



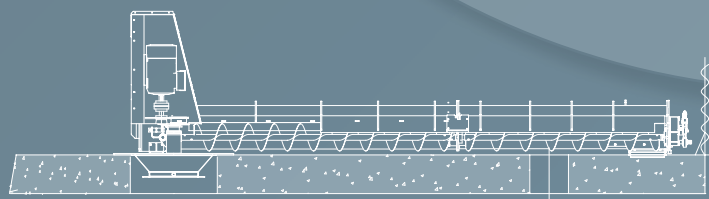
SILO UNLOADING SYSTEMS

# SPIROGYRE

## Sweep auger

2 versions

"S" TYPE ▾

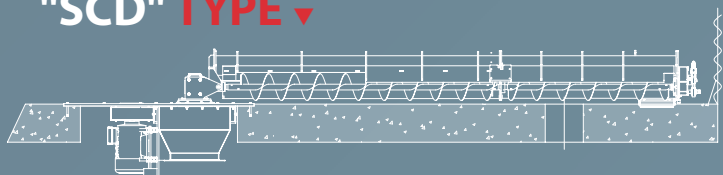


**SPIROGYRE "S":** The electric motor is inside the silo, directly coupled to a reducer driving the auger. Power is supplied by a rotary collector.

**ADVANTAGES:** Reduced space requirement, simple and reliable.

Certification II 2D 125°C

"SCD" TYPE ▾



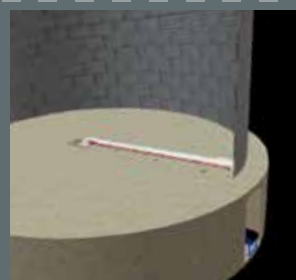
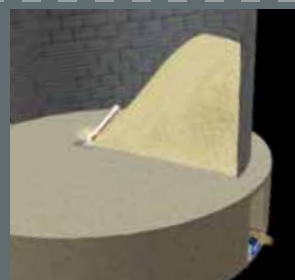
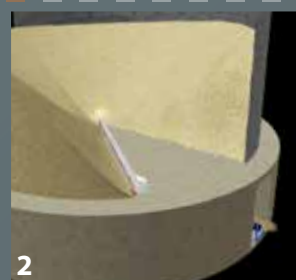
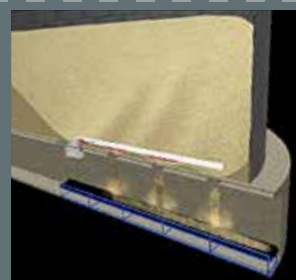
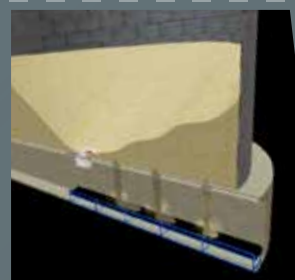
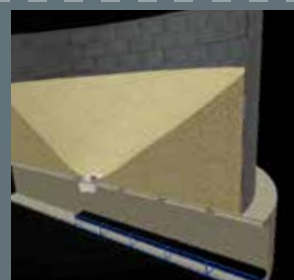
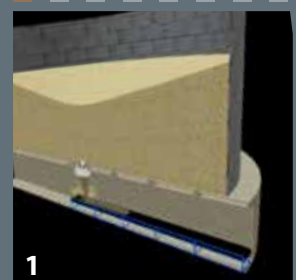
**SPIROGYRE "SCD":** The motor is moved off-centre below the silo, the transmission is ensured by a pulley-belt system under a closed casing.

**ADVANTAGES:** Can stand high gravity flow when shut-down, heavy-duty design, easy maintenance.

Certification II 1/2D 125°C

### THE COMPLETE AND EFFICIENT EMPTYING OF YOUR SILOS

Natural gravity flow



Starting and 360 degrees rotation of the sweep auger

► The MORILLON sweep-auger is designed for **flat bottom silos** and free-flowing materials (wheat, corn, barley, oil seeds, pellets...) to reclaim the remaining products once the gravity unload has been completed.

► The fully automatic design of the SPIROGYRE allows a safe and reliable reclaim all around the silo, **without any labor required.**

### SUPPORT BEAMS



They ensure perfect rigidity of the MORILLON auger and an optimum alignment over its entire length. A system of openings on the front panel controls the product flow on the auger itself.

### ADDITIONAL WHEEL OPTION

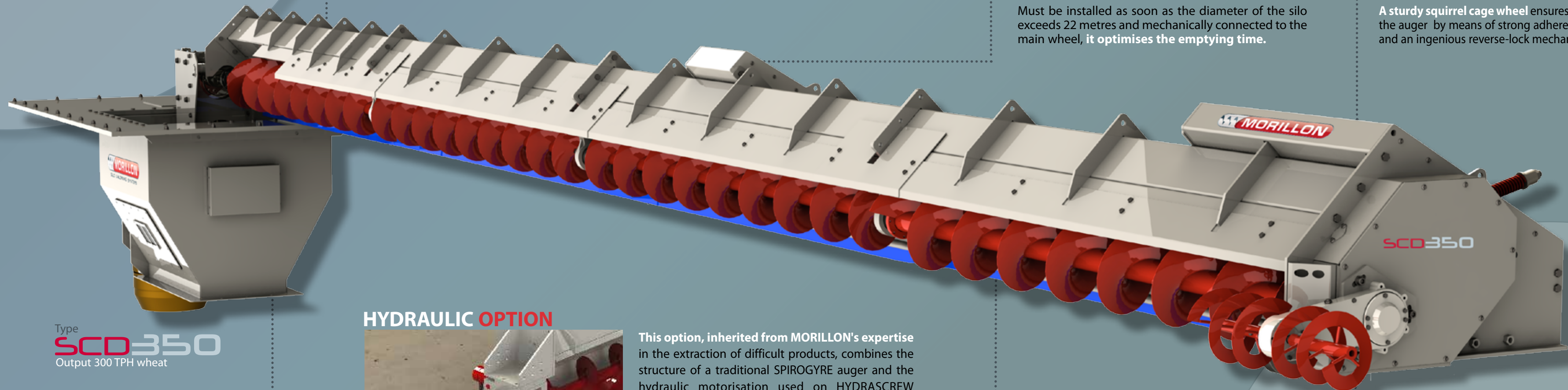


Must be installed as soon as the diameter of the silo exceeds 22 metres and mechanically connected to the main wheel, it optimises the emptying time.

### MAIN WHEEL



A sturdy squirrel cage wheel ensures a constant feed of the auger by means of strong adherence to the ground and an ingenious reverse-lock mechanism.



Type **SCD350**  
Output 300 TPH wheat

### HYDRAULIC OPTION



This option, inherited from MORILLON's expertise in the extraction of difficult products, combines the structure of a traditional SPIROGYRE auger and the hydraulic motorisation used on HYDRASCREW extractors, and is suitable for products whose slope angle can occasionally exceed 45 degrees.

**ADVANTAGES:** High torque, reduced space requirement, sturdiness.

### CLEANING BRUSH OPTION



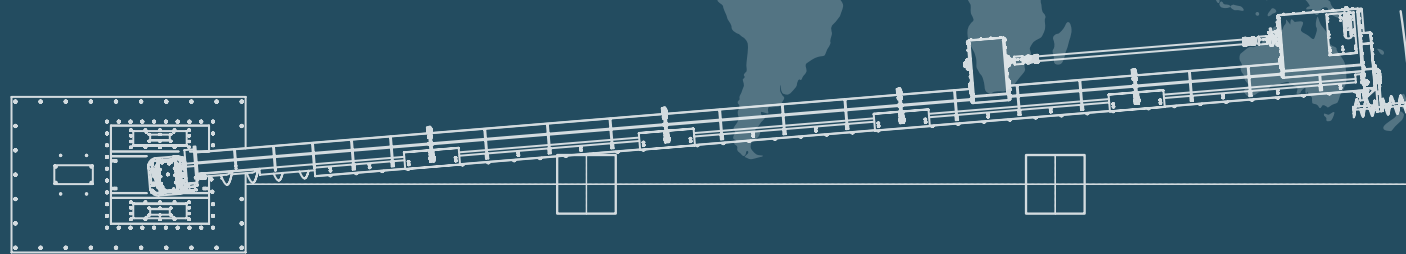
The brushes, combined with a good quality concrete floor, reduce the remaining layer of product to an insignificant quantity.

### CLEARING SCREW OPTION




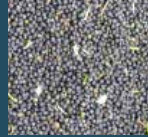





This option is designed for large silo diameters and dusty products, to clear the main wheel way from the product wastes on the periphery.





EXPERIENCE & QUALITY

## The Range

	TYPE	S140	S170	SCD170	S210	SCD210	S280	SCD280	SCD350	
	Ø MAX silo	Ø 15 m	Ø 18 m		Ø 32 m		Ø 32 m		Ø 38 m	
	Density									
	Wheat Corn	0,75	25 TPH	50 TPH	25 to 50 TPH	80 TPH	50 to 80 TPH	200 TPH	100 to 200 TPH	200 to 300 TPH
	Barley Oats Canola seeds	0,65	-	40 TPH	20 to 40 TPH	65 TPH	40 to 65 TPH	160 TPH	80 to 160 TPH	150 to 230 TPH
	Sunflower seeds	0,5	-	20 TPH	15 to 20 TPH	30 TPH	20 to 30 TPH	80 TPH	60 to 80 TPH	110 to 140 TPH
	Soy beans Peas Beans	0,75	-	-	25 to 30 TPH	-	30 to 50 TPH	-	90 to 110 TPH	175 to 220 TPH
	Rice (non-flooded)	0,55	-	25 TPH	15 to 25 TPH	35 TPH	25 to 35 TPH	80 TPH	65 to 80 TPH	130 to 160 TPH
	Paddy (flooded)	0,55	-	-	15 to 25 TPH	-	25 to 35 TPH	-	65 to 80 TPH	130 to 160 TPH
	Wood pellets	0,65	-	-	15 to 25 TPH	-	25 to 40 TPH	-	70 to 90 TPH	140 to 180 TPH

TPH : Tons Per Hour

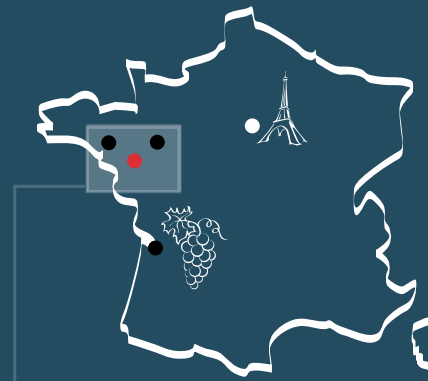
**SPIROGYRE outputs, products diameters, performance**



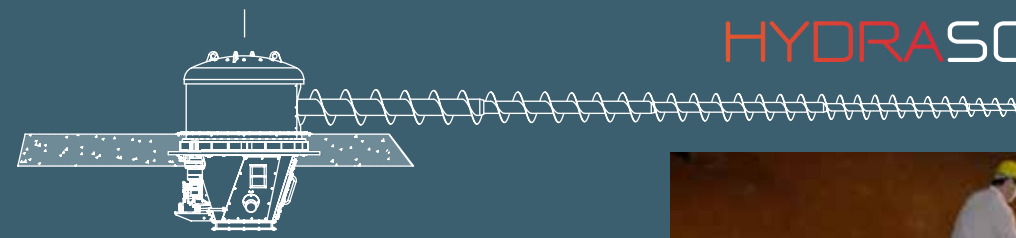
### MORILLON SAS

Founded in 1865, MORILLON is the European specialist of silo unloading systems. Our services include design, manufacture in our workshops, commissioning and maintenance worldwide.

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### Also manufacturing

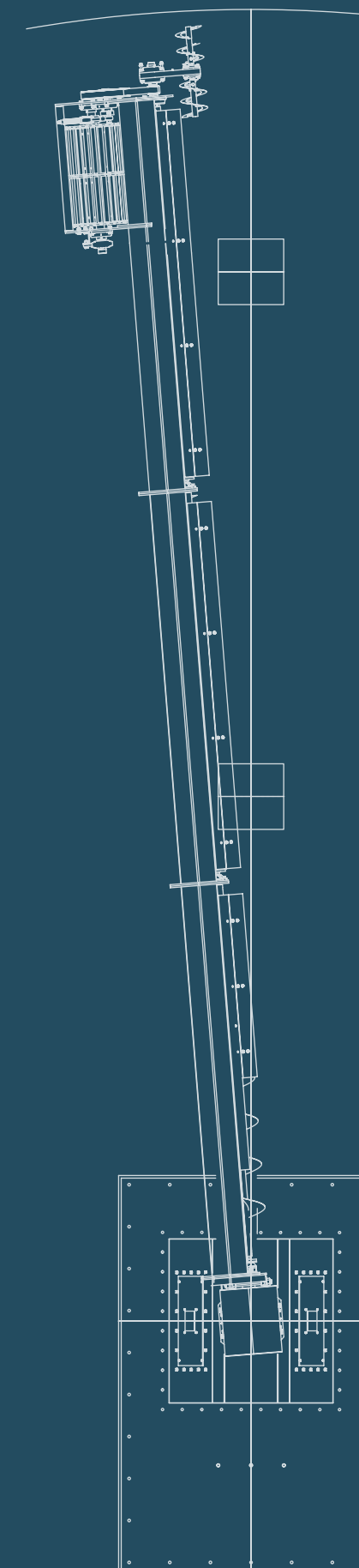
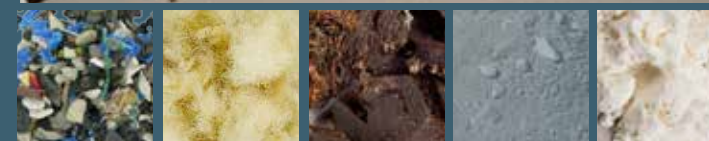


### HYDRASCREW System

For silos ranging from 2 to 25 m in diameter we also manufacture the HYDRASCREW range, specially designed for **difficult to flow materials**, heavy or light, powdery or fibrous, dry or damp.

The HYDRASCREW system operates with a fully hydraulic transmission. Reliable and sturdy, it **transmits high torques at low speed**. An electro-mechanical range is also available for silos from 2 to 7 meters in diameter.

The planetary screw ensures a "First-In - First-Out" emptying of the silos.



### SPIROGYRE System



### Silo Sweep Auger



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