

# SOLUTIONS FOR YOUR AUTOMATION NEEDS

Equipment for:



AUTOMATION



ASSEMBLY



MANUFACTURING

# ABOUT OUR COMPANY



Established in 1953, Bettinelli, S.p.A. has been the leading designer and manufacturer of precision motion control components and systems for automated manufacturing machinery. In 1996, CDS – Cam Driven Systems was established to better support our customers' needs for engineering solutions in automation and motion technology.

CDS produces the widest range of mechanical cam driven products for precision motion control applications requiring rotary or linear transfer, positioning and handling. Our product line includes: cam indexing and servo-driven tables, ring positioning drives, intermittent and oscillating drives with parallel or right angle configuration, rotary & linear part handlers, precision link transfer systems, and epicycloidal servo reducers. CDS's experienced engineering team collaborates with our customers' engineering departments to design and customize a solution to meet their unique specifications. Our engineers are involved












throughout the design and manufacturing process to ensure that all customers' requirements are fulfilled throughout all phases of production.

To ensure and provide the best possible quality, our components are machined in-house on 5 axis CNC machining centers. Cams are hardened in accordance with our proprietary, NC controlled, induction hardening equipment. Nickel plating, sand blasting, and painting of products are also handled in-house, which reduces handling and shortens lead-time. All products are inspected utilizing our Zeiss CMM equipment to ensure the highest accuracy and most consistent quality results.

Currently, CDS – Cam Driven Systems, has corporate offices in Europe (Italy and Germany), North America (NJ, USA) and India (Pune), in addition to international sales representatives and distributors around the world.



# PRODUCT SELECTION TABLE

	CAM TYPE	OUTPUT AXIS BEARINGS TYPE	OUTPUT AXIS BEARINGS USAGE	SERIES CODE	NO. OF STOPS
PARALLEL	 FLAT	 BALL	RADIAL	IP	<ul style="list-style-type: none"><li>• 1,2,3,4,6,8</li><li>• 0.6,0.75,1*,1.33,1.5,2*,5*,10*</li><li>• Oscillators</li></ul>
		 TAPERED ROLLER	AXIAL / RADIAL		
ORTHOGONAL	 CYLINDRICAL	 CROSS -ROLLERS	HIGH AXIAL	TR / IT	<ul style="list-style-type: none"><li>• 2,3,4,5,6,8 up to 36 and over</li><li>• Servo-driven</li></ul>
			RADIAL	TRP / TRW	<ul style="list-style-type: none"><li>• 2,3,4,5,6,8,10,12</li></ul>
			OVERTURNING MOMENT	HP	<ul style="list-style-type: none"><li>• from 1 to 12 and over</li><li>• Oscillators</li></ul>
		 4-CONTACT POINTS BALL	MEDIUM / RADIAL	FT / FTP	<ul style="list-style-type: none"><li>• from 6 to 36 and over</li><li>• Servo-driven</li></ul>
		 THRUST		ITP	<ul style="list-style-type: none"><li>• 2,3,4,5,6,8,10,12</li></ul>
		 TAPERED ROLLER		IT	<ul style="list-style-type: none"><li>• 2,3,4,5,6,8 up to 30 and over</li><li>• Servo-driven</li></ul>
ORTHOGONAL	 ORTHOGONAL	 TAPERED ROLLER	MEDIUM AXIAL / RADIAL	IG / IGA	<ul style="list-style-type: none"><li>• 1,2,3,4,5,6...30 and over</li><li>• Oscillators</li></ul>
		 CROSS-ROLLERS	HIGH AXIAL / RADIAL / OVERTURNING MOMENT	HT	<ul style="list-style-type: none"><li>• from 4 to 36 and over</li><li>• Servo-driven</li><li>• 2,3,4,5,6,8... up to 96 and more</li></ul>

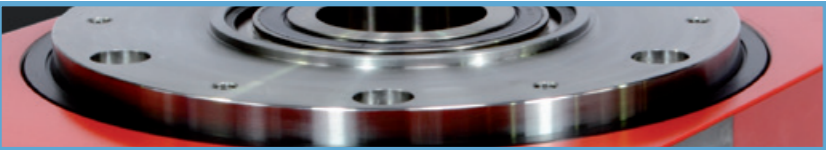
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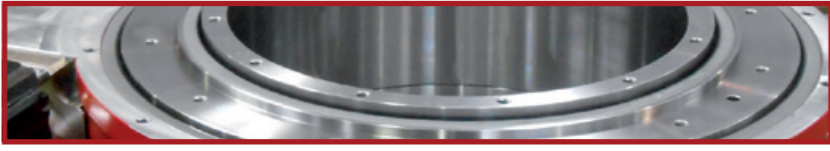
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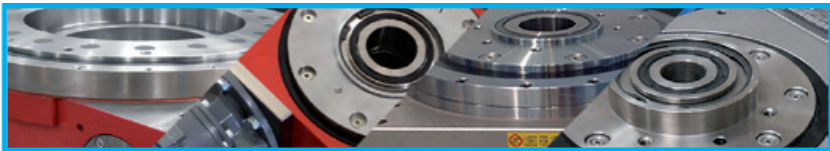
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# 100% MADE IN HOUSE



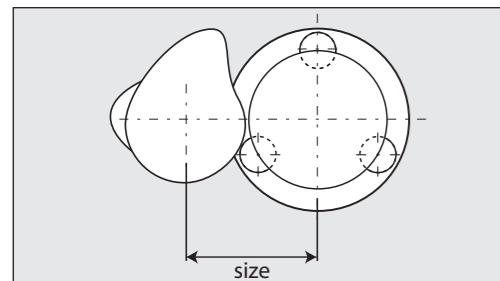
# PARALLEL SHAFT INDEXER - OSCILLATOR

## FEATURES

- Repeatability of  $\pm 0.02$  mm at cam follower
- Airtight special aluminum alloy housing size from 40 to 130
- Cast iron alloy heavy duty housing size from 165 to 250
- Flanged through-hole input and output shafts supported by large pre-loaded tapered roller bearings
- CNC hardened cam-profiles
- Oscillating and customized cam motions

## CARATTERISTICHE TECNICHE

- Ripetibilità  $\pm 0.02$  sul raggio primitivo dei perni folli
- Carcassa stagna in lega speciale di alluminio dalla taglia 40 alla 130
- Carcassa in fusione di ghisa per la serie pesante dalla taglia 165 alla 250
- Alberi d'ingresso ed uscita cavi supportati da grandi e precaricati cuscinetti conici (la serie pesante)
- Profilo camma temprato a induzione a controllo numerico
- Possibilità di leggi di moto oscillanti o personalizzate



## MERKMALE

- Wiederholgenauigkeit von  $\pm 0.02$  mm an der Kurvenrolle
- Luftdichte Aluminium-Speziallegierung, Gehäusegröße von 40 bis 130
- Graugusslegierung, robustes Gehäuse, Größe von 165 bis 250
- Flansch-Durchgangsbohrung, Eingangs- und Ausgangswelle durch große Kegelrollenlager gestützt
- CNC induktiv gehärtetes Kurvenprofil
- Oszillierende oder kundenspezifische Kurvenbewegungen möglich

## CARACTERISTIQUES

- Répétabilité de  $\pm 0.02$  mm au niveau du poussoir
- Carter en alliage d'aluminium - dimensions de 40 à 130
- Carter robuste en alliage de fonte - dimensions de 165 à 250
- Arbres d'entrée et de sortie de passage bridés supportés par de grands roulements à rouleaux coniques préchargés
- Profil de came durci par induction CNC
- Mouvement de came oscillant et personnalisé



## CARACTERÍSTICAS

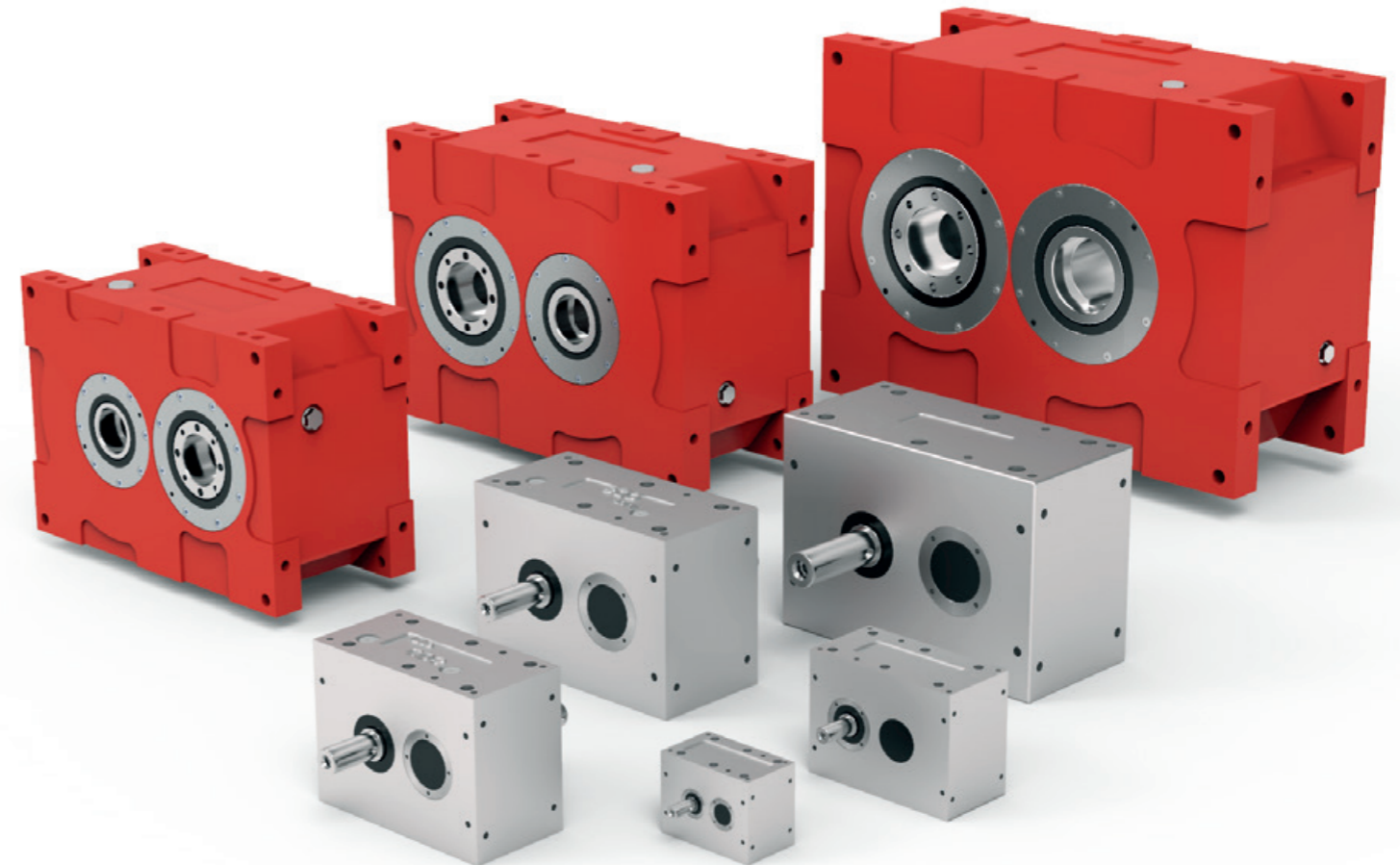
- Repetibilidad de  $\pm 0.02$  mm en el seguidor de leva
- Tamaño de compartimento hermético especial de aleación de aluminio de 40 a 130
- Tamaño de compartimento hermético pesado de aleación de acero de 165 a 250
- Ejes de entrada y salida agujeros pasantes embridados soportados por rodamientos cónicos precargados
- Perfil leva endurecido inducción CNC
- Movimiento leva oscilante y personalizado

# IP Series

Sizes: 40-65-80-105-130-165-200-250

Stops: from 1 to 8 (Including odd and fractional)

*The IP series of mechanical drives utilize a precision paradromic cam set and friction cam follower technology for the longest life and utmost in performance*

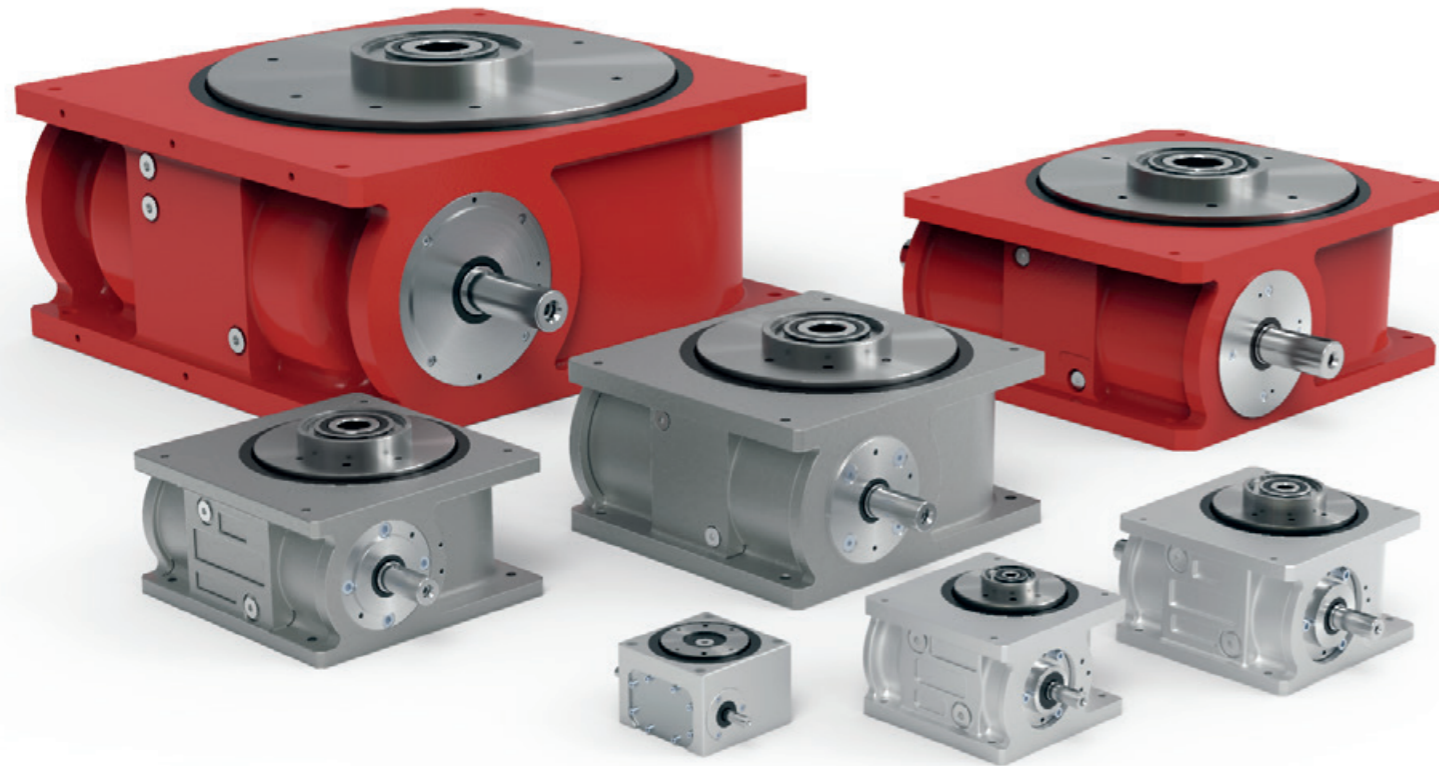


# IT Series

Sizes: 50-75-100-150-200-300-450

Stops: from 2 to 36 (Including odd number of stops)

*The IT series are industrial rotary tables designed for light to medium duty applications.*



## ROTARY INDEXING TABLES

### 🇬🇧 FEATURES

- Aluminum alloy or Cast iron alloy housing for larger model sizes
- Stationery through-hole center post
- Repeatability of  $\pm 0.02$  mm at pitch radius
- CNC hardened cam profile
- Oversized tapered roller bearing support
- High positional accuracy with standard induction motors

### 🇮🇹 CARATTERISTICHE TECNICHE

- Carcassa in lega d'alluminio o in fusione di ghisa per la serie pesante
- Perno centrale fisso con foro centrale
- Ripetibilità pari a  $\pm 0.02$  mm sul raggio primitivo dei perni folli
- Profilo camma temprato a induzione a controllo numerico
- Cuscinetti conici di supporto sovradimensionati
- Elevata precisione di posizionamento con motori ad induzione standard

### 🇩🇪 MERKMALE

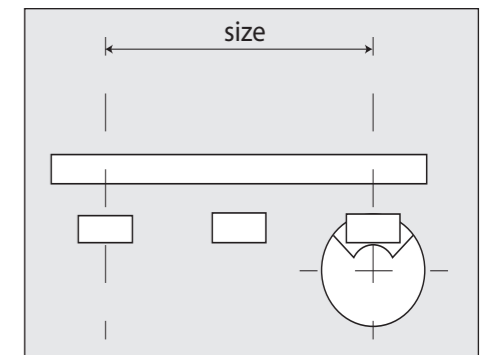
- Aluminiumlegierung oder Gusseisengehäuse für größere Größen
- Stationäres Durchgangsloch, feststehende Mittelsäule
- Wiederholgenauigkeit  $\pm 0.02$  mm am Rollensterndurchmesser
- CNC induktiv gehärtete Trommelkurve
- Überdimensionierte Kegelrollenlager-Stütze
- Hohe Positionsgenauigkeit unabhängig von Motorart

### 🇫🇷 CARACTERISTIQUES

- Carter en alliage d'aluminium et de fonte pour dimensions plus grandes
- Moyeu central fixe avec trou traversant
- Répétabilité de  $\pm 0.02$  mm au niveau du rayon du cercle primitif
- Profil de came durci par induction CNC
- Support pour roulement à rouleaux conique surdimensionné
- Positionnement de haute précision avec moteur à induction

### 🇪🇸 CARACTERÍSTICAS

- Compartimento de aleación de acero fundido o de aleación de aluminios para grandes tamaños
- Centro agujeros pasantes papelería
- Repetibilidad a  $\pm 0.02$  mm en el radio de paso
- Perfil leva endurecido inducción CNC
- Soporte rodamiento rodillo cónico de gran tamaño
- Gran precisión de colocación con motor de inducción



# ROTARY INDEXING TABLES

## FEATURES

- Optional servo connection for flexible positioning
- Repeatability of  $\pm 0.02$  mm at pitch radius
- Load capacities from 20kg to 20ton
- Cast Aluminum alloy (size 80-110) or cast iron alloy housing (160-3000)
- Crossed roller bearings for superior support of heavy loads or unbalanced overturning moments
- Stationery through-hole center post
- CNC hardened cam profile
- Orings and lips seals prevent oil leakage in any working position

## CARATTERISTICHE TECNICHE

- Disponibile con predisposizione per servomotori per un posizionamento flessibile
- Ripetibilità di  $\pm 0.02$  mm sul raggio primitivo dei perni folli
- Capacità di carico da 20 Kg a 20 ton
- Carcassa in lega di alluminio (taglia 80 e 110) o in fusione di ghisa (160-1100)
- Cuscinetto di base a rulli incrociati per carichi pesanti e momenti ribaltanti
- Mozzo centrale fisso con ampio foro passante
- Profilo camma temprato a induzione a controllo numerico
- Appropriato sistema di guarnizioni per una tenuta stagna in ogni posizione di lavoro

## MERKMALE

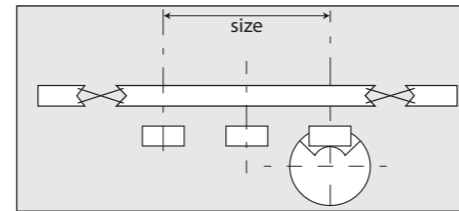
- Auch mit Vorbereitung für Servomotor für flexibles Positionieren erhältlich
- Wiederholgenauigkeit von  $\pm 0.02$  mm am Rollensterndurchmesser
- Ladekapazität von 20kg bis 20 Tonnen

- Gehäuse Aluminium-Gusslegierung (Größe 80-110), Eisen-Legierung (160-1100)
- Überdimensioniertes Kreuzrollenlager für schwere Belastungen und hohe Kippmomente
- Stationäres Durchgangsloch, feststehende Mittelsäule
- CNC induktiv gehärtete Trommelkurve
- Geeignet für alle Einbaulagen

## CARACTERISTIQUES

- Possibilité de montage de branchement asservi pour positionnement flexible
- Répétabilité de  $\pm 0.02$  mm du rayon du cercle primitif
- Capacité de charge de 20kg à 20 tonnes
- Carter en alliage d'aluminium injecté (dimension 80-110) ou en fonte (160-1100)

- Roulements à rouleaux croisés pour charges lourdes et moments de refoulement
- Moyeu central fixe avec trou traversant
- Profils de came durcis par induction CNC
- Joints adéquats pour éviter les fuites d'huile quelle que soit la position de fonctionnement



# TR Series

Sizes: 80-110-160-210-315-400-470-600-700-850-1100 3000

Stops: from 2 to 36+

*The TR series are industrial rotary positioning & indexing tables designed for heavy duty applications. They are totally customizable and can be configured for either programmable positioning via a servo input or cam indexing to a fixed number of stations*



## CARACTERÍSTICAS

- Sellos apropiados para prevenir pérdidas de aceite en cualquier posición de trabajo
- Repetibilidad de  $\pm 0.02$  mm en el radio de paso
- Capacidades de carga de 20kg a 20ton

- Aleación aluminio fundido (tamaño 80-110) o compartimento aleación acero (160-1100)
- Rodamientos cruzados para momentos de perturbación arena de carga pesada

- Centro agujeros pasantes papelería
- Perfil leva endurecido inducción CNC
- Disponibles movimientos leva compleja oscilantes y personalizados

# HP Series

Sizes: 80-110-160

**Stops: from 1 to 12 (including odd stops and oscillating) with the shortest index angle available on the market**

*Typical applications include: Rotary dial positioning tables, High speed – long stroke press machinery, indexing conveyor systems.*

## FEATURES

- Unique design combining high load capacity and short index periods
- Provides fast rotary speeds with longer dwell times
- Ideal for continuous motion machines
- Cast iron alloy housing universal mounting position
- Output dial supported by crossed-roller bearing
- High station-to-station accuracy
- High output angle with small input angle
- CNC hardened cam profile
- Complex motions and very short cam-motion periods for wide output displacements available
- Orings and seals prevent oil leakage in any working position
- Can be fitted with reducer and motor



# ROTARY INDEXING & OSCILLATING TABLES

## CARATTERISTICHE TECNICHE

- Progetto speciale CDS che combina la possibilità di supportare carichi pesanti con angoli di traslazione molto stretti
- Rende possibili rotazioni veloci con lunga fase di sosta
- Ideali per macchine che lavorano in continuo
- Carcassa in fusione di ghisa per un montaggio universale
- Piatto in uscita supportato da cuscinetto a rulli incrociati
- Elevata precisione di posizionamento
- Ampio angolo in uscita ottenuto con un piccolo angolo in entrata
- Profilo camma temprato a induzione a controllo numerico
- Possibilità di ottenere i più complessi sincronismi con angoli di movimento sulla camma molto stretti ed ampi angoli di sosta
- Un appropriato sistema di guarnizioni garantisce una perfetta tenuta
- Disponibile completo di riduttore e motore

## MERKMALE

- Einzigartige Kombination zwischen einem Kreuzrollenlager und einem kurzen Schaltwinkel (entwickelt von CDS)
- Ermöglicht eine sehr hohe Drehgeschwindigkeit und eine lange Rastphase
- Ideal für Maschinen mit kontinuierlicher Bewegung
- Gehäuse Gusseisenlegierung, universelle Einbaulage
- Ausgangsflansch gestützt durch Kreuzrollenlager

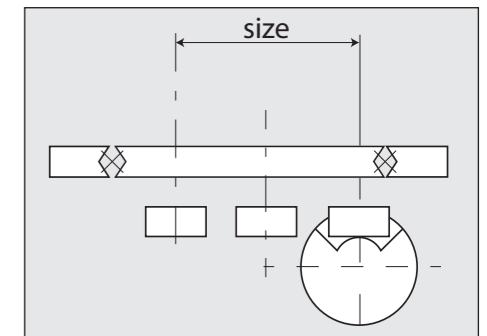
- Hohe Station-zu-Station-Genauigkeit
- Großer Ausgangswinkel durch kurzen (sehr kleinen) Eingangs-(Schalt-)winkel
- CNC induktiv gehärtete Kurvenprofile
- Ermöglicht komplexe Bewegungen durch sehr kurze Schaltzeiten in Kombination mit großem Ausgangswinkel
- Geeignete Dichtungen verhindern Ölaustritt in jeder Arbeitsposition
- Kann mit Untersetzungsgetriebe und Motor eingebaut werden

## CARACTERISTIQUES

- Un design CDS unique d'un support combiné pour charge lourde et un pas angulaire très faible
- Cela facilite une vitesse de rotation rapide et un temps de pause élevé
- Idéal pour les machines à mouvement continu
- Carter en alliage de fonte avec position de montage universelle
- Cadran de réglage soutenu par un roulement à rouleaux croisés
- Haute précision point à point
- Angle de sortie élevé pour un petit angle d'entrée
- Profils de came durcis par induction CNC
- Mouvements complexes et périodes de mouvement de came très courtes pour des déplacements de sortie importants disponibles
- Joints adéquats pour éviter les fuites d'huile quelle que soit la position de fonctionnement
- Possibilité de montage d'un réducteur et motoréducteur

## CARACTERÍSTICAS

- Diseño único CDS de soporte carga pesada combinado y ángulo índice muy reducido
- Facilita una velocidad de rotación rápida y un tiempo de permanencia elevado
- Ideal para máquinas de movimiento continuo
- Posición de montaje universal compartimento aleación de acero fundido
- Dial de salida sostenido por rodamiento cruzado
- Precisión elevada de estación a estación
- Ángulo de salida elevado para un ángulo de entrada reducido
- Perfil leva endurecido inducción CNC
- Movimientos complejos y periodos de movimiento-leve corta para amplios desplazamientos de salida disponibles
- El sellado apropiado previene las pérdidas de aceite en cualquier posición de trabajo
- Se puede acompañar de reductor y transmisión



# IG/IGA Series

Sizes: 50-63-80-82.5-100-108-125-140-160-200

Stops: from 1 to 24 (Including odd and fractional numbers of stops)

The IG & IGA series feature an induction hardened precision globoidal cam set and solid cam follower technology, this provides a right angle input/output arrangement. IG provides a flange style output and IGA provides a shaft output.



## FEATURES

- Operating speed up to 800+ cycles/min.
- Intermittent Indexing or Oscillating motions
- Special MEDI-CAM option for clean room applications
- Widest range of symmetric and asymmetric cams
- Positional accuracy of  $\pm 20$  microns at follower pitch center diameter
- CNC hardened cam profile
- Seals designed for leak-proof operation in any position

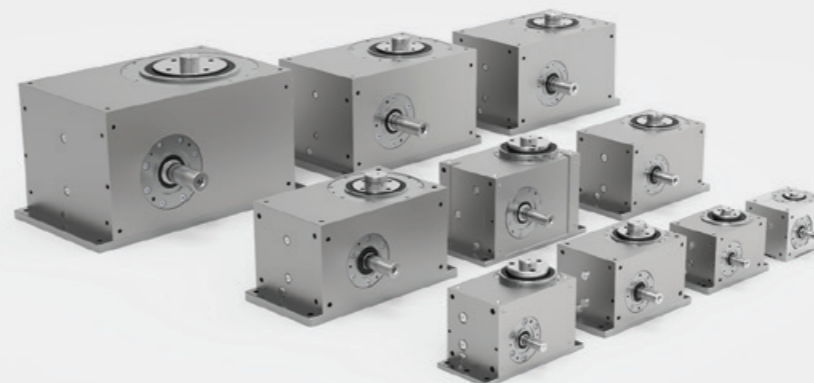
## CARATTERISTICHE TECNICHE

- Velocità operativa fino a oltre 800 cicli/min
- Possibilità di movimento intermittente o oscillante
- Versioni speciali MEDI CAM per applicazioni in camera bianca
- Ampia gamma di leggi di moto simmetriche ed asimmetriche
- Precisione di posizionamento di  $\pm 20$  micron sul diam. primitivo dei perni folli
- Profilo camma temprato a induzione a controllo numerico
- Sistema di guarnizioni per evitare perdite di lubrificante in ogni posizione di lavoro

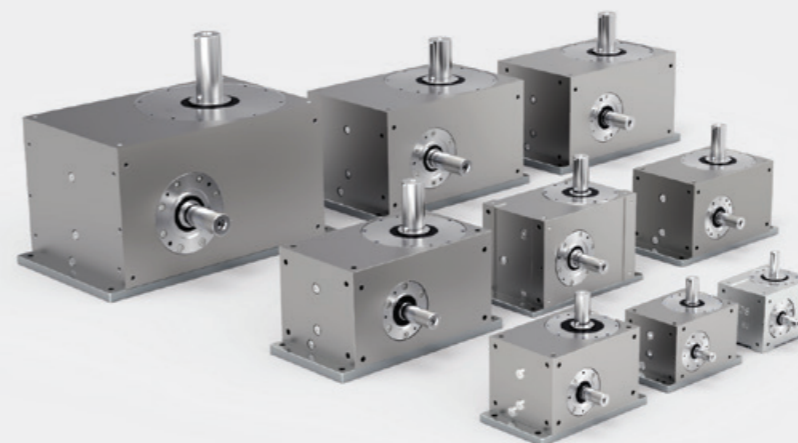
## MERKMALE

- Betriebsgeschwindigkeit bis zu 800+ Zyklen/Minute
- Intermittierende Schritt- oder Pendelbewegungen
- Spezieller MEDI-CAM Bereich, reinraumtauglich
- Breitestes Spektrum von symmetrischen und asymmetrischen Schaltkurven
- Positionsgenauigkeit von  $\pm 0,02$  mm am PCD-Anhänger
- CNC induktiv gehärtete Globoidkurve
- Geeignet für jede Einbaulage

IG



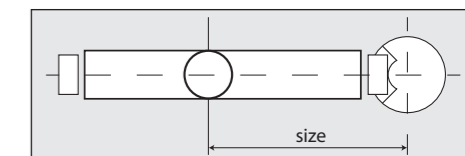
IGA



## ROLLER GEAR INDEXERS

### CARACTERISTIQUES

- Vitesse de fonctionnement jusqu'à 800+ cycles/ min
- Mouvements d'indexage et d'oscillation intermittents
- Gamme spéciale MEDI-CAM pour application en milieu stérile
- La plus vaste gamme de cames symétriques et asymétriques
- Précision de la position de  $\pm 20$  microns au niveau du DCP du poussoir
- Profils de came durcis par induction CNC
- Joints conçus pour fonctionnement étanche quelle que soit la position



### CARACTERÍSTICAS

- Velocidad operativa de hasta 800+ revoluciones/min
- Indización intermitente o movimientos oscilantes
- Intervalo especial MEDI-CAM para aplicación sala de lavado
- Amplia gama de levas simétricas y asimétricas
- Precisión de ubicación de  $\pm 20$  microns en seguidor PCD
- Perfil leva endurecido inducción CNC
- Sellos para pruebas-pérdidas en cualquier posición

# HIGH PRECISION LINK CONVEYOR

*CDS Precision Link Conveyors provide the industry's highest accuracy and repeatability for automated assembly and manufacturing machinery platforms.  
Combined with the highest dynamic performance available on the market.*

## FEATURES

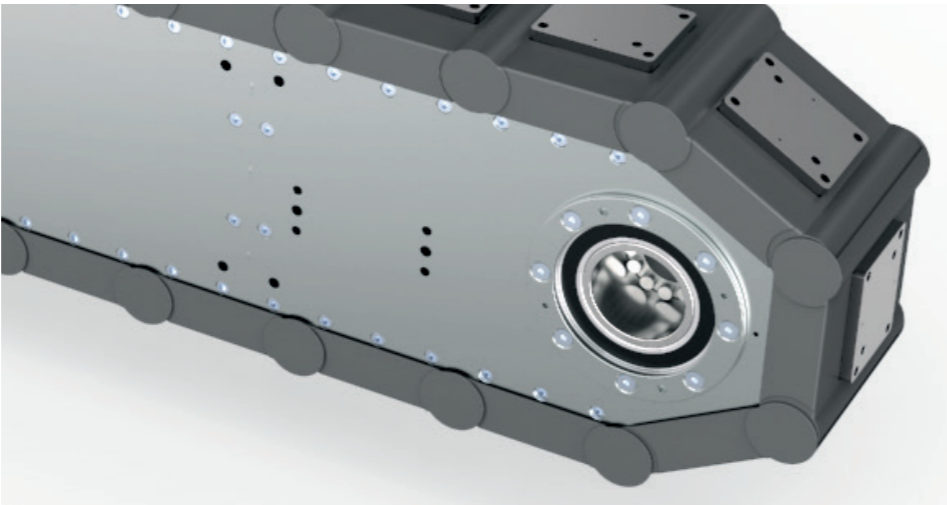
- Cam Driven for fixed indexing motion or servo driven for flexible positioning
- Versatile and compact modular-component design
- Carousel or Over-Under working positions
- Precision machined cast iron chemical-nickel plated links
- Precision chordal compensation cams
- High station-to-station accuracy
- Fast intermittent motion
- Vibration free
- Cycle Rates up to 240+ indexes per minute
- Clean room certified for medical pharma devices

## CARATTERISTICHE TECNICHE

- Posizionatore lineare di precisione a camme
- Progettazione modulare compatta e versatile
- Posizione di lavoro a carosello o in verticale
- Maglie di precisione in ghisa con trattamento di nichelatura
- Camma di compensazione effetto poligonale
- Elevata precisione da stazione a stazione
- Movimento intermittente veloce
- Esente da vibrazioni
- CDS può integrare il gruppo in sistemi complessi o fornire la base meccanica completa
- Cicli di lavoro fino a 240+ al minuto
- Camera bianca certificata per i dispositivi medici e farmaceutici

## MERKMALE

- Kurvengesteuertes, hochpräzises Lineartaktsystem
- Vielseitiges, kompaktes und modulares Komponenten-Design
- Karussell- oder Über-Unten-Arbeitspositionen möglich
- Präzisions-Gussbearbeitung, chemisch vernickelte Palettenglieder
- Präzisionskurve zum Ausgleich des Polygoneffektes
- Hohe Station-zu-Station-Genauigkeit
- Schnelle intermittierende Bewegung
- Vibrationsfrei
- Maschinen-Sub-Systeme nach Kundenwunsch
- Taktzeiten bis zu 240+/Minute
- Reinraum-zertifiziert für medizinische und pharmazeutische Apparate

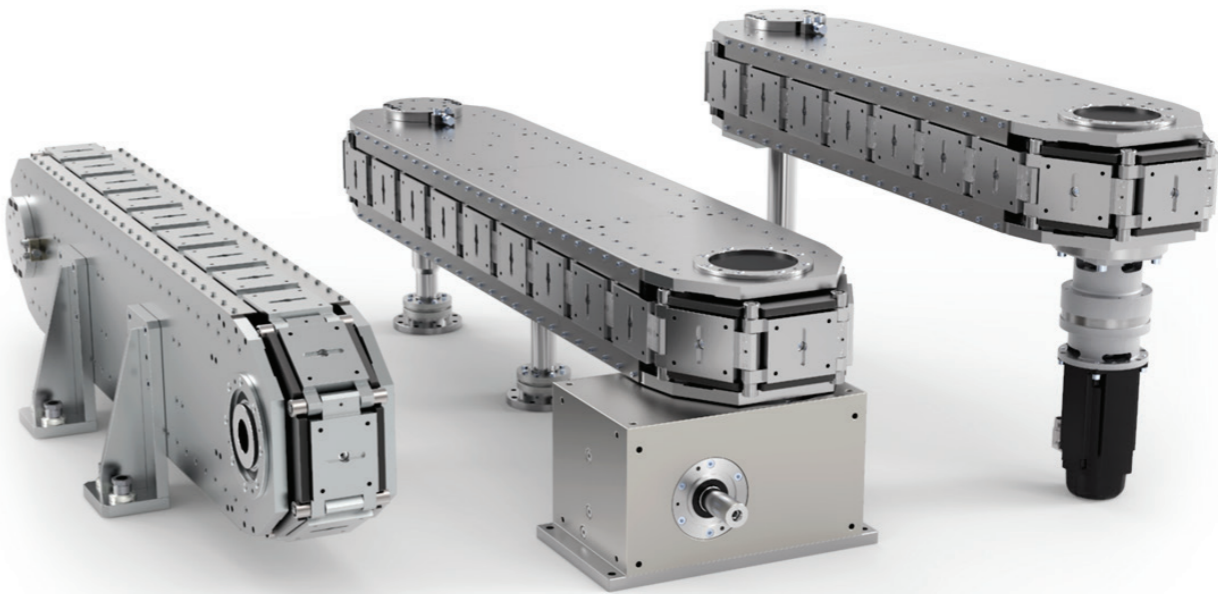


## CARACTERISTIQUES

- Transporteurs haute précision entraîné par came
- Conception modulaire compacte et versatile
- Positions de fonctionnement en carrousel ou dessus-dessous
- Maillons avec usinage de précision en fonte et nickelés chimiquement
- Cames à compensation d'effet polygonal
- Haute précision point à point
- Mouvement intermittent rapide
- Sans vibration
- CDS peut concevoir et réaliser des sous-systèmes de machine pour répondre aux besoins des clients
- Vitesses de cycles jusqu'à 240+ indexes par minute
- Salle blanche certifiée pour dispositifs médicaux et pharmaceutiques

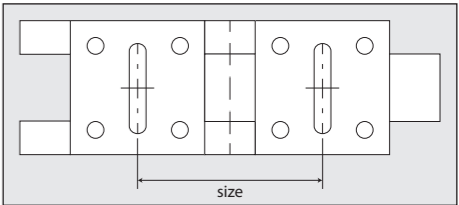
# TL Series

**Models:** TL Sizes: 25-50-75-100-105-150-200-250  
**TSL Size:** 50  
**TXL Sizes:** 75-100-150



## CARACTERÍSTICAS

- Leva dirigida con cintas transportadoras de gran precisión
- Diseño versátil y compacto componentes modulares
- Posiciones operativas carrusel u over-under
- Enlaces níquelados acero fundido con mecanización precisa
- Levas de compensación de precisión cordal
- Precisión elevada de estación a estación
- Movimiento rápido intermitente
- Vibración libre
- CDS puede diseñar y fabricar subsistemas de máquinas adecuados a las necesidades del cliente
- Velocidades de ciclo de hasta 240+ índices por minuto
- Sala limpia certificada para aparatos médicos y farmacéuticos



# MHP/LHP Series

Sizes: 40-60-100-150

The **MHP** series of rotary part handlers / pick and place units combine both a rotary and vertical motion for precision part handling processes.

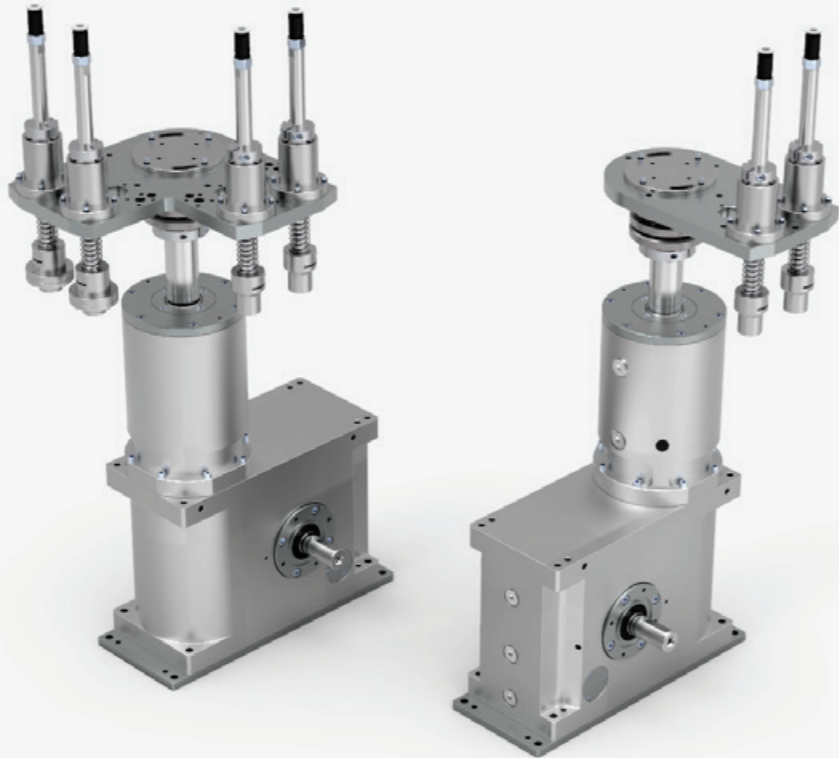
## FEATURES

- High positioning accuracy due to a cam based mechanical mechanism
- Very high point to point speed including lifting/rotation time
- Higher cycle rates compared to pneumatic device
- Compact cast aluminum alloy housing
- Fast, accurate and repeatable
- Double extended cam-shaft
- CNC induction hardened cam profiles
- Indexing or oscillating custom cam-motions
- Can be fitted with reducer and motordrive

## CARATTERISTICHE TECNICHE

- Elevata precisione di posizionamento dovuto ad un meccanismo a camme
- Elevati numeri di cicli inclusi rotazioni ed alzate
- Elevato numero di cicli, maggiore rispetto ad un sistema pneumatico
- Carcassa in lega di alluminio compatta
- Veloci e precisi
- Albero porta camme bisporgente
- Profilo camma temprato a induzione a controllo numerico
- Possibilità di movimenti intermittenti o oscillanti
- Possibilità di montaggio diretto del motoriduttore

### MHP ROTARY



# PART HANDLERS

The **LHP** series of linear part handlers / pick and place units combine both a linear and vertical motion for precision part handling processes.

## MERKMALE

- Hohe Positioniergenauigkeit aufgrund eines kurvengesteuerten Mechanismus
- Sehr hohe Punkt-zu-Punkt-Geschwindigkeit, einschließlich Hebe-/Drehzeit
- Deutlich schnellere Taktzeiten im Vergleich zu pneumatischen Systemen
- Kompaktes Gehäuse aus Aluminiumlegierung
- Schnell, präzise und wiederholbar
- Doppelt erweiterte Nockenwelle
- CNC induktiv gehärtete Kurvenprofile
- Schritt- und Pendelbewegungen nach Kundenwunsch
- Kann mit Untersetzungsgetriebe und Motor eingebaut werden

## CARACTERISTIQUES

- Positionnement de haute précision grâce à un mécanisme mécanique basé sur les cames
- Très haute vitesse point à point, y compris les temps de levage/rotation
- Grand nombre de cycles, plus élevé qu'un système pneumatique
- Boîtier compact en alliage d'aluminium injecté
- Rapide, précis et répétable
- Arbre à cames à double extension
- Profils de came durcis par induction CNC
- Mouvements de came d'indexage et

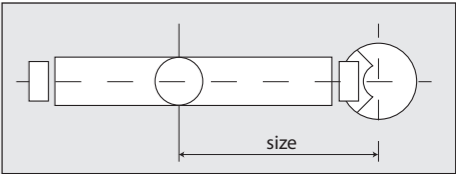
### LHP LINEAR



- d'oscillation personnalisés
- Possibilité de montage d'un réducteur ou motoréducteur

## CARACTERÍSTICAS

- Gran precisión de ubicación gracias a un mecanismo mecánico de base cam
- Velocidad de punto a punto muy elevada incluyendo tiempo de elevación / rotación
- Alto número de ciclos, mayor que un sistema neumático



- Compartimento aleación de aluminio fundido compacto
- Rápido, preciso y repetible
- Eje leva doble extensión
- Perfil leva endurecido inducción CNC
- Movimientos leva indizados u oscilantes
- Se puede acompañar de reductor y dirección

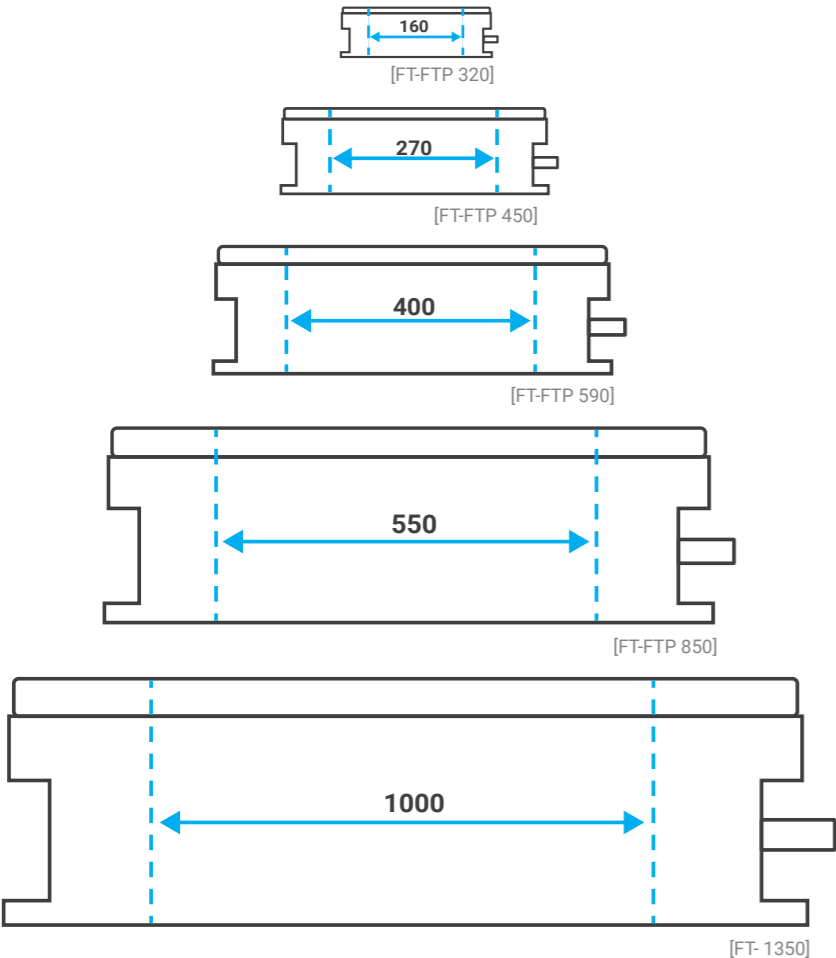
# OPEN CENTER RING TABLES

# FT Series

Sizes: 320-450-590-850-1350

Stops: from 6 to 36+

The FT series are a large open center ring style indexing & positioning tables designed for advanced industrial applications.



## FEATURES

- Flexible positioning via servo motor or fixed station positions for indexing motion
- Large stationary center hole
- Smooth & controlled acceleration & deceleration, backlash free
- High accuracy, repeatability, flexibility and reliability
- Friction followers Technology & Induction hardened cam profile
- High rigidity which provides quiet & vibration free performance
- O-ring sealed for leak proof operation in any work position

## CARATTERISTICHE TECNICHE

- Possibilità di posizionamenti fissi o variabili con servomotore
- Foro centrale di passaggio di generose dimensioni
- Accelerazioni e decelerazioni dolci ed esenti da gioco
- Elevate precisioni, flessibilità ed affidabilità
- Perni folli a strisciamento rigidi e performanti e profilo camma temprato a induzione a controllo numerico
- Funzionamento silenzioso ed esente da vibrazioni
- Sistema di guarnizioni appropriato per evitare perdite di lubrificante in tutte le posizioni di lavoro

## MERKMALE

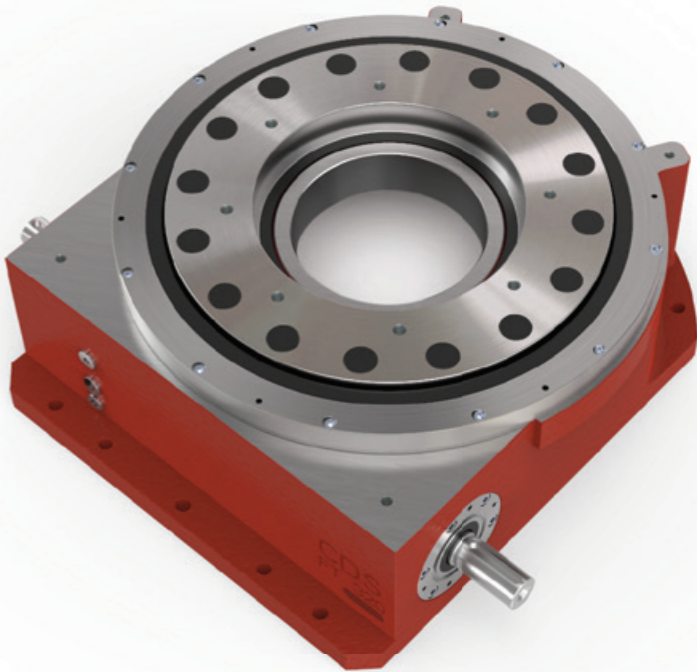
- Flexible Positionierung durch Servomotor oder feste Teilung für Schrittbewegung
- Große stationäre Mittenbohrung
- Sanfte, kontrollierte Beschleunigung und Verzögerung, spielfrei
- Hohe Genauigkeit, Wiederholbarkeit, Flexibilität und Zuverlässigkeit
- Solide Kurvenrollentechnologie und CNC induktiv gehärtete Kurvenprofile
- Hohe Steifigkeit, die eine ruhige und vibrationsfreie Laufleistung garantiert
- Für auslaufsichere Bedienung in jeder Arbeitsposition abgedichteter O-Ring

## CARACTERISTIQUES

- Positionnement flexible grâce à un servomoteur ou à des positions de point fixes pour le mouvement d'indexage
- Grand trou central fixe
- Accélération et décélération contrôlées et sans à-coups, sans jeu
- Haute précision, répétabilité, flexibilité et fiabilité
- Technologie des poussoirs de came reconnue et profil de came durci par induction
- Rigidité élevée fournissant des performances et un fonctionnement sans vibration et silencieux
- Joint torique scellé pour un fonctionnement étanche quelle que soit la position de travail

## CARACTERÍSTICAS

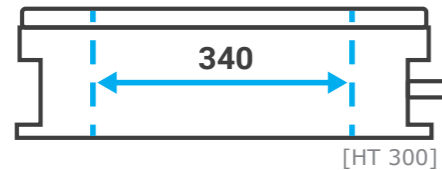
- Colocación flexible mediante servo motor o posiciones estación fija para movimiento indización
- Orificio centro estacionario grande
- Aceleración & deceleración suave & controlada, reacción libre
- Precisión elevada, repetibilidad, flexibilidad y fiabilidad
- Perfil leva endurecido seguidor leva sólido tecnología & inducción
- La elevada rigidez permite una prestación quieta y sin vibraciones
- Junta tórica sellada para operar sin pérdidas en cualquier posición



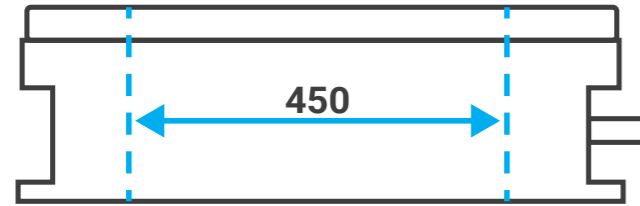
# HT Series

Sizes: 300-365-545

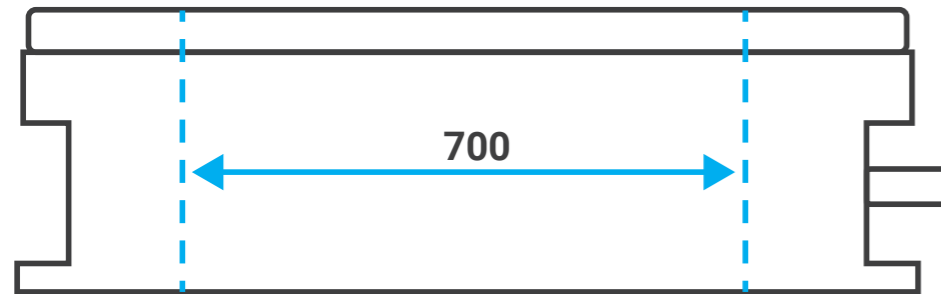
Stops: from 4 to 36+



[HT 300]



[HT 365]



[HT 545]

## 🇬🇧 FEATURES

- Servo drive compatible for flexible positioning
- Crossed roller bearing support of output flange
- Large stationary through bore
- Friction Cam Follower Technology & Induction hardened cam profile
- Smooth & controlled rotary motions, backlash free
- High accuracy, repeatability, flexibility and reliability

## 🇮🇹 CARATTERISTICHE TECNICHE

- Possibilità di funzionamento con servomotore e conseguenti possibilità di posizionamenti illimitati
- Cuscinetto di base a rulli incrociati
- Foro centrale passante di grandi dimensioni
- Perni folli a strisciamento rigidi e performanti e profilo camma temprato a induzione a controllo numerico
- Movimento dolce ed esente da giochi e vibrazioni
- Elevata precisione flessibilità ed affidabilità

## 🇩🇪 MERKMALE

- Grenzenlos flexible Positionierung – kompatibel für Servomotoren
- Abtriebsflansch unterstützt durch überdimensioniertes Kreuzrollenlager
- Große stationäre Mittenbohrung
- Solide Kurvenrollentechnologie und CNC induktiv gehärtete Kurvenprofile

# OPEN CENTER RING TABLES

*The HT series are a large open center ring style indexing & positioning tables designed for heavy duty industrial applications.*



- Sanfte und kontrollierte Bewegungsabläufe, spielfrei
- Hohe Genauigkeit, Wiederholbarkeit, Flexibilität und Zuverlässigkeit

## 🇫🇷 CARACTERISTIQUES

- Compatible avec servo-commande – positionnement avec flexibilité illimitée
- Support de roulement à rouleaux croisés de la bride de sortie

- Grand trou de passage stationnaire
- Technologie des poussoirs de came reconnue et profil de came durci par induction
- Mouvements rotatifs contrôlés et sans à-coups, sans jeu
- Haute précision, répétabilité, flexibilité et fiabilité

## 🇪🇸 CARACTERÍSTICAS

- Servo accionamiento compatible - ubicación flexible ilimitada
- Soporte rodamiento cruzado para brida salida
- Amplia estacionaria a través orificio
- Perfil leva endurecido seguidor leva sólido tecnología & inducción
- Movimientos rotatorios suaves & controlados, sin reacción
- Precisión elevada, repetibilidad, flexibilidad y fiabilidad

# PACKAGES

*Standard Index Table Packages for fast delivery requirements. All components are kept in stock and are readily available and provide the shortest delivery time in the market.*



Cost effective



Fast delivery



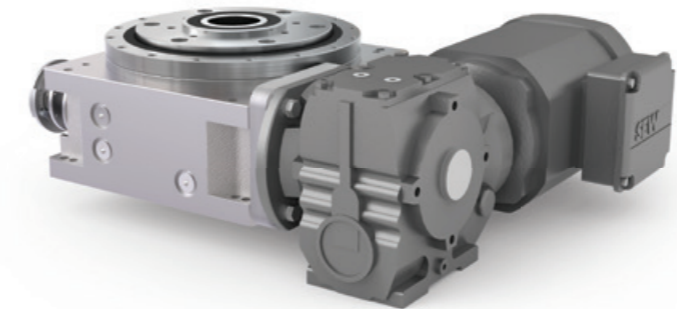
Save engineering  
design time



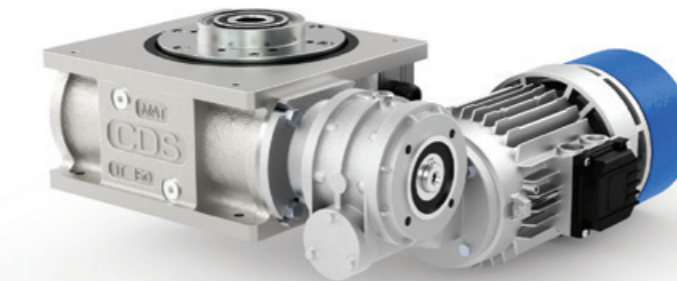
The **FTP** Series ring tables provide a large open center in a low profile and rigid design. Standard motor packages are readily available for all model sizes.



The **TRP** Series are designed for accurate and repeatable rotary indexing applications this heavy duty design provides a precision barrel cam set, solid cam follower technology and oversized cross roller bearing to support the output turret.



The **TRW** Series are industrial rotary indexing tables designed for extra heavy duty applications, particularly in automotive manufacturing processes. Driven by reliable SEW gearmotors.



The **ITP** Series cam indexing table packages are designed to meet customer requirements for quick delivery and provide all of the accuracy, quality and durability that CDS Indexing drives are known for.

# 10 REASONS WHY CDS IS THE BEST CHOICE

*Cam Driven Systems is backed by over sixty years of engineering and manufacturing leadership and offers the most diverse range of products in the industry.*

*Our continual investments in new technologies ensure that we will continue to deliver the precision and reliability needed to drive today's most advanced manufacturing systems.*



Easy to install



High Speed



Zero Maintenance



High Accuracy



Lubed for life



Customizable



Wide Range of products



Extended Warranty



Fast Delivery



Zero Backlash



## OUR PRESENCE

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### GATE Deutschland GmbH

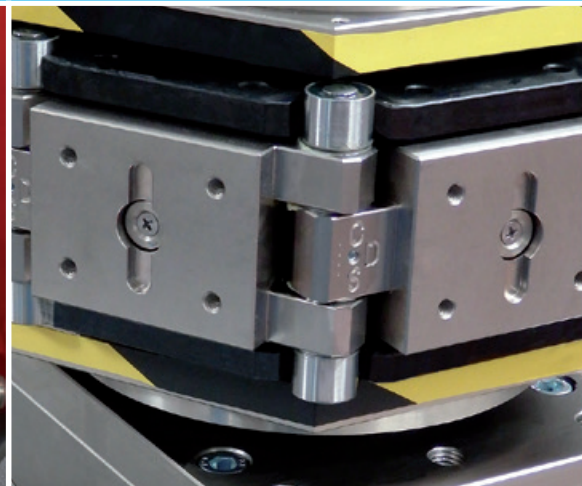
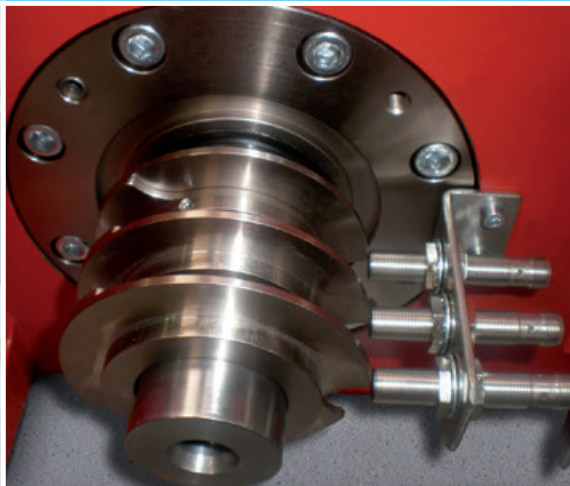
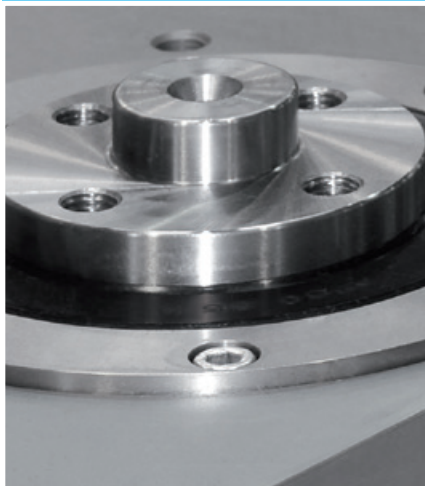
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