

Permanent Silo Sweep Augers



**Chief
Industries
UK
Limited**

TECHNICAL DATA SHEET TDS-460

The SPIROGYRE Permanent Industrial Silo Sweep Auger system is available in two main types.

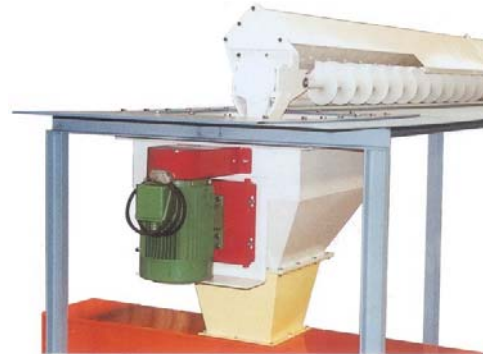
Type 'S'

Type 'S' has the motor & gear drive arrangement inside the silo mounted directly above the central pivot and outlet. A protective hood is provided for the motor along with an electrical slip ring. The Type 'S' is more suited for use with unloading augers set in a trench in the silo base, utilizing intermediate outlets with slides to clear the reducer drive wheel and initial path for the sweep auger - (Intermediate outlets and slides NOT supplied with auger - see chart below for recommendations).



Type 'SCD'

Type 'SCD' has the motor and drive arrangement mounted in a trench under the silo, with central discharge hopper and base mounting frame. The type 'SCD' is suitable for use in silo arrangement with the discharge conveyor positioned in a gallery. Dependant on diameter, intermediate outlets with slides are also recommended - (Intermediate outlets and slides NOT supplied with auger - see chart below for recommendations).



Advance of the sweep is maintained by a reducer drive wheel with rubber coated bars, eccentric arm and free wheels. This wheel is available in 2 widths - Type 'LG' supplied as standard for silos up to 12.48m Ø (No14) and the wider Type 'LD' for bigger silos up to 32.05m Ø (No34). The Type 'LD' can be supplied at additional cost for silos up to 12.48m Ø (No14).

Specification

Silo Model	Silo Diameter (metres)	Suggested no. of intd outlets	S-170 – Max 50 TPH Motor KW	S-210 – Max 100 TPH Motor KW	S-280 – Max 200 TPH Motor KW
6	5.35	1	3	4	Not available
7	6.24	1	3	4	Not available
8	7.13	1	3	4	Not available
9	8.02	1	4	5.5	Not available
10	8.91	1	4	5.5	Not available
11	9.80	1	4	5.5	Not available
12	10.70	1	4	7.5	Not available
13	11.59	2	4	7.5	Not available
14	12.48	2	5.5	7.5	Not available
15	13.37	2	5.5	9	18.5
16	14.26	2	5.5	9	18.5
17	15.15	2	5.5	11	22
18	16.04	3	7.5	11	22
20	17.83	3	7.5	11	22
22	19.61	3	Not available	11	22
24	21.39	3	Not available	15	30
27	24.06	3	Not available	15	30

Both types are supplied with heavy duty flighting mounted on heavy duty tube with intermediate hanger bearings supported by heavy duty square section beams. An apex cover is fitted with adjustable openings to regulate grain flow. All motors are supplied to Zone 21 ATEX directive 94/9/CE, IP65, Temp 125 deg C, 400V 3Ph 50Hz. (Explosive dust)
The Type 'S' slip ring is 'STEMMANN IP66' fitted in a galvanised steel casing.

NOTE:
SPIROGYRE Sweep Augers are designed for use with dry free flowing cereals. All capacities are nominal and based on dry wheat with density of 750kg/m³.
All machines are paint finish with 1 coat of primer and 1 coat of glycerol-paint - Ivory colour (RAL 1013).



Chief Industries UK Limited
Beckingham Business Park, Maldon, Essex. CM9 8LZ. ENGLAND
Tel: 00 44 (0) 1621 868944 Fax: 00 44 (0) 1621 868955
e-mail: info@chief.co.uk www.chief.co.uk

All capacities and dimensions are nominal. Due to our development policy prices and specification are subject to change without notice.

