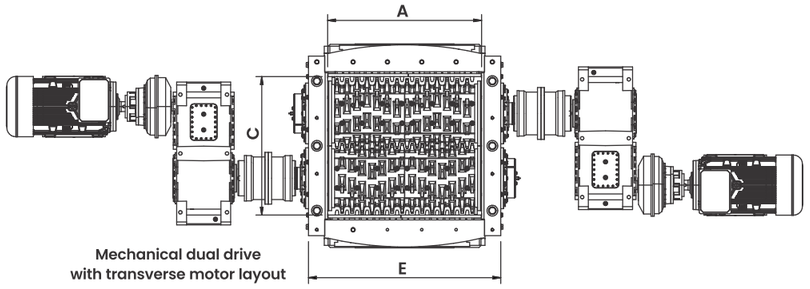
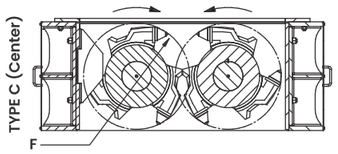
MGS Fracture© Roll Sizer

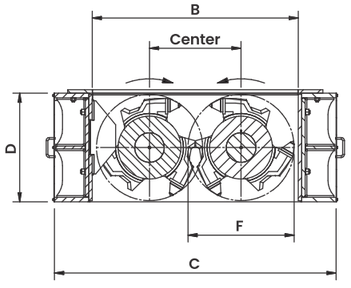
MGS Fracture Roll Sizer Technical Data									
Type	**A** approx.	**B** approx.	**C** approx.	**D** approx.	**E** approx.	**F** tip ø approx.	**Max. feed size*** CenterSizer (SideSizer) **[mm]**	**Throughput rate [t/h]**	**Total installed power [kW]**
500	1,000 1,500 2,000	1,100	1,500	600	1,660 2,100 2,600	590	480 - 650 (200)	to 1,500	55 - 220
660	1,500 2,000 3,000	1,500	2,200	900	2,300 2,900 3,900	750	650 - 850 (300)	to 2,500	160 - 500
800	1,500 2,000 3,000	1,800	2,400	1,100	2,500 3,100 4,100	920	750 - 1,050	to 3,500	200 - 630
1,000	2,000 3,000	2,100	2,600	1,300	3,200 4,200	1,050	950 - 1,300	to 5,000	250 - 700
1,250	2,000 3,000	2,800	3,600	1,600	3,700 4,700	1,450	1,200 - 1,600	to 7,500	450 - 800
1,500	3,000 4,000	3,550	4,400	2,000	3,700 4,700	1,800	1,400 - 2,000	to 10,000	750 - 1,200



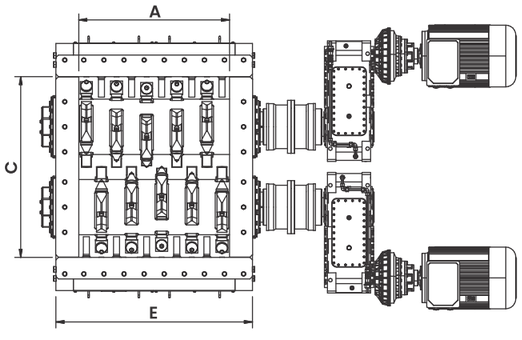
Mechanical dual drive
with transverse motor layout



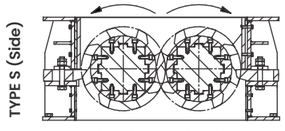
CenterSizer design for
primary crushing



CenterSizer design for
secondary crushing



Single-sided mechanical
dual drive arrangement

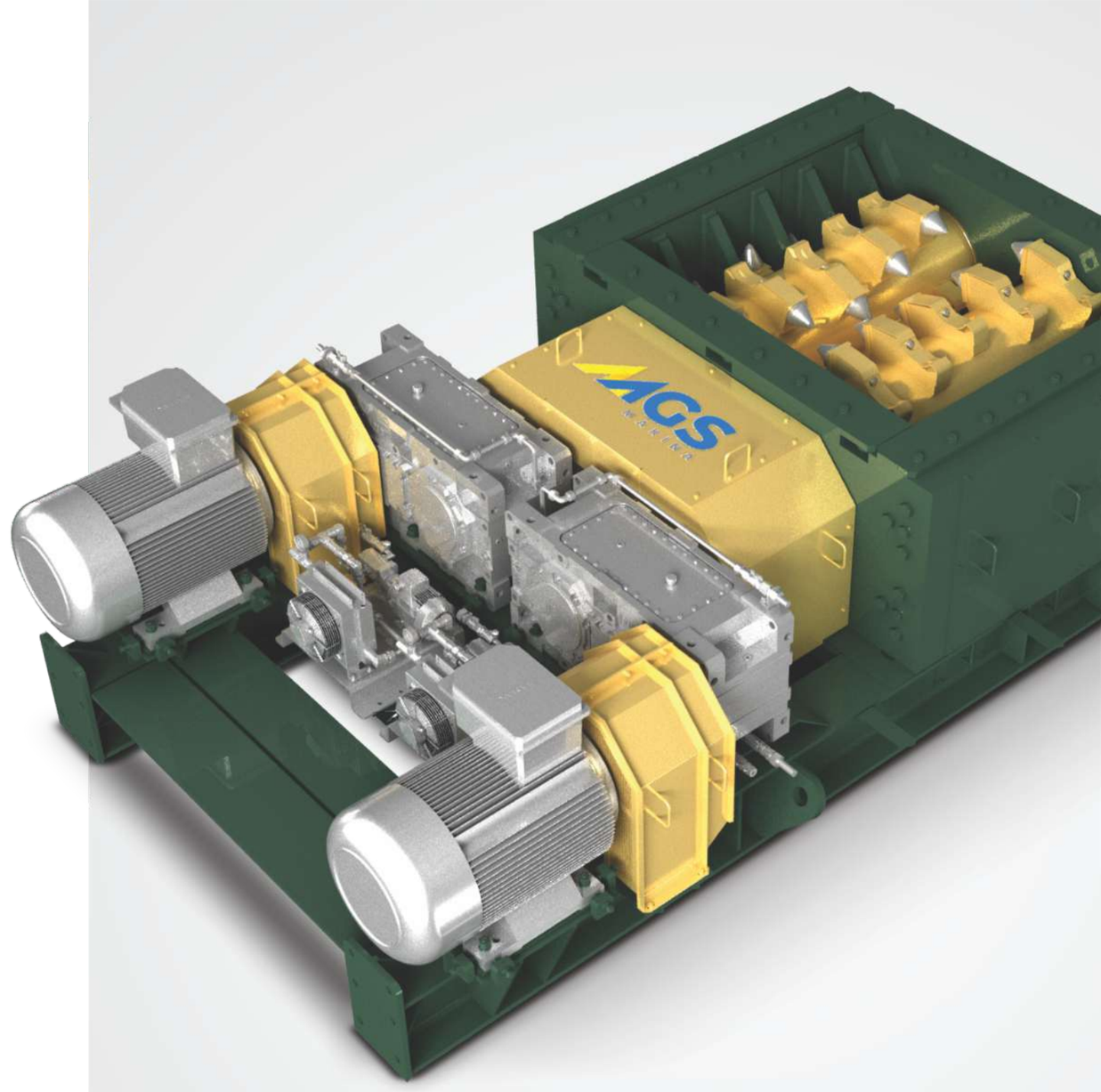


SideSizer design for
secondary/tertiary crushing

* Max. feed size depends on tooth configuration

The given data are intended as a guide for medium-hard material (fines content of 50% in the feed material) and are based on a crushing ratio of 4:1. The throughput rate and motor power depend on the feed material, feed size, granulometric composition and required product size. Subject to change!

(Throughput by way of example based on a bulk density of 1.6 t/m³)



MGS FRACTURE© ROLL SIZERS

Rolling into the Future of Mining!

MGS MACHINE

MGS INDUSTRIAL MACHINE

+90 312 514 10 04
Saray Mah. 1500 Cad. No: 6
Ankara/Türkiye

+90 537 956 05 64
info@mgsmakina.com
mgsmakina.com

Member of
ÖZDOĞU GROUP

FRACTURE

MGS FRACTURE© ROLL SIZERS: THE BEST SOLUTIONS FOR THE HARDEST JOBS

MGS Fracture Roll Sizers offer the ultimate in reliability, performance, and cost-effectiveness when it comes to size reduction. With the MGS Fracture Roll Sizers working at your plant, you can expect the optimum customized solution for even the most demanding jobs.

With its unique design, in addition to the standard models, MGS Fracture Roll Sizers also offer variants tailored to meet specific challenges.

Fields of Application and Benefits of MGS Fracture© Roll Sizers

MGS Fracture Roll Sizers are used for the crushing of medium-hard, as well as sticky and soft materials, for primary, secondary, and tertiary crushing.

Applications:

- Open Pit Coal Crushing
- Underground Coal Mines
- Limestone and Cement Industries
- Natural Stones
- Mineral Processing
- Clay-Ridden Sticky Materials

Benefits of MGS Fracture Roll Sizers:

- Compact & Flat Design
- Flexibility with Talior-Made Solutions
- Maximum Reliability
- Low Fines Content in the Crushed Product
- Reduced Dust Generation
- High Throughput
- Low Wear Due to Optimized Geometry of Crushing Tools
- Reversible Operation
- Lower Capital Cost (CapEx)
- Lower Cost of Ownership (OpEx)
- Ease of Operation
- Unique Breaker Bar Design
- Ease of Maintenance
- Fast & Easy Removal and Replacement of Crushing Components, Gearboxes and Couplings
- Condition Monitoring
- Auto Lubrication System
- Cooling System

OPERATING PRINCIPLES OF MGS FRACTURE© ROLL SIZERS

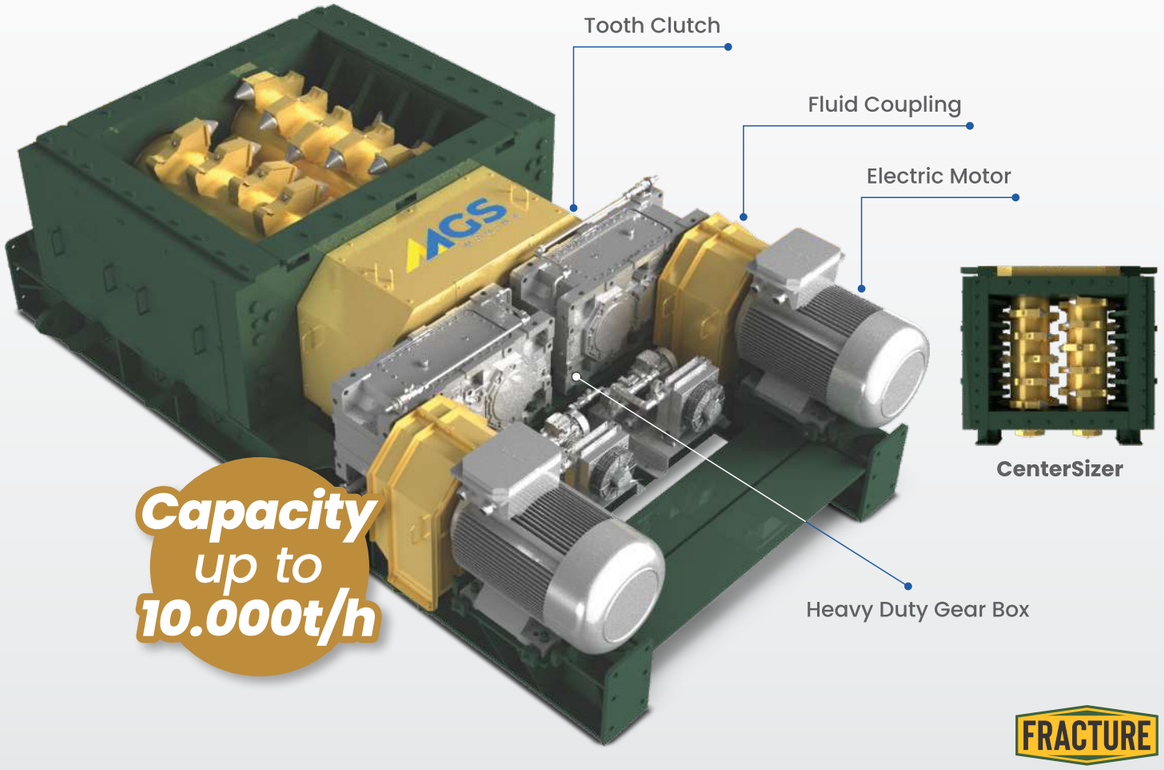
CenterSizers & SideSizers

MGS Fracture Roll Sizers offer two different crushing options to be chosen depending on the application.

The CenterSizer crushes the feed material between the crushing teeth in the middle of the crushing chamber, while the SideSizer crushes the feed material between the crushing teeth and the adjustable crushing combs arranged at its longitudinal sides.

In both types, the material is crushed by means of shear and tensile forces, as well as additional cutting forces generated by high rotor torques at low circumferential speeds.

CenterSizers and SideSizers can be used in operations for a required final particle size of up to approximately 50 mm and 30 mm, respectively. Both produce a clearly defined product size with a low oversize content.

Depending on the design and application, the crushing ratio that can be achieved with CenterSizers ranges between 3:1 and 6:1, whereas the crushing ratio with SideSizers ranges between 3:1 and 4:1.

The crushing rolls of both CenterSizers and SideSizers are driven either by a synchronization stage and one drive unit, or by two independent drive units.