



Encon Conveyor Technology



- Belt Trackers
- Belt Centering Stations
- Belt Pre-Scrapers
- Belt Main Scrapers
- Scraper Blades
- Air Cannons & Spare Parts

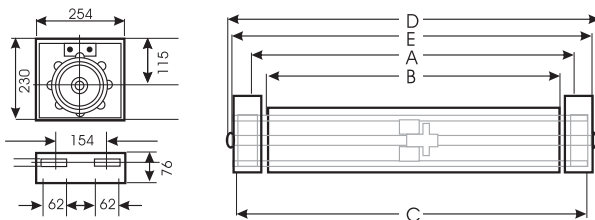
Encon's ZENTRAX fully automatic tracker rollers ensure precise conveyor belt alignment



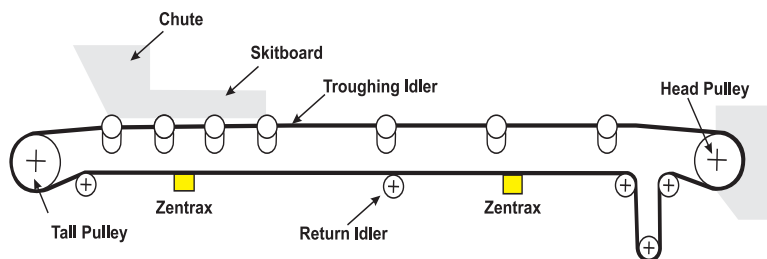
ENCON ZENTRAX

- Maintenance-free
- No wearing parts
- Durable rubber surface
- Suitable for all environmental conditions
- Compact dimensions requiring minimal space
- Quick and easy installation
- Suitable for reversing operations

Dimensions



Mounting Positions



Belt Width mm	A mm	B mm	C mm	D mm	E mm
500	750	660	810	890	850
600/650	900	810	960	1040	1000
800	1100	1010	1160	1240	1200
1000	1290	1200	1350	1430	1390
1200	1540	1450	1600	1680	1640
1400	1730	1640	1790	1870	1830
1600	1960	1870	2020	2100	2060

OPERATING PRINCIPLE

A spherical bearing with a deflection angle of $\pm 3^\circ$ or $\pm 7^\circ$ connects the roller shaft to the external drum. The bearing is centrally located, aligning directly with the conveyor belt's center of gravity. When the belt drifts laterally, its center of gravity shifts. This immediately causes the fully automatic tracking roller to pivot, generating an oscillating motion that actively steers the belt back to its optimum central position. The belt maintains stable, straight-line tracking through continuous, uniform pressure applied across its width.

INSTALLATION GUIDELINES

The ZENTRAX tracking roller should be installed at a distance equal to approximately 6 to 8 times the belt width prior to the head or tail pulley. The unit mounts easily beneath the conveyor framework using a standard four-bolt connection.

Encon's JUMBO-ZENTRAX

fully automatic tracker rollers ensure precise conveyor belt alignment.

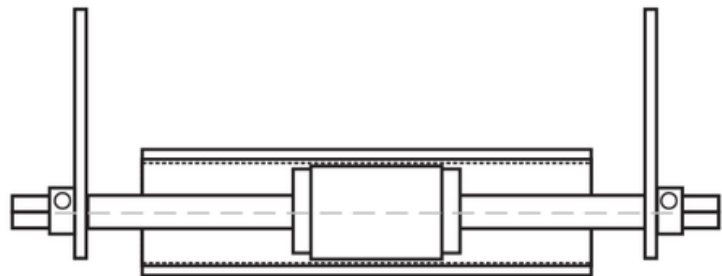


ENCON JUMBO - ZENTRAX

- Suitable for belt widths from 800 to 2000 mm and speeds up to 7 m/s
- Maintenance-free
- No wearing parts
- Durable rubber surface
- Suitable for all environmental conditions
- Quick and easy installation
- Suitable for reversing operations and ideal for retrofitting



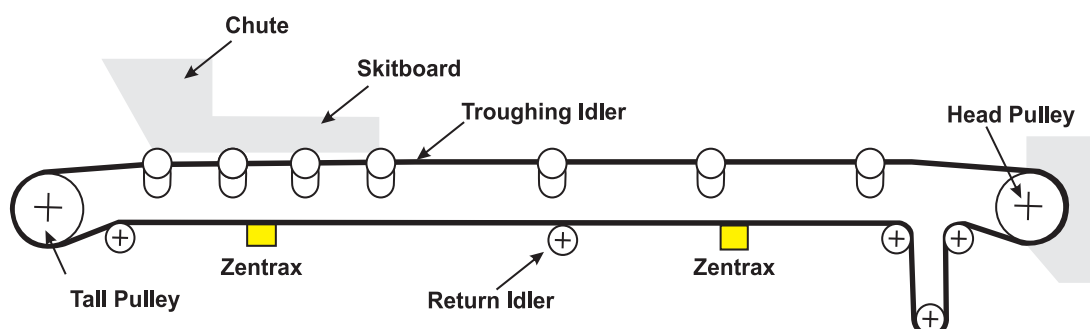
ENCON JUMBO - ZENTRAX



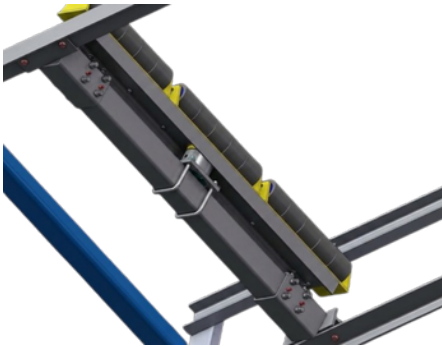
Belt Width mm	Ø D mm	Ø R mm	Ø A mm	L1 mm	L2 mm	L3 mm	L4 mm
1200	205	194	55	1315	1705	1365	1400-1520
1400	205	194	55	1515	1905	1565	1600-1720
1600	205	194	55	1715	2105	1765	1800-1920
1800	205	194	55	1915	2305	1965	2000-2120
2000	205	194	55	2115	2505	2165	2200-2320

OPERATING PRINCIPLE

A spherical bearing with a deflection angle of $\pm 7^\circ$ connects the roller shaft to the external drum. The bearing is centrally located, aligning directly with the conveyor belt's center of gravity. When the belt drifts laterally, its center of gravity shifts. This immediately causes the fully automatic tracking roller to pivot, generating an oscillating motion that actively steers the belt back to its optimum central position.



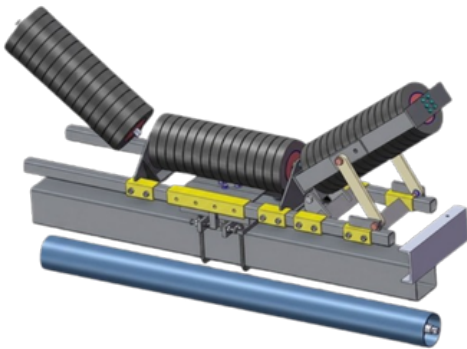
The Encon EC-3 Centering Station solves mis-tracking of heavy-duty conveyor belts



EC-3 CENTERING STATION

- Suitable for belt speeds up to 7.5 m/s
- Maintenance-free
- External center bearing block
- Telescopic end sections to fit any conveyor structure width
- Segmented rollers fitted with roller bearings and durable rubber coating
- Quick and easy installation
- Installed on the return side (non-carrying side) of the conveyor belt

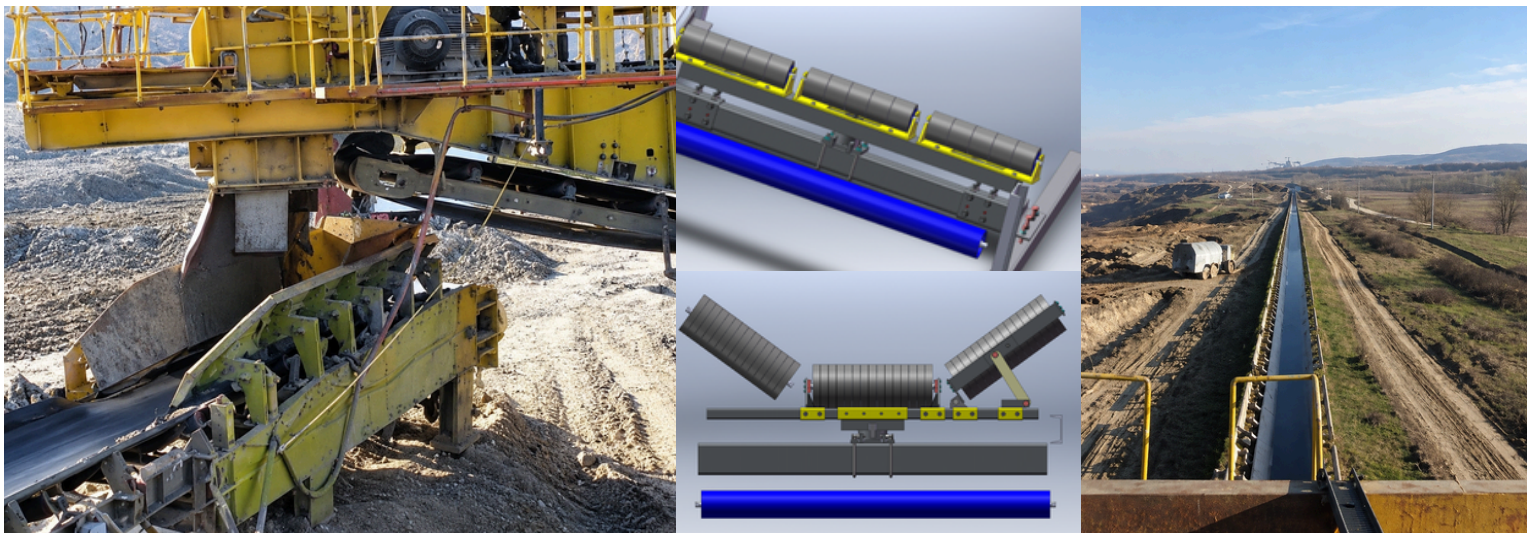
The robust construction allows for the transmission of high steering forces, ensuring safe operating conditions for heavy-duty belts with widths from 1200 mm to 2400 mm.



RHT-3 CENTERING STATION

- Suitable for belt speeds up to 7.5 m/s
- Designed for difficult operating conditions
- Quick and easy installation
- Suitable for reversing operations
- Installed on the troughed carrying side of the belt
- High-grade, maintenance-free idlers with a special coating and bearing arrangement
- Easily adaptable to the structural framework of most belt conveyors

Installed on the troughed carrying side of a conveyor belt, the ENCON RHT-3 Tracker Station System achieves precise lateral centric movement of the belt.



CONDOR TA-100 PRE-SCRAPER (up to 3.5 m/s)



CONDOR TA-100

- Excellent cleaning efficiency
- Optimum belt protection
- Prevents material loss
- Low operating costs
- Easy maintenance
- Environmental protection
- Cost-effective system and replacement parts



ENCON SYSTEMS

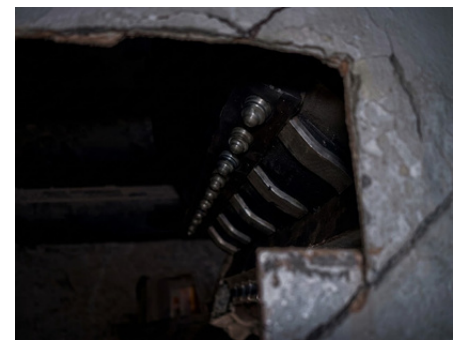


CONDOR TA-100

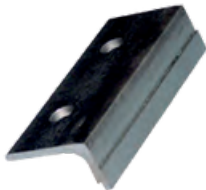
Article No.: 0500.100.10.3

The CONDOR TA-100 pre-scraper ensures high cleaning performance and a long service life for the scraper elements.

The system automatically adapts to the condition of the conveyed material. This is achieved via spring-action scraper elements embedded in rubber torsion units.



CONDOR-TA-100



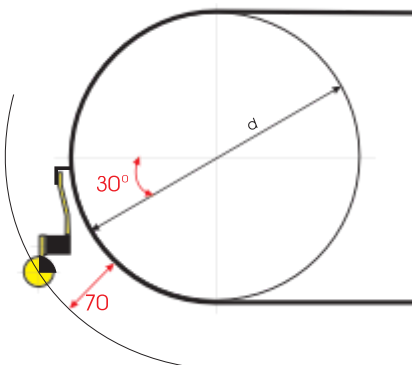
CONDOR Scraper Blade

100 x 10 x 3 mm

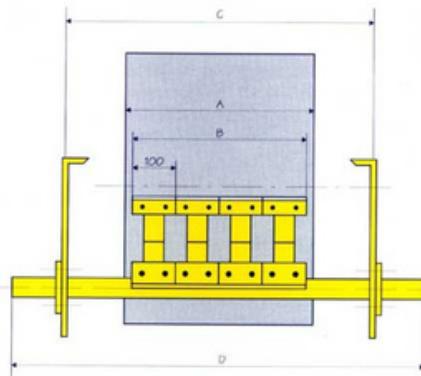
Article No.: 0501.100.10.3

- Wear-resistant scraper elements made of tungsten carbide
- Safe belt cleaning due to low contact pressure
- Eliminates up to 95% of material carryback, protecting the main scraper from excessive wear
- Suitable for various belt widths and speeds up to 3.5 m/s
- Suitable for reversing operations
- Dynamic adjustment possible while the conveyor belt is running
- Compliant with CE safety standards

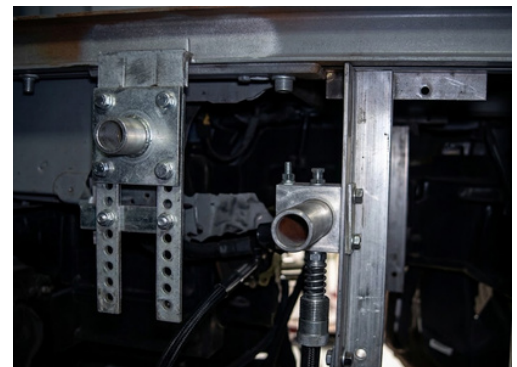
INSTALLATION ANGLE



DIMENSIONS



CONDOR TA-100



CONDOR HT PRE-SCRAPER (up to 3.5 m/s)**CONDOR HT**

- Excellent cleaning efficiency
- Optimum belt protection
- Prevents material loss
- Low operating costs
- Easy maintenance
- Environmental protection
- Cost-effective system and replacement parts

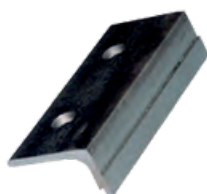
**ENCON SYSTEMS**

The CONDOR HT pre-scraper ensures high cleaning performance and a long service life for the scraper elements.

The system automatically adapts to the condition of the conveyed material via spring-action scraper elements embedded in rubber torsion units. No further adjustment is required until the blades are fully worn, making the system virtually maintenance-free.

**CONDOR HT**

Article No.: 0500.100.10.3

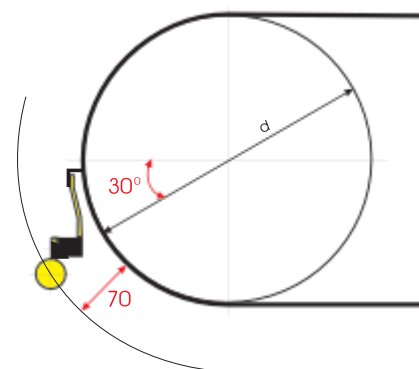
**CONDOR Scraper Blade**

100 x 10 x 3 mm

Article No.: 0501.100.10.3

- Wear-resistant scraper elements made of tungsten carbide
- Safe belt cleaning due to low contact pressure
- Eliminates up to 95% of material carryback, protecting the main scraper from excessive wear
- Suitable for various belt widths and speeds up to 3.5 m/s
- Suitable for reversing operations
- Dynamic adjustment possible while the conveyor belt is running
- Compliant with CE safety standards

Belt Width mm	Cleaning Width mm	Number of Elements	Frame mm
300	300	3	700
400	400	4	800
500	500	5	1000
600/650	600	6	1350
800	700	7	1500
1000	900	9	1800
1200	1100	11	2000
1400	1300	13	2200
1600	1500	15	2500
1800	1700	17	2700
2000	1900	19	3000

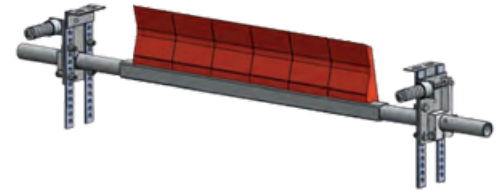
INSTALLATION ANGLE

CONDOR XL/PU PRE-SCRAPER (up to 7.5 m/s)

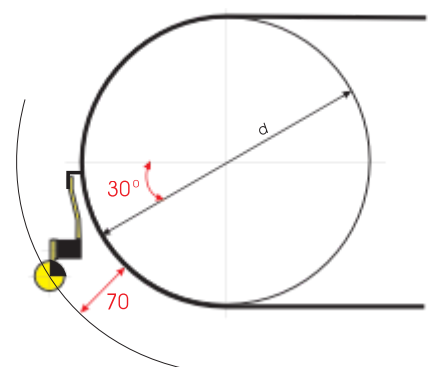
Designed for heavy-duty conditions in power plants and mining, the CONDOR XL/PU ensures the highest level of cleaning performance.

**CONDOR XL/PU**

- Excellent cleaning efficiency
- Optimum belt protection
- Prevents material loss
- Low operating costs
- Easy maintenance
- Environmental protection
- Cost-effective system and replacement parts

**ENCON SYSTEMS****CONDOR PU 200 Blade**
Article No.: 0701.200

- Wear-resistant scraper elements made of high-quality polyurethane (PU)
- Safe belt cleaning due to low contact pressure
- Eliminates up to 95% of material carryback, protecting the main scraper from excessive wear
- Suitable for various belt widths and speeds up to 7.5 m/s
- Suitable for reversing operations
- Dynamic adjustment possible while the conveyor belt is running
- Compliant with CE safety standards

**CONDOR PU 153 Blade**
Article No.: 0702.153**CONDOR XL/PU****INSTALLATION ANGLE**

The CONDOR XL/PU pre-scraper ensures high cleaning performance and a long service life for the scraper elements. Specifically designed for heavy-duty belts in power plants and coal mines, the CONDOR XL/PU delivers the highest level of cleaning efficiency. The system automatically adapts to the condition of the conveyed material via spring-action scraper elements made of high-quality polyurethane (PU).

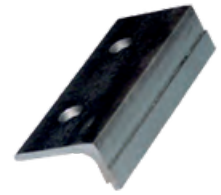
CONDOR XL/HT PRE-SCRAPER (up to 7.5 m/s)

The CONDOR XL/HT ensures the highest level of cleaning performance for heavy-duty applications.



CONDOR XL/HT

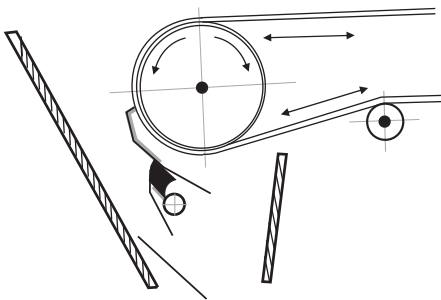
- Excellent cleaning efficiency
- Optimum belt protection
- Prevents material loss
- Low operating costs
- Easy maintenance
- Environmental protection
- Cost-effective system and replacement parts



CONDOR HT Scraper Blade

Article No.: 0501.100.10.3

INSTALLATION ANGLE



- Wear-resistant scraper elements made of high-quality tungsten carbide
- Safe belt cleaning due to low contact pressure
- Eliminates up to 95% of material carryback, protecting the main scraper from excessive wear
- Suitable for various belt widths and speeds up to 7.5 m/s
- Suitable for reversing operations
- Dynamic adjustment possible while the conveyor belt is running
- Compliant with CE safety standards



CONDOR XL/HT

Article No.: 0800.200.10.3

Belt Width mm	Cleaning Width mm	Number of Elements	Frame mm	Diameter mm
1200	1000	5	1800	89
1400	1200	6	2000	89
1600	1400	7	2200	89
1800	1600	8	2400	89
2000	1800	9	2800	89

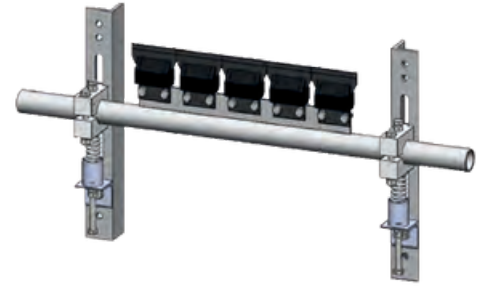
The CONDOR XL/HT pre-scraper ensures high cleaning performance and a long service life for the scraper elements. Specifically designed for heavy-duty conditions, it delivers optimal cleaning efficiency. The system automatically adapts to the condition of the conveyed material via spring-action scraper elements made of high-quality tungsten carbide.

COBRA VA-100 MAIN SCRAPER (up to 3.5 m/s)



COBRA VA-100

- Excellent cleaning efficiency
- Optimum belt protection
- Prevents material loss
- Low operating costs
- Easy maintenance
- Environmental protection
- Cost-effective system and replacement parts



ENCON SYSTEM



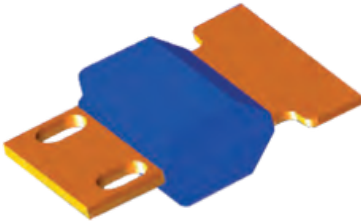
COBRA VA-100 Scraper Element

100 x 10 x 3 mm

Article No.: 0902.100.10.3

The COBRA VA-100 main scraper ensures high cleaning performance and a long service life for the scraper elements.

The system automatically adapts to the condition of the conveyed material via spring-action scraper elements embedded in rubber torsion units. It is virtually maintenance-free and suitable for even the most difficult bulk materials.



Scraper Element

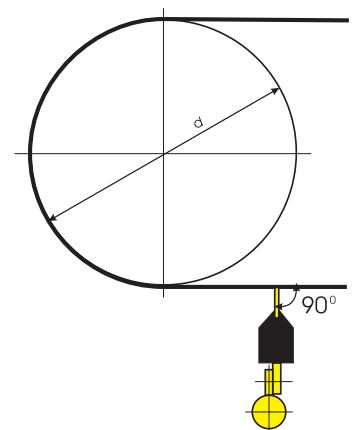
100 x 12 x 4 mm

Article No.: 0901.100.12.4

- Wear-resistant scraper elements made of tungsten carbide
- Safe belt cleaning due to low contact pressure
- Eliminates fine material carryback, ensuring optimal belt cleanliness
- Suitable for various belt widths and speeds up to 3.5 m/s
- Suitable for reversing operations
- Dynamic adjustment possible while the conveyor belt is running
- Compliant with CE safety standards

Belt Width mm	Cleaning Width mm	Number of Elements	Frame mm
300	300	3	700
400	400	4	800
500	500	5	1000
600/650	600	6	1350
800	700	7	1500
1000	900	9	1800
1200	1100	11	2000
1400	1300	13	2200
1600	1500	15	2500
1800	1700	17	2700
2000	1900	19	3000

INSTALLATION ANGLE

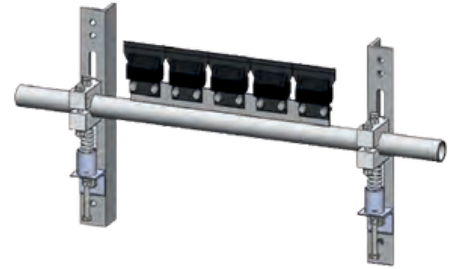


COBRA HT MAIN SCRAPER (up to 3.5 m/s)



COBRA HT

- Excellent cleaning efficiency
- Optimum belt protection
- Prevents material loss
- Low operating costs
- Easy maintenance
- Environmental protection
- Cost-effective system and replacement parts



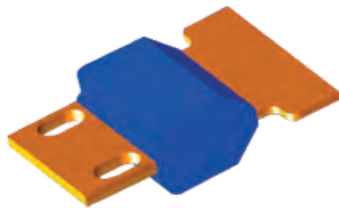
ENCON SYSTEM



COBRA HT Scraper Element

100 x 10 x 3 mm

Article No.: 0902.100.10.3



Scraper Element

100 x 12 x 4 mm

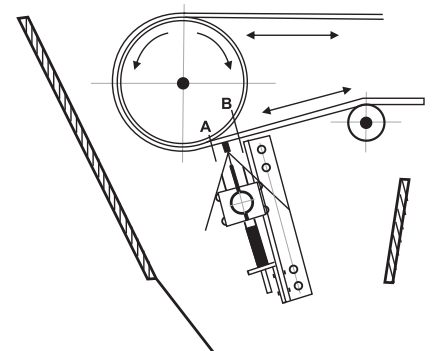
Article No.: 0901.100.12.4

The COBRA HT main scraper ensures high cleaning performance and a long service life for the scraper elements. The system automatically adapts to the condition of the conveyed material via spring-action scraper elements embedded in rubber torsion units.

- Wear-resistant scraper elements made of tungsten carbide
- Safe belt cleaning due to low contact pressure
- Eliminates fine material carryback, ensuring optimal belt cleanliness
- Suitable for various belt widths and speeds up to 3.5 m/s
- Suitable for reversing operations
- Dynamic adjustment possible while the conveyor belt is running
- Compliant with CE safety standards

Belt Width mm	Cleaning Width mm	Number of Elements	Frame mm
300	300	3	700
400	400	4	800
500	500	5	1000
600/650	600	6	1350
800	700	7	1500
1000	900	9	1800
1200	1100	11	2000
1400	1300	13	2200
1600	1500	15	2500
1800	1700	17	2700
2000	1900	19	3000

INSTALLATION ANGLE



COBRA XL/HT MAIN SCRAPER (up to 7.5 m/s)

The COBRA XL/HT ensures the highest level of cleaning performance.



COBRA XL/HT

- Excellent cleaning efficiency
- Optimum belt protection
- Prevents material loss
- Low operating costs
- Easy maintenance
- Environmental protection
- Cost-effective system and replacement parts



COBRA XL/HT Scraper Blade
(100 mm)

Article No.: 0110.100.10.3

The COBRA XL/HT main scraper ensures high cleaning performance for heavy-duty belts, specifically in power plants and coal mines.

COBRA XL/HT Scraper Element

(200 mm)

Article No.: 0110.200.10.3

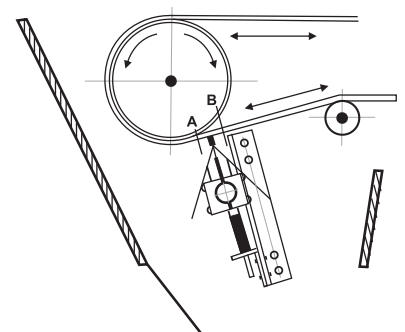
COBRA XL/HT

COBRA XL/HT



Belt Width mm	Cleaning Width mm	Number of Elements	Frame mm
800	800	4	1500
1000	1000	5	1800
1200	1200	6	2000
1400	1400	7	2200
1600	1600	8	2500
1800	1800	9	2700
2000	2000	10	3000

INSTALLATION ANGLE

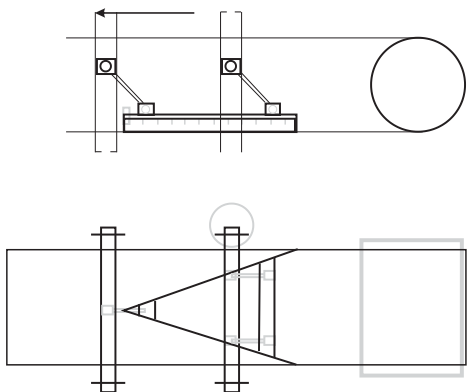


INTERNAL V-PLOW



- Wear-resistant polyurethane scraper blades
- Safe and effective cleaning of the inner belt surface
- Suitable for all types of bulk materials
- Quick and easy installation
- Virtually maintenance-free
- Compliant with CE safety standards

INSTALLATION DIAGRAM



The ENCON internal V-plow ensures high cleaning efficiency on the inner side of the conveyor belt. It provides optimum protection for tail pulleys, return idlers, and the entire conveyor system against material build-up and contamination.

ENCON V-Plow Blade

Article No.: 01200.XXXX



INTERNAL V-PLOW



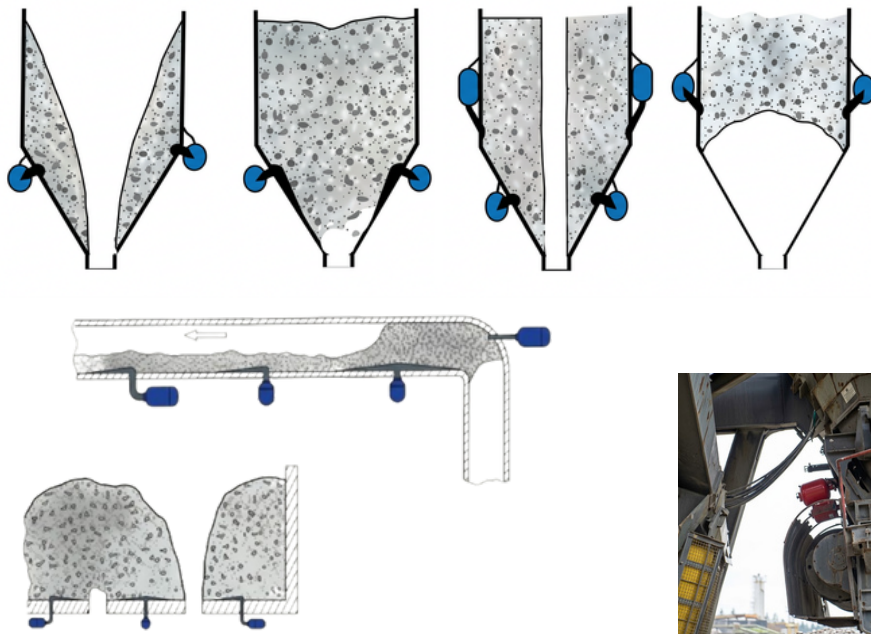
Belt Width	Scraper Article No.	Blade Article No.
400	0500.000.400	01200.400
500	0500.000.500	01200.500
600	0500.000.600	01200.600
800	0500.000.800	01200.800
1000	0500.000.1000	01200.1000
1200	0500.000.1200	01200.1200
1400	0500.000.1400	01200.1400
1600	0500.000.1600	01200.1600
1800	0500.000.1800	01200.1800
2000	0500.000.2000	01200.2000
2200	0500.000.2200	01200.2200
2400	0500.000.2400	01200.2400

AIR CANNON

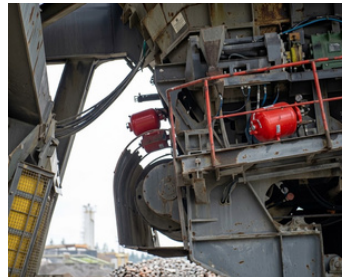


Problems such as adhesion, bridge formation (arching), chimney formation (rat-holing), and dome formation often arise due to external influences like temperature and moisture when transporting and storing bulk goods. These material flow issues create high safety risks for personnel and lead to costly, unscheduled downtime.

Problem:



ENCON AIR CANNONS



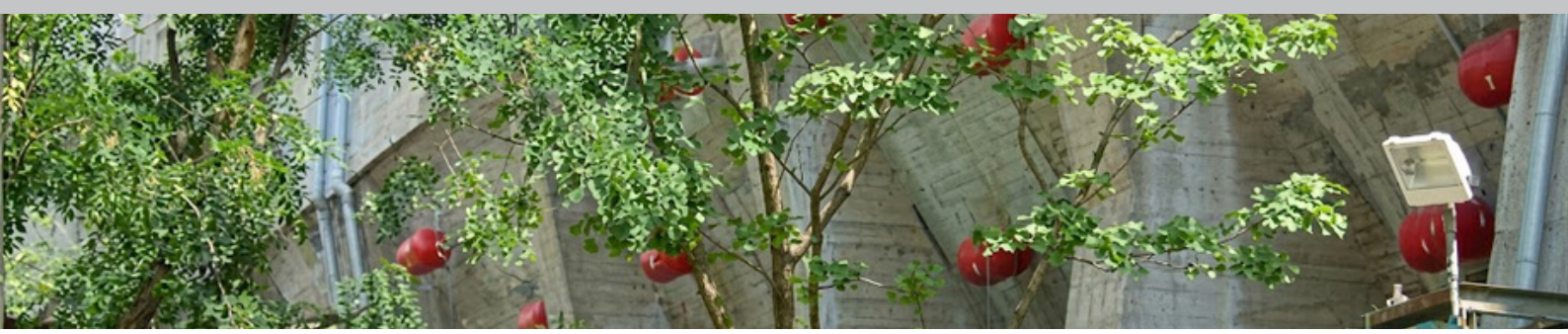
Solution:

ENCON Air Cannons are used throughout the world to solve these problems, regardless of the type of bulk material. They ensure a controlled and continuous material flow in bunkers, hoppers, and silos containing:

- Coal and ash
- Cement and sand
- Ores and quartz
- Chipped wood
- Agricultural products (soybeans, flour)
- ...and many other difficult-to-handle bulk materials.



AIR CANNON



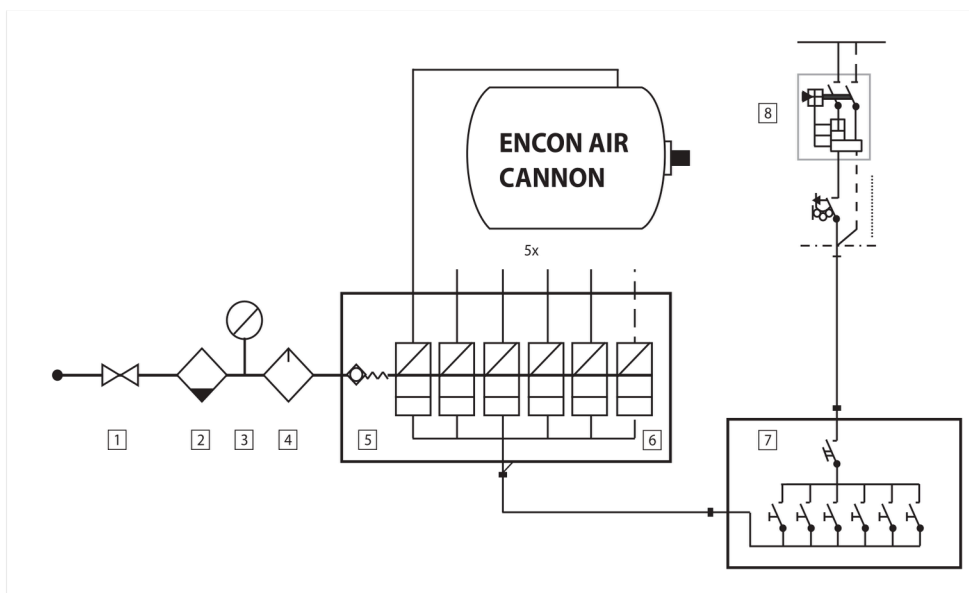
ENCON AIR CANNONS are low-maintenance, reliable, and designed for a long service life. They are characterized by high power, as well as fast loading and discharging times.

Pressure build-up:

Compressed air of up to 6 bar is fed via a 3/2-way solenoid valve and a compressed air hose to a quick exhaust valve directly mounted on the air cannon. The piston and the pressure tank of the air cannon are filled with compressed air. The air cannon is ready for use after pressure equalization.

Pressure discharge:

Activation of the 3/2-way solenoid valve interrupts the air supply, and the compressed air hose is vented. The quick exhaust valve is activated, venting the working piston in milliseconds. The piston instantly retracts due to the pressure differential. The compressed air in the tank rapidly flows through the discharge pipe into the bunker interior, effectively activating the material flow. After the tank chamber is evacuated, a return spring pushes the piston back to the closed (loading) position. This prevents dust particles and dirt from infiltrating the air cannon. The system can be operated manually via a push-button control cabinet or fully automatically using a timer.



Model / Type	Released Air Volume (m³)	Shock Wave Force (kN)
EN25	0.15	11.28
EN50	0.30	22.56
EN100	0.60	39.83
EN120	0.72	47.77
EN150	0.90	59.84
EN300	1.80	69.65

AIR CANNON

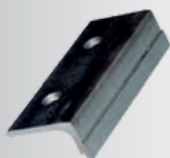


CONVEYOR TECHNOLOGY – SPARE PARTS



Extremely wear-resistant blade, torsional rubber, 100 mm
Tungsten-carbide, dimensions: 100 x 10 x 3 mm
Complete segment for drum scrapers

Article No.: 0500.100.10.3



Tungsten-carbide blade
Dimensions: 100 x 10 x 3 mm
For drum scrapers

Article No.: 0501.100.10.3



Polyurethane blade
Cleaning width: 200 mm
For drum scrapers

Article No.: 0701.200



Polyurethane blade
Cleaning width: 153 mm
For drum scrapers

Article No.: 0702.153



Extremely wear-resistant blade, torsional rubber, 200 mm
Tungsten-carbide, dimensions: 200 x 10 x 3 mm
Cleaning width B=200 mm
Complete segment for drum scrapers

Article No.: 0800.200.10.3



Profiled polyurethane blade
XXXX = Belt width

Article No.: 0509.109.XXXX



Polyurethane scraper strip
XXXX = Belt width

Article No.: 0510.108.XXXX

CONVEYOR TECHNOLOGY – SPARE PARTS



Extremely wear-resistant blade, torsional rubber, 100 mm
Tungsten-carbide, dimensions: 100 x 10 x 3 mm
Complete segment for main scrapers

Article No.: 0902.100.10.3



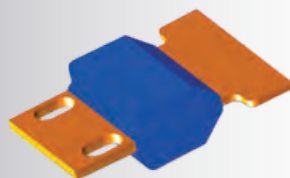
Extremely wear-resistant blade, torsional rubber, 200 mm
Tungsten-carbide, dimensions: 200 x 10 x 3 mm
Cleaning width: 200 mm
Complete segment for main scrapers

Article No.: 0110.200.10.3



Tungsten-carbide blade
Dimensions: 100 x 10 x 3 mm
Blade for main scrapers

Article No.: 0110.100.10.3



Extremely wear-resistant blade, torsional rubber, 100 mm
Tungsten-carbide, dimensions: 100 x 12 x 4 mm
Complete segment for main scrapers

Article No.: 0901.100.12.4



Extremely wear-resistant blade with tungsten-carbide
Dimensions: 125 x 12 x 4 mm
Blade for main scrapers

Article No.: 0130.125.4



Torsion rubber segment
Cleaning width B = 100 mm
For drum scrapers

Article No.: 0502.100.3



Torsion rubber segment
Cleaning width B = 200 mm
For drum scrapers

Article No.: 0800.200.3



Torsion rubber segment
Cleaning width B = 200 mm
For main scrapers

Article No.: 0110.200.3