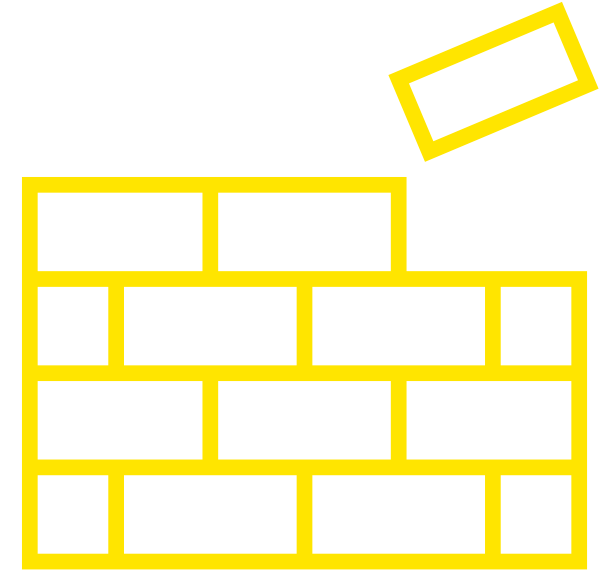
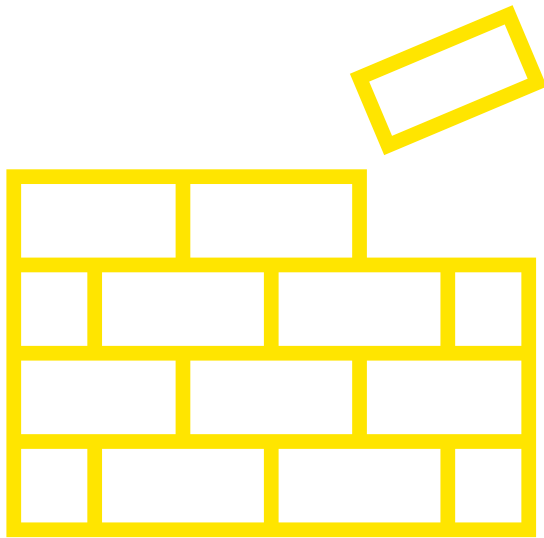


# Basics for automation



# Basics – Why?

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- Automotive body manufacturing automation technology is heavily influenced by standards developed over many years in this sector. Absolute reliability, optimum serviceability, and high performance tailored to the requirements of large-scale production with extremely short cycle times are the key drivers behind these specifications.
- However, these standards are oversized for most common automation tasks and therefore lead to solutions that exceed conventional requirements in terms of size and cost.
- Basics from TÜNKERS are the answer to normal applications in automation technology, e.g., in single-item and small-batch production or in the supply industry. These basics continue to meet the usual standards in terms of energy efficiency, robustness, and operational safety.

# Basic one: Power Clamp VC-Series

The high-performance clamp is designed for the safe clamping of medium-sized and large car body components and is intended for use in demanding industrial applications. An integrated toggle lever mechanism with self-locking function ensures high clamping force and reliable process stability. Different opening angles can be realized individually by means of appropriately designed internal stops.

The enclosed aluminum housing provides a robust and durable design, ensuring long service life even under harsh operating conditions. The fork-shaped clamping arm with a standard hole pattern allows for easy and flexible mounting of contour elements.

Optionally, the high-performance clamp can be equipped with a weld-resistant inductive sensor (T12) for reliable position monitoring of the “open” and “closed” states, making it ideal for automated manufacturing processes.

Construction sizes: VC40, VC50, VC63



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# Basic two: EXPERT Chain-Indexer EDK

## FLAT. SIMPLE. GOOD

The new EDK chain rotary drive from EXPERT-TÜNKERS impresses with its simple, flat design. It is particularly suitable for applications with low installation heights and large outer diameters – ideal for automated processes where only low torque is required.

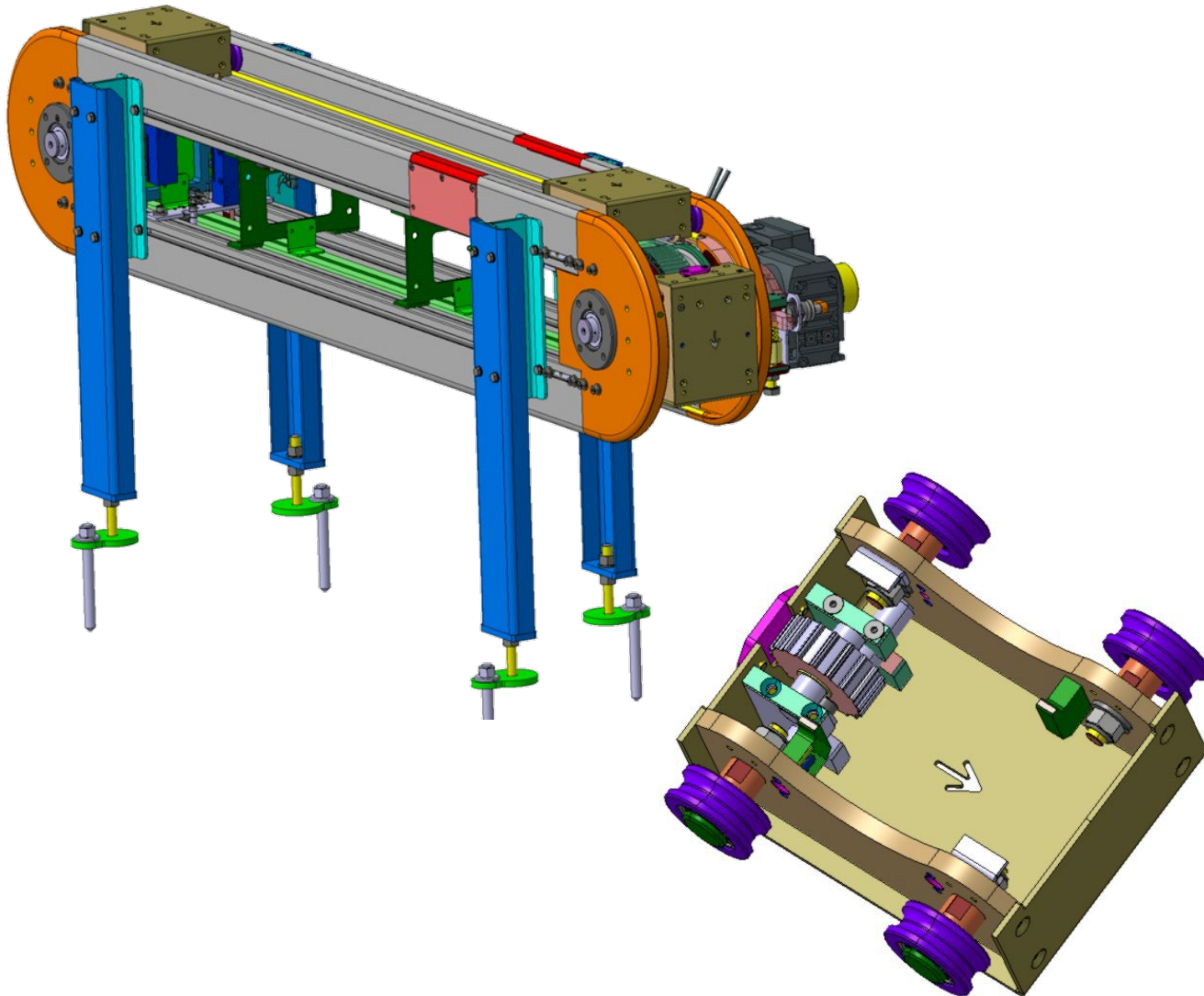
### The advantages at a glance:

- **Very flat design – 45 % lower**  
*(as identical rotary drives)*
- **Faster production time**  
through reduced complexity
- **Large inner diameter**  
for greater design freedom
- **Outer diameter up to 2,000 mm available**
- **Low costs – up to 40% cheaper**  
*Compared to roller rotary drives*
- **Based on proven durability**  
*Same bearings as EDH rotary drives*



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# Basic three: Conveyor AFL



## General:

- Double thoothed belt-driven accumulation conveyor
- Low maintenance, as no lubrication or chain tensioner required
- Maximum transport load: 60 kg (component + component holder)
- Drive speed: 7.6 m/min
- Available lengths: 1.5 m to 15 m

## The stopper:

- Precision accuracy of the standard stopper: +/-1 mm
- Driven by a TÜNKERS SZK25 pin retracting

## The range:

- Length: 200 mm
- Width: 150 mm
- Maximum transport width: 500 mm

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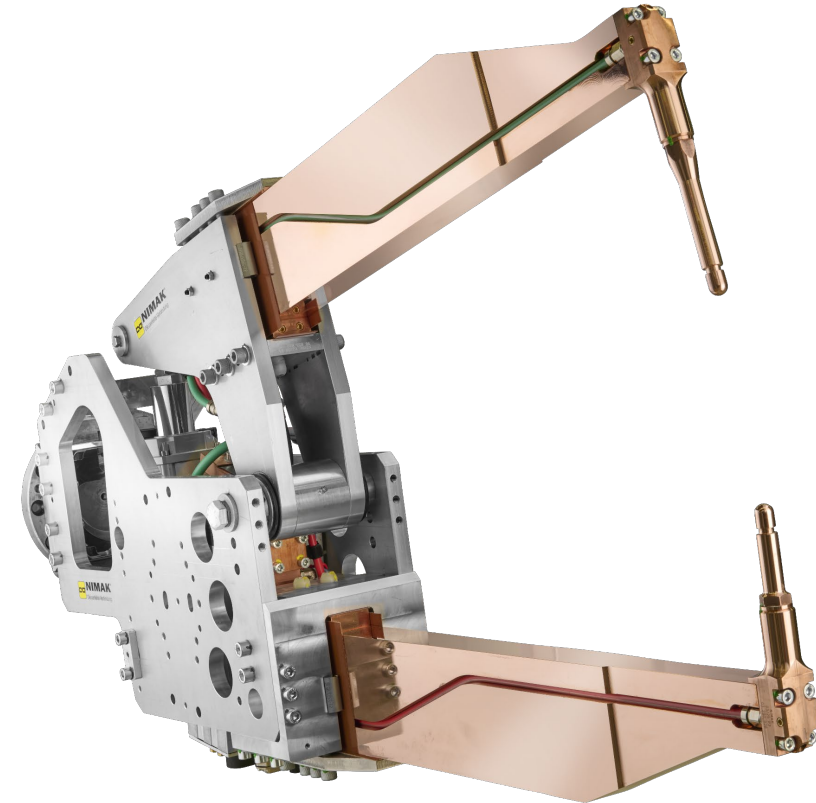
# Basic four: NIMAK universalGUN

## The new NIMAK robot welding gun

- Consistently simpler and reduced mechanical design
- low weight, easy to maintain and to repair
- Compatible with all robot types

### Technical data:

Term	C	X
Minimum throat	300mm	400mm
Maximum throat	1.000mm	1.300mm
Max. electrode force Small servo drive	6 kN	5kN at 900mm 6kN at 700mm
Transformer	100 and 170 kVA	100 and 170 kVA
Weight Base body	77 kg	94 kg



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# Basic five: Smart Dosing

## One-size fits all

- Max. weight: 5kg
- Fully electric
- Integrated pressure sensor to control material pressure inside the system
- Reduced number of parts

## Simple technology with robust design.

- One guided stroke on the back side that moves the follower plate
- One electrical driven pump (heated / not heated)
- Integrated pressure sensor for matching with application head pressure
- Rigid one frame design for 20l -, 50l – und 200l – barrels (600mm wide)
- Innovative design of follower plate to reduce waste



Smart dosing head

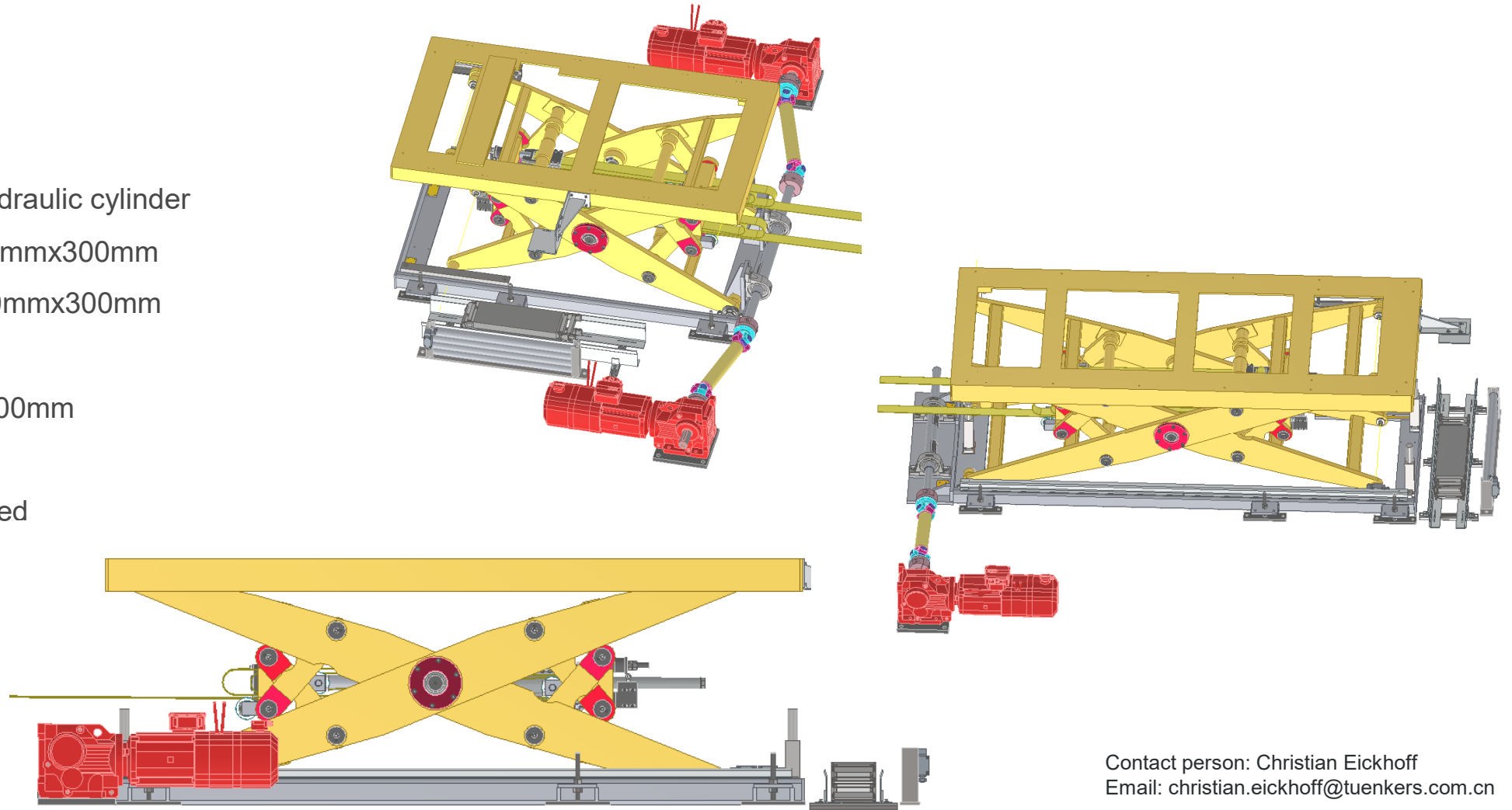


Conventional dosing head

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# Basic six: Scissor lift table

- 1 Payload 1000KG
- 2 Speed 150mm/s
- 3 With Anti-dropping hydraulic cylinder
- 4 Size: 1000mmx2670mmx300mm  
1000mmx2000mmx300mm
- 5 Stroke: up to 1.2m
- 6 Lower position: to 300mm
- 7 2 belt drive system
- 8 Size can be customized



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