

INDUSTRIAL CRANES  
 NUCLEAR CRANES  
 PORT CRANES  
 HEAVY-DUTY LIFT TRUCKS  
 SERVICE  
 MACHINE TOOL SERVICE

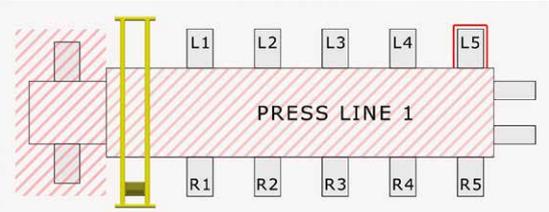
AUTOMOTIVE INDUSTRY

**KONECRANES**<sup>®</sup>  
 Lifting Businesses™

AUTOMOTIVE INDUSTRY

# DIE HANDLING CRANES

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E	005	051	040	041	030	021	025	021	015	011	006	001
D	087	002	047	042	037	032	027	022	017	012	007	002
C	095	032	048	043	038	033	028	023	018	013	008	003
B	009	054	049	044	039	034	029	024	019	014	009	004
A	080	055	050	045	040	035	030	025	020	015	010	005





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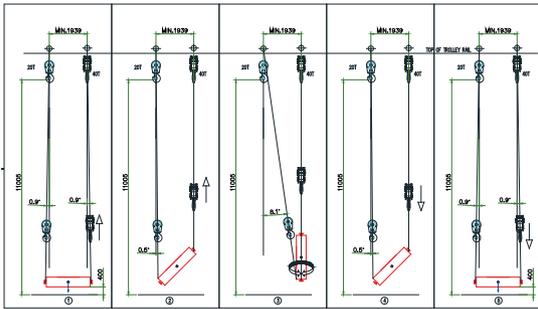
# DIE HANDLING CRANES

## Reliability and safety in die handling

In press shops dies are handled with slings on all four corners or with a special lifting device, a Die Gripper. Konecranes offers several types of cranes for die handling purposes in needed classifications and tonnages: CXT®, SMARTON® and LV cranes. Making vehicles requires the production to stay efficient and the equipment reliable. Konecranes solutions enable safe and easy operation methods. The crane cycle times are cut smaller by using PLC controlling, correct position sensing, radio controlling via Profibus, Sway Control system and helpful semi-auto functions.

## Die turning and rope angles

When a die upper part is turned around for service purposes, big rope angles typically around 6-12 degrees build up. The angles are related to rope length and distances between hooks. The big angles consider specially the auxiliary hoist in a two hook / two trolley solution.



## Cranes with die gripper



Cranes can also be equipped with a Die Gripper (or Die Lifter). The operator can control the width and length of gripper by a radio controller. Gripper legs are controlled by inverter. The needed positioning accuracy of a Die Gripper Crane is usually about +/- 20 mm realized with the following measures:

- two lasers for bridge position measurement, one for trolley
- rotating absolute encoder for hoisting
- closed loop inverter control
- strict mechanical tolerances and accurate movements

## Future of maintenance - TRUCONNECT® Remote Services



TRUCONNECT® Remote Services represent the latest innovations in Konecranes service business. The full TRUCONNECT® offering can include a variety of distinct remote services ranging from periodic data reporting to real-time diagnostics, technical support and production monitoring.

## Service programs based on your needs

The programs include offerings that range from compliance inspections and on-call status, all the way to a full service partnership where your crane maintenance and operations can be out-sourced to Konecranes.

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## Using camera views with radio controller

As handling a die in a warehouse or at a bolster requires high accuracy, Konecranes has developed a system, which delivers camera views to the operator. This helps the crane operator easily position a die gripper to the lifting pin of a Die. Cameras can be mounted to die gripper or trolley.