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Isuzu MY25 N Series Rear Mount Cranes

Product:	Maxilift	**Document No.**	TB-034-A
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Relevant Models / Variants / Serial Numbers:		All Maxilift models	

Background

Isuzu N Series models, released in 2025, employ a chassis design that has a reduced section (height) at the rear of the chassis. Depending on the model and wheelbase, this dimension varies and can dictate the subframe design and crane capacity that will be suitable. This bulletin will assist in the correct selection of the crane model and subframe design. This bulletin relates to vehicle's supplied as a cab chassis and vehicles in the "ready to work" range that are sold with an Isuzu aluminium tray.

Figure 1 - Isuzu NLR TRAYPACK with reduced height chassis rails

Figure 2 - Chassis with steel tray subframe and aluminium runner

Figure 3 - Isuzu NNR Cab chassis - P/S chassis rail

Figure 4 - Isuzu NNR Cab chassis - D/S chassis rail

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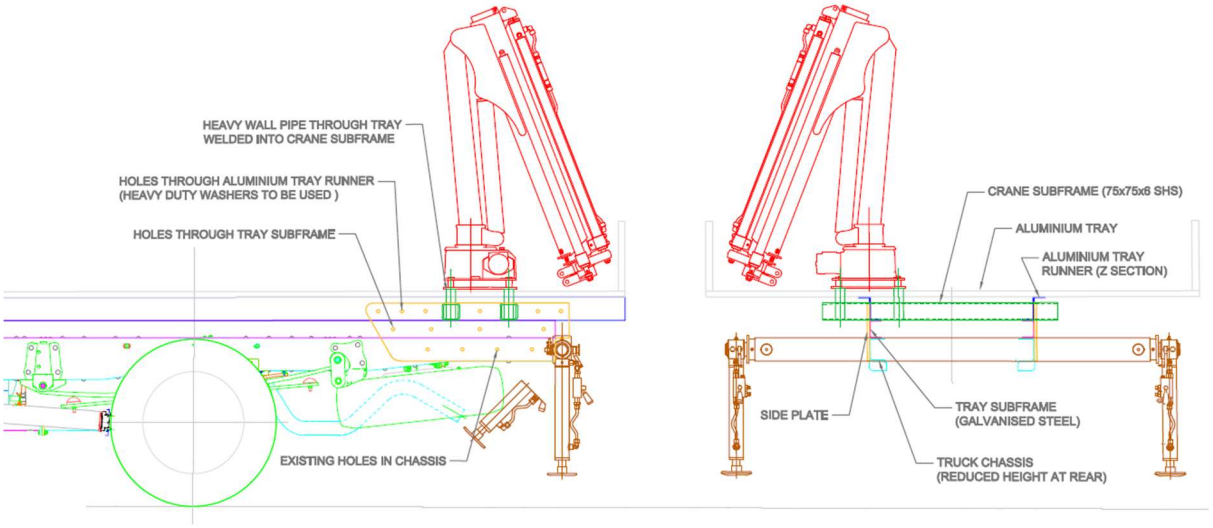
The drawing below shows a typical mounting layout for a Maxilift crane, positioned over the chassis rail. The configuration uses two 75x75x6mm cross members to mount the crane. The cross members are supported by steel side plates that are bolted to the chassis, tray subframe and tray runner. A tilting stabiliser leg beam is positioned at the rear of the chassis and welded to the steel side plates. This configuration ensures and rigid structure that utilises the tray runner and subframe to ensure the bending stress applied to the chassis rail by the crane is dispersed adequately along the chassis.

MY25 ISUZU N SERIES
TRAYPACK / TRADEPACK MODELS
GENERIC SUBFRAME LAYOUT - REAR MOUNT OVER CHASSIS RAIL



Note: The **minimum** size, tray subframe (Isuzu or bodybuilder) is 75x50x3mm C-channel

The table below outlines the range of Isuzu N Series models and the recommended **maximum** crane size. Calculations are based on a similar layout to the above drawing and assume that either the Isuzu tray subframe or aftermarket tray subframe are present and rigidly fixed to the chassis. The calculations have assessed chassis strength compliance with VSB6, Section R only.
Vehicle stability and axle loading have not been considered in these calculations.

Model	GVM (tonnes)	Wheelbase (mm)	Maxilift Model
NKR 45/65	4.5 – 6.5	2490 - 2760	ML330
NKR 45/65	4.5 – 6.5	3360	ML280
NLR 45	4.5	2490 - 3360	ML280
NMR 45/65	4.5 – 6.5	2490 - 2760	ML330
NMR 45/65	4.5 – 6.5	3360	ML280
NNR 45	4.5	2795 - 3845	ML420
NPR 45/65	4.5 – 6.5	2795-3395	ML420
NPR 45/65	4.5 – 6.5	4260	ML510
NPR 45/70	4.5 – 7.0	3365 - 3815	ML650
NQR 88	8.8	4175 - 4475	ML650

Note: As per NHVR guidelines, the installers Approved Vehicle Examiner should be consulted prior to installing the subframe and crane.