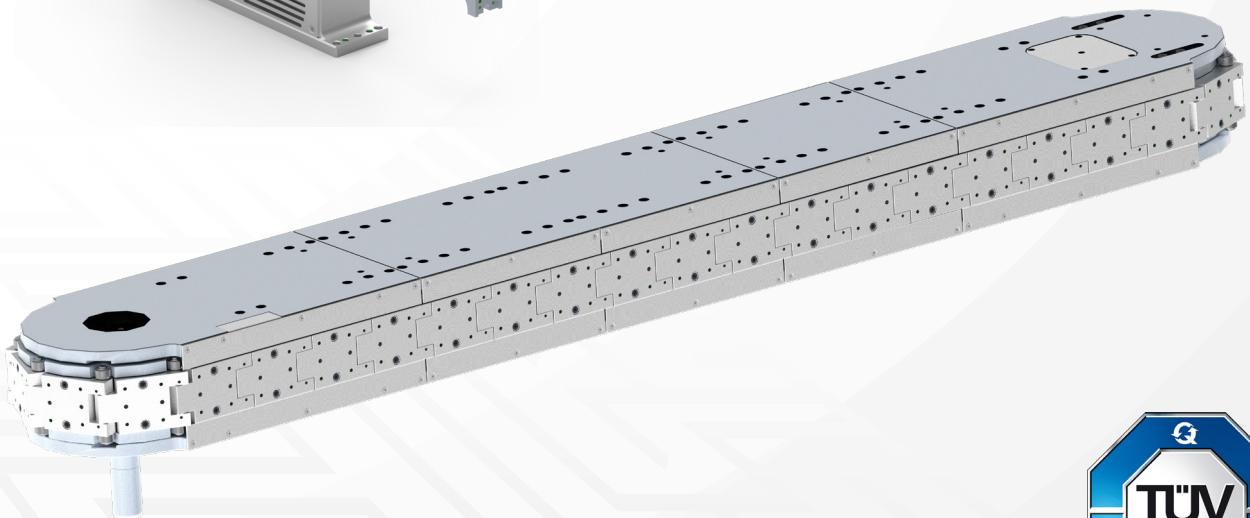
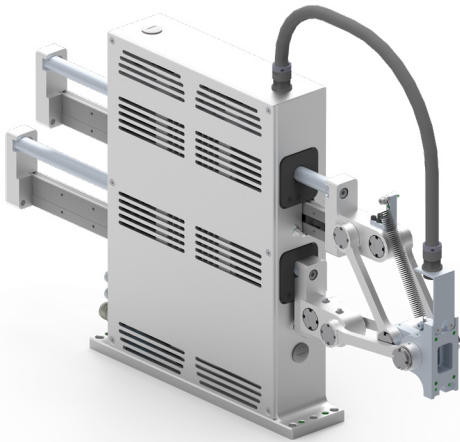
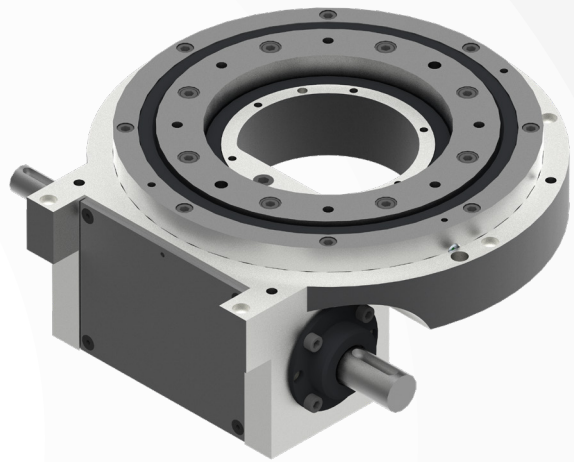
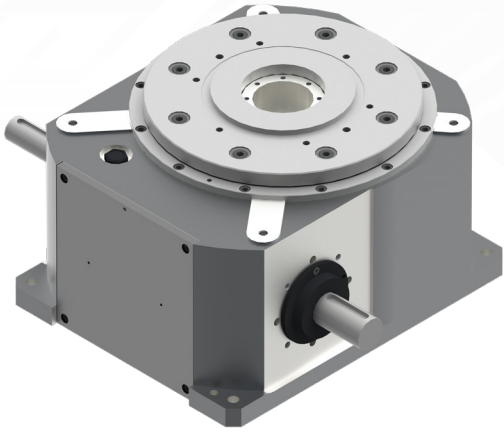
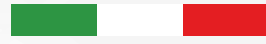
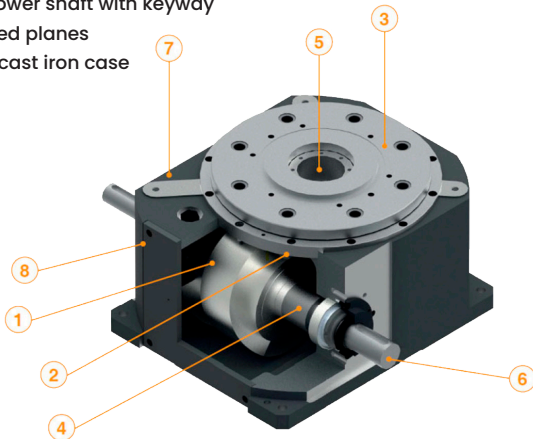

autorotor

THE ROTARY MOTION





1. High tensile steel cam with hardened and round profiles
2. Oversize section cam followers
3. Indexing disk
4. Input power cam shaft
5. Central hollowed fix hub
6. Input power shaft with keyway
7. Machined planes
8. Sealed cast iron case



THE ROTARY TABLE

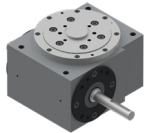
The rotary tables are mechanical units with orthogonal axes, where the continuous rotation of the input shaft results in the conversion into an intermittent rotation of the output disc. This is accomplished by mounting the cam to the input shaft and then an indexing disc holding the cam follower integrated with the output disc. The profile of the cam and number of cam follower bearings applied determine the type of index movement that occurs. The number of stations (2 to 36 with the possibility up to 540 stations) will be determined by the mechanism according to the customer's requirements. The index time from station to station is directly proportional to the cam angle and the input RPM. The compact and robust structure of the Autorotor index tables, along with the tailoring of requirements with all the higher standards of performance, high axial as well as the radial load capacities is a standard for Autorotor. The Autorotor index table is maintenance free and over the time the highest levels of accuracy occurs due to the acceleration and deceleration of the indexing disc through the displacement generated by the cam and the fact that there is an absence of backlash.

Advantages

- High speed continuous and totally controlled displacement
- Smooth running also at high frequency
- Self-locking in dwell position
- High repeatability
- Low maintenance
- Low installed power
- Possibility of using continuously moving cams, driven by servomotors

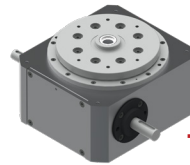
Application

- Assembling machines
- Packing equipments
- Manufacturing equipments
- Automated welding machines
- Movement devices
- Filling machines
- Printing machines



T07

DIVISIONS: 2-36 stations
 FUNCTIONING: Intermittent
 Continuous
 REPEATABILITY STD: $\pm 0.015\text{mm}$
 REPEATABILITY SPC: $\pm 0.010\text{mm}$
 AXIAL LOAD: 3.000 N
 RADIAL LOAD: 3.000 N
 OVERTURNING TORQUE: 100 Nm



T10

DIVISIONS: 2-36 stations
 FUNCTIONING: Intermittent
 Continuous
 REPEATABILITY STD: $\pm 0.015\text{mm}$
 REPEATABILITY SPC: $\pm 0.010\text{mm}$
 AXIAL LOAD: 6.500 N
 RADIAL LOAD: 5.800 N
 OVERTURNING TORQUE: 150 Nm



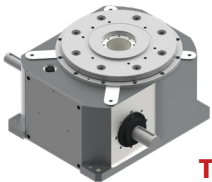
T15

DIVISIONS: 2-36 stations
 FUNCTIONING: Intermittent
 Continuous
 REPEATABILITY STD: $\pm 0.015\text{mm}$
 REPEATABILITY SPC: $\pm 0.010\text{mm}$
 AXIAL LOAD: 11.000 N
 RADIAL LOAD: 1.000 N
 OVERTURNING TORQUE: 250 Nm



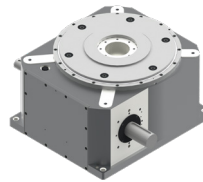
T25

DIVISIONS: 2-36 stations
 FUNCTIONING: Intermittent
 Continuous
 REPEATABILITY STD: $\pm 0.015\text{mm}$
 REPEATABILITY SPC: $\pm 0.010\text{mm}$
 AXIAL LOAD: 18.000 N
 RADIAL LOAD: 16.500 N
 OVERTURNING TORQUE: 550 Nm



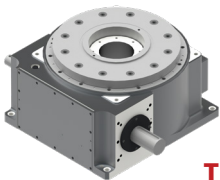
T35

DIVISIONS: 2-36 stations
 FUNCTIONING: Intermittent
 Continuous
 REPEATABILITY STD: $\pm 0.015\text{mm}$
 REPEATABILITY SPC: $\pm 0.010\text{mm}$
 AXIAL LOAD: 30.000 N
 RADIAL LOAD: 24.000 N
 OVERTURNING TORQUE: 700 Nm



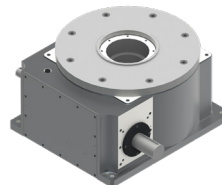
T55

DIVISIONS: 2-36 stations
 FUNCTIONING: Intermittent
 Continuous
 REPEATABILITY STD: $\pm 0.015\text{mm}$
 REPEATABILITY SPC: $\pm 0.010\text{mm}$
 AXIAL LOAD: 43.000 N
 RADIAL LOAD: 30.000 N
 OVERTURNING TORQUE: 1.600 Nm



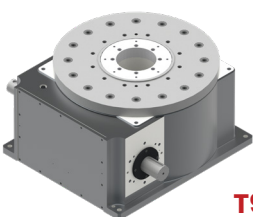
T65

DIVISIONS: 2-36 stations
 FUNCTIONING: Intermittent
 Continuous
 REPEATABILITY STD: $\pm 0.015\text{mm}$
 REPEATABILITY SPC: $\pm 0.010\text{mm}$
 AXIAL LOAD: 60.000 N
 RADIAL LOAD: 55.000 N
 OVERTURNING TORQUE: 2.500 Nm



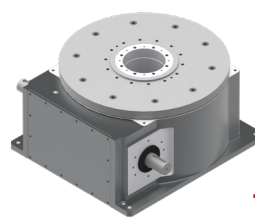
T75

DIVISIONS: 2-36 stations
 FUNCTIONING: Intermittent
 Continuous
 REPEATABILITY STD: $\pm 0.015\text{mm}$
 REPEATABILITY SPC: $\pm 0.010\text{mm}$
 AXIAL LOAD: 70.000 N
 RADIAL LOAD: 70.000 N
 OVERTURNING TORQUE: 3.500 Nm



T95

DIVISIONS: 2-36 stations
 FUNCTIONING: Intermittent
 Continuous
 REPEATABILITY STD: $\pm 0.015\text{mm}$
 REPEATABILITY SPC: $\pm 0.010\text{mm}$
 AXIAL LOAD: 100.000 N
 RADIAL LOAD: 100.000 N
 OVERTURNING TORQUE: 7.000 Nm



T105

DIVISIONS: 2-36 stations
 FUNCTIONING: Intermittent
 Continuous
 REPEATABILITY STD: $\pm 0.020\text{mm}$
 REPEATABILITY SPC: $\pm 0.010\text{mm}$

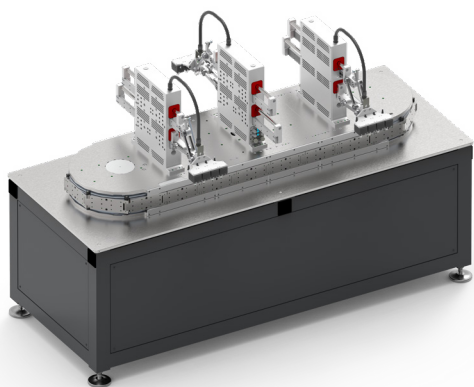
T105 STD
 AXIAL LOAD: 150.000 N
 RADIAL LOAD: 150.000 N
 OVERTURNING TORQUE: 10.000 Nm

T105 R
 AXIAL LOAD: 250.000 N
 RADIAL LOAD: 250.000 N
 OVERTURNING TORQUE: 15.000 Nm

T105 R (Heavy Series)



PRECISION MODULAR CONVEYOR BELT



The CB conveyor belt is a component for industrial automation to be integrated in machines, for precise and repeated transfer and positioning of piece holders from one station to another. It consists of a chain of links that can move around a central rigid structure through the connection of a drive unit to the drive shaft. Thanks to its modular design, it can be easily adapted to any dimensional and production requirements of machine manufacturers. Lightweight, compact, with pallet movement made flexible by two types of engines:

- A mechanical step with the proven mechanical units.
- An electronic step directly managed by the reduction gear and servomotor

Due to its precise construction, it guarantees a nominal repeatability $\pm 0.05\text{mm}$.

MAIN CHARACTERISTICS					LIMIT STATIC LOADS		
	Pallet Dimension	Number of Pallets	Mechanical Belt Pitch	Center's Distance	FY	FZ	MX
CB100	100 mm	24÷78	100-200-400 mm	800÷3.500	600N	500N	75Nm
CB150	150 mm	18÷78	150-300-450 mm	750÷5.250	600N	500N	75Nm
CB200	200 mm	16÷76	200-400-800 mm	800÷6.800	600N	500N	75Nm
CB250	250 mm	16÷74	250-500-1.000 mm	1.000÷7.000	600N	500N	75Nm

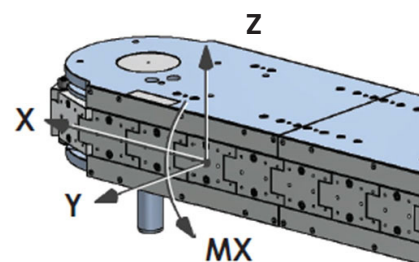
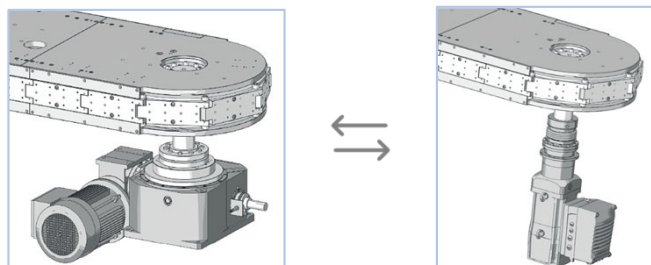
Precision Modular Conveyor Belt

Modular, light, suitable for any manufacturing sector:

- Medical – Healthy care – Cosmetic – Food
- Automotive – Mechanical – Electromechanical – Hydraulic

Flexible Movement

Mechanical step with proven Autorotor mechanical units.
Electronic step, directly managed by reducer and servomotor.

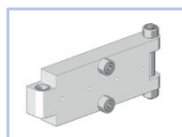


Accuracy

Nominal average repeatability $\pm 0.05\text{mm}$
(Verified and declared by Hexagon control)

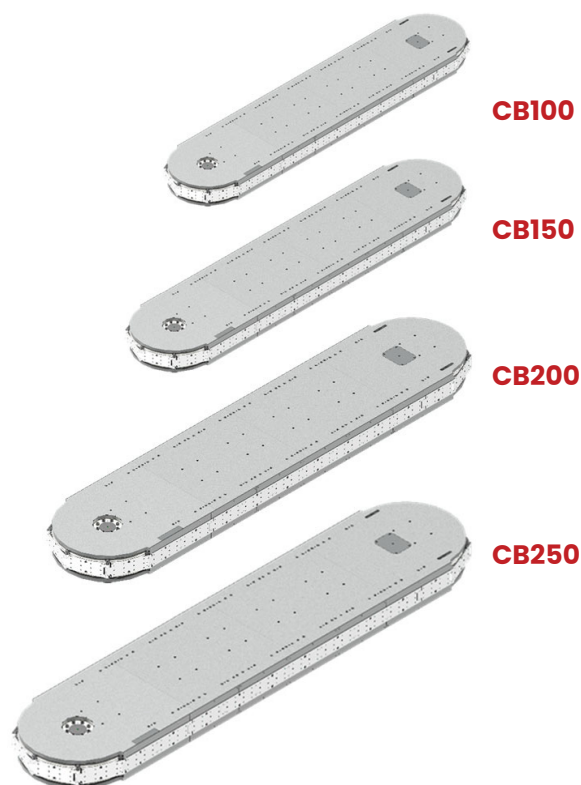
Uncompromising Robustness

The pallet is made of 30 thick aluminum, resistant to thermal traction and sudden changes in temperature. The double cam followers guarantee great precision and rigidity to the entire system.



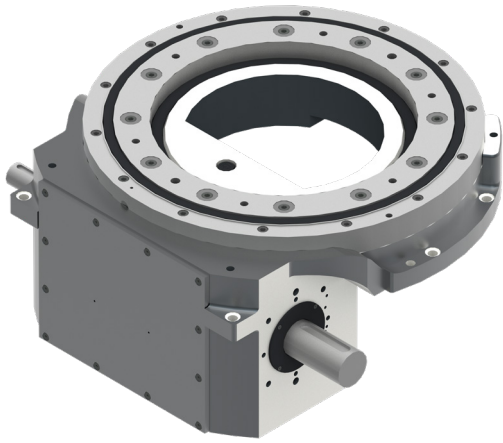
Reliability

We are sure of the goodness of our product. All components are home made, including bearings. So we offer you 3 year full warranty.



MODULAR SYSTEM





THE ROTARY RING

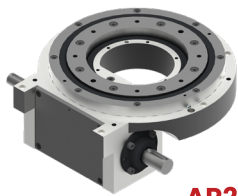
The Rotating Ring is a device that transforms the continuous input rotary motion into an intermittent output motion. This is an evolution of a rotary index table, but it has the substantial difference in that the rotating part is not on the disc but on the crown. It is characterized by a large center hole which is ideal for the mounting of auxiliary equipment in the center of the ring. It has a compact design and a high degree of precision. The AR Series is designed to handle demanding part requirements when considering mass and inertia. Each model can be the possible solution for programmable stopping or continuous rotation. The heavy duty cam followers, cylindrical cam and structural design guarantee high efficiency in all applications. It also provides a quiet operation. It is run with a mechanical cam to optimize accuracy and repeatability.

Advantages

- High speed continuous and totally controlled displacement
- Smooth running also at high frequency
- Self-locking in dwell position
- High repeatability
- Low maintenance / installed power
- Big hole in the center of the unit
- Possibility of using continuously moving cams, driven by servomotors

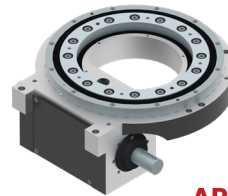
Application

- Assembling machines
- Packing equipments
- Manufacturing equipments
- Automated welding machines
- Movement devices
- Filling machines
- Printing machines



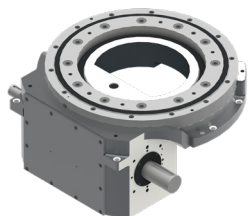
AR250

DIVISIONS : 2-24 stations
 FUNCTIONING : Intermittent
 Continuous
 CENTRAL HOLE : Ø 106 mm
 ROTATING PLATE : Ø 250 mm
 REPEATABILITY STD : ±0.015 mm
 AXIAL LOAD : 18.500 N
 RADIAL LOAD: 17.000 N
 OVERTURNING TORQUE: 580 Nm



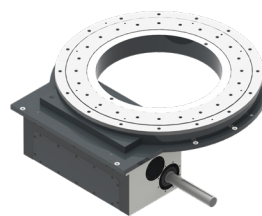
AR350

DIVISIONS : 2-24 stations
 FUNCTIONING : Intermittent
 Continuous
 CENTRAL HOLE : Ø 182 mm
 ROTATING PLATE : Ø 350 mm
 REPEATABILITY STD : ±0.015 mm
 AXIAL LOAD : 30.500 N
 RADIAL LOAD: 30.500 N
 OVERTURNING TORQUE: 1.360 Nm



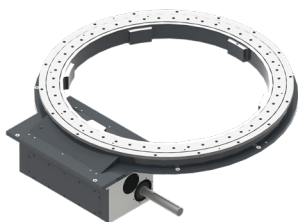
AR510

DIVISIONS : 2-32 stations
 FUNCTIONING : Intermittent
 Continuous
 CENTRAL HOLE : Ø 240 mm
 ROTATING PLATE : Ø 510 mm
 REPEATABILITY STD : ±0.015 mm
 AXIAL LOAD : 60.000 N
 RADIAL LOAD: 60.000 N
 OVERTURNING TORQUE: 2.500 Nm



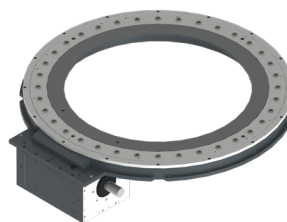
AR1800
AR1800 R (Heavy Series)

DIVISIONS : 2-24 stations
 FUNCTIONING : Intermittent
 Continuous
 CENTRAL HOLE : Ø 475 mm
 ROTATING PLATE : Ø 800 mm
 REPEATABILITY STD : ± 0.020 mm
AR1800
 AXIAL LOAD : 21.000 N
 RADIAL LOAD: 21.000 N
 OVERTURNING TORQUE: 2.500 Nm
AR1800 R
 AXIAL LOAD : 32.000 N
 RADIAL LOAD: 32.000 N
 OVERTURNING TORQUE: 5.500 Nm



AR11200

DIVISIONS : 6-24 stations
 FUNCTIONING : Intermittent
 Continuous
 CENTRAL HOLE : Ø 870 mm
 ROTATING PLATE : Ø 1.200 mm
 REPEATABILITY STD : ±0,030 mm
 AXIAL LOAD : 28.000 N
 RADIAL LOAD: 28.000 N
 OVERTURNING TORQUE: 3.000 Nm



AR1600

DIVISIONS : 8-24 stations
 FUNCTIONING : Intermittent
 Continuous
 CENTRAL HOLE : Ø 1.100 mm
 ROTATING PLATE : Ø 1.600 mm
 REPEATABILITY STD : ±0,040 mm
 AXIAL LOAD : 16.500 N
 RADIAL LOAD: 16.500 N
 OVERTURNING TORQUE: 2.200 Nm



autorotor
THE ROTARY MOTION

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