

## Drive solutions for the agricultural industry





## Agricultural industry in motion – do more with drive technology from SEW-EURODRIVE

From their creation through to processing, agricultural products go through several stages. Specialized processes such as harvesting, storing, conveying, cleaning, drying, sorting and handling ensure that seasonal products reach the mill, malthouse or other processing plants in perfect condition. As always, nature sets the rhythm. That is why the technology used has to be ready to go at all times and designed to cope with high loads, sudden extreme stresses and demanding environments. Failures can result in rapidly spiraling costs and put product quality at risk.

Achieving sustainable success in such a tough environment requires top-class, robust and reliable components. This is precisely where SEW-EURODRIVE comes in!

Our drives are like marathon runners, built for stamina and reliability – and they've been that way for decades. As a tried-and-tested partner to the agricultural industry, we know

your applications. Whether you use screw, belt or chain conveyors, bucket elevators or rotary gate valves, SEW-EURODRIVE delivers that all-important added value for agricultural logistics throughout the entire life cycle of the system.

What's more, SEW-EURODRIVE is never far away – so make the most of our global services.

### SEW-EURODRIVE at a glance



More than 17 000 employees



16 production plants



79 Drive Technology Centers



Since 1931



50 countries



Services, products and solutions for the entire value creation system



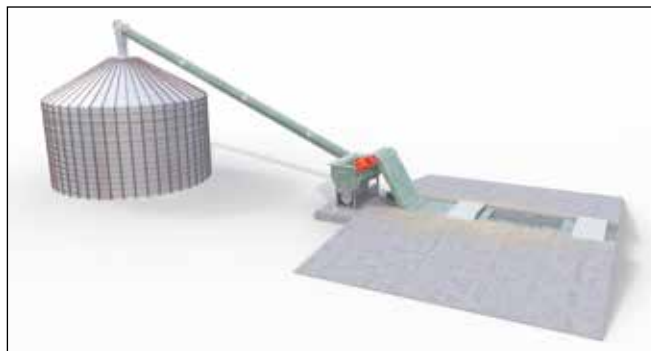
"Only celebrate the grain harvest when you've got it safe in the barn!"

*Russian saying*



## An overview of agricultural industry

Drive solutions customized for your challenges



### ① Discharging, loading and unloading

Drive packages for bucket elevators, **screw conveyors**, discharge screw conveyors, chain conveyors, tube conveyors, belt conveyors, rotary gate valves, vacuum pumps



### ② Collecting & Storing

Drive packages for **bucket elevators**, screw conveyors, chain conveyors, tube conveyors, belt conveyors



### ③ Discharging, loading and unloading

Drive packages for bucket elevators, screw conveyors, discharge screw conveyors, chain conveyors, tube conveyors, belt conveyors, rotary gate valves, **vacuum pumps**



### ④ Cleaning and sorting

Drive packages for **rotary gate valves**, separators, size sorting and screening machines (drum screen, sorting cylinder), magnetic separators, moisture separators, air-circulating precleaners, circular filters, rectangular filters, cyclones, point filters



### ⑤ Drying

Drive packages for fans, **fan motors** for continuous dryers, turnkey systems




### ⑥ Storage, port handling and final processing

Drive packages for bucket elevators, screw conveyors, chain conveyors, tube conveyors, **belt conveyors**, **crane applications**, rotary gate valves




Components and technical data

Helical gear unit

	Series	Max. output torque Nm	Gear unit ratio i
	RX (single-stage) 6 sizes	69 – 830	1.30 – 8.65
	R (two- and three-stage) 15 sizes	50 – 18 000*	3.21 – 289.74
	RM (two- and three-stage) 10 sizes	450 – 18 000	4.29 – 289.74


\*also with reduced backlash

Parallel-shaft helical gear units

	Sizes	Max. output torque Nm	Gear unit ratio i
	F series (two- and three-stage) 11 sizes	130 – 18 000*	3.77 – 281.71


\*also with reduced backlash

Helical-bevel gear units

	Sizes	Max. output torque Nm	Gear unit ratio i
	K series (three-stage) 12 sizes	200 – 50 000*	3.98 – 197.37

\*also with reduced backlash

Helical gear units / bevel-helical gear units,  
X series – bucket elevator gear units

	Gear unit design	Stages	Max. output torque Nm	Nominal torque M <sub>N2</sub> kNm
	Helical gear units X.F 23 sizes	2-, 3- and 4-stage	6.8 – 475	6.3 – 450
	Bevel-helical gear unit X3K.B.. 19 sizes	3-stage	6.8 – 270	28 – 80

Explosion protection



Versatile and compact in all  
areas – our frequency inverters:



## Safety first – reliable components for demanding ambient conditions

Explosive mixtures of dust and air can form when grain is being transported or stored. Depending on the substances involved and how fine the dust is, between 60 and 2000 grams of dust per cubic meter of air can be enough to produce a dust explosion when a suitable ignition source is present. Besides switches, these ignition sources can also include conventional electric motors. To ensure no sparks are generated that could trigger an explosion, SEW-EURODRIVE consistently uses explosion-proof drives in systems that are operated in these high-risk conditions.



Our explosion-proof gearmotors satisfy the requirements set out in EU Directive 2014/34/EU (ATEX, formerly Directive 94/9/EC). They comply with the IEC/IECEx and HazLoc-Na® standards, too, which makes it much easier to use our drive

technology worldwide. We also offer IP65/66 protection, OS1 to OS4 surface protection and surface protection as an XCO® drive package, and we satisfy energy efficiency classes IE1 – IE4.

### Explosion protection



### Surface and corrosion protection



### Energy efficiency classes



## The drive experts at your side System availability in safe hands

Agricultural logistics is characterized by periods of highly intense peak activity that can't always be planned. We ensure your system can meet these stringent requirements and that it works when you need it, whether during startup, repairs, inspection, maintenance or when retrofitting the latest technologies. And if things do go wrong, the service specialists from SEW-EURODRIVE are always on hand.

Leave nothing to chance – leave it to the service staff of SEW-EURODRIVE. Your personal contact person is there for you whenever you need them. Our services are an integral part of our portfolio and are closely intermeshed with our products to ensure you can get everything you need from one place! SEW-EURODRIVE has

been synonymous with drive and automation technology expertise for more than 87 years. If you can't afford any more breakdowns, turn to the professionalism and tailored support of our services. For reliable assistance that ensures you can depend on your production processes.



What was the project?  
A sugar mill drive at Rio  
Grande Valley Sugar Growers.



## SEW-EURODRIVE is right there for you

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## How we're driving the world



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Driving the world

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