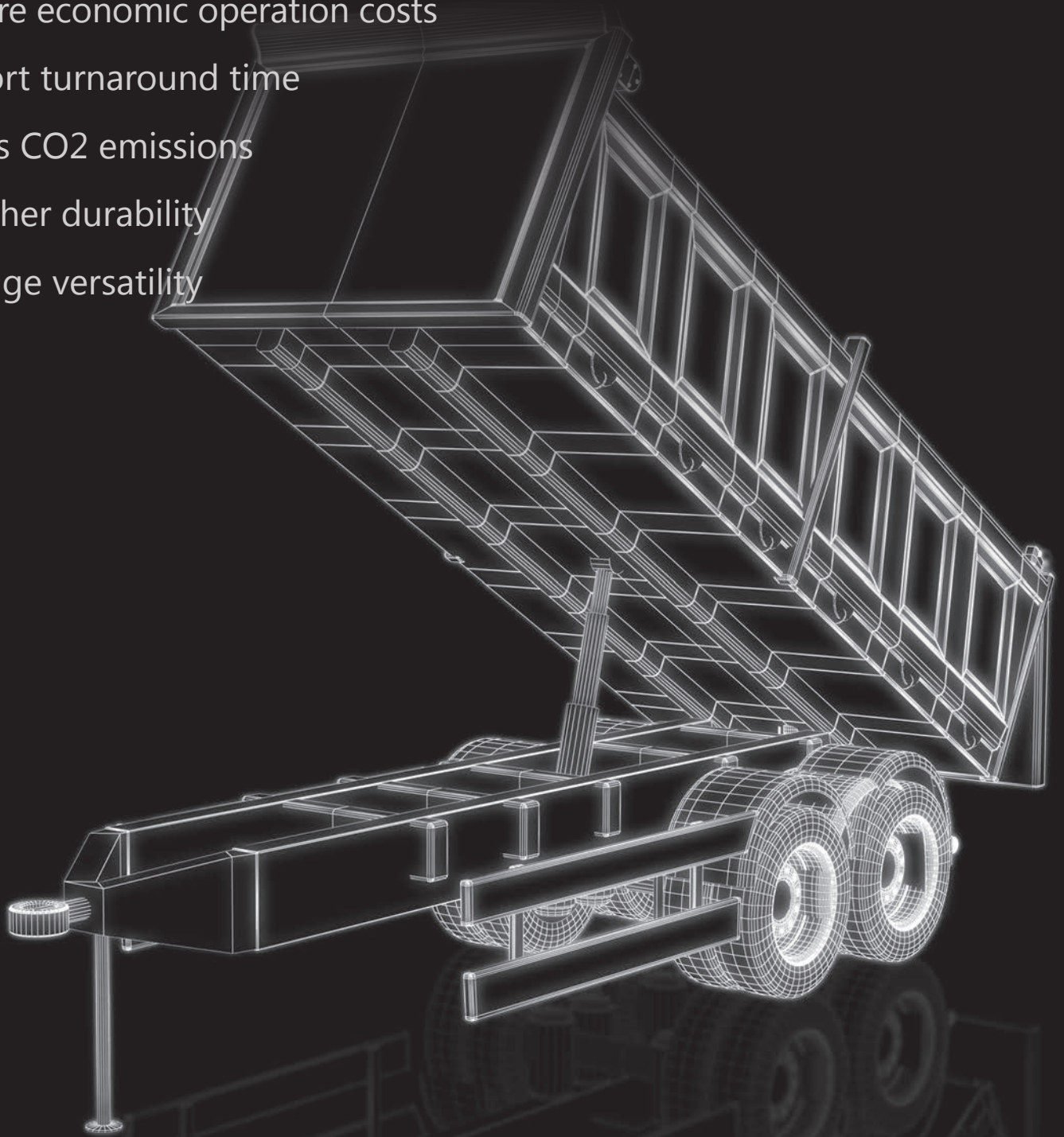


HERKAL[®]

FOR TIPPER LORRIES THAT WORK HARD

Design your tipper lorries with enhanced loading capacity and durability.

- Higher payload
- More economic operation costs
- Short turnaround time
- Less CO2 emissions
- Higher durability
- Usage versatility



ALMET

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TECHNICAL SPECIFICATIONS

WEAR RESISTANCE

Herkal HK34[®] has a high magnesium and low silicon content.

This results in achieving both a high hardness and retaining high formability properties.

All these characteristics combined with a fibrous internal structure give Herkal HK34[®] a superior resistance to abrasion.

WEIGHT SAVINGS

Aluminium has a density only a third that of steel, delivering significant weight savings.

The payload can therefore be increased by several hundred kilos for tippers on lorries and by more than 2 tonnes for larger articulated vehicles.

Alternatively, your tippers-economic efficiency will be optimized with lower gas consumption as well as a lower CO2 footprint.

PROCESSING METHODS

Herkal HK34[®] is easy to use and enables various models of tippers to be designed:

- Standard rectangular cross-section tippers
- Tippers with semicircular cross-section and a low centre of gravity

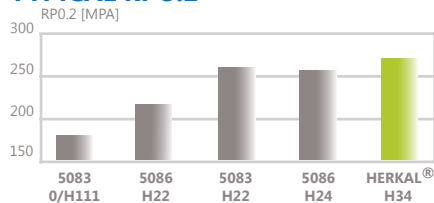
It can be bent to suit semicircular cross-section designs:

- Bending guaranteed for angles > 90° with bending radius > 4 times the thickness of the sheet.

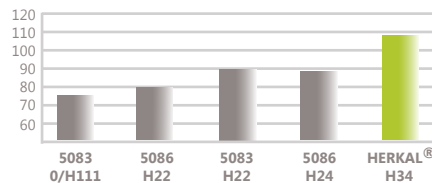
Herkal HK34 has an excellent capacity for welding, both in MIG and TIG.

ADVANCED MECHANICAL PROPERTIES

TYPICAL RPO.2



ADVANCED MECHANICAL PROPERTIES



BENEFITS

- Higher payload
- More economic operation costs
- Less CO2 emissions
- Higher durability
- Usage versatility

MECHANICAL STRENGTH

Minimum properties

	Tensile strength	Yield strength	Elongation
Thickness (over.to)	R _m [MPa]	R _{p0.2} [MPa]	A ₅₀ [%]
4 - 10 mm	340	250	10

Typical properties

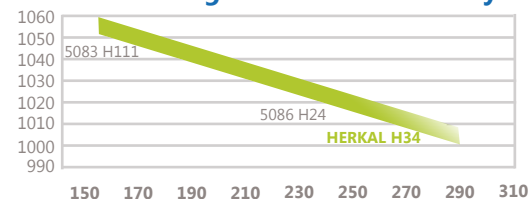
	Tensile strength	Yield strength	Elongation	Hardness
	R _m [MPa]	R _{p0.2} [MPa]	A ₅₀ [%]	HB
	360	270	17.0	110

PROVEN SUPERIORITY THROUGH ABRASION RESISTANCE TEST

The Taber[®] abrasion test using a grade H18 grinding wheel under a load of 1,000 g for 2,000 revolutions reveals the differences in behaviour of different types of aluminium sheet when subjected to wear. The fibrous structure and high limit of elasticity of Herkal HK34[®] result in lower loss of surface material.

TABER[®] TEST

Loss of mass against limit of elasticity



DIMENSIONS ON STOCK:

6 - 7 - 8 mm
2100 mm (w) x 6000 mm. (l)

MAX. DIMENSIONS:

Width < 2400 mm.
Length < 12500 mm.

For more detailed technical information and the suitability for your chosen application, please contact Almet Benelux

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