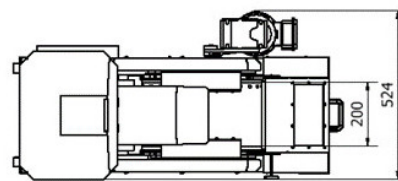
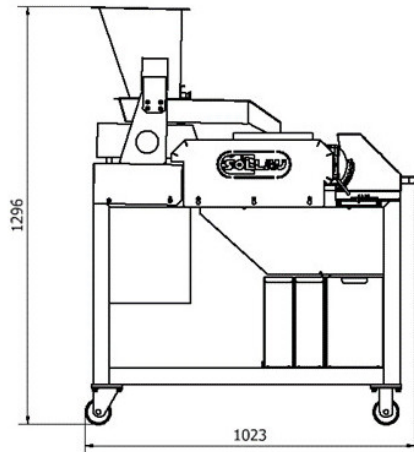


# Datasheet LSV



Parameter name	Value
Description:	Laboratory high intensity magnetic separator
Separator placement:	Feeding hopper
Application (= the material that the application of this separator is suitable for):	bulk material
Material flow direction):	vertical
Maximum effective reach of the magnetic field (mm):	10
Built-in standard magnet type:	neodymium magnet
Max. magnetic induction (G) on the surface of tube (+/- 10 %):	11000
Weight of the separator (kg):	140
Connecting dimension, inlet and outlet diameter of the separator (mm):	200
Separator is suitable also even for the materials of poor bulk properties:	yes
Minimum size of the particles that can be captured by the separator (mm):	0.03
Maximum size of the particles that can be captured by the separator (mm):	10
Max. operating temperature (°C):	60
Min. surrounding ambient temperature (°C):	-25
Max. surrounding ambient temperature (°C):	45

Separator is suitable for vacuum or pressure conveying lines:	no
Separator is suitable for materials transported by:	gravity
Max. speed at which that the separator can capture ferrous particles (m/s):	0.65
Separator is able to capture paramagnetic particles:	yes
Separator is suitable for abrasive materials (1 = strongly abrasive, 2 = slightly abrasive, 3 = non-abrasive):	1
Separator is suitable for materials that tend to solidify (the materials must be heated):	no
Separation of non-ferrous metals:	no
Standard requirements for the installation:	electricity supply corresponding with the motor parameters
Cleaning of the separator:	fully automatic cleaning, it is not necessary to interrupt the material flow during the cleaning
Material of the separator body (that is in contact with the material):	11523 steel
ATEX (on request):	zone 21, 22
Outer surface treatment of the separator:	painted (RAL colour tone)
Inner surface treatment of the separator:	painted (RAL colour tone)
Magnetic system:	magnetic roller
Motor brand:	Nord
Definition of the main motor electrical connection:	230V, AC, 50 Hz, PE-N, TN-C-S, circuit breaker 1F/6A
Available motor variants (the variant mentioned as the first is the standard one):	electric motor
Degree of motor protection (against dust and water):	IP44
Type of the separator belt:	glass teflon, kevlar, antistatic or food industry design type
Bearings:	SNR
Available lubrication methods for the bearings:	manual
Standard electrical equipment of the separator:	outer electric cable with socket plug, frequency convertor, electric switch board
Other standard parameters:	vibrating feeder (230 V, 120 W), automatic belt tensioning, neodymium magnets N52, radial poles

Other additionally paid options:	kevlar conveyor belt, glass-teflon conveyor belt, antistatic conveyor belt, conveyor belt for food applications
Max. operation time (hours/day):	24
Max. production time for a standard version (if not available in stock) (weeks):	8
Standard packing:	pallet + stretch wrap
Other packing modes (surcharged options):	maritime packing according to clients needs
Warranty (months):	12

This product can be delivered also in different dimensions, in the versions with a higher temperature resistance, different magnets etc. upon a special request. The magnetic roll (= pulley) of this separator the magnets is not covered with a protective stainless steel tube (i. e., the conveyor belt is in a direct contact with the magnetic cores). The recommended height of the material layer transported on the conveyor belt: 5mm (max. height of the material layer: up to 10 mm). This separator can sort the material into three groups: non-magnetic, paramagnetic and magnetic ones.