STW PRODUCTS

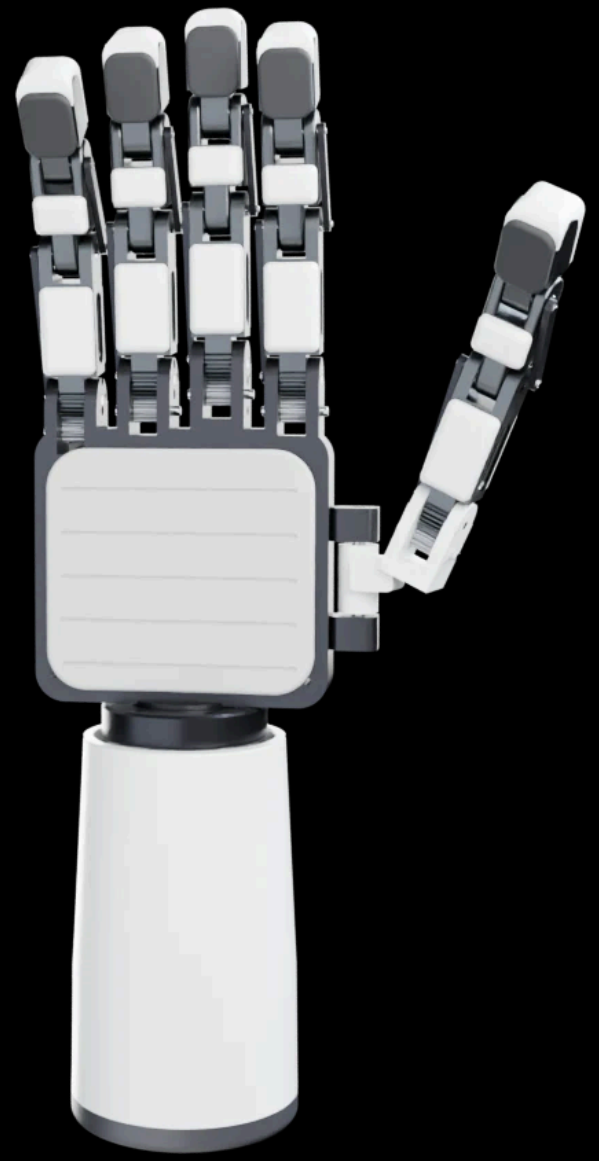
Your manufacturing partner in China · since 2016

Precision parts from China. Personally managed.

CNC turning and milling, plastic injection moulding, die casting, sintered and MIM parts to your drawing – made in six specialised factories in which Schutawill holds a stake.

CNC | Injection moulding | Die casting | Sintering | MIM

Stamping · Sheet metal · Forging



Company

One contract partner.
Six specialised factories.

2016
founded in Hong Kong, project management in Shenzhen

6
factories with a Schutawill stake – one per core process

24 h
quote usually within 24 hours, up to 72 hours for complex parts

3–10
days for turned and milled samples; with tooling 25–35 days to first article

Contract partner · Hong Kong
Schutawill Industrial Federation Group Limited
CR No. 2429920 · Kwun Tong, Kowloon

Project management · Shenzhen
Shenzhen Schutawill Technology Co., Ltd.
Longgang District · close to the factories

Six core processes

Everything from one source.



CNC turning

Shafts, pins, bushings and turn-milled parts – from sample to series.



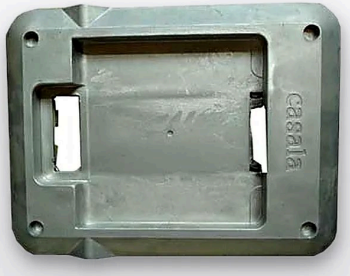
CNC milling

Precision parts in aluminium, steel, stainless steel and brass.



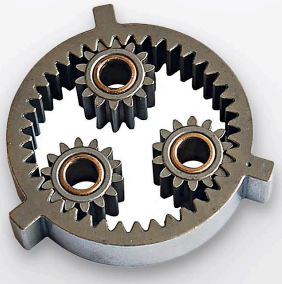
Plastic injection moulding

Tool making and moulding for PP, PC, ABS, PA, POM and TPE.



Die casting

Aluminium and zinc die casting with machining and finishing.



Sintered parts

Gears, plain bearings and flanges – economical in large series.



MIM

Small, complex metal parts in 17-4PH and 316L in high volumes.

Also via selected partner factories: stamping and deep drawing, sheet metal fabrication, forging.

CNC turning and milling

No tooling cost.
From sample to series.

Materials	Steel, stainless steel, aluminium, brass, plastics
Typical parts	Shafts, bushings, pins, housings, plates, hydraulic blocks
Samples	usually in 3 to 10 days
Series	from about 100 pcs







CNC hall with turning and milling machines · turning shop · CNC turning centres

Tool making

The tool is made in the factory.

Equipment	Machining centres, sinker and wire EDM, surface plates
Tools	Injection, die casting, sintering and stamping tools
First articles	Tooling and first articles usually 25 to 35 days
Approval	Series only after you approve the first articles







Machining centres in the tool shop · die-sinking EDM · wire EDM of tool components

Plastic injection moulding

Thin-walled, precise, in colour.

Materials	PA, PA-GF, PC, PC/ABS, POM, PP, TPE
Tolerance	± 0.05 – 0.2 mm, depending on size and material
Typical parts	Housings, covers, clips, handles
Factory	ISO certified · series from about 500 pcs depending on the part







Moulding hall with take-out robots · KraussMaffei CX · row of moulding machines

Die casting

Aluminium and zinc.
Machined and coated.

Materials	AlSi9Cu3, AlSi10Mg, zinc (Zamak)
Tolerance	Casting tolerance to DIN EN ISO 8062, functional surfaces CNC-machined
Finishing	Trimming, shot blasting, drilling and tapping in the factory
Factory	ISO certified · series from about 500 pcs depending on the part







Toshiba DC350J die casting machine · die casting hall · trimming die castings

Sintered parts and MIM

Metal from powder.
For large series.

Sintered parts	Sintered steel Fe-Cu-C, sintered bronze · gears, plain bearings, cams
MIM	17-4PH, 316L, low-alloy steels · complex parts under 100 g
Tolerance	± 0.05 – 0.1 mm, coarser in pressing direction
Economical	from about 5,000 to 10,000 parts





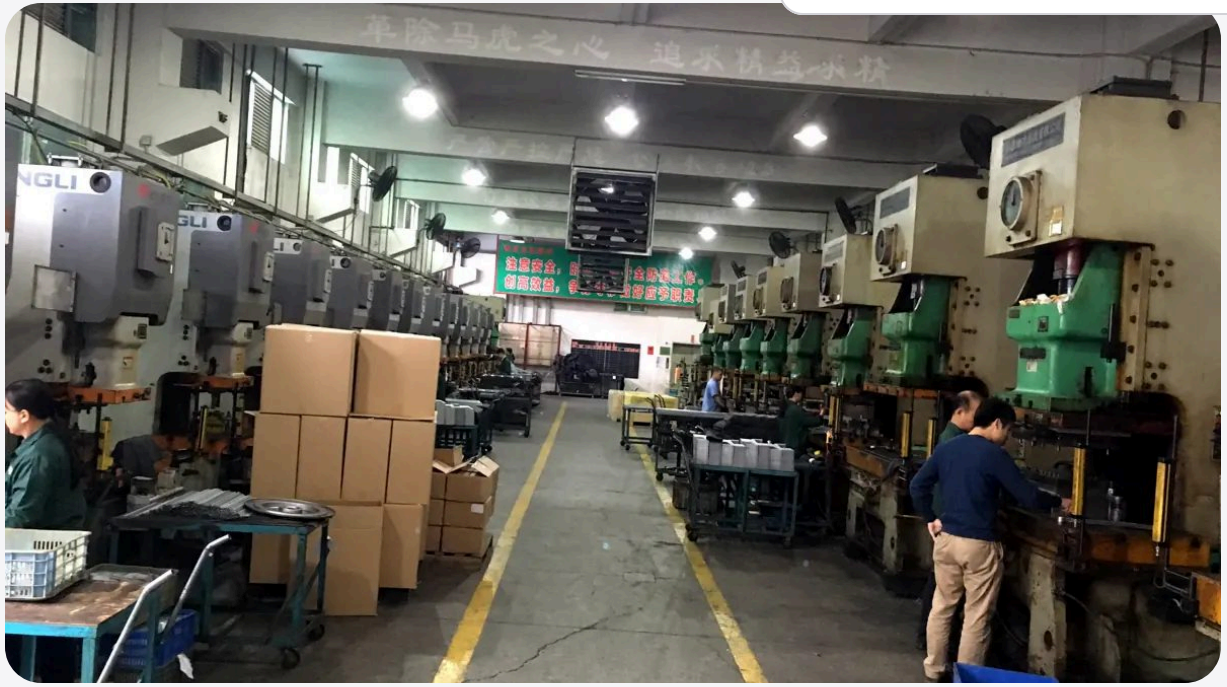


Powder press for sintered parts · MIM injection machine · continuous sintering furnace

Via partner factories

Stamping, sheet metal and forging.

Stamping	Eccentric presses and press lines, stamped and deep-drawn parts
Sheet metal	CNC turret punch, press brake, guillotine shear
Forging	Drop forgings such as hooks and forks
Management	One contract, one contact – also for partner processes







Press hall with eccentric presses · CNC turret punch · drop forging

Quality

Inspected before it leaves the factory.



First articles with inspection report

Series release only after your approval.



In-process and final inspection

Our team inspects on site – not only at your goods receipt.



Material verified

Material certificates and third-party test reports on request.

The plastic injection moulding and die casting factories are ISO certified. Measuring rooms with profile projector, vision measuring machine, hardness testing and metallography.

Process

As simple as an email.

1

Request

Send your drawing (STEP or PDF), quantity and target date. NDA in advance on request.

STEP · IGES · DXF · DWG · PDF

2

Review

We check feasibility and choose process and factory.

with DFM feedback

3

Quote

Tooling cost, unit price, lead time and improvement suggestions.

usually within 24 h

4

First articles

Samples with inspection report. Series starts only after your approval.

3–10 days · with tooling 25–35 days

5

Series

Inspection before every shipment, status reports, shipping per Incoterms.

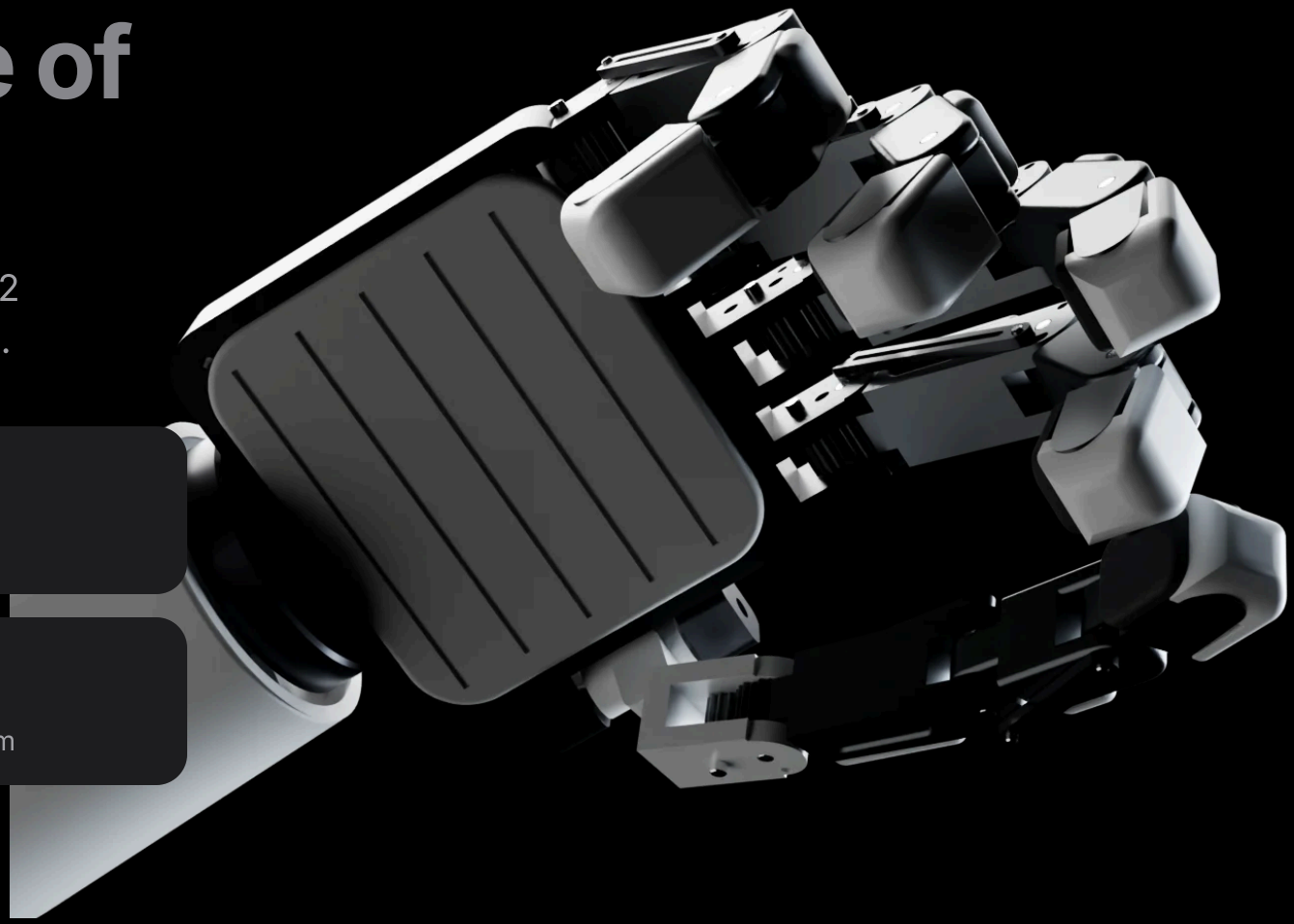
EXW · FOB · CIF · DAP · DDP

Design example SW-RH5

We don’t build robots. We make every one of their 111 parts.

Our own robotic hand as an open case: 111 parts in 22 positions, each with process, material and reasoning.

43 turned parts	**33** moulded parts	**25** MIM parts
7 Sintered parts	**2** die-cast parts	**1** milled palm



STW PRODUCTS

Your drawing. Our quote.

Send us your drawing.

You receive feasibility, process, tooling cost, unit price and lead time – usually within 24 hours.

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info@schutawill.com

Harry Wang · Managing Director · your contact for projects from Europe

Request online

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