CHUCHEN POOLS

CHANGZHOU · CHINA

COMPANY CATALOGUE · 2026

Prefabricated steel-structure swimming pools

Design · Fabrication · Installation

Factory-cut galvanized panels, bolted on site, sealed with a welded PVC liner. Built for rooftops, retrofits and projects that cannot wait for concrete to cure.



3.5 mm
galvanized steel panel

Welded
PVC liner, seamless

15 years
structure and liner

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01 — WHO WE ARE

We build pools the way modular buildings are built.

Chuchen Pools designs and builds prefabricated swimming pools from hot-dip galvanized steel panels and a welded PVC liner. Panels are cut and folded in Changzhou, shipped flat, and bolted together on site — no formwork, no curing, no wet trades.

We began building in 2017 and have completed more than a hundred pools since, mostly for hotels, schools and private villas across China.

Our work concentrates on the projects that cast-in-place concrete handles badly: rooftops, basements inside existing buildings, irregular shapes, and pools that have to be finished before a season opens.

Our first overseas project, in Lebanon, is currently in design. We would rather say that plainly than claim a list of export markets we have not served.

2017	100+	12+	1
Building pools since	Pools completed in China	Provinces covered	Overseas project in progress

WHAT WE DO

01 **Steel-structure pools**
3.5 mm hot-dip galvanized panel, bolted bracing, hot-air welded PVC liner.

02 **Acrylic prefabricated pools**
Factory-built shell, delivered with its circulation system, for villas and small hotels.

03 **Water treatment**
Circulation, sand filtration, UV and ozone disinfection, water-quality control.

04 **Heating**
Air-source pool and hot-spring heat pumps, from 9 kW to 290 kW.

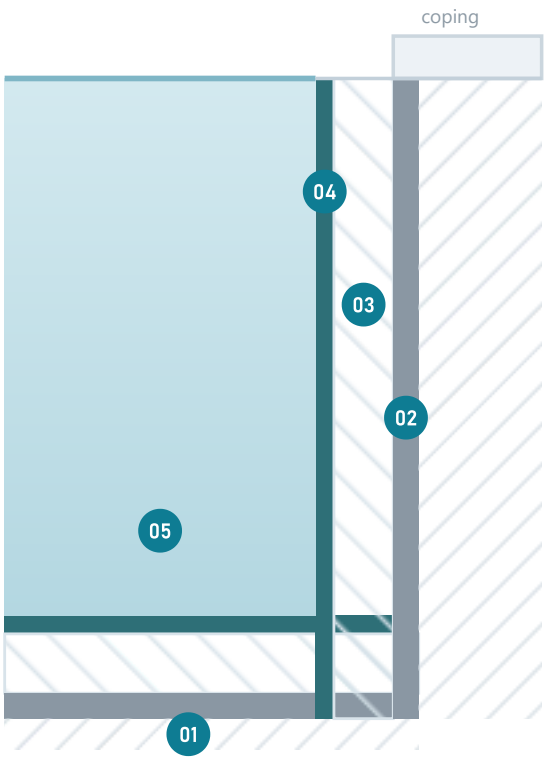
> **Where it is made.** Fabrication takes place at our production facility in Changzhou. Buyers are welcome to visit the workshop and watch panels being cut, folded and pre-assembled before placing an order.

"Most of the pools we are asked to build are the ones a concrete contractor has already said no to."

Rooftops, basements, existing buildings, and pools with a fixed opening date.

Five layers, assembled dry.

Every pool is a steel box, waterproofed from the inside. The structure carries the water; the liner keeps it in. Nothing depends on a screed that might crack.



Wall and floor section, not to scale.
Numbers refer to the list opposite.



Panels fixed and braced, liner not yet laid.

01 **Base**
Levelled concrete slab or compacted gravel. Flat within tolerance; no curing time needed before assembly.

02 **Steel panel — 3.5 mm**
Hot-dip galvanized, bolted at flanges, ribbed bracing on the outside face. Carries water load and earth pressure.

03 **Insulation — optional**
Added on heated pools to cut standing heat loss; omitted on seasonal or unheated pools.

04 **PVC liner**
Hot-air welded into one continuous skin. No joints, no reliance on the panel to be watertight.

05 **Water**
Design depth 1.0 m or 2.0 m; other depths to project.

- **Dry assembly.** Panels are bolted, not poured. No formwork, no curing time, no site water.
- **Light.** A fraction of the weight of a concrete pool, which is why rooftops and existing structures accept it.
- **Relocatable.** Panels can be unbolted, moved and re-erected on another site.
- **Weather-tolerant.** Rain interrupts liner welding, not panel fixing.
- **Repairable.** A damaged panel or a torn liner is a local repair, not a demolition.

The same construction route as European stainless-steel modular pools — factory panels, site assembly, flexible liner. The difference is the material: galvanized steel and PVC instead of 316 stainless, which is where the cost difference comes from.

03 — COMPARISON

Steel structure, or concrete?

Both build a pool. They differ in what the site has to tolerate, and in who carries the risk when something goes wrong five years later.

	STEEL-STRUCTURE POOL	CAST-IN-PLACE CONCRETE POOL
Construction time	Fast — factory-cut panels bolted on site; assembly typically one to two weeks	Slow — rebar, formwork, pour, then a curing period before finishing
Site conditions	Mainly dry work; rain delays welding, not structure	Wet trades; curing is sensitive to rain and to temperature
Self-weight	Light — accepted by rooftops, mezzanines and existing slabs	Heavy — usually needs structural reinforcement; often impossible on a roof
Relocatable	Yes — unbolt, move, re-erect, extend	Effectively fixed in place
Waterproofing	Continuous hot-air welded PVC liner, independent of the structure	Depends on concrete plus a membrane; a crack becomes a leak
Interior surface	Smooth liner — little fouling, easy to brush	Finish depends on the plastering; rougher surfaces hold debris
Later modification	Panels can be cut, extended or deepened	Requires breaking out; expensive
Repair	Replace one panel or patch the liner — local work	Chase the leak through the structure; slow
Cost basis	Quoted per bill of quantities; material cost below stainless modular systems	Depends on local labour, concrete and waterproofing prices
Best suited to	Hotels, schools, villas, rooftops, irregular shapes, refurbishment, fixed opening dates	50 m competition pools, poor ground, high water table, clients with a cheap concrete crew

When we tell a client to build in concrete instead

- A 50 m competition pool where stiffness tolerances are tight
- Poor ground or a high water table needing heavy anti-flotation work
- The client already owns a concrete crew and local concrete is cheap
- Local rules require a permanent structure for title registration

Saying this costs us orders. It also means the advice on the other pages is worth reading.

04 — ON SITE

From panels to water in one to two weeks.

On-site assembly for a pool of this class typically takes one to two weeks, depending on size, site access and scope. The schedule is confirmed per project — we do not quote a fixed number of days before seeing the site.

01 Base preparation and levelling

02 Panel layout and bolting to drawing

03 Wall and floor panel assembly

04 Bracing and strut fixing

05 PVC liner welding — hot air, seamless

06 Coping and decking

07 Plumbing and equipment setting

08 Water filling and leak test

09 Commissioning and handover





The box, before the liner.

Panels arrive flat-packed and are bolted to the bracing grid; the liner is welded on site once the box is square and level. No formwork, no curing, no waiting on a concrete gang.

What the site needs

- Level, compacted base — slab or gravel
- Vehicle access for flat-packed panels
- About one metre of working perimeter
- Power and water during assembly
- Structural check if above ground floor

How we support the build

- **Remote** — drawings, video calls, daily questions
- **Supervision** — one or two technicians on site, your labour
- **Full installation** — our crew builds it
- Handover includes commissioning and operator training

Foundation and base must be complete — and cured, where a slab is used — before panels are delivered. Drawings are issued for approval before shipment.

05 — SCOPE OF SUPPLY

Structure only, or the whole plant room.

Most buyers want one of two things. Tell us which, and the quotation stops being a list of guesses.

OPTION A

Pool structure

- Galvanized panels, floor and wall
- Bracing, struts and fixings
- PVC liner, welded on site
- Coping and edge profile
- Shop drawings and assembly manual

OPTION B — MOST COMMON

Complete package

- Everything in Option A
- Circulation pump and sand filter
- UV or ozone disinfection
- Water-quality controller and dosing
- Heat pump for heated pools
- Valves, pipework, control panel

EQUIPMENT WE SUPPLY

CATEGORY	TYPICAL RANGE
Circulation pumps	1.5–11 kW; flow up to 115 m^3/h; cast iron or stainless body
Sand filters	Top-mount Q400–Q1400; commercial units to 354 m^3/h at 50 m/h
Disinfection	Medium-pressure UV 30–750 m^3/h; ozone generators 6–60 g/h
Water quality	Free chlorine 0–200 ppm, pH, ORP; two-channel dosing control
Heating	Air-source pool heat pumps 9–290 kW; hot-spring units to 50 °C outlet
Pipework & valves	UPVC 1.0 MPa and steel pipe, valves, strainers, fittings
Control	Pool plant panel; PLC and remote monitoring on request

On brands. Equipment is sourced from established manufacturers and fixed per project; the brand and model are written into the quotation, not left open. If you specify a brand you already stock, we will quote around it.

06 — COMMERCIAL TERMS

How we quote, and what we promise.

A 25 × 6 m teaching pool and a 25 × 25 m competition pool differ in panel count, bracing, liner area and plant. Quoting from a fixed price list would mislead both of us.

PLANNING FIGURE — POOL STRUCTURE

RMB 500–600 / m²

Materials only, for pools up to 25 m, excluding tax, freight and installation. This is a budgeting guide, not a quotation — the real number comes from the bill of quantities for your pool.

Price basis	Per bill of quantities, itemised. Unit prices stated per m² of pool area and per panel where relevant.
Payment	70% deposit with order, 30% balance before shipment. Other structures available for repeat buyers.
Warranty	**Structure — 15 years.** Galvanized steel panel, bracing and fixings. **PVC liner — 15 years.** Welded seams included. **Equipment — 12 months.** Complete unit, from date of delivery. Installation workmanship is confirmed per project in the quotation.
Lead time	Confirmed at order and calculated from the production schedule at that moment — not promised in advance of it.
Incoterms	FOB Shanghai or Ningbo. CIF to your port on request; freight quoted at booking, as rates move.
Validity	14 days from quotation date. Steel and freight prices are reviewed after that.
Documentation	Packing list, commercial invoice, bill of lading. Certificates of origin and inspection on request.

Not included unless itemised: local civil works and base slab · customs clearance and destination port charges · local power and water connection · installation labour where not contracted · crane or access equipment · import duties and taxes in the destination country.

To quote, we need five things

- Pool length, width and depth
- What the pool is for — training, resort, villa, rooftop
- Heated or unheated
- Structure only, or complete plant
- Destination port

How we install

- **Remote** — drawings and video support, no charge
- **Supervision** — one or two technicians on site, your labour
- **Full installation** — our crew, quoted per project
- Commissioning and operator training included in all three

07 — REFERENCE PROJECTS

A hundred pools, mostly in places concrete struggled.

Selected projects, anonymised. Client names are withheld; references and site photographs are available on request during a live enquiry.

TYPE	LOCATION	SCOPE	YEAR
Resort & water features	Dali, Yunnan	Pool, shallow water features, cascades, night lighting	2019–2026
Hotel · infinity pool	Kunming, Yunnan	Transparent infinity pool, guest tower	2026
Villa · acrylic pool	Suzhou, Jiangsu	5 × 2 m acrylic, turnkey with circulation	2026
Rooftop pool	Changzhou, Jiangsu	Rooftop, civil works and plant	2026
Hot spring / spa	Shanghai	Spa pool with heating	2026
Competition pool	Hangzhou, Zhejiang	50 × 13 × 1.4 m	2019
Dual pool	Hebei	25 × 15 × 1.2 m + 10 × 10 × 0.6 m	2019
School pool	Hefei, Anhui	25.8 × 9 × 1.4 m	2019
Sports centre	Linyi, Shandong	24 × 7 × 1.4 m, heating and ceiling	2019
Teaching pool	Kunming, Yunnan	Children's training pool	2019
Equine rehabilitation	China	Horse rehabilitation pool	2026
Pet pools	China	Multiple small animal pools	2026

One year, twenty pools

In 2019 we delivered more than twenty pools across ten provinces — the clearest evidence we have of production and installation capacity.

First overseas project

A pool in Lebanon is in design. We are new to export, and we say so: what we bring is the build, not a list of countries.

CHUCHEN POOLS

CHANGZHOU · CHINA

Tell us the pool, and we will price it.

Send the size, the depth and what the pool is for — training, resort, villa, rooftop. We will come back with a bill of quantities, a drawing and a price, rather than a range that means nothing.

COMPANY

Chuchen Jiangsu (Changzhou) Pool Water Treatment Equipment Co., Ltd.

Changzhou, Jiangsu, China

EXPORT SALES

Tang

yingyumo@gmail.com

Email or Messenger · we answer within one working day.

01

Send the pool size, depth and what it is for.

02

We return a bill of quantities, a drawing and a price.

03

Video call or a sample panel, then we schedule production.

