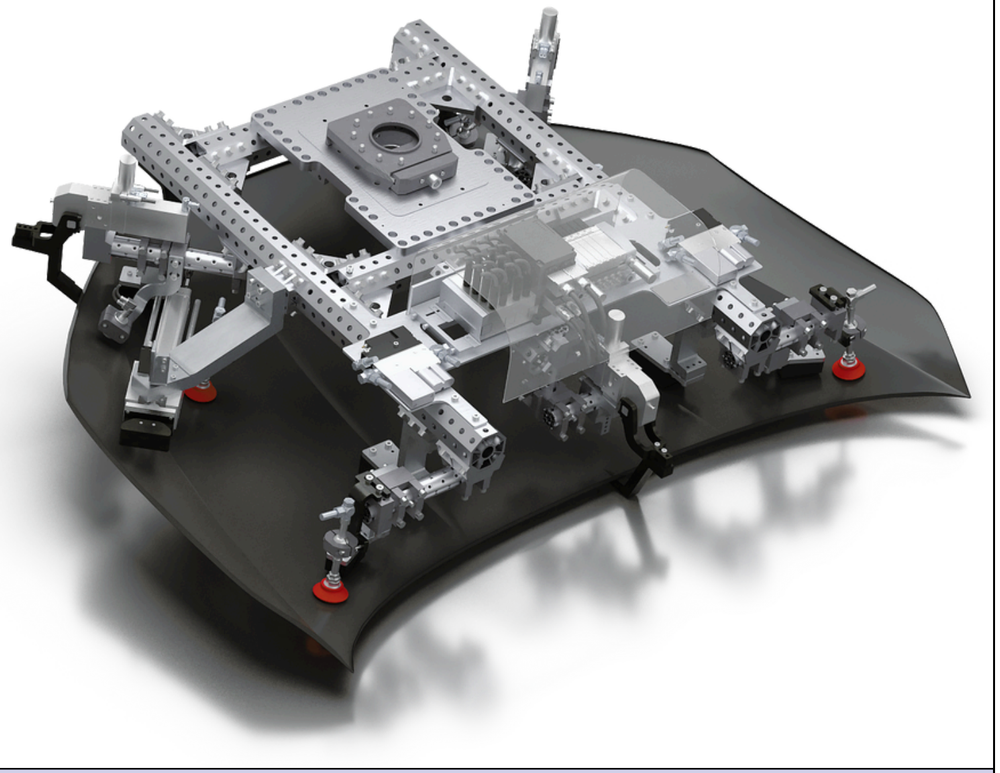


EGT data and applications

Our products



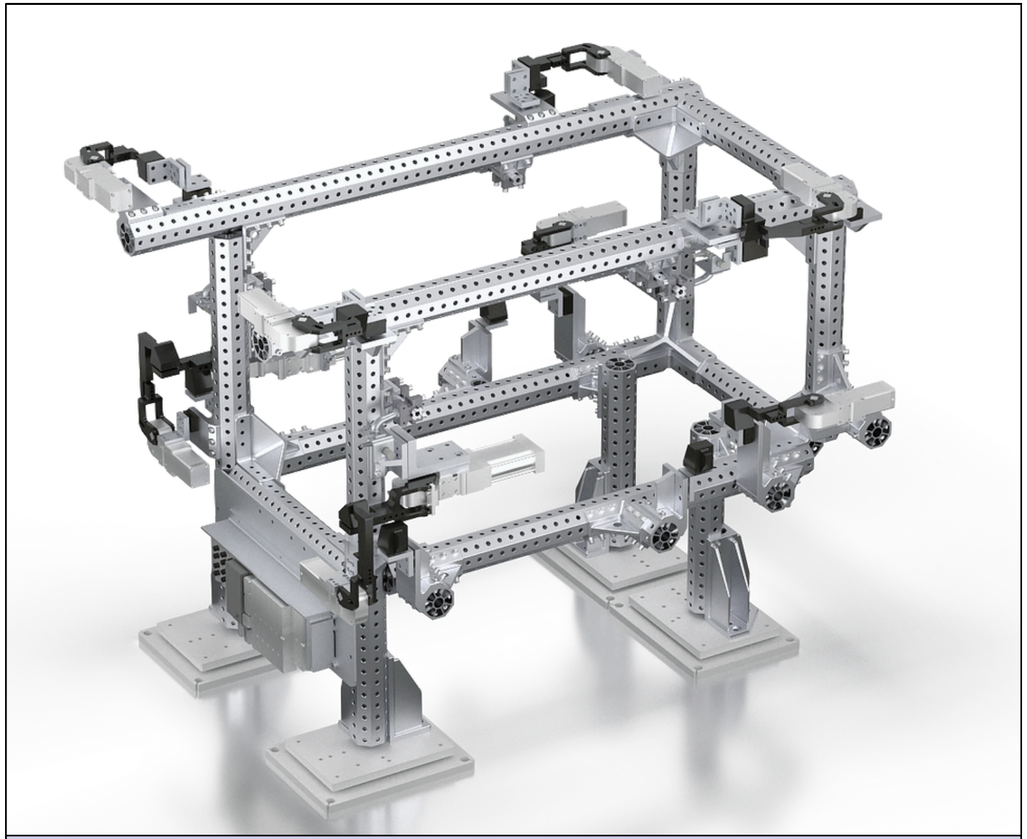
Gripper

Euro - Gripper - Tooling	
Number range EGT	Group
EGT 001 - 002	Profile
EGT 080 - 099	Octagonal profile connections
EGT 200 - 258	Individual parts and spare parts

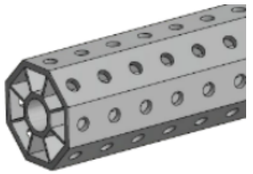
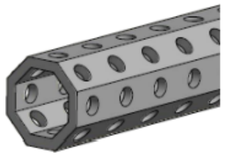
Order reference

- The designation for ordering parts basically consists only of the EGT number

Our products

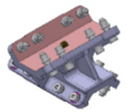
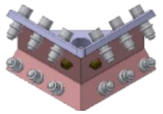
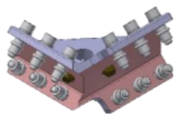
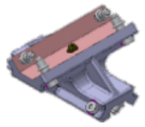
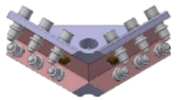


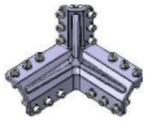
Fixture measure station

Euro - Gripper - Tooling			
EGT no.	Designation	Picture	Weight
001	Octagonal profile SW 80		5 kg/m
002	Octagonal profile SW 50		2 kg/m

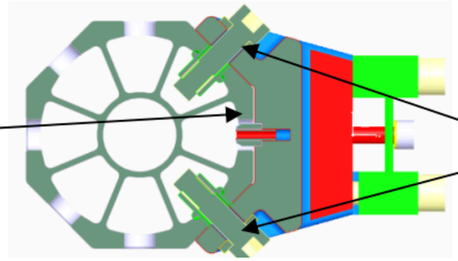
As an exception, you have to indicate the length and the section variant for the profiles EGT 001, EGT002

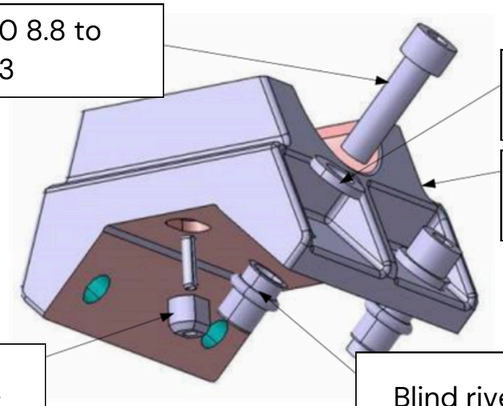
Our products

EGT no.	Designation	Picture	Weight (kg)
080	Cross connection SW80/SW80		1.67
081	Connection 90° for octagonal tube SW80/SW80		0.78
082	Cross connection for octagonal tube SW80/SW50		1.57
083	Connection 90° for octagonal tube SW80/SW50		0.75
084	Cross connection for octagonal tube SW50/SW50		1.14
085	Connection 90° for octagonal tube SW80/SW50		0.75

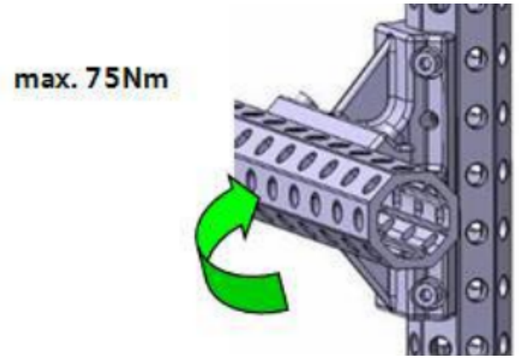
EGT no.	Designation	Picture	Weight (kg)
086	Connection 45° for octagonal tube SW50/SW80		0.64
087	Connection 45° for octagonal tube SW50/SW50		0.61
088	Connection 45° for octagonal tube SW50/SW80		0.70
089	3-way connection for octagonal tube SW80-SW80-SW80		1.63
090	3-way connection for octagonal tube SW80-SW80-SW50		1.48
091	3-way connection for octagonal tube SW50-SW50-SW50		1.14

Connection to octagonal profiles

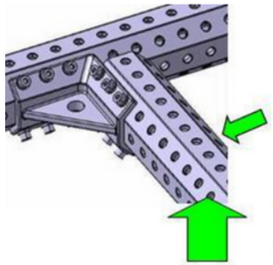




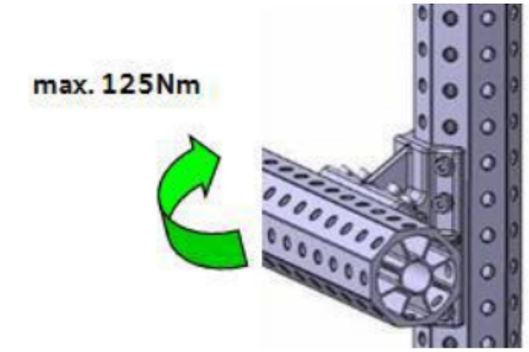
Ensure that the centering pin APF 212 is available for all connection elements with octagonal profiles



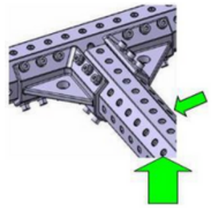
Load transmission for cross connections octagonal profile SW50 to SW50



Power transmission with an angle of 90°



Load transmission for cross connections octagonal profile SW80 to SW80



Power transmission with two angles 90°

Mechanical Test

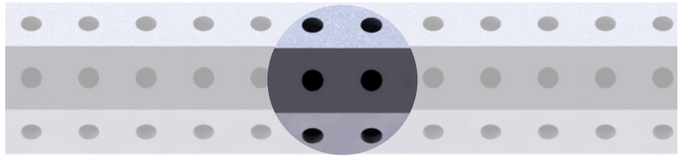
Tested by Thai-German Institute

Mechanical test	EGT001	EGT002
Tensile strength	260 N/mm^2	210 N/mm^2
Compression	3,200 N	1,980 N
Bending	9,900 kgf	3,200 kgf

Mechanical test **with Rivet nut**	
Pull out	1,300 - 4,000 kgf
Torque	20 - 27 N.m

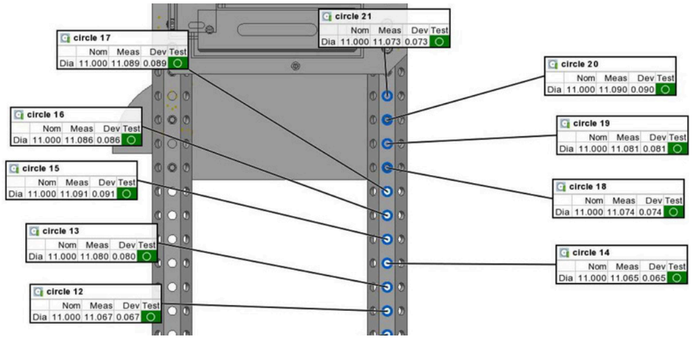
Depended on Air pressure , Rivet nut installation force or other related causes.

Mechanical Test



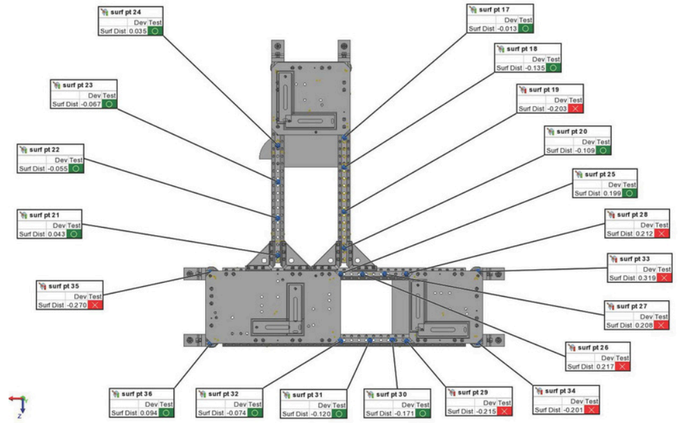
Equivalent to grade material

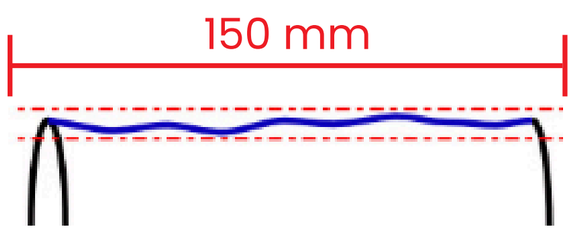
AL grade 6060



Hole Accuracy

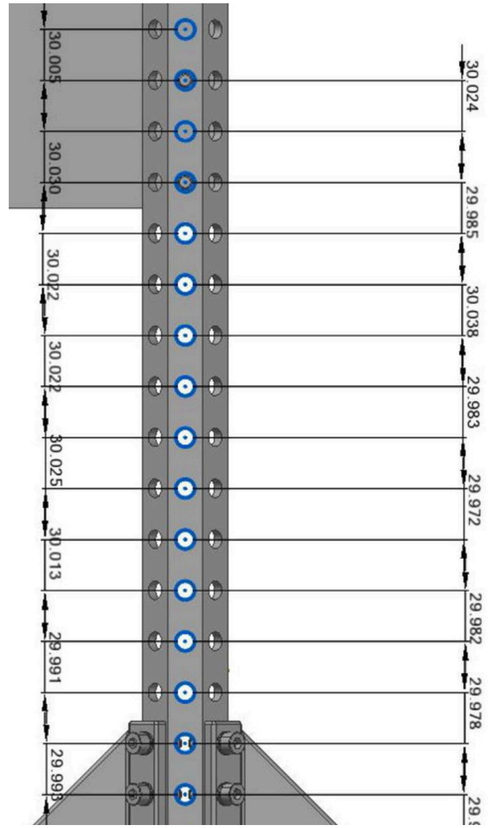
$$\varnothing 11\ ^{+0.109}_{+0.037}$$





Flatness Accuracy

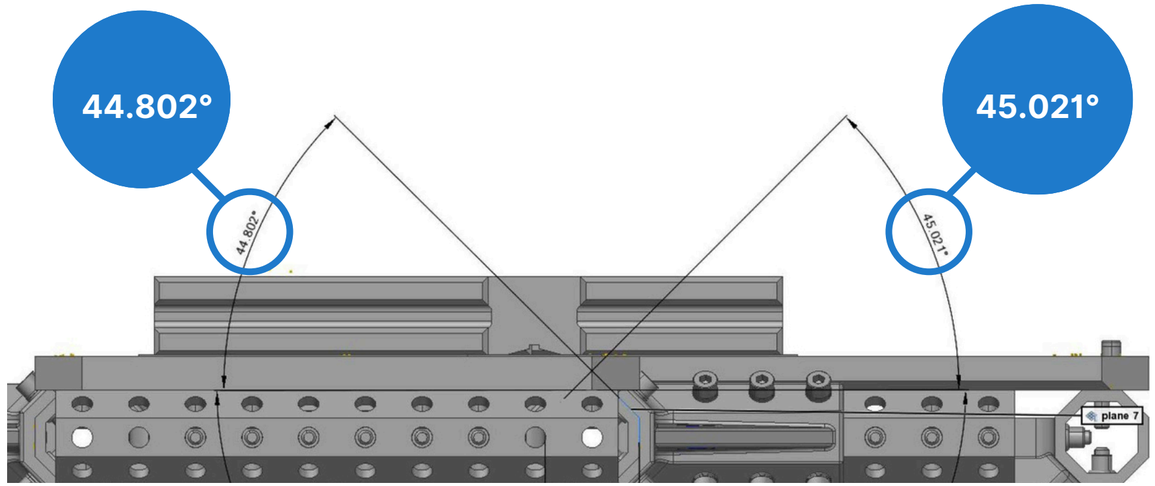
100 µm



Center Accuracy

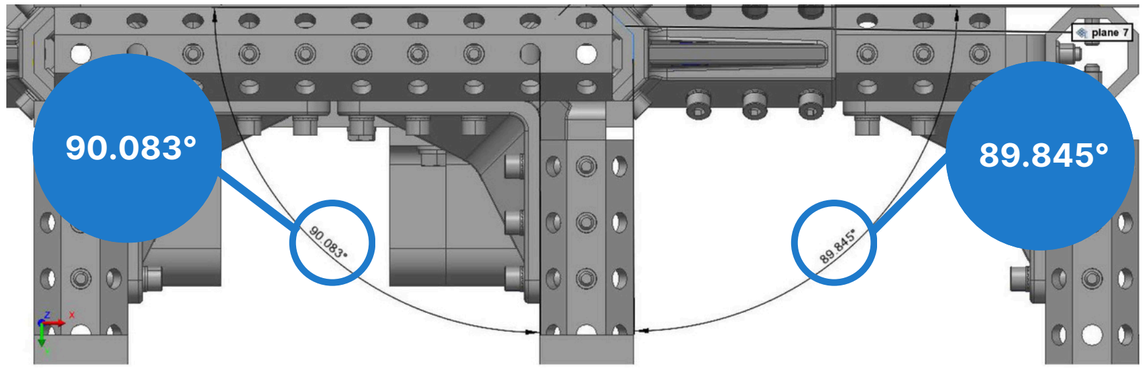
30±50µm

Mechanical Test



Angle Accuracy

$45^{+0.021°}_{-0.198°}$



Angle Accuracy

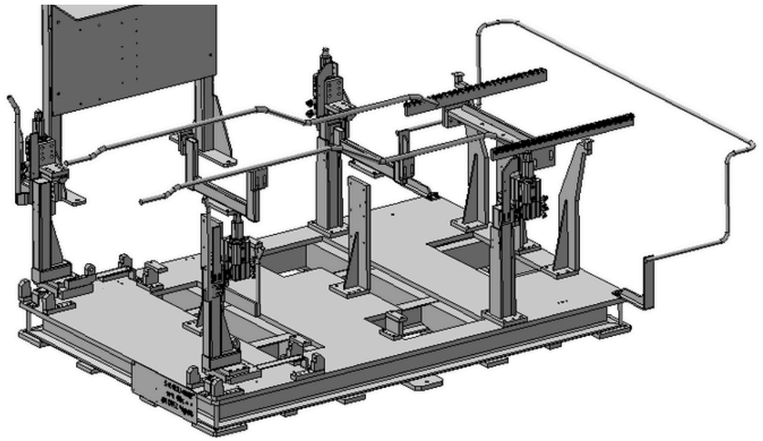
$90^{+0.083°}_{-0.155°}$

Evolution concept

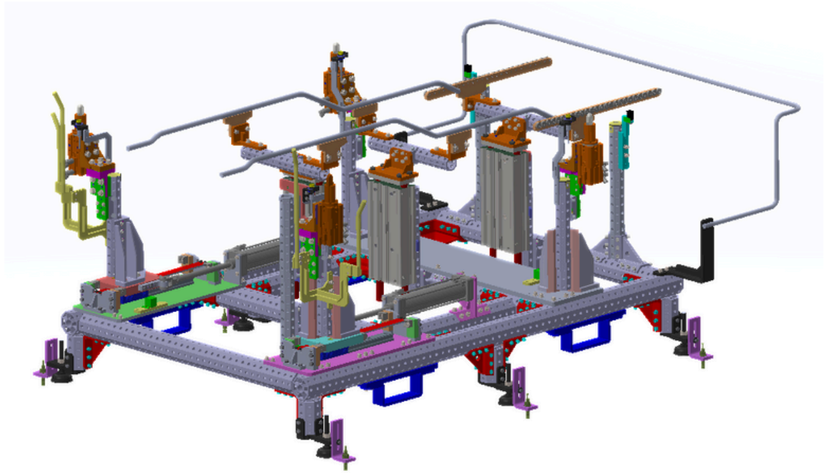
Current concept design → **EGT+SSC concept** → **EGT+Lean concept**

SSC = Slim Simple Concept

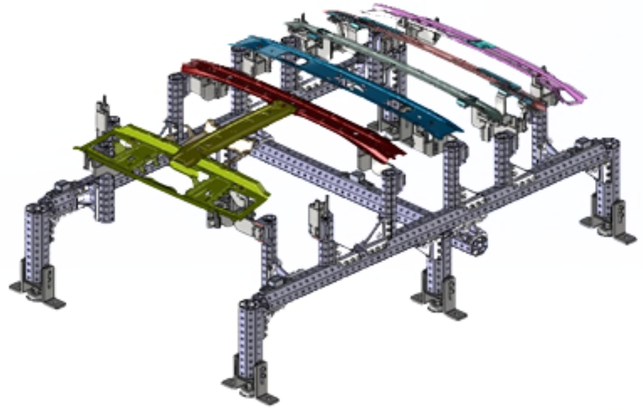
Reduce unnecessary component



Steel structure
High weight



Steel + EGT structure
Lower weight



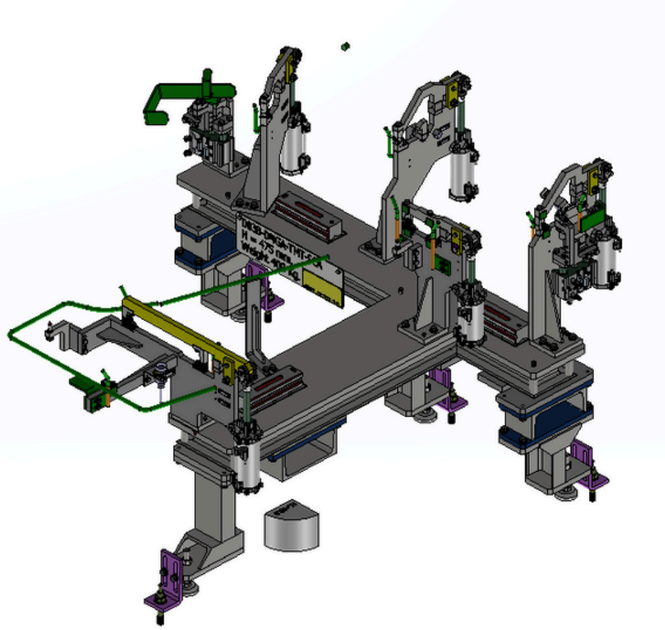
EGT structure
Lowest weight

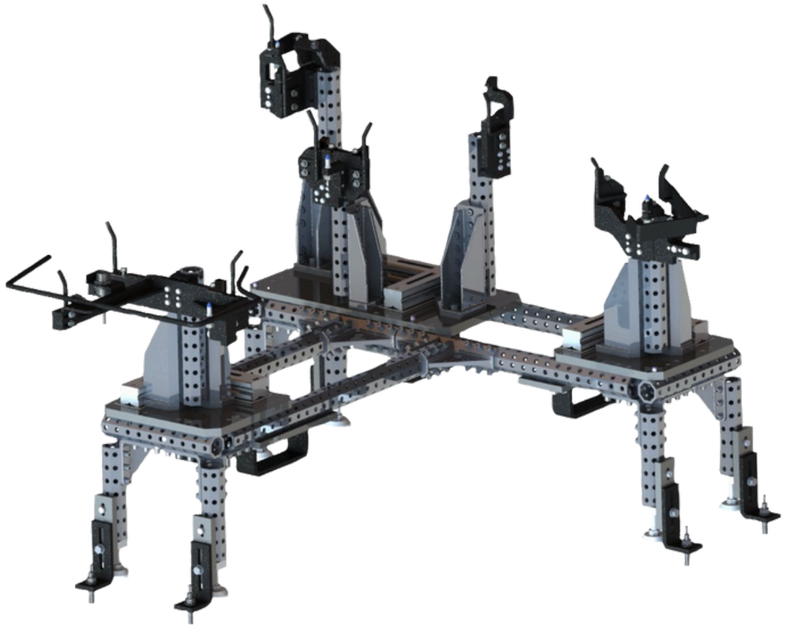
Welding jig - A

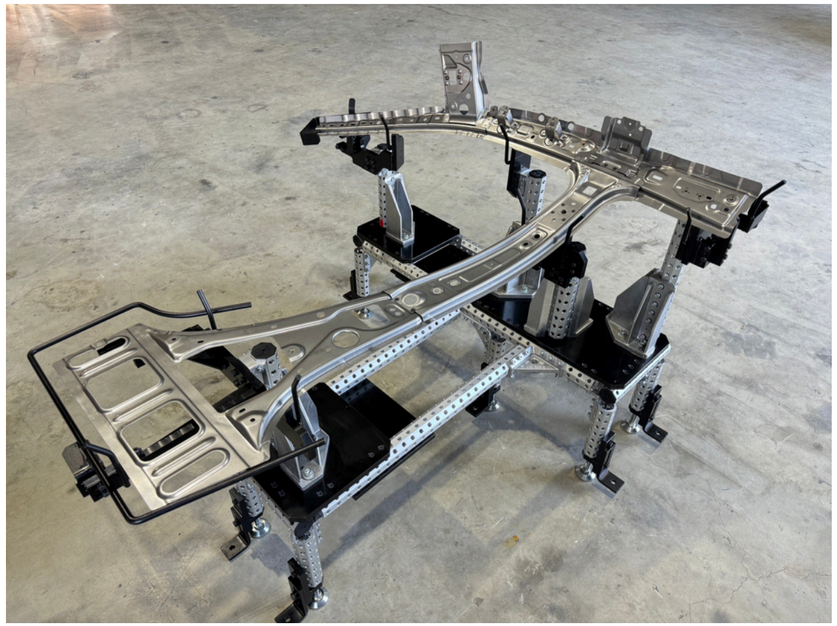
Current concept design

EGT+SSC concept

SSC = Slim Simple Concept







Steel structure

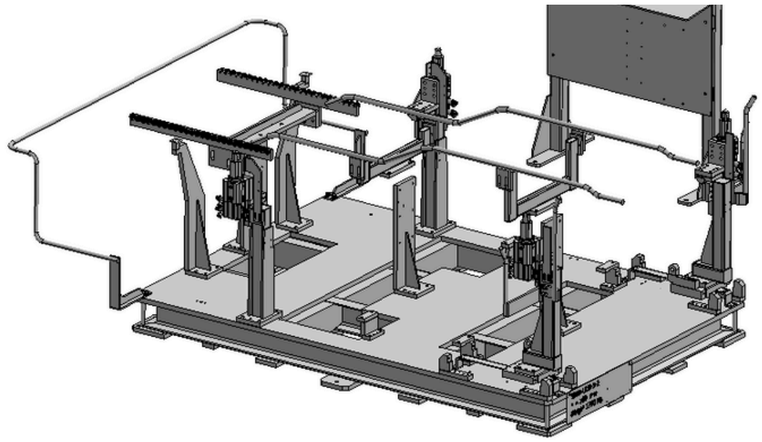
Steel + EGT structure

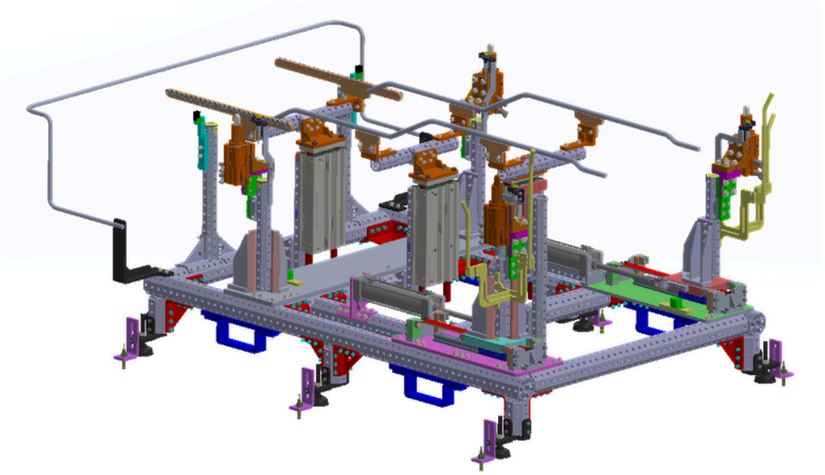
Welding jig - B

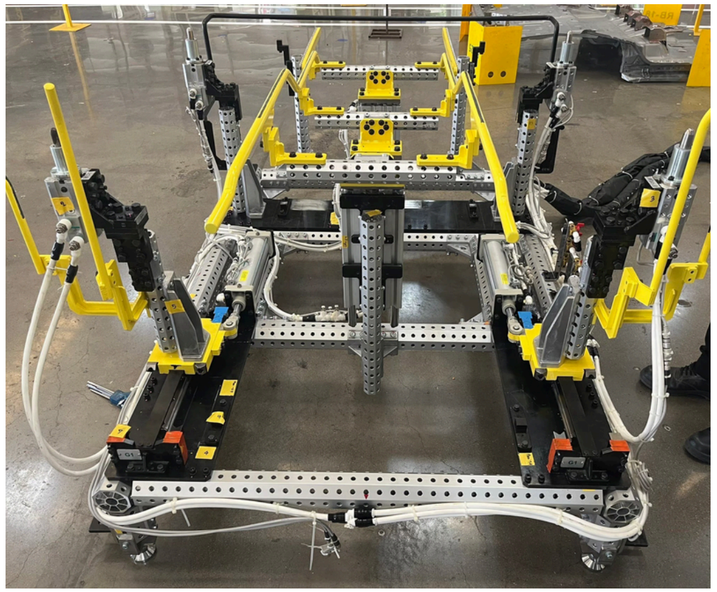
Current concept design

EGT+SSC concept

SSC = Slim Simple Concept







Steel structure

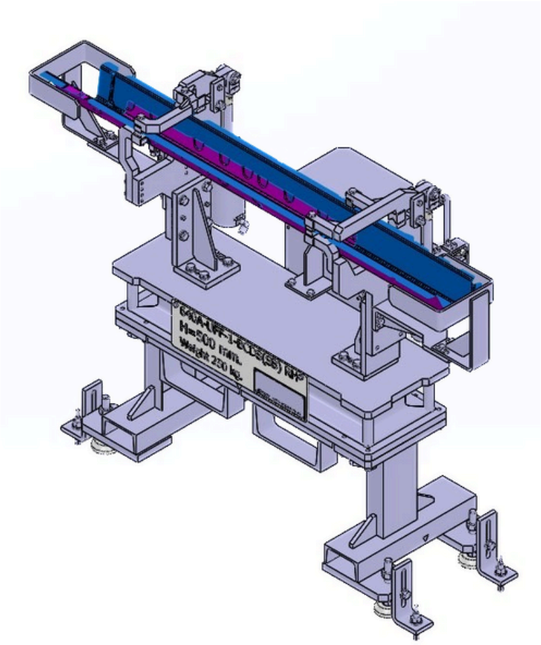
Steel + EGT structure

Jig fixture - A

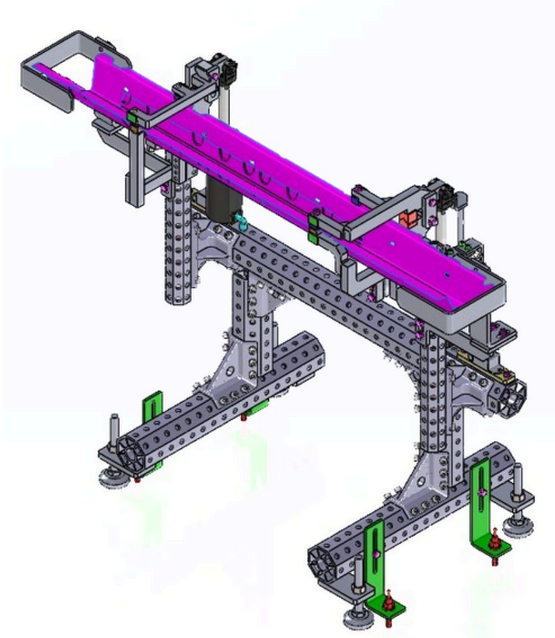
Current concept design

EGT+SSC concept

SSC = Slim Simple Concept



Steel structure





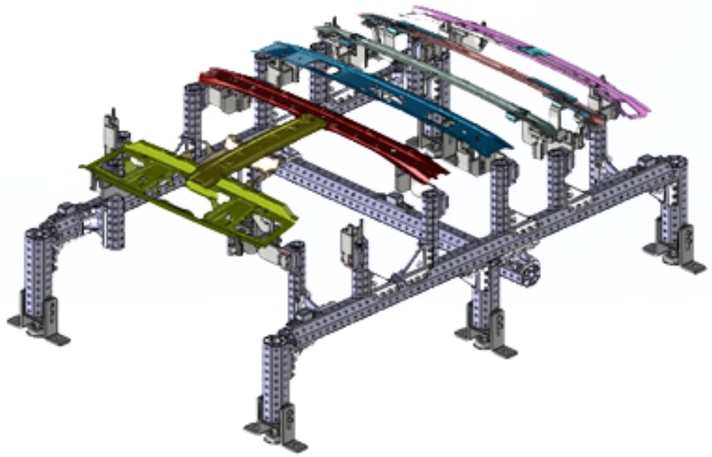
Steel + EGT structure

Our Projects

Jig fixture - B

EGT+Lean concept

Reduce unnecessary component





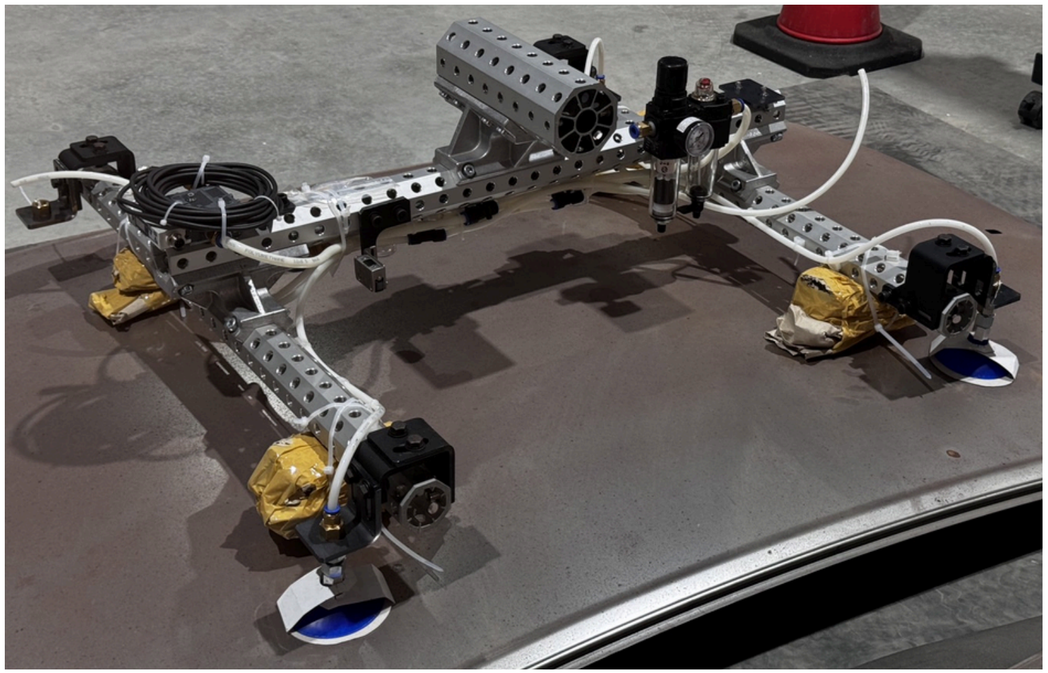


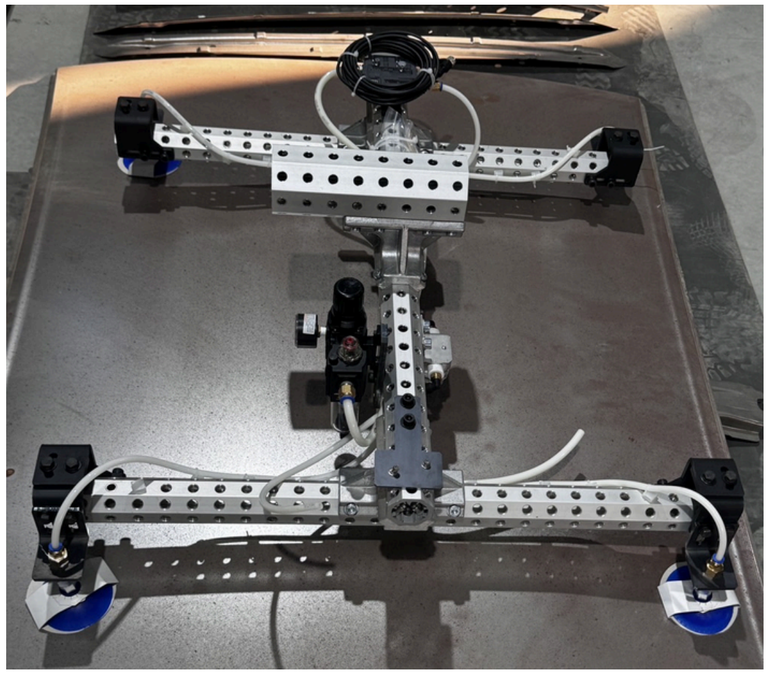
EGT structure

Handling Tooling Take in/out

EGT+Lean concept

Reduce unnecessary component

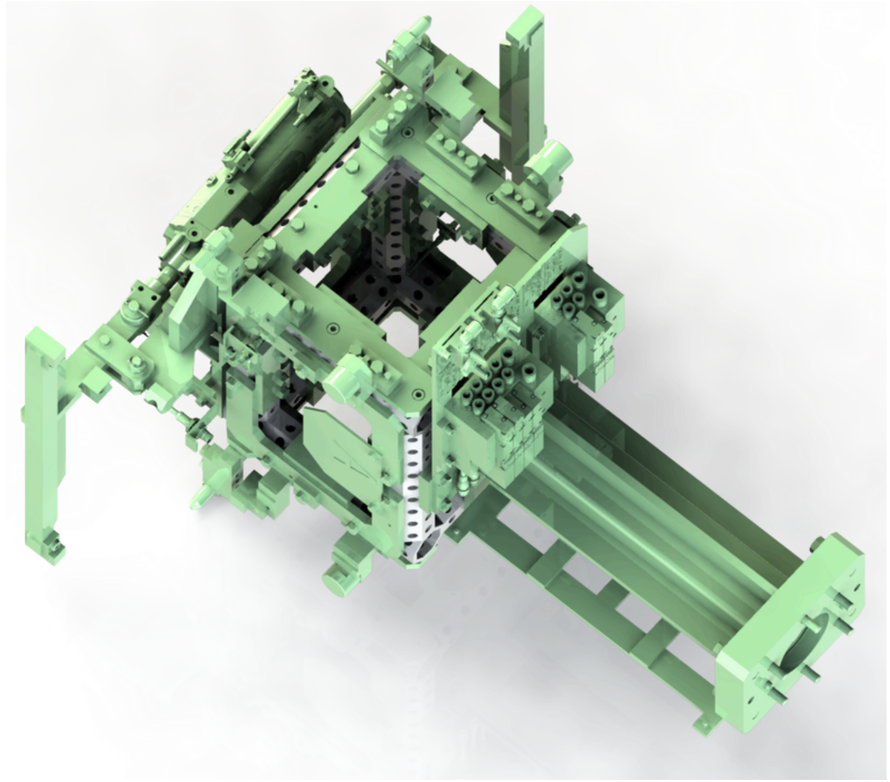




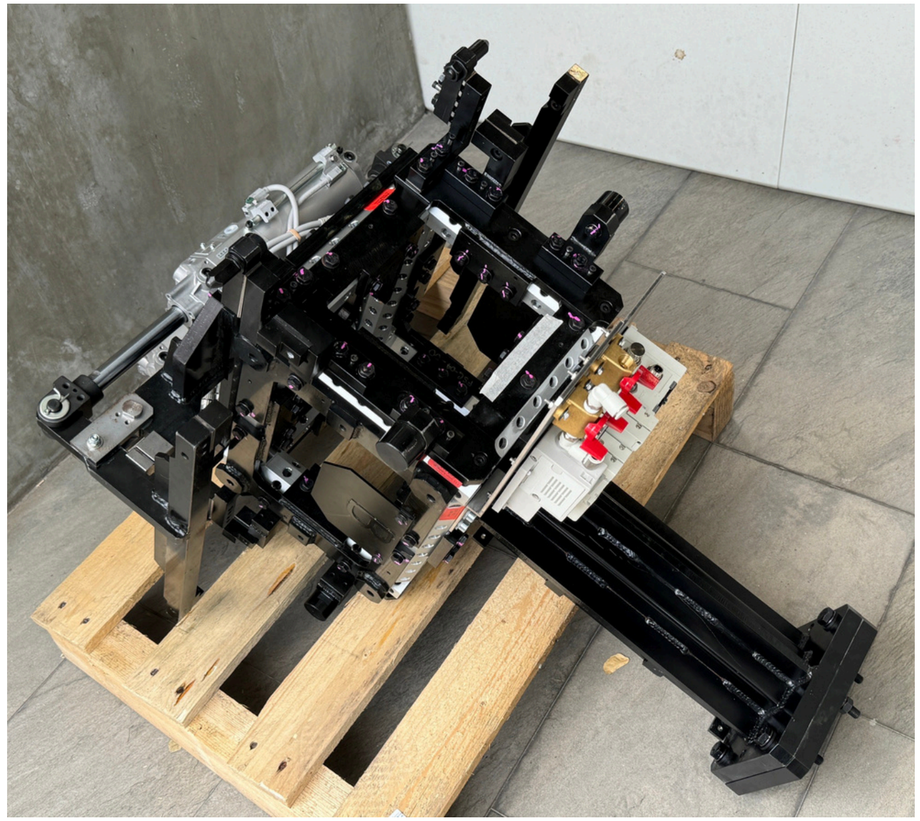
EGT structure

Handling gripper - Fr Suspension

EGT+SSC concept



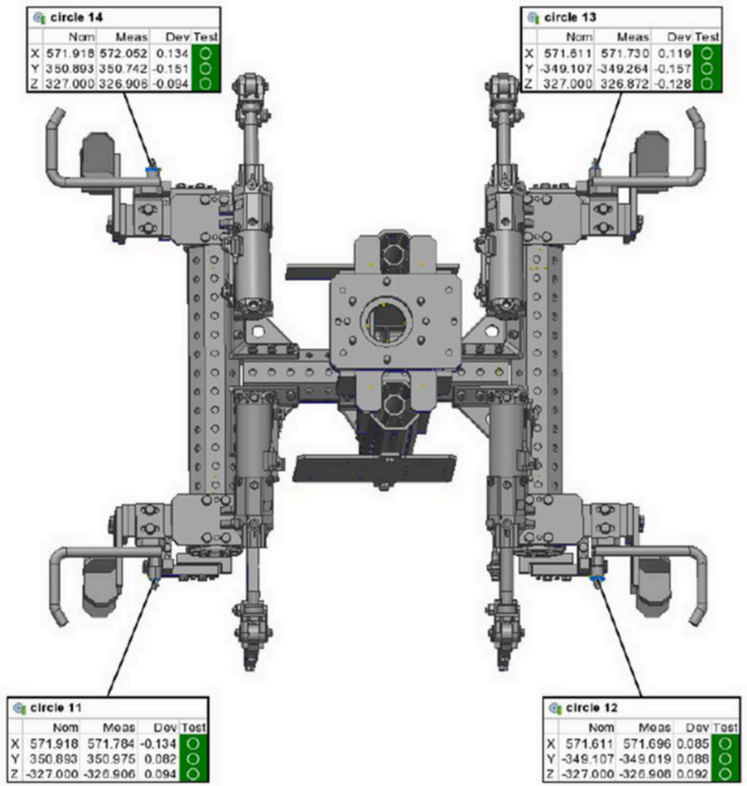
Design



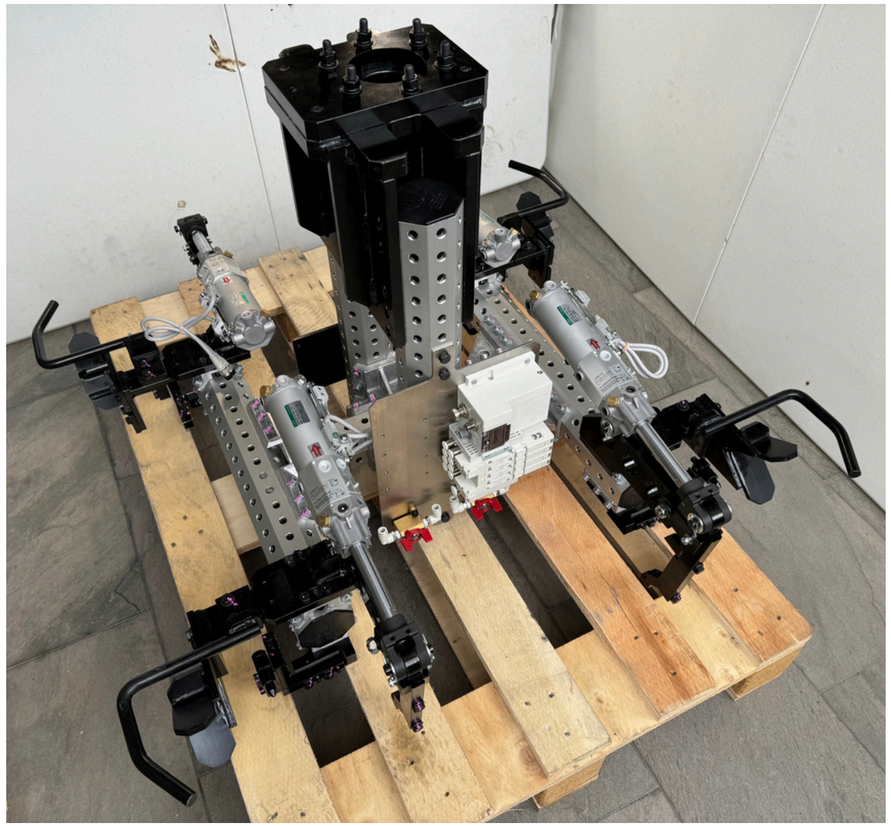
Assembly

Handling gripper - RR Beam

EGT+SSC concept



Design

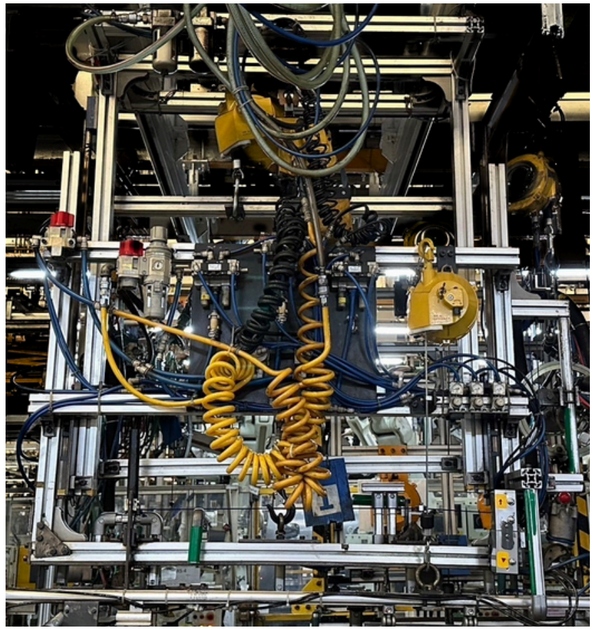


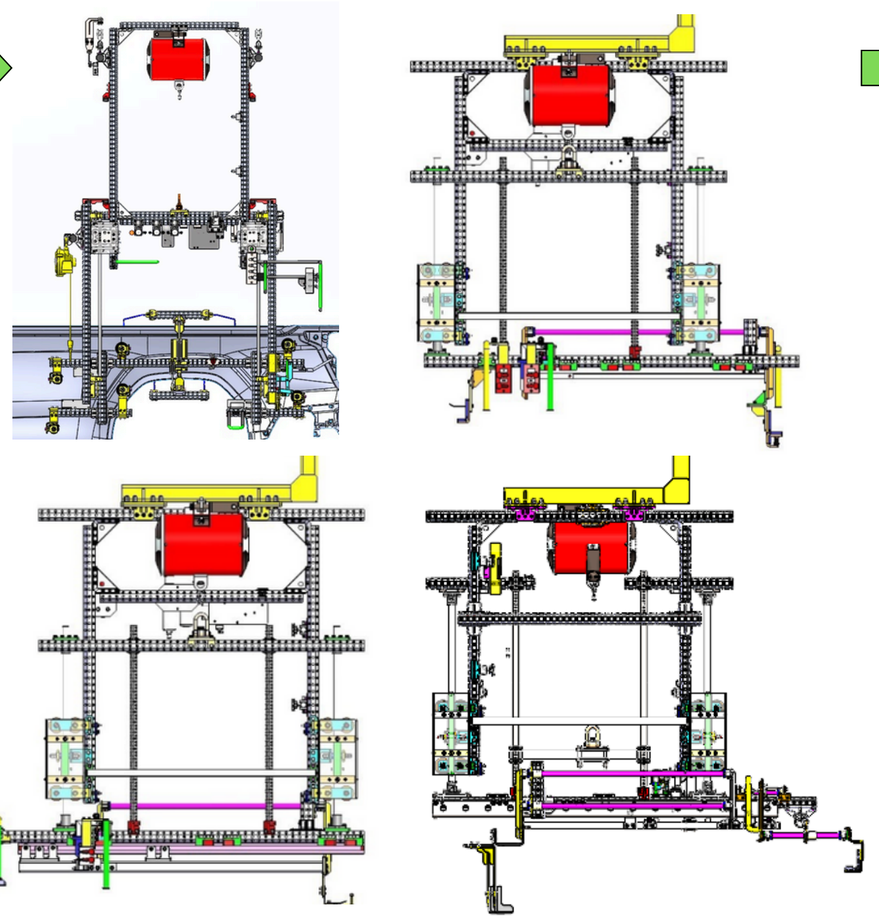
Assembly

Our Projects

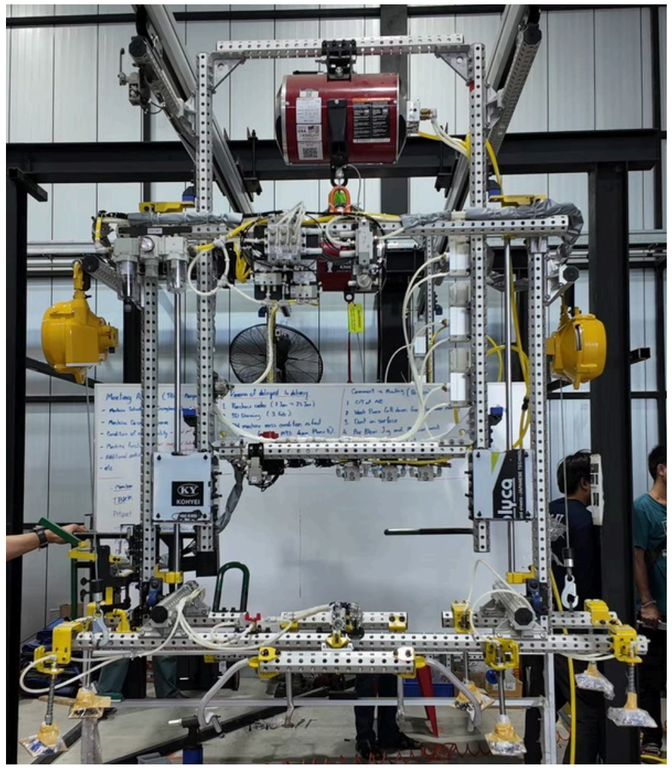
Overhead transfer

Aluminium profile



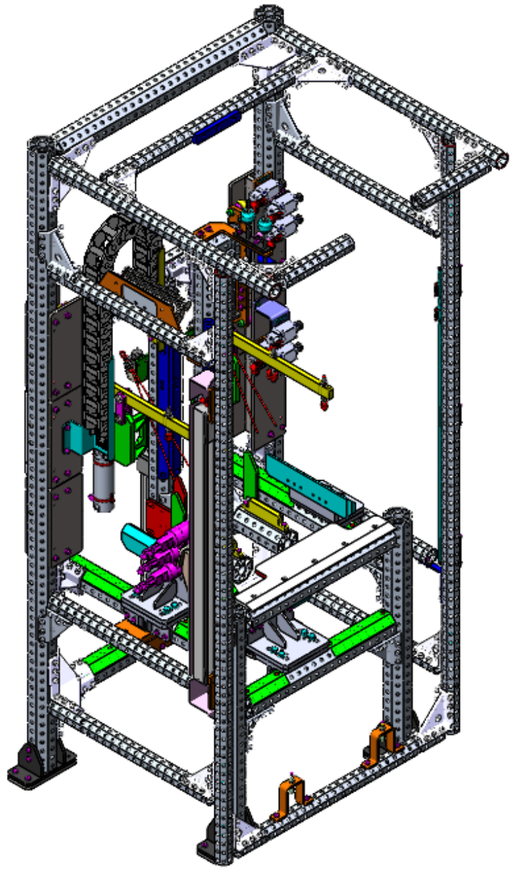


EGT

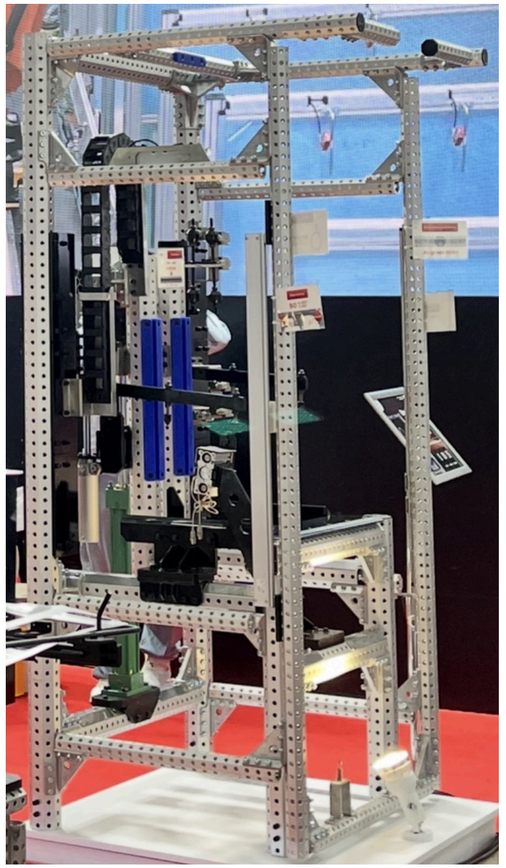


Machine

EGT+SSC concept



Design

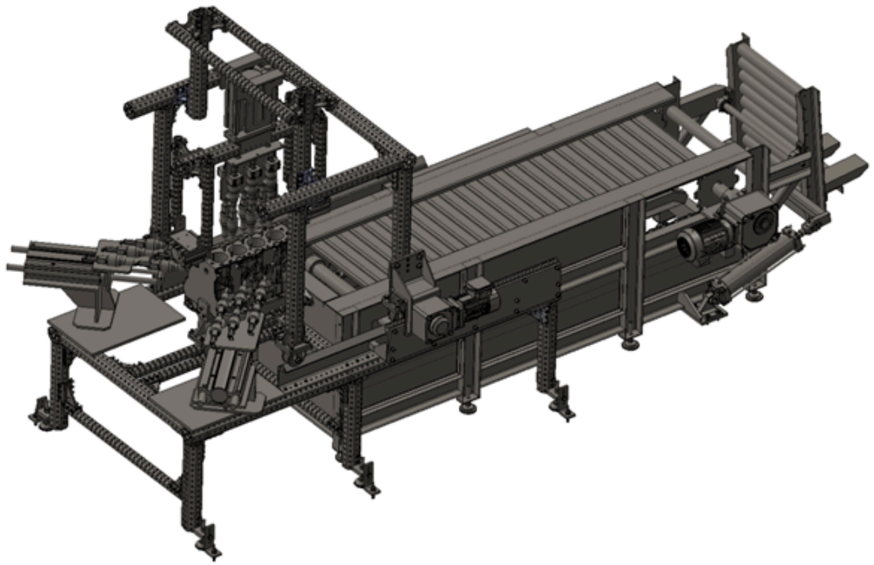


Assembly

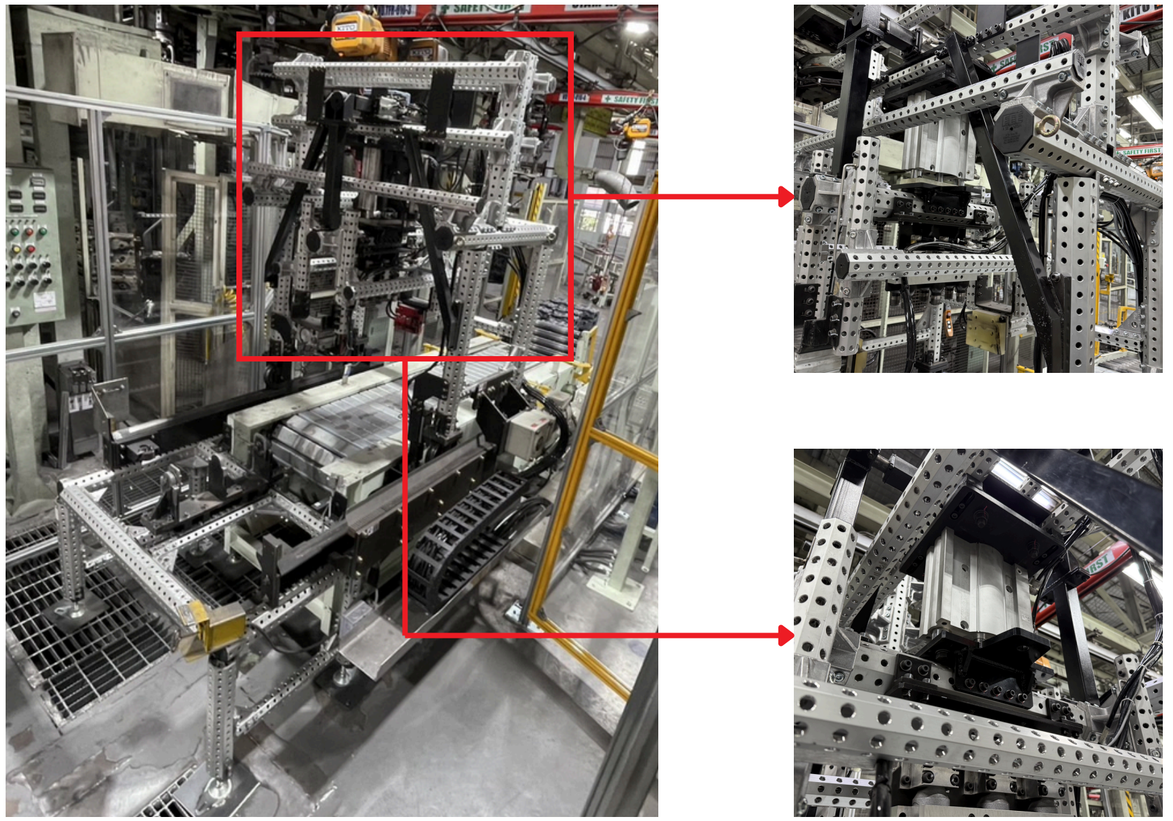
Our Projects

Conveyor in header

EGT+SSC concept



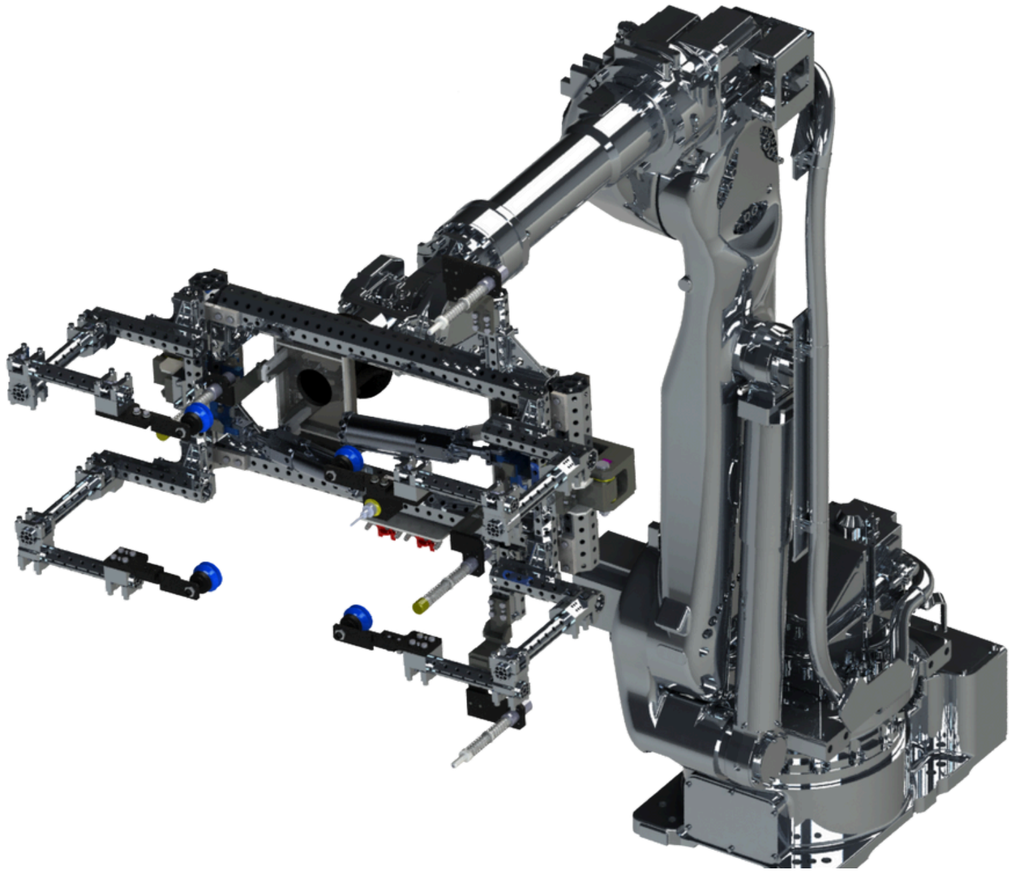
Design



Assembly

Our Projects

Gripper



Design



Assembly

Exhibition

Metalex 2023





Metalex 2024



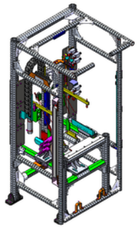


Distributor operations

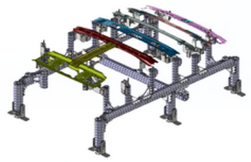
Delivering value based on customer needs

EGT seperately

Provide customer advice for
learn about how to use EGT



EGT
design



EGT
assembly



EGT
applications

All-in-One

Engineering services

- Design
- Assembly
- Installation
- Commissioning

Flexible Delivery Options

Support all customer delivery needs
Ensuring goods arrive safely, quickly and hassle-free



DHL Freight or
other logistics providers



Sea Freight



Air Freight

Thank you for your interesting

We hope to have the opportunity
to work together in the future

+66 2 362 6358
+66 85 144 1114

admin@apa.co.th