

UNDERBODY TIPPING SOLUTIONS



HYVA® TIPPING
SOLUTIONS

www.hyva.com

UNDERBODY SOLUTIONS



Hyva, recognised worldwide for high-quality products and excellent after sales service, has produced its own range of underbody tipping cylinders since 1985.

Tipping solutions are available for underbody applications in a variety of market segments, including:

- Construction
- Agriculture
- Road transport
- Municipal



Hyva's underbody solutions include:

Telescopic hydraulic cylinders – designed to match your application

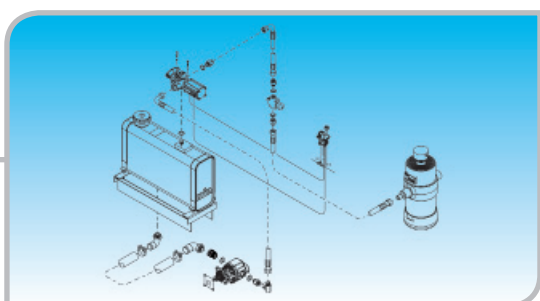
- **UL Range** for light duty trailers and vans
- **UM Range** for medium duty trucks and (agri) trailers
- **KR range** for heavy duty trucks and (agri) trailers



Cradles and brackets – providing optimal tipping performance by avoiding side load on the cylinder

The cylinder is preferably fitted with a cradle and knock-off to protect the seals against mechanical wear and ensure maximum life.

- Designed for UL / UM range
- Optional integrated pneumatic knock-off
- Weldable and bolttable brackets



Wet kits – matched to the needs of each tipping solution

- Wet kits comprise a gear pump, oil tank, hoses, PTO, knock-off parts, valve parts and tip control kit
- Specified for the various markets, from trailers to vans to trucks
- Hyva Wetkits are supplied in one box for easy handling and storage



Body components

- 3-way tipping hinges
- Rear hinges
- Hose guides
- Safety cables
- Anti rattling device
- Mudguard parts

Hyva cylinders are renowned for their strength, durability and lifting force.
The high working pressure in combination with multiple stages, result in a small built-in length.

Fitting a Hyva underbody cylinder ensures a high lifting force and allows for a flexible way of unloading.
In combination with Hyva 3-way tipping balls the body can be tipped sideways and to the rear.

UL range – “Light” Duty telescopic cylinders

Features		HYVA Cylinder		
Maximum working pressure of 190 Bar		High tipping capacity		
Hard chromed stages		Abrasion resistant even in harsh environments		
Superior stop rings		Faster tipping		
Lifting force up to 13 Tons		Fit for application		
Available in ball and eye version		For side or rear tipping		
Interchangeable with most underbody cylinders		Easy maintenance		
Stroke up to 2000 mm		Meets all desired tipping angles		
Built-in length from 410 to 585 mm		Can be mounted in nearly any tipper		
UL	1 st Stage Diameters Metric	77 mm	93 mm	110 mm
	Stages	2/3	2/3/4	2/3/4/5



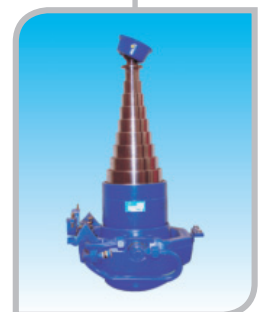
UM range – “Medium” Duty telescopic cylinders

Features		HYVA Cylinder			
Maximum working pressure of 220 Bar		High tipping capacity			
Hard chromed stages		Abrasion resistant even in harsh environments			
Superior stop rings		Faster tipping			
Lifting force up to 38 Tons		Fit for application			
Available in ball and eye version		For side or rear tipping			
Interchangeable with most underbody cylinders		Easy maintenance			
Stroke up to 4000 mm		Meets all desired tipping angles			
Built-in length from 410 to 890 mm		Can be mounted in nearly any tipper			
UM	1 st Stage Diameters Metric	129 mm	149 mm	169 mm	191 mm
	Stages	3/4/5/6	3/4/5/6	4/5/6/7	4/5/6/7/8



KR-M/A range – “Medium and Heavy” Duty telescopic cylinders

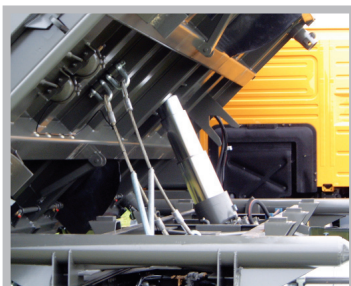
Features		HYVA Cylinder			
Max. Working pressure of 275 Bar		High tipping capacity			
Hard chromed stages		Abrasion resistant even in harsh environments			
Cradle and brackets are already fitted		Convenience, ‘one stop shop’			
Lifting force up to 38 Tons		Fit for application			
Interchangeable with most underbody cylinders		Easy maintenance			
Stroke up to 4000 mm		Meets all desired tipping angles			
Built-in length from 389 to 560 mm (M)		Can be mounted in nearly any tipper			
Built-in length from 610 to 1185 mm (A)		Can be mounted in nearly any tipper			
KRA	1 st Stage Diameters Metric	125 mm	145 mm	167 mm	193 mm
	Stages	3/4	3/4/5	3/4/5/6/7	3/4/5/6/7
KRM	1 st Stage Diameters Metric	145 mm	167 mm	193 mm	223 mm
	Stages	5/6	5/6/7	6/7/8	6/7/8/9



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- Tip in any direction by simply changing the position of the tipping ball locking pins
- Fully hard chromed tubes guarantee a long lifetime
- Low mounting height for a low centre of gravity and an easily accessible loading platform
- Efficient lift without side load on the cylinder (for assemblies with cradle)
- Complete kit from one, reliable supplier - one stop convenience
- Simple installation with minimum changes to the truck chassis and sub-frame
- Global service network

Hyva is the largest producer of telescopic cylinders in the world. Our engineers have the expertise and experience to help you make the right choices. Hyva also produces a wide range of front end, single and double acting cylinders.



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