SECOND DESK

INTERNATIONAL ADVISORY

Process equipment

Equipment selected around process duty and lifecycle requirements

INDUSTRIAL EQUIPMENT & MACHINERY



AI-generated illustration | not an actual project reference

Product scope and commercial role

TECHNICAL SCOPE

- Vessels
- Pumps and mixers
- Heat exchangers
- Filtration and process modules

SECOND DESK ROLE

Technical-commercial qualification, market development and manufacturer or partner coordination.



Source: Second Desk website | sector image, not project evidence

Design basis and operating envelope

INPUTS REQUIRED BEFORE A COMPARABLE QUOTATION

- Flow, pressure, temperature and composition
- Corrosion allowance
- Design conditions
- Availability target

The owner and qualified manufacturer confirm operating conditions and applicable design basis before engineering release.

Engineering and component selection

DESIGN REVIEW POINTS

- Materials and seals
- Thermal or hydraulic duty
- Nozzle loads
- Service access
- Applicable design code

Selection trade-off

Check design conditions versus normal operating conditions. Confirm material compatibility, duty uncertainty and inspection code basis.

Project drawings, tolerances and design details remain subject to the responsible supplier or engineer.

Representative technical section



AI-generated technical concept | not to scale or for fabrication

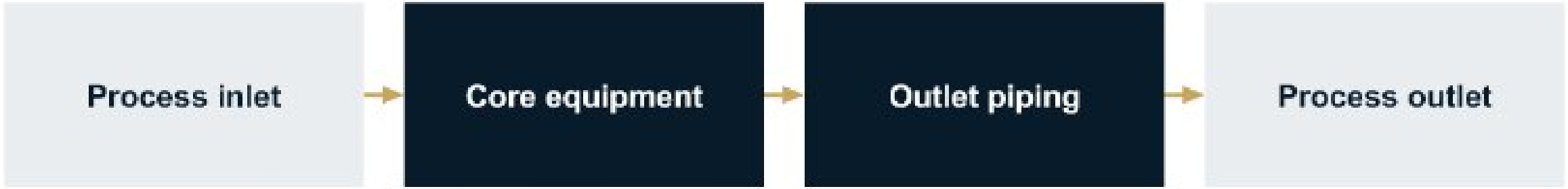
DETAILS TO CONFIRM WITH QUALIFIED SUPPLIER

- Materials and seals
- Thermal or hydraulic duty
- Nozzle loads
- Service access

Confirm the actual construction and dimensions from controlled supplier drawings or approved samples.

Representative functional arrangement

Conceptual sequence for technical discussion. Actual layout and interfaces depend on the approved specification.



Controls, power and utility services are coordinated as separate interfaces.

Input boundary

Flow, pressure, temperature and composition / Design conditions

Operating and output boundary

Duty verification / Vibration or leakage

Fabrication and assembly sequence



AI-generated manufacturing scene, illustrative only

TYPICAL CONTROLLED WORKFLOW

01 Cut and form

02 Machine interfaces

03 Qualified assembly and welding

04 Finish and inspect

Inspection and quality control

TYPICAL QUALITY CONTROL POINTS

01 Material records

02 Dimensional and NDT checks as specified

03 Pressure/leak test

04 Functional checks



AI-generated sector inspection scene; illustrative only

Inspection methods, sampling, hold points and sign-off depend on the order and approved quality plan.

Factory acceptance and site acceptance

FAT / manufacturing release

- Material records
- Dimensional and NDT checks as specified
- Pressure/leak test
- Functional checks

SAT / performance verification

- Duty verification
- Vibration or leakage
- Operating envelope and safety interlocks

Agree test conditions, tolerances, witness authority and punch-list closeout before testing. SAT is distinct from factory release.

Site integration and commissioning readiness



AI-generated application scene; illustrative only

SITE PREREQUISITES

01 Foundation and alignment

02 Pipe support

03 Utility connection

04 Commissioning under approved method

Packing, logistics and delivery

PRODUCT-SPECIFIC PACKING CHECKS

01 Preserve internals

02 Protect machined surfaces

03 Mark center of gravity and lifting points

Define the Incoterms® rule, named place, export documents, insurance responsibilities and site receipt process in the commercial agreement.



AI-generated logistics scene; illustrative only

Technical and commercial risk review

Compare supplier drawings and maintenance envelope against plant layout; define interfaces and acceptance criteria.

Design compliance

Compare the same data sheets, duty and explicitly agreed exclusions.

Technical evidence

Request relevant engineering documents, inspection plan and test records.

Execution risk

Check site access, spares, service scope and the manufacturer's support plan.

Responsibilities across the supply chain

OWNER / EPC	SECOND DESK	MANUFACTURER / CONTRACTOR
Defines duty, project constraints, site interfaces and acceptance authority.	Clarifies the opportunity, identifies suitable suppliers and coordinates technical-commercial communication.	Owns engineering, production, testing, guarantees, site execution and contractual obligations as agreed.

Supplier names, manufacturing capability, certificates, references and country-specific approvals are verified for each enquiry; no standing partner or factory is implied.

RFQ and evidence package

01	**Technical definition**	Duty and design basis, data sheets, scope boundaries and tie-in information.
02	**Supplier evidence**	Capability, drawings, applicable compliance, inspection plan and relevant references.
03	**Commercial offer**	Scope and exclusions, lead time, payment, Incoterms® rule, optional services.
04	**Handover plan**	FAT/SAT where applicable, documentation, spares, training and after-sales.

SECOND DESK

INTERNATIONAL ADVISORY

Discuss your next requirement

Share the application, target market or project, technical specification and expected delivery scope.

seconddeskinternational.com

Contact form: seconddeskinternational.com/#contact | Denizli, Türkiye | Meetings by appointment

SOURCE AND EVIDENCE NOTES

Second Desk sector page • ISO 12100: machinery risk assessment and reduction • ICC Incoterms® guidance

Visuals: generated sector illustrations and Second Desk website imagery. Project provenance, supplier capabilities and certification remain unverified unless separately confirmed.