

high
performance
in motion

senior
FLEXONICS

Industrial Engineering || Land Vehicles and Engines || Power Generation || HVAC

Flexible systems for DRI technology

For more than 100 years Senior Flexonics GmbH designs and develops customized flexible hose and expansion joint systems as well as bellows for steel production and mineral processing.

Direct reduction is an alternative route of iron making in which iron ore is reduced in solid state at 800 to 1,050°C either by reducing gas or coal. This process is intrinsically more energy efficient than the blast furnace and investment and operation costs are low compared to integrated steel plants.

Our reliable TUBOFLEX®-Feed-Hoses, Burner Hoses as well as Reformer Bellows made from standard austenitic steels and special alloys can handle critical media at high temperature under continuous movement. Since the eighties they are installed world-wide in DRI plants and are operating successfully.



Flexible systems for DRI technology

Benefits

- Proven design
- High life span
- Maintenance free

Performance data*

Size

Hose: NB 65 up to NB 80

Bellows: NB 300

Pressure

Hose: Up to 5 bar

Bellows: 1 bar

Temperature

Hose: Up to 800° C

Bellows: 500° C

Medium

- Feed-gas
- Mixed-gas

Materials

S/S AISI 321, S/S AISI 316 Ti, Inconel 625, Incoloy 825

Insulation

Special outside insulation upon request

*Further operational conditions and requirements upon customer's request

