

WELGER

Extra High Density Balers

AP 630 AP 730 AP 830





Fast Speed, Extra High Density Balers from Welger

Throughout the world WELGER is recognized as the leader in baler development. The AP 630, AP 730 and AP 830 are the top of the range extra high density models designed to bale tight and neat at high speed. They set new standards for performance for pick-up balers with conventional size baling chamber (0.36 x 0.49 m).

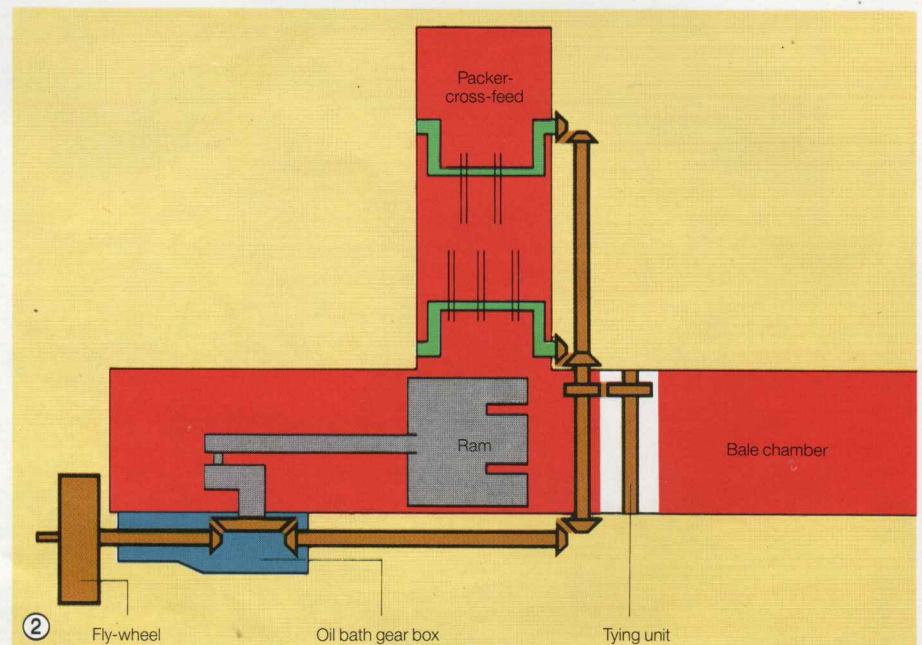
This new generation of pick-up balers is especially designed to meet the requirements of the large farm running bigger combine harvesters and also the special needs of contractors. This is achieved for example, by the very wide pick-up on the AP 830 – this is over 2 m wide – which is capable of picking up the biggest combine swath. Apart from this, today's bales must have a uniform shape and high density as this is of advantage for transportation and achieves greater tonnage per haulage vehicle ①.

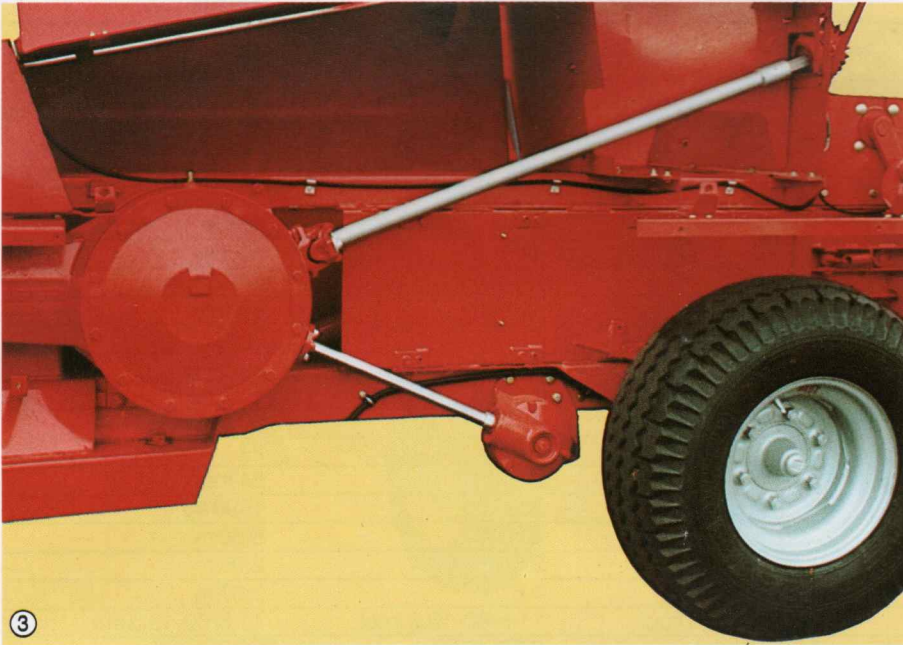
Synchronized, All-Shaft Drive ② ③ ④

For a baler to function reliably season after season, there must be absolute timing synchronization between the cross-feed, ram and knotters. Any chains used here eventually become elongated with use and thus the original settings are altered – often with devastating results. This cannot happen to a Welger baler: the

cross-feed and knotters are driven only by rigid torsional shafts and gears to ensure synchronized drive for the life of the baler.

The patented Welger hypoid gear box directly drives heavy steel shafts, one to the pick-up, one to the cross-feed and knotters. Shaft drive instead of chains and belts means not only more reliability but also minimizes maintenance. There is no need



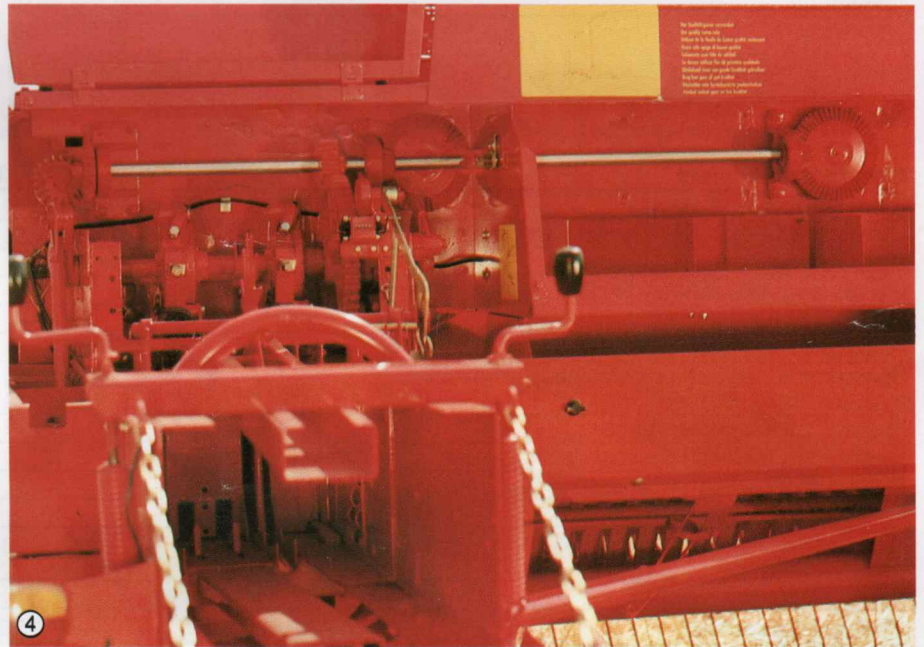


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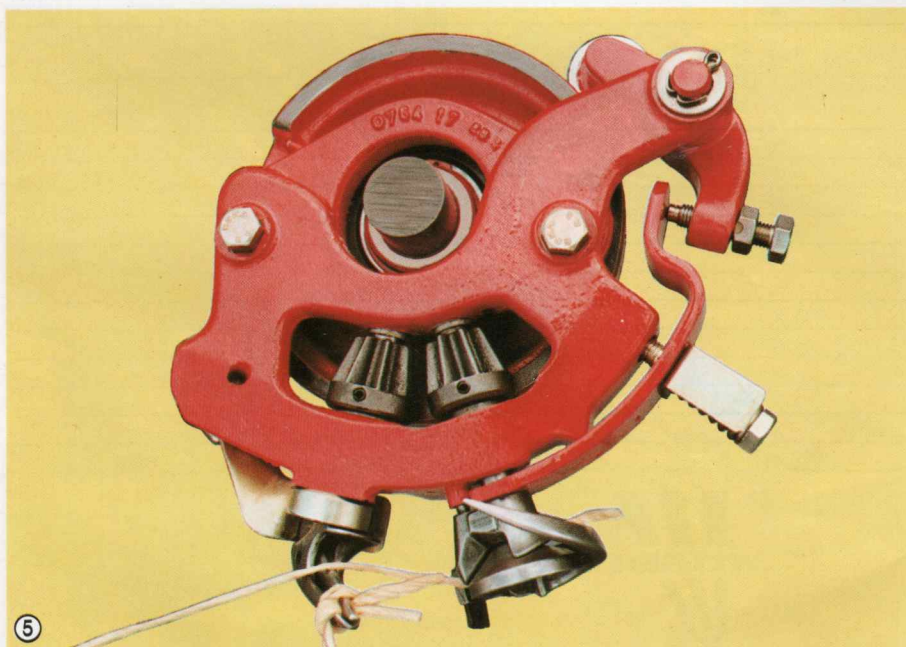
to tension chains or belts or to lubricate chains on Welger's new generation of balers.

Compact Knotters ⑤

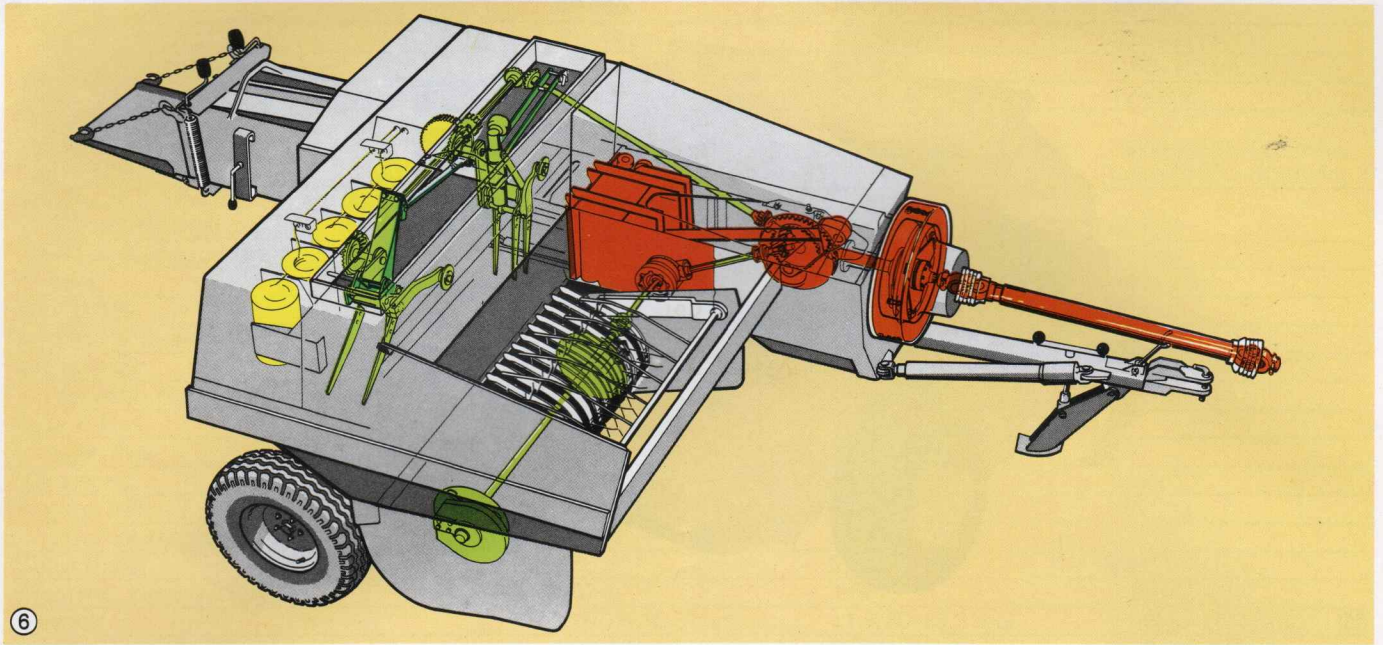
The compact knotter is a further development of the renowned, well-proven Welger knotter more than 100,000 in use. It has several remarkable technical details: for example the completely maintenance-free knotter with its sealed for life bearings makes the usual frequent lubrication in this sensitive area unnecessary. The self-cleaning twine retainer is suitable for all sisal and plastic twines. The Welger knotter's typical end position of the knotter beak to the rear allows easy slipping off of the knot. Sensitive knot-stripping devices are not required.



④



⑤



Automatic Safety Devices ⑥

The precondition for high performance and output is the same for each extra high density baler: fast, efficient operation with minimal down-time. Other balers have cross-feed shear bolts as a safety device. If over-loading occurs, the shear bolt breaks and must be replaced and the pick-up must be unblocked. Welger balers are equipped with an automatic safety device. In the case of clogging the driver stops briefly and waits until the machine has cleared itself. The driver is not required to leave the tractor, thus saving time and fatigue.

Double Clutch in the Main Drive ⑦ ⑧

The friction clutch A in the fly-wheel safeguards the PTO shaft as well as the gear box and clutch on the tractor. The clutch B safeguards the baler gears behind the fly-wheel. An additional safety bolt on the AP 630 safeguards the main drive if the obligatory maintenance has been neglected.

Hydro Packers in the Cross Feed ⑨ ⑩

Welger's technical leadership can be clearly recognized in the patented hydro packers. The hydro packer is a further development of the deflecting packer which has proved its efficiency for many years. It clears clogging in the inlet area by deflecting when overloading takes place and goes back automatically to its working position when the obstruction has been

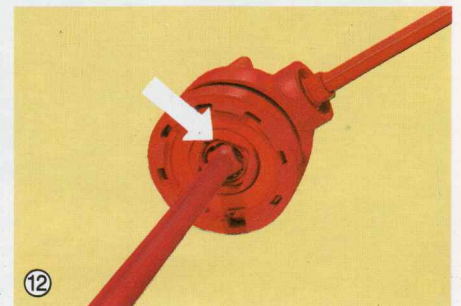
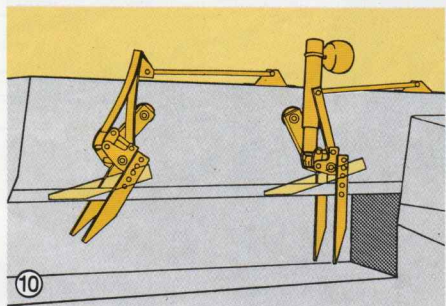
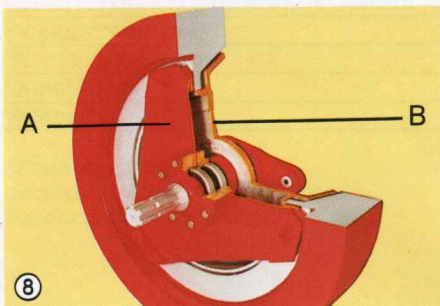
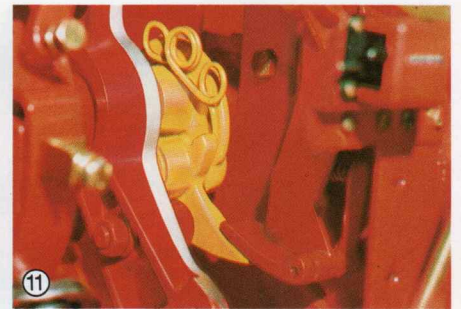
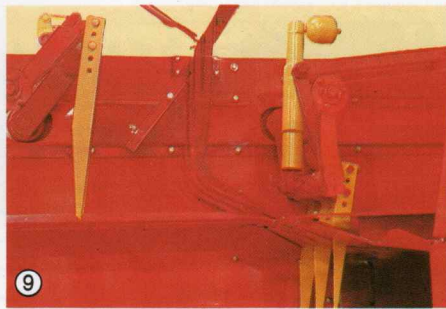
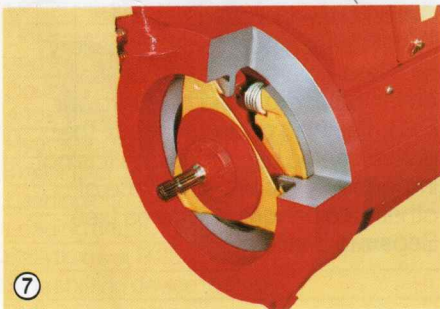
cleared by several ram strokes while the packers deflect.

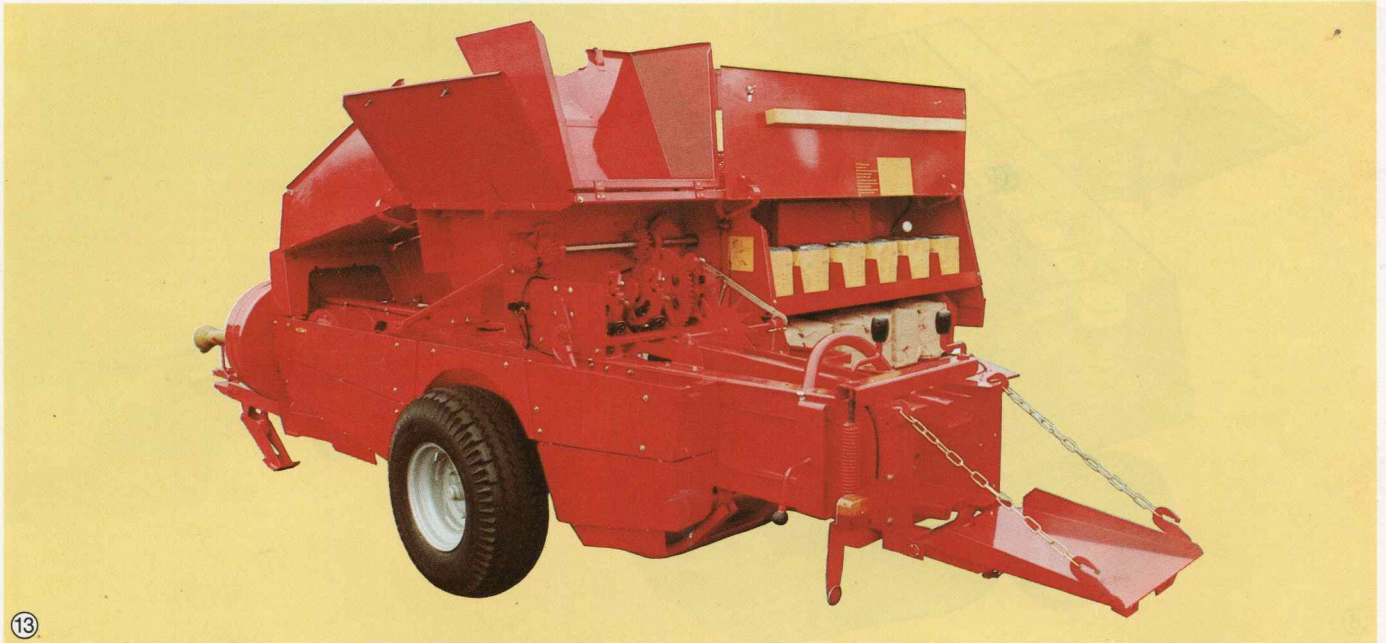
Needles Go Back Automatically to Rest Position ⑪

A knotter double clutch safeguards the synchronized timing of the needles to the ram in the normal as well as the opposite direction of rotation. This takes place automatically making complicated ram stops unnecessary.

Free Wheel in Pick-Up Drive ⑫

Free wheeling in the pick-up friction clutch makes sure that when reversing the tines can deflect over obstacles without damage.

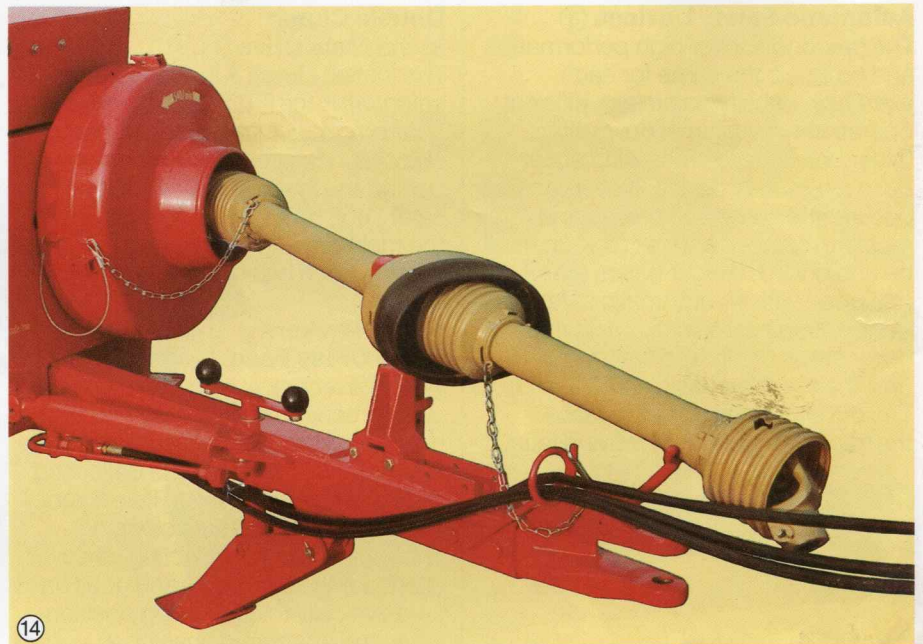




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Time-Saving Features 13

All components are easy to inspect via several hinged panels allowing easy maintenance. The big twine box carries 14 or 18 balls (AP 830), usually sufficient for one day's work. The hydraulically operated pick-up lifting device with the pick-up guide wheel makes it easy to regulate the height of the pick-up and guarantees an even drive over bumpy ground. The hydraulically operated drawbar shifting device means that the baler can easily be moved into working or transport position independent of ground conditions. An extended drawbar with drive shaft combination can be supplied as optional equipment 14.



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Bale Thrower P 23 15

An interesting additional accessory for these balers is the hydraulically driven baler mounted bale thrower P 23. The high performance of the balers can be used to full, as it is not impeded by the working pace of other bale handling systems (see Separate Leaflet).

Technical Data

	AP 630	AP 730	AP 830
Chamber size	36 x 49 cm	36 x 49 cm	36 x 49 cm
Bale length steplessly variable	0.50-1.20 m	0.50-1.20 m	0.50-1.20 m
Bale length depending on length and density	12-35 kg	12-35 kg	12-35 kg
Tying material			
Sisal twine	runnage 125-200 m/kg	runnage 125-200 m/kg	runnage 125-200 m/kg
Plastic twine	runnage 250-400 m/kg	runnage 250-400 m/kg	runnage 250-400 m/kg
Tying material consumption per 100 bales at medium bale length of 0.8 m	464 m	464 m	464 m
Twine box, holding capacity	14 rolls	14 rolls	18 rolls
Pto drive	540 r.p.m.	540 r.p.m.	540 r.p.m.
Ram strokes	90/min	90/min	90/min
Packer in cross-feed	2	2	3
Pick-up width	1.80 m	1.80 m	2.05 m
Pick-up width, outer tine spacing	1.54 m	1.54 m	1.79 m
Rows of tines	5	6	6
Tines per rows	25	25	29
Tine spacing	64 mm	64 mm	64 mm
Weight of baler	1690 kg	1890 kg	1990 kg
Length of baler set for transport	5.30 m	5.60 m	5.60 m
Width of baler	2.65 m	2.65 m	2.95 m
Height excl. loading chute	1.67 m	1.67 m	1.67 m
Tyres, left	10.0/75-15.3 Impl.	11.5/80-15.3 Impl.	11.5/80-15.3 Impl.
Tyres, right	7.00-12 Impl.	8.00-12 Impl.	8.00-12 Impl.
Track width	2.35 m	2.35 m	2.60 m

Standard Equipment

	AP 630	AP 730	AP 830
Universal drive shaft	x	-	-
Universal drive shaft with free-wheeling clutch	-	x	x
Roller ram	x	x	x
Maintenance-free compact knotter	x	x	x
Shaft drive	x	x	x
Automatic safety devices	x	x	x
Spring cushioned pick-up combined with hydraulic shock absorber	x	x	x
Hydraulic pick-up lifting device	x	x	x
Hydraulically operated drawbar shifting device	-	x	x
Pick-up guide wheel	x	x	x
Bale counter	x	x	x
Drawbar with adjustable jack, clevis hitch 30 mm Ø, if request 20 mm Ø	x	x	x
Bale guide shield	x	x	x

Optional Equipment

	AP 630	AP 730	AP 830
Universal drive shaft with two wide angle joints	x	-	-
Universal drive shaft with free-wheeling clutch	x	-	-
Universal drive shaft with two wide angle joints and free wheeling clutch	x	x	x
Double joint pto drive with free-wheeling device and extended drawbar	x	x	x
Hydraulically operated drawbar shifting device	x	-	-
Trailer hitch adjustable in length	x	x	x
Loading chute	x	x	x
Loading chute, foldable	x	x	x
Bale thrower P 23	x	x	x
Side shifting device to P 23	x	x	x
Side delivery chute	x	x	x
Delivery chute for bale loading equipment	x	x	x
Pick-up cover shield	x	x	x
Bowden cable brake	x	x	x
Oversize tyres	x	x	x
Wire tying	x	x	x

All data are approximate;
models are subject to design changes.
Illustrations partly show extras.

