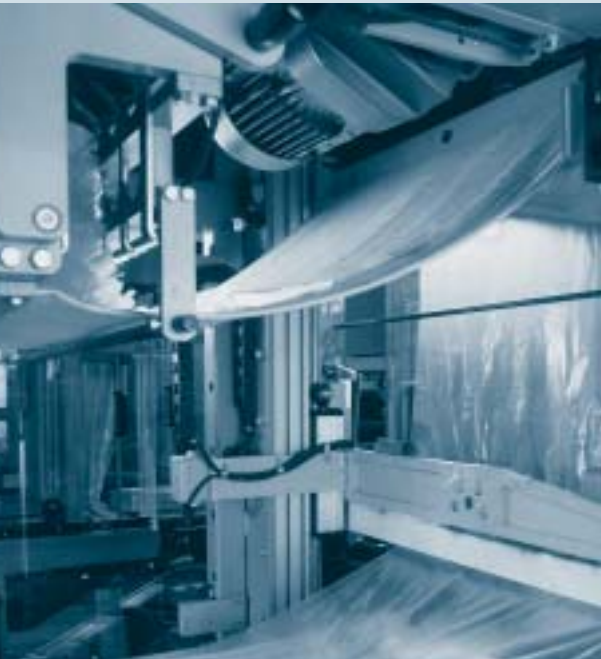


**Application solutions for the packaging industry:**  
Servo drive systems from SEW-EURODRIVE for  
**Bundle packaging machines**



## Daily newspaper dynamically packaged



We all appreciate the freshly-printed daily newspaper that we hold in our hands at breakfast every morning. Fortunately, we do not have to experience any of the time pressure involved in creating it. Beginning with the editorial work until shortly before printing, the route of the newspaper through the rotary press to packaging and shipping to the end distributor: Every production step is driven by short deadlines, high flexibility and dynamism.

### Application description

In the Weiden media house “Der Neue Tag” the downstream processes of the rotary press must be flexible, powerful and fail-safe. The individual working steps of the packaging process are subject to highest requirements in terms of dynamism and quality to prevent that the cover page of the newspaper gets damaged in transportation. No matter whether printing and, if necessary, enclosing flyers in the newspaper, bundling, packaging and shipping, all these processes must take place accurately and fault-free one after the other. This is why a state-of-the-art bundle packaging machine is used for this purpose.

### Criteria

- Maximum availability
- Variable products for packing
- Bundling
- Packaging
- Sealing

### Objective

To prevent the printed product from being damaged during transport, the stacks of newspapers in the Weiden media house are sealed in plastic using a Cyklop bundle packaging machine.

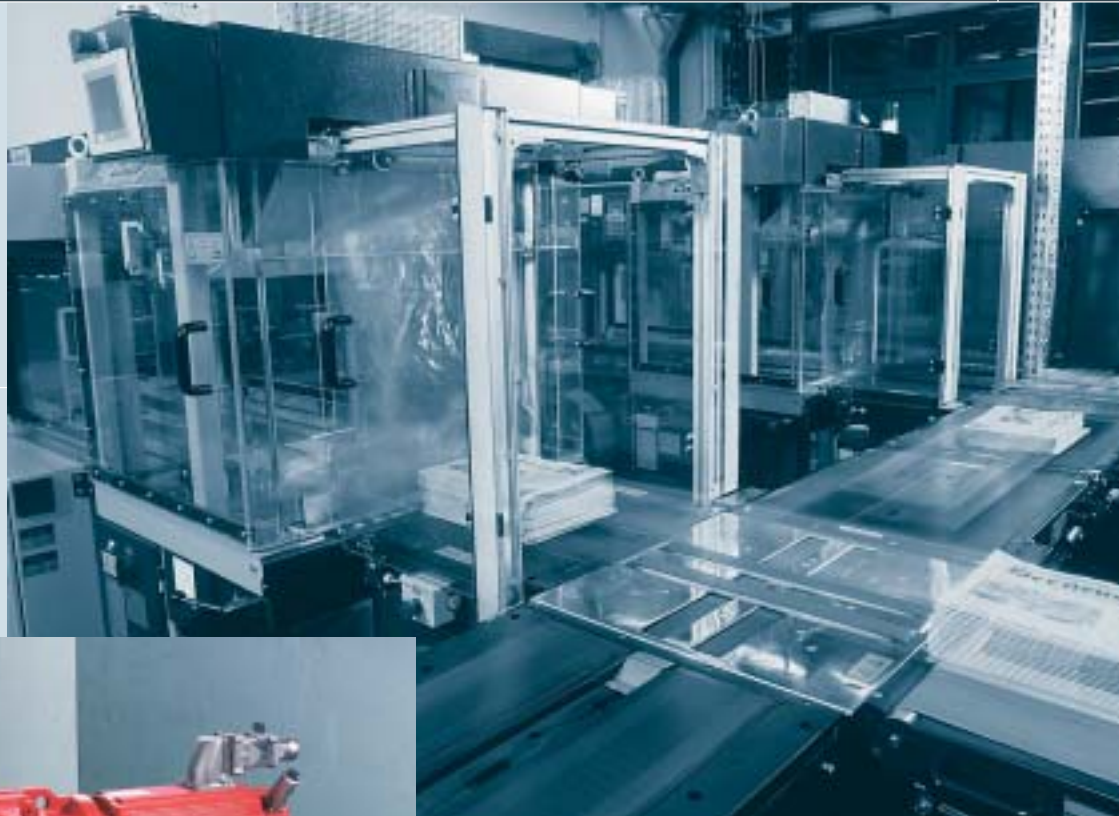
Cyklop is a company located in Cologne specializing in all types of packaging machines. Their bundle packaging machine type Delta 2000 features impressive performance data:

The counted and completed newspaper stacks are fed to the machine from the side and wrapped in plastic. A sealing bar is lowered with an acceleration of more than 2.5 g and stretches the plastic film in the process. The sealing bar sets down for a preset time and at a preset pressure (torque) to seal the plastic film.

### Technical requirements

- Synchronized transport of material
- Highly precise torque control
- Sealing bar control
- Variable pressure time
- Stretching of plastic film





With the products from the SEW-EURODRIVE servo drive system, the bundle packaging machine achieves the highest level of flexibility and reproducibility with format changes!

## SEW-EURODRIVE solution

Such a highly dynamic motion and this special drive functionality was made possible through the compact planetary gear unit servomotor type PSF31 DY71ML/B/HR in conjunction with a matching MOVIDRIVE® drive inverter type MDS60A-0015 with integrated, user programmable IPOS<sup>plus</sup>® positioning and sequence control.

Using the new application module, which saves time-consuming programming effort by simply setting parameters, this new Delta 2000 packaging machine is capable of bundling up to 60 newspaper stacks per minute. In addition to the servo drive, a decentrally synchronized standard gearmotor is used for passing on the newspaper stacks from the belt conveyor to the subsequent machines!

In addition to these custom-designed products, the startup of the bundle packaging machine was also facilitated to the extent that it can be operated easily and conveniently without special electrotechnical knowledge.

## Components for success

- Planetary gear unit servo motor type PSF31 DY71ML/B/HR with many power ratings
- MOVIDRIVE® type MDS60A-0015 drive inverter with integrated IPOS<sup>plus</sup>® positioning and sequence control, programmed according to specific requirements
- Decentrally synchronized standard gearmotor type R17 DT71D4-TF

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Argentina  
Tel. 03327 457284  
Fax 03327 457221  
sewar@sew-eurodrive.com.ar

Australia  
Tel. 03 99331000  
Fax 03 99331003  
enquires@sew-eurodrive.com.au

Austria  
Tel. 01 6175500-0  
Fax 01 6175500-30  
sew@sew-eurodrive.at

Belgium  
Tel. 010 231311  
Fax 010 231336  
info@caron-vector.be

Brazil  
Tel. 011 64899133  
Fax 011 64803328  
sew@sew.com.br

Canada  
Tel. 905 791-1553  
Fax 905 791-2999  
sew@sew.eurodrive.ca

Chile  
Tel. 02 7577000  
Fax 02 7577001  
sewsales@entelchile.net

China  
Tel. 022 25322612  
Fax 022 25322611  
sa@sew.com.cn

Colombia  
Tel. 0571 5475050  
Fax 0571 5475044  
sewcol@andinet.com.

Czech Republic  
Tel. 02 2012123436  
Fax 02 20121237  
sew@sew-eurodrive.cz

Denmark  
Tel. 043 958500  
Fax 043 958509  
sew@sew-eurodrive.dk

Finland  
Tel. 3 589300  
Fax 3 7806211  
sew@sew-eurodrive.fi

France  
Tel. 0388736700  
Fax 0388736600  
sew@usocome.com

Great Britain  
Tel. 1924893855  
Fax 1924893702  
info@sew-eurodrive.co.uk

Hong Kong  
Tel. 2-796-0477  
Fax 2-795-9129  
sew@sewhk.com

Hungary  
Tel. 01 4370658  
Fax 01 4370650  
office@sew-eurodrive.hu

India  
Tel. 0265 2831021  
Fax 0265 2831087  
sew.baroda@gecsl.com

Italy  
Tel. 02-96980-1  
Fax 02-96799781  
sewit@sew-eurodrive.it

Japan  
Tel. 05383 73811-13  
Fax 05383 73814  
sewjapan@sew-eurodrive.co.jp

Malaysia  
Tel. 07 3545707  
Fax 07 3541404  
kchtan@pd.jaring.my

Mexico  
Tel. 5 8882976  
Fax 5 8882977  
scmexico@seweurodrive.com.mx

Netherlands  
Tel. 010 4463700  
Fax 010 4155552  
info@vector.nu

New Zealand  
Tel. 09 2745627  
Fax 09 2740165  
sales@sew-eurodrive.co.nz

Norway  
Tel. 69 241020  
Fax 69 241040  
sew@sew-eurodrive.no

Peru  
Tel. 511 349-5280  
Fax 511 349-3002  
sewperu@sew-eurodrive.com.pe

Poland  
Tel. 042 6771090  
Fax 042 6771099  
sew@sew-eurodrive.pl

Portugal  
Tel. 0231 209670  
Fax 0231 203685  
infosew@sew-eurodrive.pt

Russia  
Tel. 812 5350430  
Fax 812 5352287  
sew@sew-eurodrive.ru

Singapore  
Tel. 68621701-705  
Fax 8612827  
sales@sew-eurodrive.com.sg

South Africa  
Tel. 011 2487000  
Fax 011 4942311  
ljansen@sew.co.za

South Korea  
Tel. 031 492-8051  
Fax 031 492-8056  
master@sew-korea.co.kr

Spain  
Tel. 944318470  
Fax 944318471  
sew.spain@sew-eurodrive.es

Sweden  
Tel. 036 344200  
Fax 036 344280  
info@sew-eurodrive.se

Switzerland  
Tel. 061 4171717  
Fax 061 4171700  
info@imhof-sew.ch

Thailand  
Tel. 038 454281  
Fax 038 454288  
sewthailand@sew-eurodrive.co.th

Turkey  
Tel. 216 4419163  
Fax 216 3055867  
seweurodrive@superonline.com.tr

USA  
Tel. 864 439-737  
Fax 864 439-7830  
cslyman@seweurodrive.com

Venezuela  
Tel. 241 8329804  
Fax 241 8386275  
sewventas@cantv.net

**SEW  
EURODRIVE**

SEW-EURODRIVE GmbH & Co KG  
P.O.Box 30 23 · D-76642 Bruchsal/Germany  
Phone +49 7251 75-0 · Fax +49 7251 75-1970  
sew@sew-eurodrive.com

→ [www.sew-eurodrive.com](http://www.sew-eurodrive.com)