metal supply is where casting quality and energy cost are decided.

- Crucible, concentrating and central melting furnaces sized to line demand.
- Holding furnaces with precise temperature control to protect metal quality at the machine.
- Insulation, charge preheating and waste heat recovery to reduce specific energy consumption.
- Gas and electric configurations with safety interlocks and fume control.

Melt

and hold

Gas/Electric

options

Low kWh

per tonne

Shot Blast

SOLUTIONS / 03

Finishing that keeps pace with the casting line instead of throttling it.

- Tumble belt, drum, wire mesh belt, spinner hanger and continuous pass-through machines.
- Removes moulding sand, oxide scale and burrs for a uniform, inspection-ready surface.
- Replaces slow manual cleaning, lowering labour cost and cycle time in the finishing area.
- Wear part programmes, blast wheel service and abrasive handling support.

Batch

and continuous

Uniform

finish

Lower

labour cost





Foundry Equipment

Supporting equipment and plant systems that complete the casting process chain.

Moulding & core systems

Moulding line equipment and core making support, including DISA technology.

Material handling

Conveyors, transfer cars, ladle systems and charge handling between process steps.

Sand & reclamation

Sand preparation, cooling and reclamation equipment for consistent mould quality.

Dust & fume extraction

Pollution control systems for melting, blasting and finishing areas.

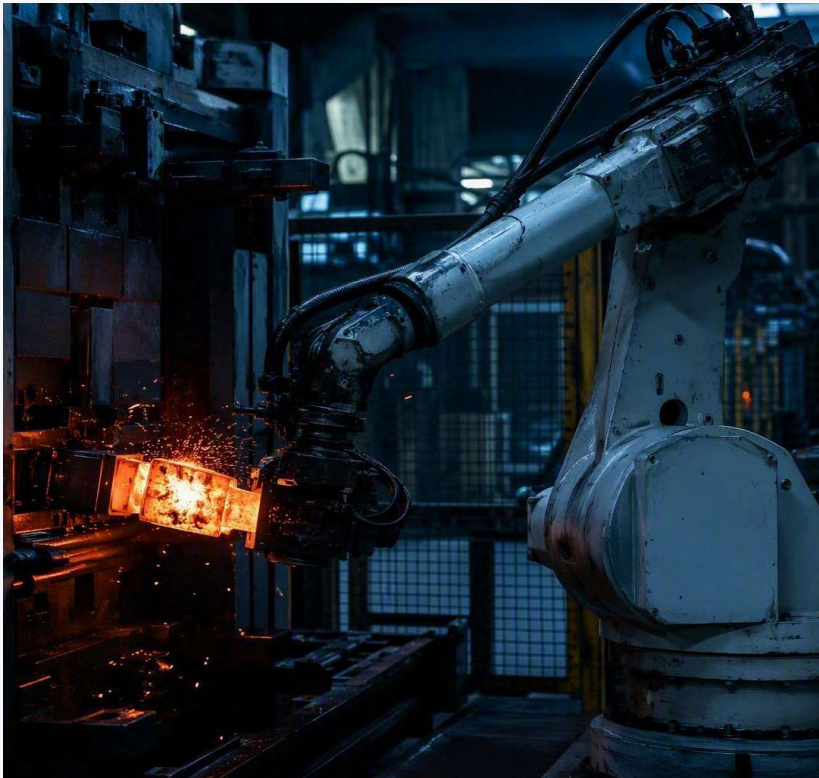
Utilities & piping

Compressed air, cooling water, hydraulic and gas distribution across the plant.

Spare parts & retrofit

Genuine parts, wear items and modernisation of installed equipment.

Automation & Robotics



SOLUTIONS / 05

Robots take the hot, repetitive and hazardous work out of the casting cell.

- Part extraction, die spraying, ladling, cooling, quench and transfer automation.
- Downstream trimming, sawing, drilling and deburring stations integrated into one cell.
- Robot, machine and peripheral control unified so cycle time is managed as a whole.
- Built for high load, high temperature and dusty foundry conditions with operator safety first.

Cell

integration

Safety

by design

Stable

cycle time



SECTION 03

Technology

Engineering, energy efficiency, process optimization and real-time monitoring — the four disciplines behind every DSTL installation.

Technology · Engineering

Every project starts as a drawing before it becomes a production line.

Plant & layout design

- Process flow and equipment arrangement
- Foundation and structural interfaces
- Utility routing and access planning

2D / 3D drawing

- Detailed fabrication and assembly drawings
- 3D models for clash and access checks
- As-built documentation handover

Systems integration

- Mechanical and electrical scope in one design
- Control philosophy across old and new plant
- Commissioning and acceptance criteria

Technology · Energy Efficiency & Optimization



Melting is the single largest energy consumer in a foundry — and the largest saving opportunity.

Charge preheating & heat recovery

Recovering flue heat and preheating charge cuts specific energy consumption substantially and lifts melting capacity.

Furnace insulation & sealing

Refractory condition, lid sealing and standby practice reduce holding losses around the clock.

Precise temperature control

Tighter setpoints avoid overheating metal, saving energy and protecting alloy quality.

Servo & variable-speed drives

Energy-saving hydraulics and drives lower demand on casting machines and auxiliaries.

Lower energy per tonne of good castings also means lower CO₂ per tonne — the same programme serves cost and carbon targets.

Projects

Delivered work across the four areas where DSTL is strongest.



Foundry Process / Die Casting

Casting cell installation,
machine relocation and
combination with existing plant.



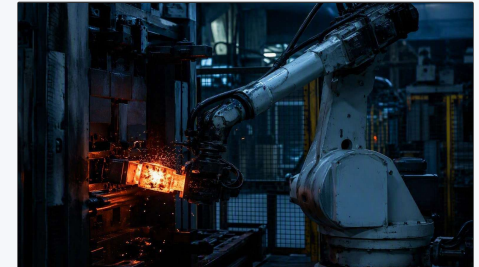
Furnace

Melting and holding furnace
supply, refractory work and
energy upgrades.



Shot Blast

Blast machine installation,
replacement of ageing units
and finishing line layout.



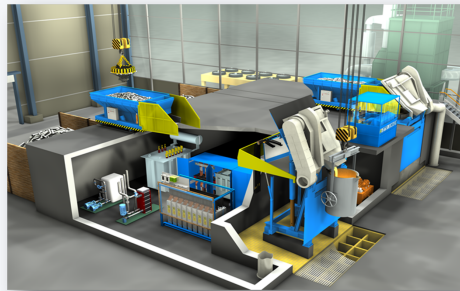
Automation

Robot cells for extraction and
handling, plus downstream
trim and transfer.

Project Case 01 — MCL 4 Melting Furnace

PROJECT REFERENCE · MAGOTTEAUX 2011

- OTTO-Junker Melting 12tons and 6 tons capacities installation, commissioning,
- Technology OTTO JUNKER — 12-Ton Melting Furnace (MFT / MFGe Series)
- Result Successfully completed; the customer is highly satisfied



Project Case 02 Complete Molding



PROJECT REFERENCE · BRIGHT INTERNATIONAL(Vietnam) 2015

- Molding line with sand preparation plant installation, commissioning,
- Technology DISA Matric 231 Z- Fast, Hidea sand plant 120 tons
- Result Successfully completed; the customer is highly satisfied



Project Case 03 — [Project title]

PROJECT REFERENCE · NIC 2015

- Scope : Continuous Hanger type Shot Blast installation, commissioning
- Technology : Wheeler brother
- Result : Successfully completed; the customer is highly satisfied



Project Case 04 — Siam Kubota Melting Line

SIAM KUBOTA · 2008 · 304 INDUSTRIAL PARK 2

- Scope : Design ,Engineering ,Integration, installation and commissioning
- Technology : Reverse Air Filter 120,000 m³ 160 kwatt (Dust collection)
- Result : Successfully completed; the customer is highly satisfied



Partners & Insights

Partners

- Representative of OTTO-Junker products in Thailand since August 2004.
- Working with international equipment principals across casting, furnace and blast technology.
- Local engineering and service capability behind every supplied brand.
- Open to new principals seeking a partner in the Thai foundry market.

News & Insights

- Thailand is Southeast Asia's second-largest automotive producer, sustaining strong demand for cast components.
- Japanese OEM supply chains anchor long-established casting capacity in the country.
- Energy cost and carbon targets are pushing foundries toward furnace and drive upgrades.
- Industry 4.0 monitoring is moving from pilot projects to standard practice on casting lines.

OUR GLOBAL TECHNOLOGY PARTNERS

International technology partnerships supporting foundry, die casting & metal finishing solutions



OTTO JUNKER



GERMANY



Metal Melting &
Thermal Processing

HIDEA



CHINA



Sand Process & Surface
Cleaning

BIEJING WORK FURNACE



CHINA



Aluminium Melting
Furnaces

BMC



CHINA



High-Pressure Die
Casting

MATSUSHIMA



JAPAN



Measurement & Belt
Conveyor Safety

MOTODA



JAPAN



Workpiece Lifting &
Handling Balancers

LONGLI INTELLIGENCE



CHINA



Aluminium Casting
Grinding & Deburring

Trusted international partners • Technology • Quality • Engineering Support

GERMANY • CHINA • JAPAN

Partner capabilities presented for DSTL business development purposes.



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