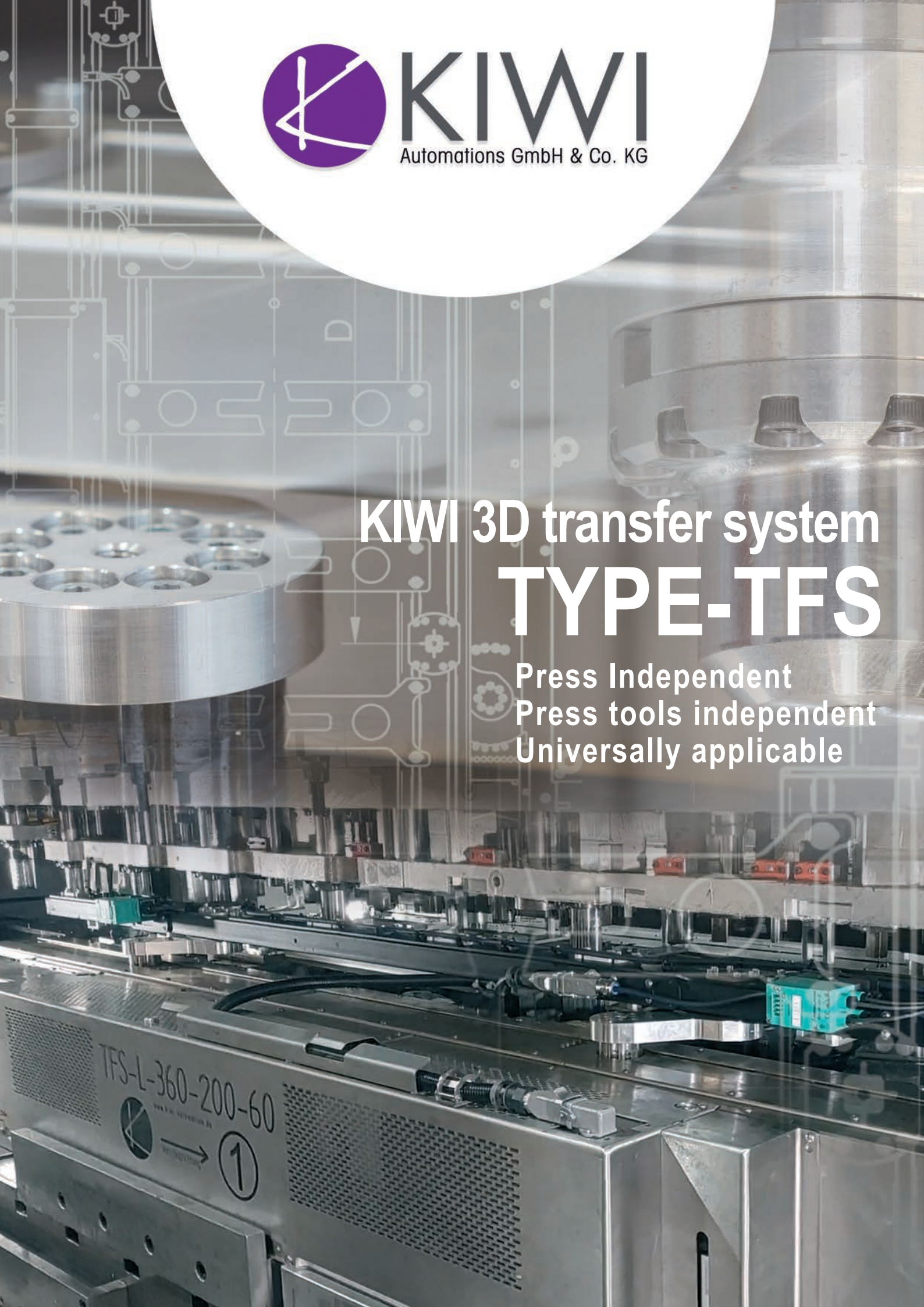
KIWI
Automations GmbH & Co. KG

# KIWI 3D transfer system
# TYPE-TFS

**Press Independent**
**Press tools independent**
**Universally applicable**



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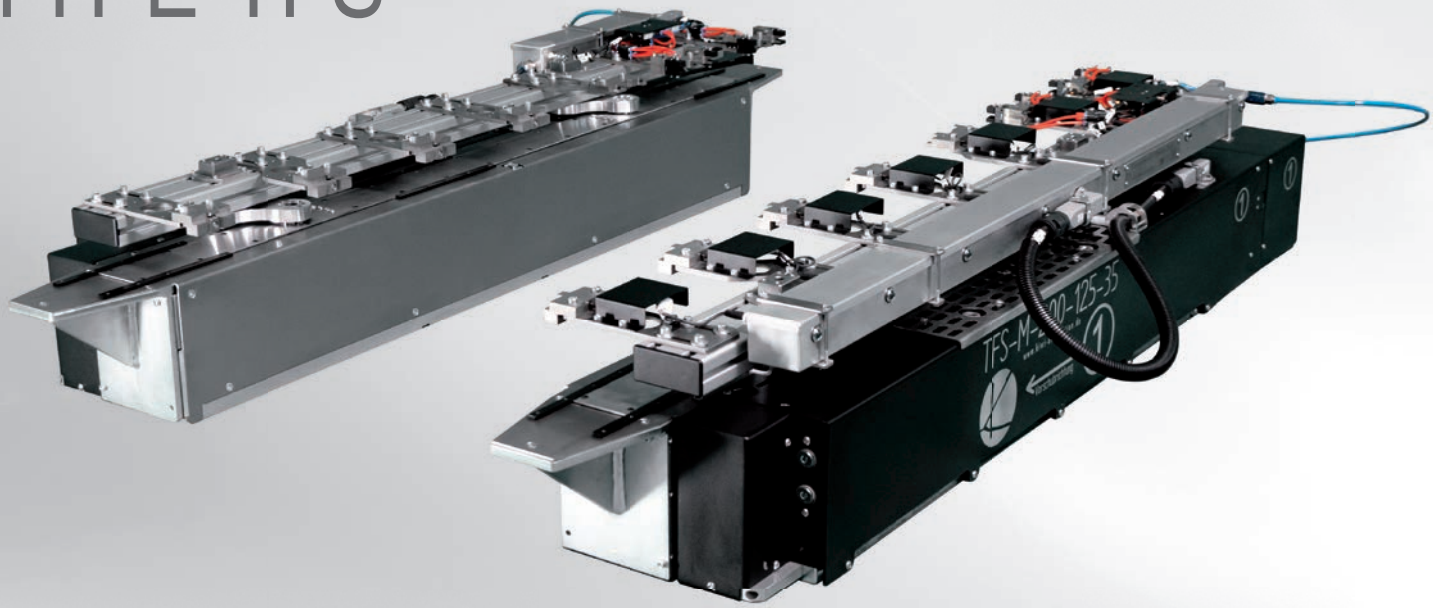
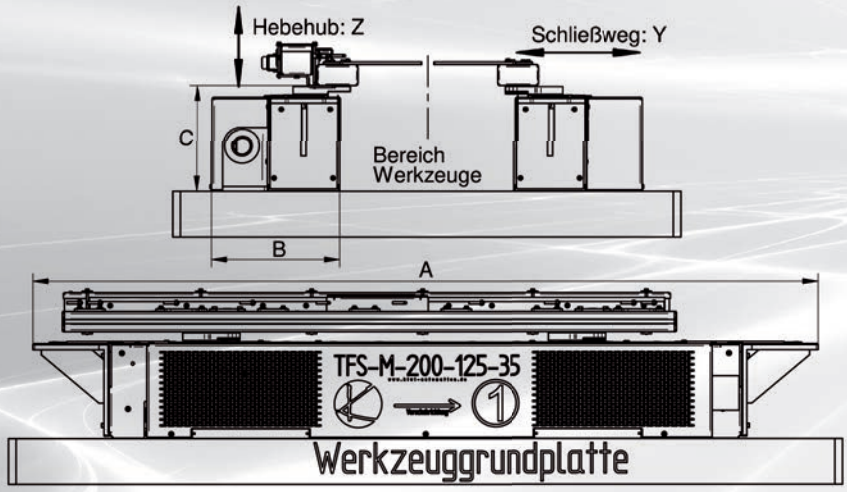
KIWI 3D transfer system

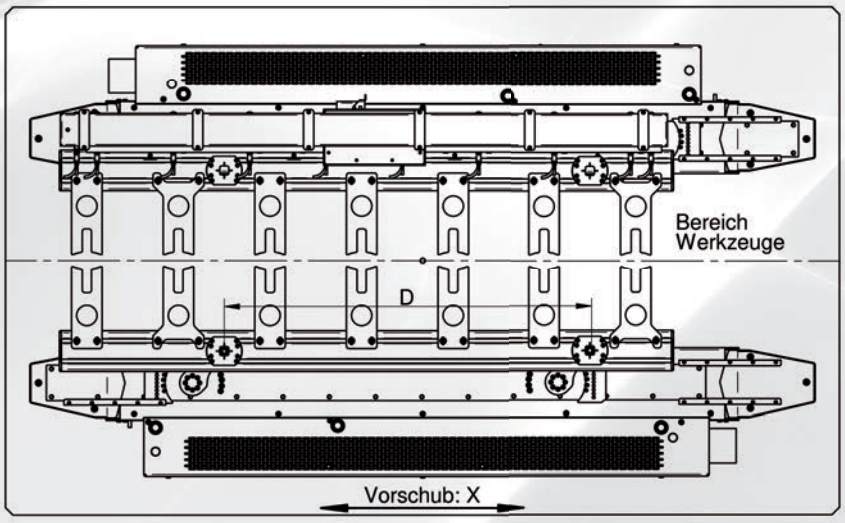
# TYPE-TFS



The TFS transfer system was developed for use on automatic stamping machines.

The 3D-transfersystem (TFS) enables the full transfer-technology on a stamping machine.
The use cases of your stamping machine are significantly enhanced.




View: dimensions

## Your advantages

I flexible usage on multiple machines
I multiple transfersystmes can be controlled with a single control unit
I No mechanical adjustment on the machine necessary
I If not used no obstructing transfer-components present on the machine
I No addition safety cages required
I tooling can be performed on the tool base plate
I synchronization of grippers and tool can be performed outside the press
I short tooling times increase productivity
I short and therefor light gripper rails
I build for high dynamics = enables high stroke rate
I integrated transportation check
I active griper-functions
I two performance levels available
I low investment-costs

Table, type overview

| Type | A | B | C | D | X | Y | Z | K | L* | H* | I* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TFS-M-140-125-35-720 | 1320 | 262 | 211 | 720 | 140 | 125 | 35 | 15 | 1440 | 74 | 79 |
| TFS-M-180-125-35-720 | 1430 | 262 | 211 | 720 | 180 | 125 | 35 | 15 | 1440 | 70 | 79 |
| TFS-M-200-125-35-720 | 1544 | 262 | 211 | 720 | 200 | 125 | 35 | 15 | 1440 | 68 | 79 |
| TFS-M-240-125-35-800 | 1690 | 262 | 211 | 800 | 240 | 125 | 35 | 15 | 1600 | 64 | 79 |
| TFS-M-280-125-35-800 | 1800 | 262 | 211 | 800 | 280 | 125 | 35 | 15 | 1600 | 61 | 79 |
| TFS-M-180-125-35-1000 | 1710 | 262 | 211 | 1000 | 180 | 125 | 35 | 15 | 1900 | 70 | 79 |
| TFS-M-240-125-35-1000 | 1890 | 262 | 211 | 1000 | 240 | 125 | 35 | 15 | 1900 | 64 | 79 |
| TFS-M-300-125-35-1000 | 2060 | 262 | 211 | 1000 | 300 | 125 | 35 | 15 | 1900 | 59 | 75 |
| TFS-L-180-200-60-1000 | 1800 | 374 | 304 | 1000 | 180 | 200 | 60 | 30 | 2000 | 61 | 75 |
| TFS-L-220-200-60-1000 | 1900 | 374 | 304 | 1000 | 220 | 200 | 60 | 30 | 2000 | 56 | 75 |
| TFS-L-240-200-60-1100 | 2050 | 374 | 304 | 1100 | 240 | 200 | 60 | 30 | 2200 | 54 | 75 |
| TFS-L-280-200-60-1100 | 2170 | 374 | 304 | 1100 | 280 | 200 | 60 | 30 | 2200 | 51 | 75 |
| TFS-L-240-200-60-1200 | 2200 | 374 | 304 | 1200 | 240 | 200 | 60 | 30 | 2400 | 54 | 75 |
| TFS-L-300-200-60-1200 | 2400 | 374 | 304 | 1200 | 300 | 200 | 60 | 30 | 2400 | 49 | 75 |
| TFS-L-360-200-60-1200 | 2600 | 374 | 304 | 1200 | 360 | 200 | 60 | 30 | 2400 | 45 | 75 |

Key

| | |
|---|---|
| A | length per transfer side |
| B | width per transfer side |
| C | minimum transport level over baseplate |
| D | bearing bolt distance for gripper rail |
| X | maximum feed |
| Y | maximum closing per side |
| Z | maximum stroke height |
| K | maximum weight per gripper rail including grippers |
| L | recommended maximum length of gripper rails |
| H | maximum stroke rate at maximum way |
| I | maximum stroke rate at reference way |

*half of gripper rail weight, Z-X-way partly overlapping. The actual achievable stroke rate per minute is dependent on tool- and gripper construction as well as the interplay of press and transfersystem.

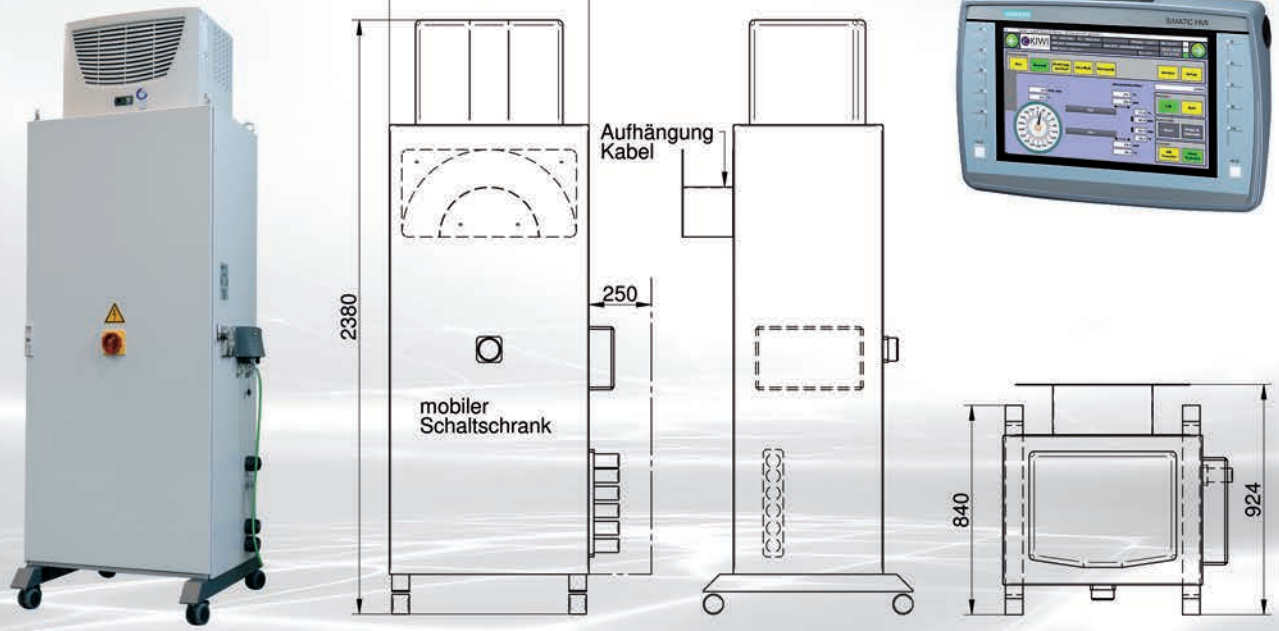
KIWI 3D-Transfersystem

# TYP-TFS



## Electronics

The transfersystem drive is located on both sides of the transfer on the tool base plate. The PLC, drive controller, safety electronics as well as all other electronic components are located in a separate electronic cabinet 800 x 600x 2400 mm, (WxDxH). Optional available with wheels.
The electric cabinet can be placed temporarily close to the press while the transfersystem is in operation.
Input: 400V/63A
The control is performed via a mobile 9" touch panel.




## Communication with stamping machine

The transfersystem is coupled in case of mechanical extender press via a mounted encoder.
In case of servo press, the encoder signal can be obtained directly from the virtual control signal of the press.
The transfer is moving synchronously with the press control signal. The required start and status signals can either be obtained via digital Input/Outputs or via a bus connection (Profinet).

Images and films say more than words.
View the KIWI transfer system in action at: http://www.kiwi-automation.de



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