

HE-VA PTO's can be fitted to most linkages.

### FRONT PTO TECHNOLOGY AT IT'S BEST



preventing vibration. Similarly the "soft start system" uses an electro hydraulic multi-plate clutch inside the gearbox to provide smooth power engagement to the front PTO. Oil pressure for the clutch is supplied by an intergrated pump in the gearbox which is driven by the input shaft.

Where possible HE-VA use the tractor manufacturers own PTO engagement switch so that it integrates neatly into the switch layout in the cab.

> **HE-VA PTO units** are completely self contained using standard transmission oil and a replaceable oil filter.

The gear reduces the rotation 2.1 to 1 (2100 engine rpm = 1000 PTO rpm) and it turns anti-clockwise when you look at the front of the

The shaft is 1 3/8" (35mm) with 6 splines

The 'heavy duty' gearbox can transfer a maximum of 125 kw (173 hp) continuously and even more in peak loads.





## **HE-VA** for Choice

#### MULTI FIT LINKAGE



The 4 or 5.5 ton Multi-fit linkage incorporates all the standard features of 2.5 to 5.5 ton linkages but is manufactured without full length side plates. This multi-purpose linkage has short side plates with multiple attachment holes so that it can be adapted to fit various machines and tractors where a three point linkage is required, e.g. trailers, slurry tankers & 4 wheel drive vehicles

- Double acting as standard
- Cat. II geometry, with Cat. III quick release ball ends and Cat. III/II balls
- Cat. II top link included

### FRONT WEIGHT FRAMES

**FRONT WEIGHTS** 



Front weight frame, 600 kg. To carry the tractors own front weights hooked directly onto the frame - (specify weight type on order) Including removable support stand and

Available from 400 kg

concrete to 1200 kg

The front weights are

Three-point mounted

- Cat. II with pins and

locking pins.

painted standard black/



## pins. Painted in the tractors colour.

**A-FRAMES** 

For fast implement hitching and unhitching.

Front weight frame, 2000 kg to carry the

weights and weight

Including removable

support stand and

tractors standard

carrier block.

(Picture shows both the section that fits onto the tractor and the part that fits onto the implement).

# **HE-VA Front** Linkages & PTO's

- Always in front





PO Box 203 Tel: (02) 4954 8900 Fax: (02) 4954 8902

Email: sales@stockercrew.com.au Web: www.stockercrew.com.au

YOUR LOCAL HEVA DEALER

Due to our company policy of continual improvement we reserve the right to change specifications without notice. E.& O.E

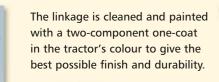
# HE-VA Linkage Technology

The difference is in the detail

Whatever front implement you intend to use, HE-VA have the ideal front linkage for the job with lift capacities from 1.5 to 5.5 tons.

What's more, with the different models which are in our list, HE-VA has a front linkage to suit every tractor with over 800 different models available. All HE-VA linkages incorporate the Vertical Fold System (VFS) allowing the link arms to fold fully back when not in use improving maneuverability and safety.

Fitting is simple and quick, as the whole side plate can be removed Also on most models, the linkage bolts onto the front of the tractor as well as the side giving more secure fixing to the tractor.



**HE-VA** selector valves All HE-VA linkages come equipped with hydraulic (selector) shut off valves as standard. The valve handle is located close to the cab rear window, in most cases, for easy access from the tractor seat. The shut off valves allow the user to lock off the linkage in a fixed position and use the linkage spool for another operation.



Where possible HE-VA linkages use a "Banjo" fitting to tee into the tractor hydraulic

system so that the user never needs to disconnect the linkage hydraulic hoses from the tractor. If the user needs the outlet back, the shut off valves can be closed and the rear quick coupling becomes available again for another connection.

Ball joint and seals on lift ram ends - ensures any twisting force from a front implement is not applied to the rams, damaging seals.

Cat. II linkage hooks on 1.5, 2.1, 2.5 and 3.6 ton linkages Cat. III linkage hooks on 5.5 ton linkage.

Distance between link arms (balls) is 825 mm.





The simple eccentric pin system allows the operator to set the linkage for the job in hand. In use, the operator has the choice of three different positions, fixed, semi-floating using the eccentric pin or fully floating without the pin. When not in use the link arms can be put into ransport position using the Vertical Fold System (VFS), by placing the pin under the arm and retracting the lift rams





Solid half shaft link

arm mounting

with replaceable

link arm bushes

#### **OPTIONS**

#### **SHOCK ABSORPTION KIT**

Consists of: Single accumulator, preloaded to 100 bar (mounted on lifting side). This is designed to protect the front linkages and tractor body against damage caused by bouncing in transport

Recommended when driving with heavy front implements and/or without suspension on the tractor front axle. Can be mounted on both single and double acting front linkages.



#### SPRING SUSPENSION KIT



oreloaded to 15 on lifting side and 1 on lowering side with pres

Recommended when weight needs to be transferred from the tractor to the front implement (or from the implement to the tractor) in work the gauge shows the







#### SHIFT-CONTROL



may not be enough all the requirement for the front Double this problem.

#### include a solenoid valve block mounted on the linkage and switch in the cab to swap between linkage operation and one or two

single or double

acting spools on the

spools on the rear of the tractor to supply or triple shift control is available to overcome

#### DOUBLE **ACTING SERVICE**

Double or single acting oil spool services can be mounted on the linkage as an option. Long hoses with quick-coupling probes are included when supplied



#### **POSITON DETECTOR KIT**

Massey-Ferguson 6200-8200 & 6400-8400 can be equipped with position detector kit and electrical lift/lowering push buttons mounted on the Front-Lift's top link bracket. This is only possible when the tractor is equipped from factory with SMS joystick contr of hydraulics, Datatronic II or III and Dual control switch rear.



#### **CONTROLLING KIT**

Case IH CVX, Steyr CVT, MF 64-8400 & JD 6020 / 6030 / 7020 / 7030 / 8020 / 8030 & Claas Arion, Axion can be equipped with electrical lift/lowering push buttons mounted on the



#### **POSITION STOP**



he travel of the linkage arms is controlled by a proximity ensor mounted on an adjustable bracket. This enables the link arms to be stopped in a selected position. When used in downward travel a desired working depth is obtained or when used in upward travel a desired

lifting height is obtained. An onboard switch in the cab enables the system to be irned off and on remotely.

#### **TORSION BAR**

The Torsion Bar is recommended for situations where the equipment exerts extremely high torsion or side pressure on the linkages arms e.g. buck rake, swinging plough press, snow plough/scraper, or hedge/verge cutter



## HE-VA Integrated Linkages – a range for all farms

With a product range of about 800 different models, there will always be a suitable linkage for your tractor.

2500 ka

at 190 bar

3600 ka

5500 ka

at 190 bar

**Front** 

Designed for small to medium sized tractors from 20 kw (28 hp) up to 60 kw (83 hp). The 1.5 ton linkages are

integrated into the design of the tractor providing all the benefits of their large

- Single acting (double acting option)
- 4 link arm positions:

The 2.5 ton linkages once again are designed closely around the tractor subframe to provide strength, simple fitting and become an integral part of the from 50 kw (69 hp) and up to 95 kw (131

- Single acting (double acting option)
- The 3.6 ton linkage is the most popular in the HE-VA range, individual linkages fit closely around the tractor sub-frame providing strength without restricting
  - Single acting (double acting option)

up to 150 kw (207 hp)

other tractor functions. Recommended

The 5.5 ton linkage is the largest in the

required for the work rates associated

with larger horsepower tractors whilst

the design avoids limiting other tractor

Front PTO power is available for most

units have a completely self-contained

oil supply and use a 'soft start' electro

hydraulic clutch to smoothly engage

the power. A replaceable oil filter

is incorporated into the gearbox fo

from 110 kw (152 hp) upwards.

Double acting

4 link arm positions

functions Recommended for tractor size

HE-VA range providing the strength

for tractor sizes from 70 kw (97 hp) and

4 link arm positions

- In work rigid, semi-floating, fully floating. In storage - vertically folded
- Standard with Cat. II quick release ball hooks and link arm geometry
- Most models available with and
- without PTO Selector valves
- T's into spool valves
- (on most tractor models)
- In work rigid, semi-floating, fully
- floating. In storage vertically folded Standard with Cat. II quick release
- ball hooks and link arm geometry
- Most models available with and
- without PTO
- Selector valves T's into spool valves (on most tractor models)
- In work rigid, semi-floating, fully
- floating. In storage vertically folded Standard with Cat. II quick release ball hooks and link arm geometry
- Most models available with and
- without PTO
- Selector valves T's into spool valves (on most tractor models)
- In work rigid, semi-floating, fully floating. In storage - vertically folded Standard with Cat. III quick release
- ball hooks and Cat. III/II balls. Cat II link arm geometry Most models available with and
- without PTO Selector valves
- T's into spool valves
- (on most tractor models)
- 1000 rpm @ 2100 engine revs tractor models and linkage sizes. The PTO 35 mm (13/8") 6 spline shaft Anti-clockwise rotation (looking as
  - the front of the tractor)
  - Maximum power transfer continuously 125 kw (173 hp)
  - Complete Mounting Kit Note: not all our linkages can be
  - retro-mounted with PTO please ask Holds 1.85 litres oil



#### STANDARD LINKAGE

The 2.1 ton standard linkage is a simple but strong unit, designed for 30 kw (41 hp) to 90 kw (124 hp) tractors. Adapted side brackets for almost all tractor models can be supplied as an optional extra.

- Single acting (double acting option)
- Standard with Cat. II quick release
- ball hooks and link arm geometry
- Short lift arms with two possible cylinder positions allows a lifting arc of



