



GENERAL CATALOGUE

Serve Your Future With Foresight

Our Principle

ENDO KOGYO supplies our products with customer satisfaction in pursuit of being successful company which provides user-friendly and eco-friendly machinery.

Our persevere development and innovation will predict a change of the world and keep us at the cutting edge of Industry-wide trend cooperating with all our business partners.



Material handling equipment

P02-P03 Spring balancer
P04-P05 Air hoist
P12 Air balancer
P12 Self lock

Environmental machine

P08-P09 Uniaxial crusher /
Biaxial crusher

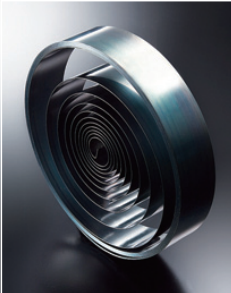
Power Supply equipment

P06-P07 Cable reel
P13 Hose reel
P13 Slip ring

Industrial machine

P10-P11 Circular sawing machine

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GENERAL CATALOGUE



ASSEMBLY FACTORY

AIR TOOL BALANCER

Air Tool Balancers contribute to reduce workers' burden of handling tools in assembly factories.



AUTOMOTIVE FACTORY

SPRING BALANCER

Spring Balancers are utilized to decrease workers' fatigue for handling heavy welding guns.

SPRING BALANCER





AUTOMOTIVE ASSEMBLY LINE

SPRING BALANCER

The wide range of applications is provided for suspending Nut Runners, Welding Guns, Cables for Factory Robots, etc.

Product guidance

Energy-less Equipment with ZENMAI (spring)

SPRING BALANCER is designed with the balancing mechanism. Tapered Drum provides the steady spring torque movement and enable to lift up / down by hand without difficulty. Workers can handle Electric tools, Air tools, Welding guns, etc. with minimal power, and it contributes to more efficient work and reduction of workers' fatigue.

SPRING BALANCER

Standard type EWF / EWS / EW series

Multipurpose type for various work places:

- ▶ Lifting Tools and Materials
- ▶ Cable lifting for Factory robots
- ▶ Balancing for any equipment



Light Capacity type EK/ERP series

For lifting light tools:

- ▶ Lifting Electric screwdriver, etc.



AIR TOOL BALANCERS

Both hose reeling and balancing function are provided to organize air tools and hoses.

Air Tool Balancer ATB series



Air tool Reel ATR series



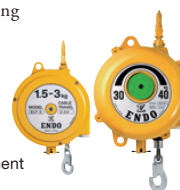
Tool Hose Balancer THB series



Long Stroke type ELF series

For attachment on high-ceiling area:

- ▶ Lifting Tools and Materials
- ▶ Cable lifting for Factory robots
- ▶ Balancing for any equipment



Heavy Capacity type ETP series

For lifting heavy tools or equipments:

- ▶ Lifting Nut runners
- ▶ Auxiliary power for Large size doors



TORQUE REEL

Long stroke and Ratchet gear system allow suspending any tools or equipments.

Torque Reel ER series





SHIPPING OPERATION

AIR HOIST EHL-025TS

Air hoist is applied to lifting heavy load in shipping operation.



CNC MACHINING CENTERS

AIR HOIST EHL-025TS

Air hoist lifts heavy materials and carries to the position where you want.

AIR HOIST





MULTILEVEL WAREHOUSE

AIR HOIST

Air hoist gives easy transfer of the stocks carried out from the multilevel warehouse.

Product guidance

NEED FOR QUICK TASK

AIR HOIST has simple mechanism using compressed air. With its advantages, high-speed lifting and anti-electrical operation, AIR HOIST is well applied to Chemical plants, Paint shop, etc. for an anti-explosion purpose.

CHAIN TYPE

AT / ATC series

- ▶ 60kg type
- ▶ 125kg type



EHL series

- ▶ 250kg type
- ▶ 500kg type
- ▶ 1T / 2T / 3T / 6T type
- ▶ Pull rope / Pendant switch operation



ACCESSORY

OVER LOAD PROTECTOR

*for EHL series



EMERGENCY STOP BUTTON



WIRE TYPE

EHW series

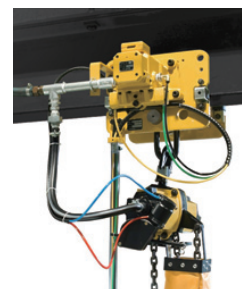
- ▶ 60kg type
- ▶ 120kg type



AIR MOTOR TROLLEY

MTH series

- ▶ 1T type
- ▶ 2T type
- ▶ 6.3T type





GIGANTIC CRANE

CABLE REEL Torque motor type

Cable reel is applied to power supply for cranes.

CABLE REEL





STAGE LIGHTING

CABLE REEL Spring type

Cable reel is used for lighting maintenance.

Product guidance

STABLE POWER SUPPLY

For any movable equipments and machinery, CABLE REEL provides winding a wide range of cable. We approach various applications for winding cables like cranes, carriage trolleys, etc. We can also supply with lots of winding power source, Spring, Torque motor, Inverter-driven motor, Servomotor, hydraulic motor, etc., meeting to the your request.

SPRING TYPE

Small type CRF series

For Inside equipments:

- ▶ Trolleys
- ▶ Auto warehouse, etc.



Standard type CRL series

For a wide range of purpose:

- ▶ Trolleys
- ▶ Electric hoists
- ▶ Lighting systems, etc.



Large type CRE series

For large-scale equipments.

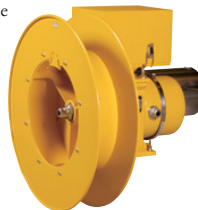
- ▶ Gantry crane, etc.



MOTOR TYPE

Torque motor type

Cable winding with Torque motor gives an advantage for long retrieving, high frequent use and high-speed winding.



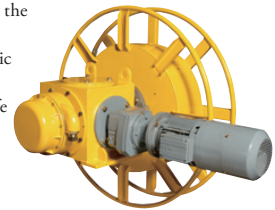
Servomotor type

Servomotor system gives more efficient electric consumption and longer cable life than Inverter system.



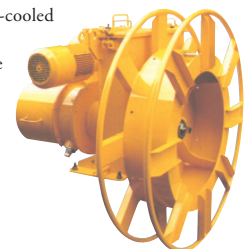
Inverter-driven motor type

Inverter system on the motor improves efficiency of electric consumption, and makes the cable life longer.



Con torque motor type

Totally-enclosed-fan-cooled motor (IP55) allows installing in a hostile environment.





RECYCLING PRUNED BRANCHES

BIAXIAL CRUSHER

Crusher is applied to fragmentize pruned branches and recycle them into composts.

CRUSHER





RECYCLING LABELS AND STICKERS

BIAXIAL CRUSHER

Labels and stickers with adhesive compounds are crushed and recycled into solid fuels.

Product guidance

CREATE A RECYCLING SOCIETY

ENDO CRUSHER can crush any recyclable materials like a plastic, wood, scrap metal, printed circuit board, etc. We supply a wide range of series from small types for general factories to large types for Industrial waste disposers or Recycle facilities.

SMALL BIAXIAL CRUSHER

Biaxial crusher, with small body, is easy to install and adapted for crushing small materials like plastic bottles, videotapes, CDs, raw garbage, etc. This type also provides easy maintenance.



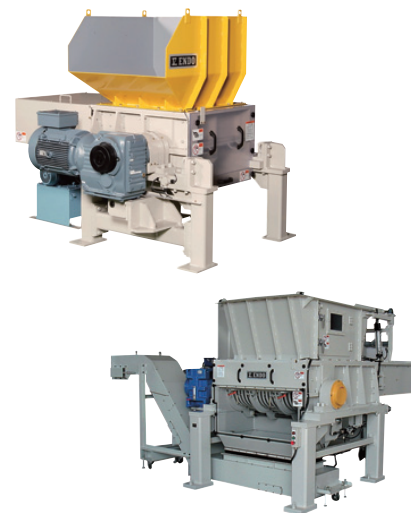
LARGE BIAXIAL CRUSHER

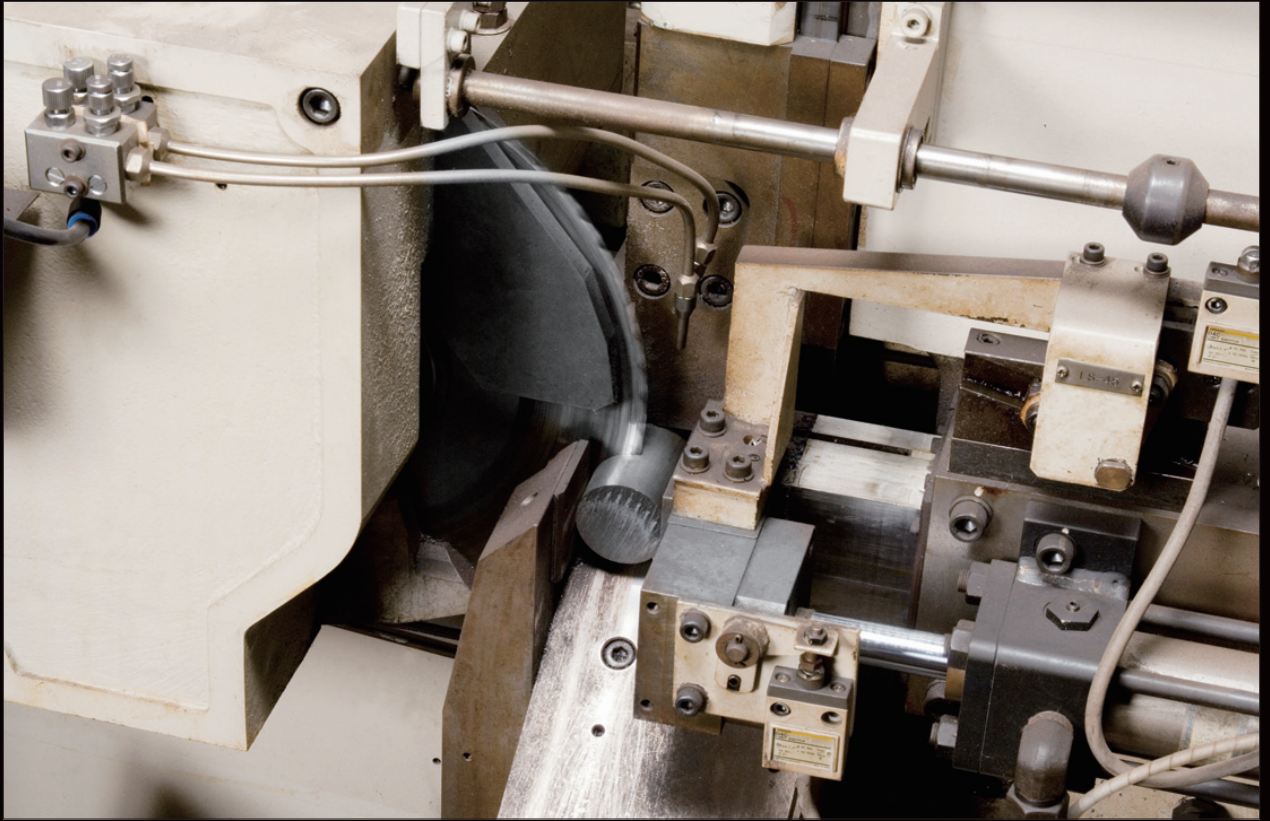
Large crusher is suitable for mass disposal of large size waste like industrial wastes, wastes from a garbage-processing center, etc. Two motor driven systems, hydraulic drive and electric drive, are available.



UNIAXIAL CRUSHER

Uniaxial crusher gives finer crush than Biaxial crusher. With its crush size adjustment, the crusher is useful for a wide range of purposes.





STEEL CUTTING

CIRCULAR SAWING MACHINE

CIRCULAR SAWING MACHINE





ALUMINUM BILLET CUTTING

CIRCULAR SOWING MACHINE

Product guidance

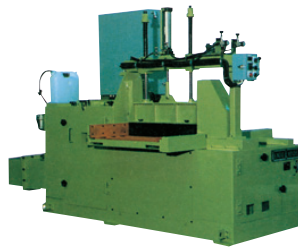
TAKING PRIDE AND CONFIDENCE IN PERFORMANCE

ENDO Circular sawing machine provides an excellent cutting of aluminum / copper / steel billets, slabs, etc. High-rigidity design contributes to high-speed cutting and hard materials cutting.

For aluminum billet



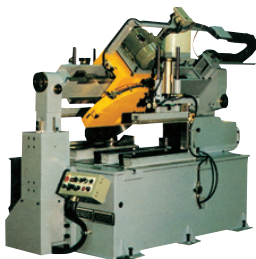
For extrusion application



For straight cutting of extruded aluminum



For angle cutting of extruded aluminum

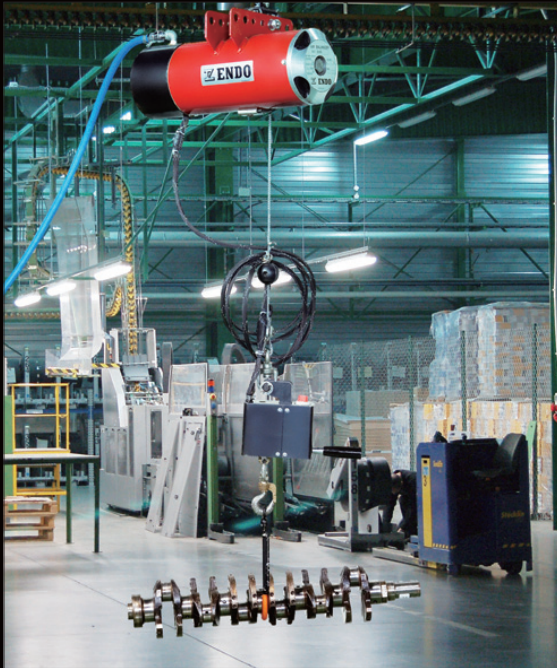


For cutting iron and steel



For cutting copper / copper-steel alloy





ASSEMBLY WORKS

AIR BALANCER

Easy lifting and transfer help assembly works.



CONSTRUCTION SITES

SELF LOCK

Self locks are used for construction sites where require high safety.

AIR BALANCER

ENDO "AIR BALANCER" SERIES

Air balancer

Air balancer can help to lift heavy suspended load easily with a customer-selected control module installed to the body. They have lifting or balancing function as Air hoists or Spring balancers.



Full-automatic balancer

In addition to the function of the Air balancer, Full Auto Balancer hoists various loads in different weight and gives fine balancing and easy positioning by single hand operation with Automatic Weight Sensing.



Self lock

Self lock is a fall prevention device to protect the worker's life at shipyards, construction sites, etc., where people works in high places.

Designed for high reliability.



Self lock for object-use

Self lock prevents falls of equipment and lifted material in high places. Best for preventing falls of various equipment or robot installed on wall in factory, gym equipment, etc.





FACTORY

HOSE REEL

Air hose is tidily winded on the hose reel.



OBSERVATION WHEEL

SLIP RING

Slip ring is used for axis rotation and power supply for the observation wheel.

HOSE REEL

ENDO "HOSE REEL" SERIES

SLIP RING

ENDO "SLIP RING" SERIES

Hose reel

Used for winding hose for fluid used in factory such as water, air, etc.

Suitable for high-pressure use such as water jet shield machine.



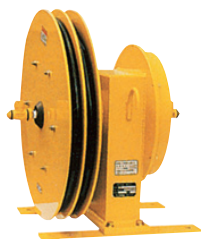
HR type

For winding hose, transfer car, washing equipment, machine tool, etc.



WOR type

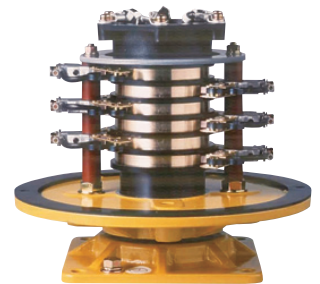
For vehicle mounted cranes, gondola arm, crane cylinder, crane boom, etc.



Slip ring

Transmit power and signal to equipment with rotation such as filling machines, auto-packing machines, game machine, etc.

The compact design enables easy handling and long life.



SPM type

For low current and signal transfer



SR Type

For power and signal transfer





▼EW.EWS.EWF

Model	Capacity(kg)	Stroke(m)	Mass(kg)	CE
EW-3	1.0~3.0	1.3	1.4	○
EW-5	2.5~5.0	1.3	1.5	—
EWS-3	1.5~3.0	1.3	1.9	○
EWS-5	3.0~5.0	1.3	2.1	○
EWS-7	5.0~7.0	1.3	2.1	○
EFW-9	4.5~9.0	1.3	3.5	○
EFW-15	9.0~15.0	1.3	3.8	○
EFW-22	15.0~22.0	1.5	7.3	○
EFW-30	22.0~30.0	1.5	7.7	○
EFW-40	30.0~40.0	1.5	9.7	○
EFW-50	40.0~50.0	1.5	10.1	○
EFW-60	50.0~60.0	1.5	11.1	○
EFW-70	60.0~70.0	1.5	11.4	○
EFW-90	70.0~90.0	2.0	21.9	○
EFW-105	85.0~105.0	2.0	24.0	○
EFW-120	100.0~120.0	2.0	27.5	○
EFW-90A	70.0~90.0	2.0	21.9	○
EFW-105A	85.0~105.0	2.0	24.0	○
EFW-120A	100.0~120.0	2.0	27.5	○

▼EK.ERP

Model	Capacity(kg)	Stroke(m)	Mass(kg)	CE
EK-00	0.5~1.5	0.5	0.2	○
EK-0	0.5~1.5	1.0	0.5	○
ERP-06E	0.3~0.6	1.5	0.4	○
ERP-1E	0.5~1.0	1.5	0.4	○
ERP-2E	1.0~2.0	1.5	0.4	○

▼ETP

Model	Capacity(kg)	Stroke(m)	Mass(kg)	CE
ETP-14	120.0~140.0	1.2	24.1	○
ETP-15	140.0~170.0	1.2	28.7	○
ETP-16	170.0~200.0	1.2	29.7	○

▼RSB

Model	Capacity(kg)	Stroke(m)	Mass(kg)	CE
RSB-15	9.0~15.0	1.5	7.4	○
RSB-22	15.0~22.0	1.5	7.7	○
RSB-30	22.0~30.0	1.5	8.1	○
RSB-40	30.0~40.0	1.5	8.5	○



▼ ELF

Model	Capacity(kg)	Stroke(m)	Mass(kg)	CE
ELF-3	1.5~3.0	2.5	4.6	○
ELF-5	3.0~5.0	2.5	4.8	○
ELF-9	5.0~9.0	2.5	5.4	○
ELF-15	9.0~15.0	2.5	10.0	○
ELF-22	15.0~22.0	2.5	10.2	○
ELF-30	22.0~30.0	2.5	11.0	○
ELF-40	30.0~40.0	2.5	14.5	○
ELF-50	40.0~50.0	2.5	14.9	○
ELF-60	50.0~60.0	2.5	17.1	○
ELF-70	60.0~70.0	2.5	18.0	○



▼ ATB

Model	Capacity(kg)	Stroke(m)	Air inlet(φmm)	Mass(kg)	CE
ATB-0	0.5~1.5	1.3	6.3	1.58	○
ATB-1	1.5~3.0	1.3	6.3	1.66	○
ATB-2	3.0~5.0	1.3	6.3	1.73	—



▼ THB

Model	Capacity(kg)	Stroke(m)	Air inlet(φmm)	Mass(kg)	CE
THB-15	0.5~1.5	1.3	8.5	1.9	○
THB-25	1.5~2.5	1.3	8.5	2.0	○
THB-35	2.5~3.5	1.3	8.5	2.1	○
THB-50	3.5~5.0	1.3	8.5	2.1	○
THB-65	5.0~6.5	1.3	8.5	2.2	○



▼ ATR

Model	Max tension N [kgf]	Stroke(m)	Air inlet(φmm)	Mass(kg)	CE
ATR-5	49 [5.0]	2.0	10.0	3.8	○
ATR-5-1	49 [5.0]	2.0	10.0	4.2	○



▼ ER

Model	Max. initial tension N	(Tension at retracted) [kgf]	Active cable travel (m)	Increased Tension by pulling out wire		Effective spring turns	Ratchet ○/—	Wire rope dia.(φmm)	Mass (kg)	CE
				N	[kgf]					
ER-3A	18	1.8	3	12	1.2	Approx. 16	○	2.38	1.4	○
ER-3B	18	1.8	3	12	1.2	Approx. 16	—	2.38	1.3	○
ER-5A	25	2.5	3	25	2.5	Approx. 13	○	2.38	1.5	—
ER-5B	25	2.5	3	25	2.5	Approx. 13	—	2.38	1.4	—
ER-10A	49	5.0	4	49	5.0	Approx. 13	○	2.38	4.5	—
ER-10B	49	5.0	4	49	5.0	Approx. 13	—	2.38	3.8	—

Note: The tension increases gradually as the wire rope is pulled out. For example, on ER-5A, supporting that the tension of spring is adjusted at 25N (2.5kgf) when the wire rope is fully retracted, the tension of spring (when the cable is pulled out 3m) is equal to 50N (25+25).



▼ **SL.SLM**

Model	Capacity (kg)	Rope length (m)	Standard accessory	CE
SL-7H	30~120	7	Shackle Sling rope	—
SL-10L	30~100	10		—
SL-17H	30~120	17		—
SL-25L	30~100	25		—
SL-30H	30~120	30		—
SL-35H	30~120	35		—
SLM-12	30~120	12	Karabiner	—
SLM-15	30~120	15		—



▼ **EHW.AH**

Model	Capacity (kg)	Stroke (m)	Air pressure MPa (kgf/cm ²)	Lifting speed (m/min)	Air consumption (m ³ /min)	Air inlet	Mass(kg)	CE
EHW-60	60	1.9	0.4{4}	18.5	0.55	R,3/8	9.2	—
			0.5{5}	22.5	0.70			
			0.6{6}	26.0	0.88			
EHW-60R	60	1.9	0.4{4}	18.5	0.55	Rc,3/8	9.5	—
			0.5{5}	22.5	0.70			
			0.6{6}	26.0	0.88			
EHW-120	120	1.9	0.4{4}	11.0	0.59	R,3/8	9.4	—
			0.5{5}	13.5	0.75			
			0.6{6}	16.0	0.93			
EHW-120R	120	1.9	0.4{4}	11.0	0.59	Rc,3/8	9.7	—
			0.5{5}	13.5	0.75			
			0.6{6}	16.0	0.93			
AH-250R	160	2.5	0.4{4}	9.0	0.75	Rc,1/2	18.2	—
	200		0.5{5}	10.0	0.92			
	250		0.6{6}	11.0	1.10			



▼ **AT.ATC.EHL**

Model	Capacity	Stroke (m)	Air pressure MPa (kgf/cm ²)	Lifting speed (m/min)	Air consumption (m ³ /min)	Chain (size x fall)	Air inlet	Mass (kg)	CE	
AT-60K	60kg	3	0.4{4}	16.5	0.52	4.0 x 1	Rc,3/8	12.3	—	
AT-60K-5			0.5{5}	20.0	0.67			13.0	○	
			0.6{6}	23.5	0.85					
ATC-60K	60kg	2	0.4{4}	14.0	0.52	4.0 x 1	Rc,3/8	14.3	—	
ATC-60K-5			0.5{5}	18.0	0.67			14.3	○	
			0.6{6}	20.0	0.85					
AT-120K	120kg	3	0.4{4}	10.0	0.55	4.0 x 1	Rc,3/8	12.5	—	
AT-120K-5			0.5{5}	12.0	0.71			13.2	○	
			0.6{6}	14.5	0.9					
ATC-120K	120kg	2	0.4{4}	6.5	0.55	4.0 x 1	Rc,3/8	14.5	—	
ATC-120K-5			0.5{5}	10.5	0.71			14.5	○	
			0.6{6}	12.0	0.9					
EHL-025TS	250kg	3	0.4{4}	12.0	0.9	6.3 x 1	Rp,1/2	18.7	○	
	0.5{5}	16.0	1.3							
	0.6{6}	18.0	1.6							
EHL-05TS	500kg	3	0.4{4}	7.5	0.95	6.3 x 1	Rp,1/2	18.7	○	
	0.5{5}	9.0	1.3							
	0.6{6}	10.5	1.65							
EHL-098TW	980kg	3	0.4{4}	3.7	0.95	6.3 x 2	Rp,1/2	24.2	○	
EHL-1TW	1t		0.5{5}	4.5	1.3					
	0.6{6}		5.2	1.65						
EHL-1TS	1t	3	0.4{4}	4.0	1	7.1 x 1	Rp,1/2	34.0	○	
	0.5{5}	5.2	1.4							
	0.6{6}	6.0	1.8							
EHL-2TW	2t	3	0.4{4}	2.0	1	7.1 x 2	Rp,1/2	42.0	○	
	0.5{5}	2.6	1.4							
	0.6{6}	3.0	1.8							
EHL-3TS	3t	3	0.4{4}	2.0	1.75	12.5 x 1	Rp,3/4	75.0	○	
	0.5{5}	2.6	2.47							
	0.6{6}	3.0	3.14							
EHL-6TW	6t	3	0.4{4}	1.0	1.75	12.5 x 2	Rp,3/4	96.0	○	
	0.5{5}	1.3	2.47							
	0.6{6}	1.5	3.14							



▼ **EAB**

Model	Air pressure MPa [kgf/cm ²]	Capacity(kg)		Stroke (m)	Mass (kg)	Wire rope dia.(mm)	Air inlet	CE
		ABC-11	ABC-5G-5P					
EAB-45	ABC-11	0.5 [5]	30	40	1.9	32	ABC-11 Rc 1/4	—
	ABC-5G	0.4 [4]	25	30				
	ABC-5P	0.3 [3]	20	20				
EAB-85S	ABC-11	0.5 [5]	50	60	1.85	38	ABC-11 Rc 1/4	—
	ABC-5G	0.4 [4]	40	45				
	ABC-5P	0.3 [3]	30	30				
EAB-85L	ABC-11	0.5 [5]	50	60	2.75	50	ABC-5G · 5P Tube outside φ12	—
	ABC-5G	0.4 [4]	40	45				
	ABC-5P	0.3 [3]	30	30				
EAB-130	ABC-12	0.5 [5]	70	85	1.85	45	ABC-5G · 5P Tube outside φ12	—
	ABC-5G	0.4 [4]	55	62.5				
	ABC-5P	0.3 [3]	40	40				

* Air inlet Rc3/8 is available for ABC-5G and ABC-5P as an alternative option.



▼ **MTH**

Model	Capacity (t)	Air pressure MPa [kgf/cm ²]	Traveling speed (m/min)	Air consumption (m ³ /min)	Available beam width(mm)	Min. radius for curve(mm)	Air inlet	Mass (kg)	CE
MTH-1T-5	1	0.4 [4]	20	0.55	75	3500	1/2	Approx. 35	—
		0.5 [5]	25	0.6	100 · 125	800			
		0.6 [6]	28	0.65					
MTH-2T-5	2	0.4 [4]	16	1.05	125 · 150	1000	1/2	Approx. 63	—
		0.5 [5]	17	1.3					
		0.6 [6]	18	1.6					
MTH-6.3T	6.3	0.4 [4]	17	1.05	150 · 175 · 190	2500	3/4	Approx. 127	—
		0.5 [5]	18	1.3					
		0.6 [6]	19	1.6					

1. Four push buttons control (4 direction) is available as well as two push buttons control (2 direction).
 2. I hook type is available as well as Hook on type for hanging Air hoist on the MTH.
 3. Filter or Lubricator is recommended to set as close to MTH as possible.

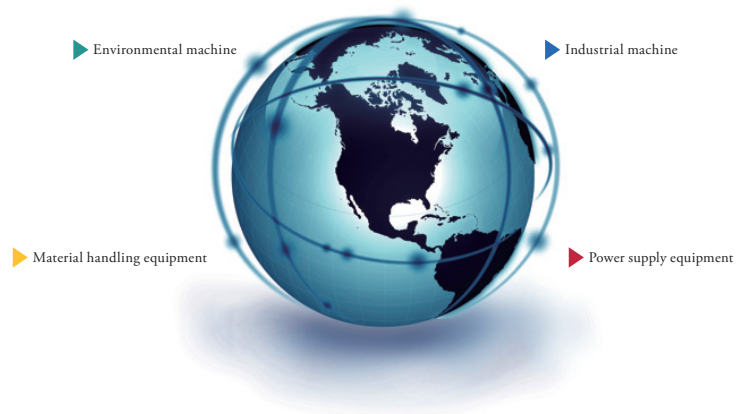


Corporate profile

- **Name** ENDO KOGYO CO., LTD.
- **Address** 3-14-7, Akibacho, Tsubame, Niigata, Japan
- **Established** May, 1935
- **Capital** 60 Million YEN
- **Director** KOROKU ENDO
- **Number of employees** 189 Members
- **Site Area** Approx.51,000sq meters, of which 14,000sq meters building area

Plant & Offices

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