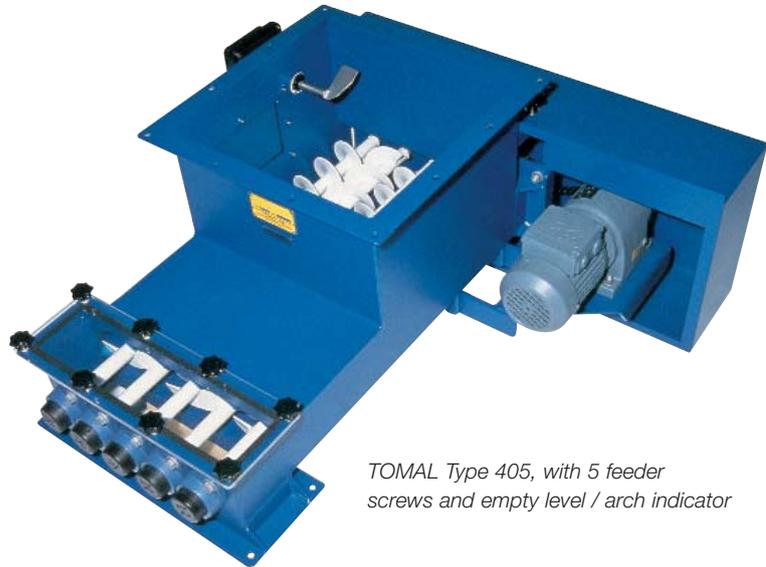


TOMAL Multiscrew Feeders

The Tomal Feeders are volumetric multiscrew feeders for safe discharge and accurate metering of solids.

With their unique construction the Tomal multiscrew Feeders are outstandingly suitable as metering devices for both granular and archforming materials.



TOMAL Type 405, with 5 feeder screws and empty level / arch indicator

Advantages

- Safe silo discharge
- High metering accuracy
- Linear discharge curve
- Self-cleaning feeder screws
- Large active contact area
- Robust and low-wear construction

The Tomal Feeders can be used in almost any continuous or batch wise process.

Typical applications are in the water treatment plants, pulp and paper industry, flue gas cleaning

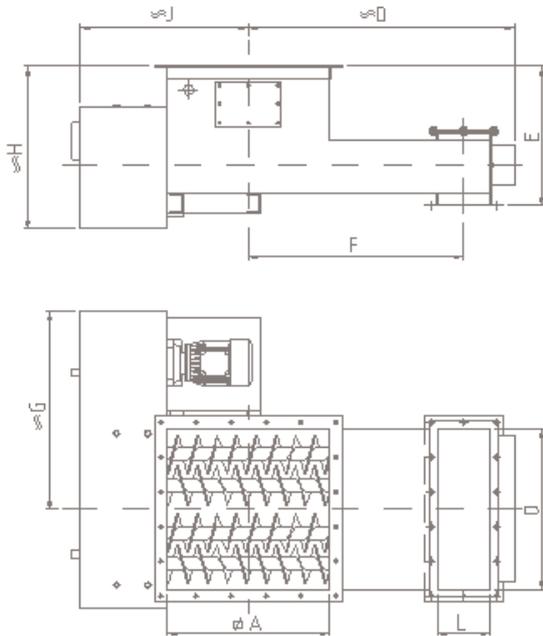
plants chemical industry, glass manufacturing, porcelain manufacturing and wherever you need safe discharge and accurate metering of solids.

The volumetric Tomal Feeders can in combination with weighing equipment successfully be used for gravimetric feeding. This is suitable when feeding materials with large variations in volumetric weight.

Example of typical materials

- Lime
- Polymer
- AVR
- Ferrous Sulphate
- Potassium Permanganate
- Urea
- Fluoride
- Bentonite
- Starch
- Sodium Hydrosulphite
- Aluminium Sulphate
- Talcum
- Soap Pellets
- Magnesium Sulphate
- Magnesium Oxide
- Dye
- CMC
- Limestone
- Sodium Bicarbonate
- Activated Carbon
- Fly Ash
- Wood Flour
- Salt
- Soya Beans
- Cinnamon
- Graphite
- Gypsum
- Cement
- Iron Oxide
- Zinc Oxide

Technical data / Dimensions



Feeder Type	182	224	302	403	405	475	624	626	627	1004	1254
A	180	220	300	400	400	700* 400	620	620	620	1000	1250
D	340	410	575	995	625	775	1030/ 1210	725	725	1485	1975
E	215	310	330	530	380	380	540	485	415	620	745
F	260	325	450	800	500	650	822/ 1000	600	600	1225	1652
G	300	370	450	660	550	550	760	660	660	980	1135
H	265	360	440	610	460	440	580	560	465	635	785
J	275	272	350	535	460	550	590	530	600	980	1075
L	60	80	100	200	100	100	200	100	100	280	350
O	120	220	180	436	400	400	620	2*230	620	1000	1250
Nos of Screws	2	4	2	3	5	5	4	2*3	7	4	4
Active contact area	1,8	4,8	5	17	16	28	38	2* 15,8	38	100	156
Max Cap m ³ /h	0,06	1	2,5	18	6	6	25	2* 4,5	10	90	220

* All measurements in mm

High metering accuracy

A number of interacting counter rotating feeder screws are able to create blocking zones between them.

This ensures extremely high accuracy and the screws become self-cleaning.

Linear discharge curve

The discharge curve is linear.

Assuming the material has constant volume weight, the accuracy will be better than $\pm 1\%$. This enables both batchwise and continuous processes to be accurately controlled.

Safe silo discharge

Tomal's multiscrew design ensures that material is discharged over the whole active area of the feeder. This prevents the material from bridging and ensures that the principle of "first in, first out" is maintained.

Optional level monitoring is available to detect arch build-ups for extremely arch forming materials. This will activate an arch breaking system.

Counter rotating feeder screws

