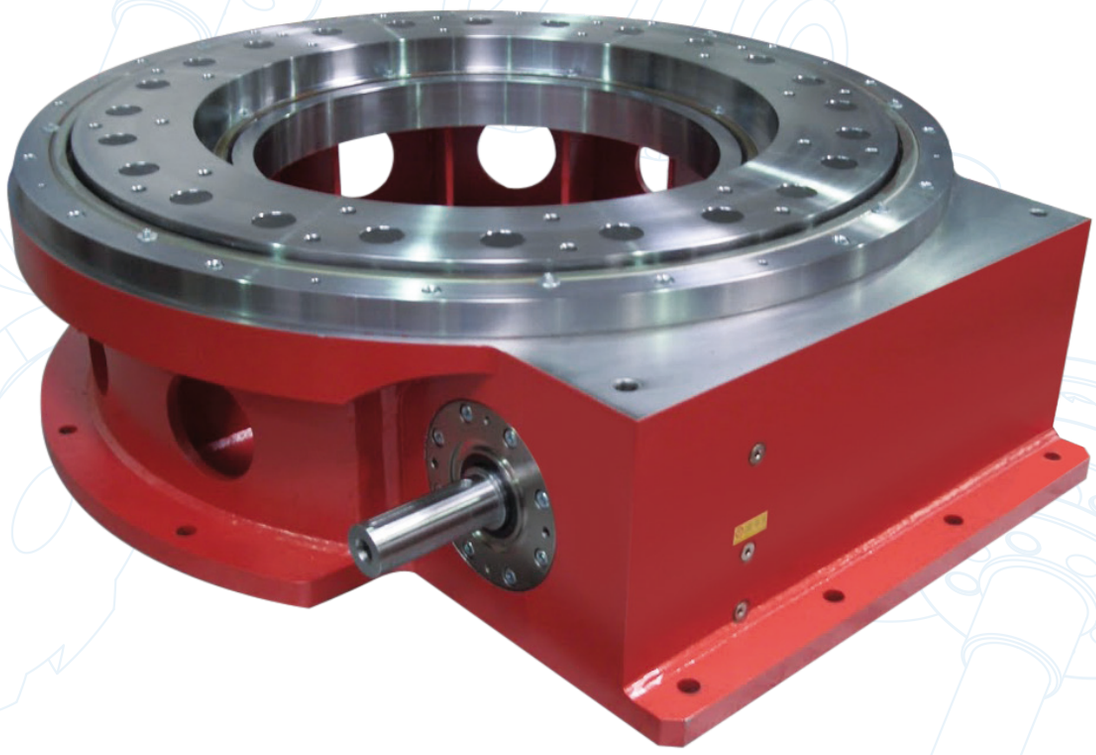
INDEXING & TRANSFER
CDS
Cam Driven Systems

Your Global Partner for Cam Motion Technology

FT



RING TABLE
TAVOLE AD ANELLO
RING DREHTISCHE
TABLES ROTATIVES
MESAS GIRATORIAS

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C013/3 - 04/2015



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FT

English

TECHNICAL DESCRIPTION

- **Sizes:**
  FT 320-450-590-850-1350 iron alloy housing,painted red RAL3000

- **Stops:**
  16,24,30,36

The FT ring tables utilize an internal cylindrical barrel cam mechanism which meets the following requirements:

- Self supported housing structure eliminates need for additional machine base or other support
- Wide open center provides more internal free space for your tooling and equipment
- Four-points contact bearing on output support which minimizes friction and operating temperature for high efficiency
- **Without backlash**
- **Can be used vertically and over-under, except FT-1350**
- **3D models available on the web**

Italiano

DESCRIZIONE TECNICA

- **Grandezze:**
  FT 320-450-590-850-1350 carcassa in ghisa, verniciatura rosso RAL3000

- **Stazioni:**
  16,24,30,36

Le tavole FT sono meccanismi a camma cilindrica che soddisfano i seguenti requisiti:

- Struttura autoportante che non necessita di supporti addizionali. Ciò rende più semplice l'utilizzo e fornisce migliore planarità e ripetibilità
- Grande foro centrale passante completamente utilizzabile
- Cuscinetto a 4 punti di contatto posizionato sul diametro esterno del disco divisore. In questo modo si minimizzano gli attriti e le temperature di esercizio migliorando il rendimento dell'unità
- **Assenza di giochi**
- **Possono lavorare in verticale e sotto-sopra, eccetto FT-1350**
- **Modelli 3D disponibili sul web**

Deutsch

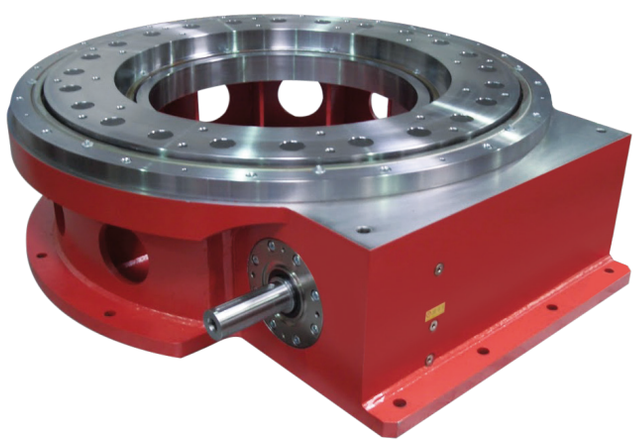
TECHNISCHE BESCHREIBUNG

- **Größen:**
  FT 320-450-590-850-1350 Gehäuse aus Gusseisen, lackiert rot RAL3000

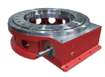
- **Stationen:**
  16,24,30,36

Die FT Rundschalttische werden durch einen zylindrischen Nocken angetrieben und besitzen folgende Eigenschaften:

- Eine selbsttragende Struktur bei der keine zusätzlichen Adapter benötigt werden. Damit werden sowohl Anwendungen erleichtert als auch eine erhöhte Steifigkeit und eine verbesserte Planarität erreicht
- Große durchgängige Mittenöffnung, komplett offen und gebrauchsfertig
- Externes Drahtwälzlager am äußeren Durchmesser der Ausgangsscheibe. Dadurch wird die Reibung und Betriebstemperatur gesenkt und die Effizienz gesteigert
- **Ohne spiel**
- **Waagerechte und senkrechte Einbauposition möglich, außer FT-1350**
- **3D-Modelle im Web verfügbar**



INDEXING & TRANSFER CDS® Cam Driven Systems



Française

DESCRIPTION TECHNIQUE

- **Dimension:**
  FT 320-450-590-850-1350 carcasse en fonte, peinture rouge RAL3000

- **Stations:**
  16,24,30,36

Les tables FT sont des mécanismes à came cylindrique qui satisfont les exigences suivantes:

- Structure auto portante qui ne nécessite pas de supports supplémentaires. Ceci facilite l'utilisation et fournit une meilleure planéité et répétibilité

- Grand trou traversant central complètement utilisable

- Roulement à 4 points de contact positionné sur le diamètre externe du disque diviseur. De cette façon, les frictions et les températures d'exercice sont minimisées et le rendement de l'unité amélioré

- **Sans jeux**

- **Position de montage vertical ou horizontal, excepté FT-1350**

- **Modèles 3D disponibles sur le web**

Español

DESCRIPCIÓN TÉCNICA

- **Dimensiones:**
  FT 320-450-590-850-1350 carcasa de fundición, pintura roja RAL3000

- **Estaciones:**
  16,24,30,36

Las mesas FT son mecanismos con levas cilíndricas y satisfacen las siguientes necesidades:

- Estructura auto-apoyada donde no son necesarios los marcos adicionales para la colocación. Las aplicaciones se hacen más fáciles y la rigidez se ve afectada positivamente

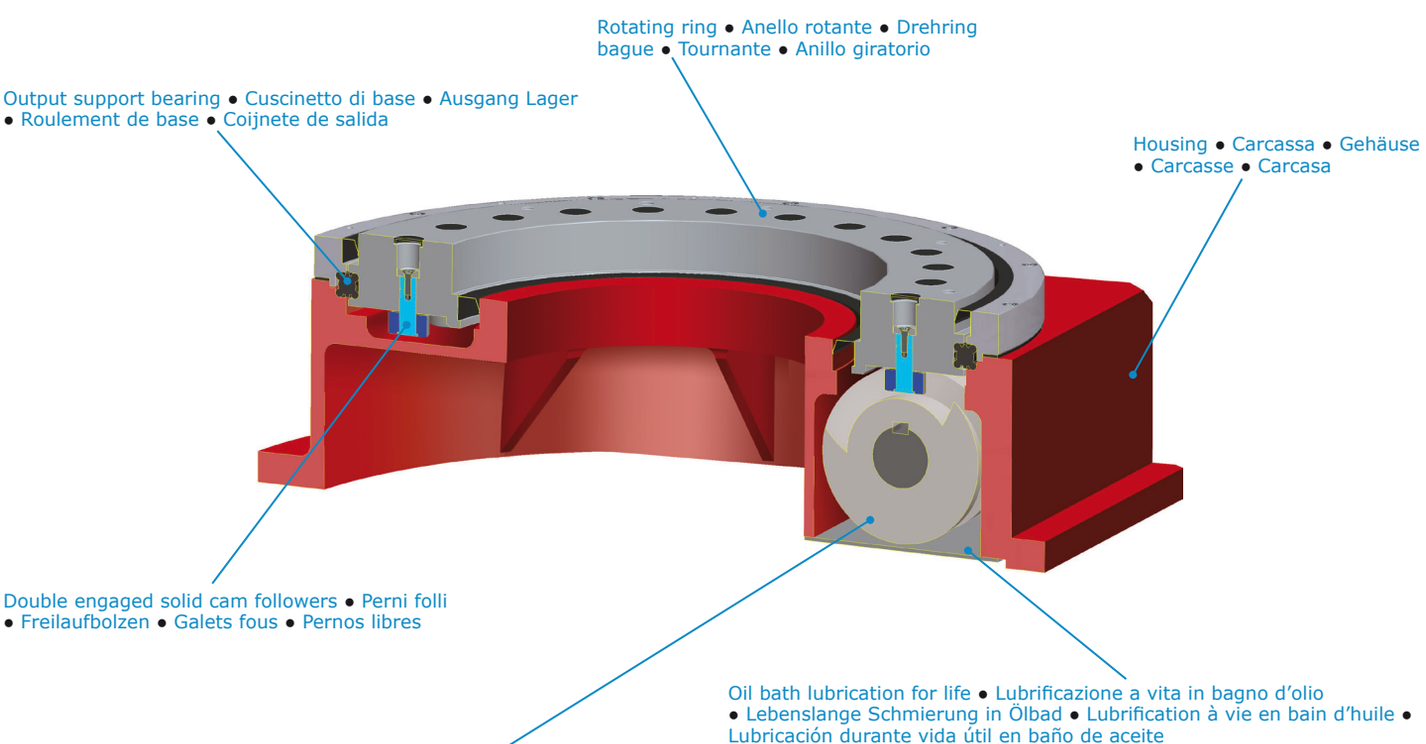
- Gran agujero central listo para ser usado

- Cuatro puntos de salida soportando el diámetro externo del anillo de salida. La fricción y la temperatura de funcionamiento se minimizan y la eficacia se aumenta

- **No juego**

- **Posición de trabajo horizontal o vertical, excepto FT-1350**

- **Modelos en 3D disponibles en el sitio Web**





FT

English

LOADS ON OUTPUT FLANGE

Fa = Axial force (N)
Fr = Radial Force (N)
Mr = Overturning moment (Nm)
b,dr = Distance (m)

Mr = Fr • b
Mr = Fa • b

Italiano

CARICHI SUL DIVISORE

Fa = Forza assiale (N)
Fr = Forza radiale (N)
Mr = Momento ribaltante (Nm)
b,dr = Distanza (m)

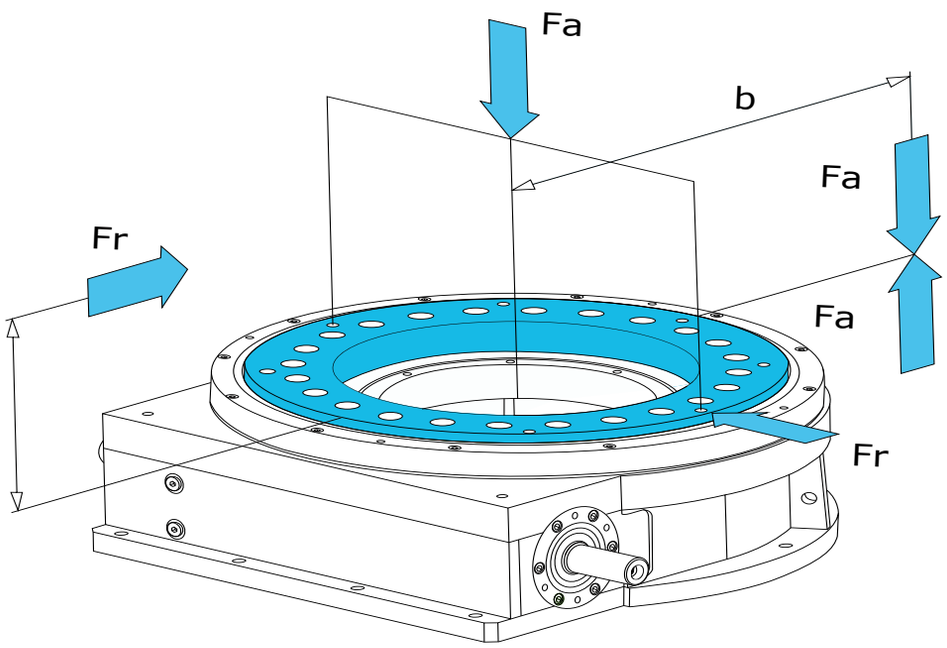
Mr = Fr • b
Mr = Fa • b

Deutsch

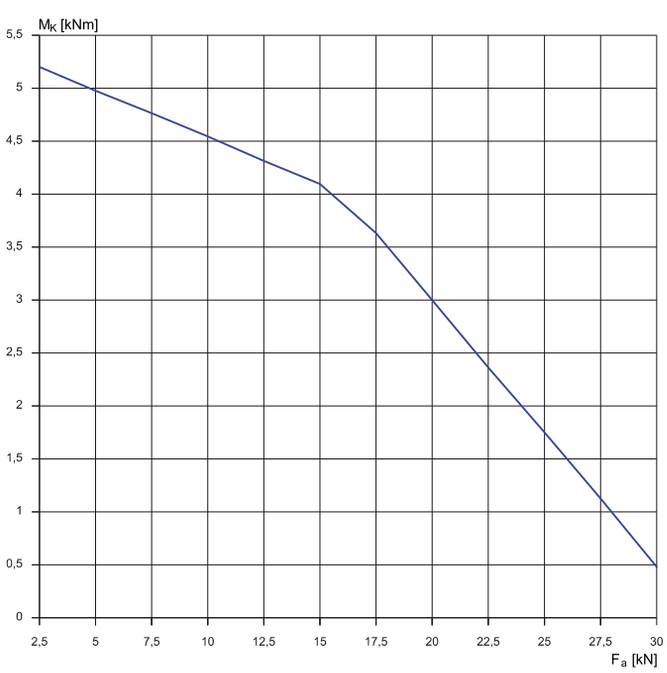
LASTEN AUF DEM TEILGERÄT

Fa = Längskraft (N)
Fr = Radialkraft (N)
Mr = Kippmoment (Nm)
b,dr = Abstand (m)

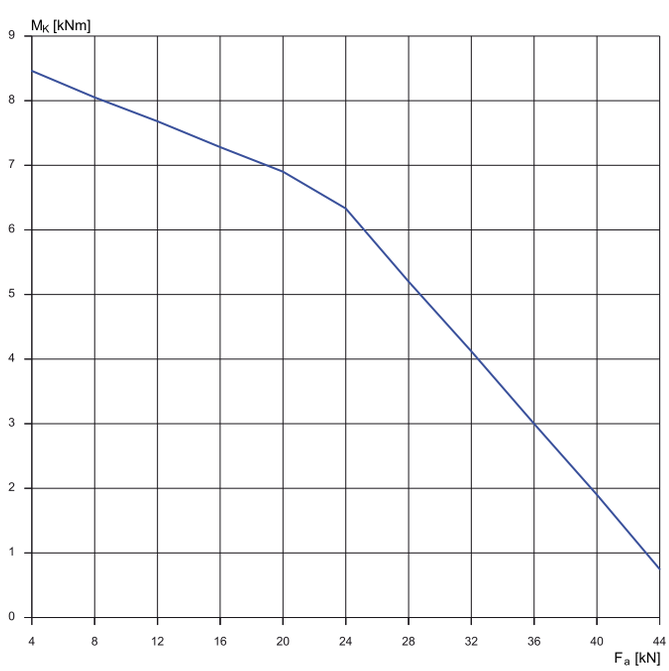
Mr = Fr • b
Mr = Fa • b



FT 320



FT 450



INDEXING & TRANSFER CDS® Cam Driven Systems



Française

CHARGES SUR LE DIVISEUR

Fa = Force axiale (N)
Fr = Force radiale (N)
Mr = Moment renversé (Nm)
b,dr = Distance (m)

Mr = Fr • b
Mr = Fa • b

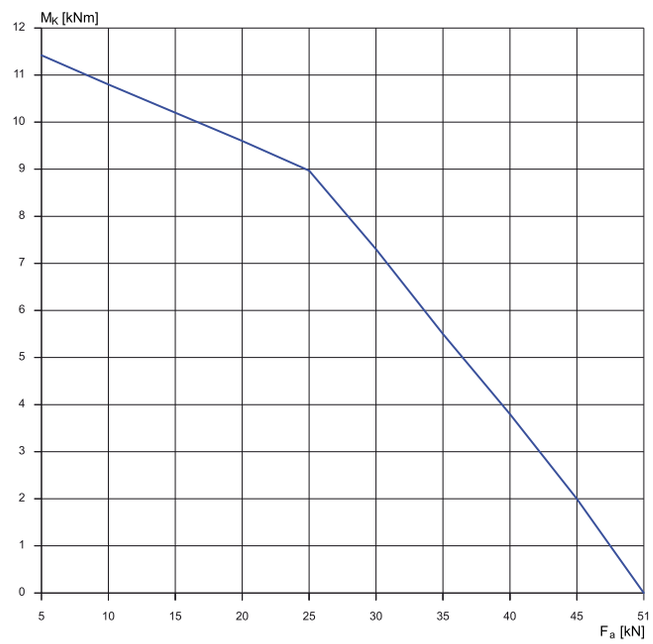
Español

CARGAS EN EL DIVISOR

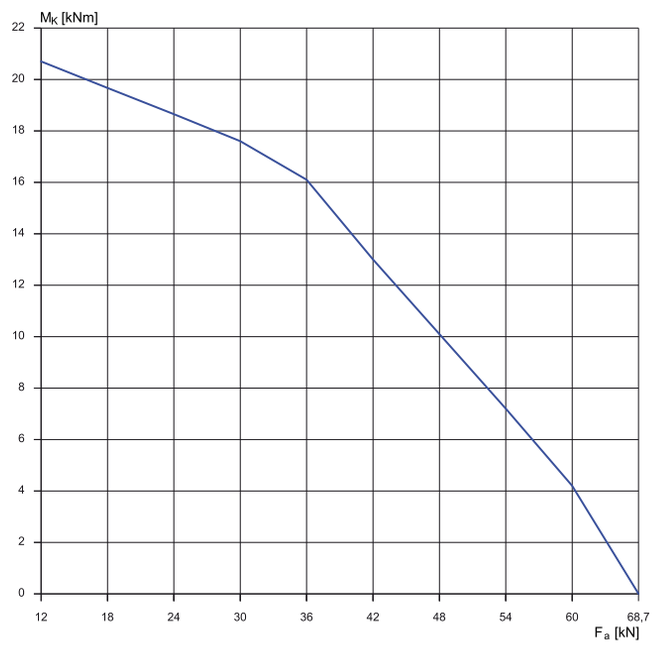
Fa = Fuerza axial (N)
Fr = Fuerza radial (N)
Mr = Momento de vuelco (Nm)
b,dr = Distancia (m)

Mr = Fr • b
Mr = Fa • b

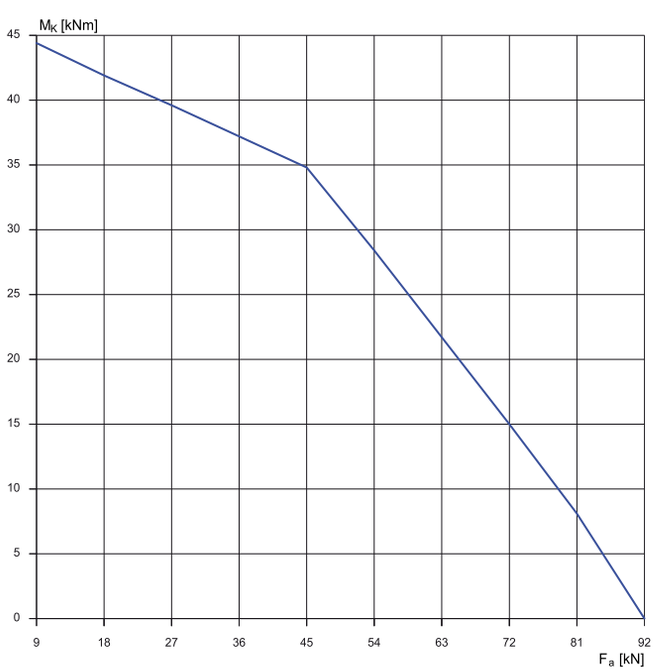
FT 590



FT 850



FT 1350



- The diagram shows the combination of axial load and tilt moment for a calculated lifetime of 10.000h at rpm*. Radial loads are not considered.
- Il grafico mostra la combinazione del carico assiale e del momento ribaltante per una vita di 10.000h calcolato in rpm*. I carichi radiali non sono considerati.
- Das Diagramm zeigt das Verhätnis zwischen Längskraft und Kippmoment für eine berechnete Lebensdauer von 10.000 Stunden bei rpm*. Radialkräfte sind nicht berücksichtigt.
- Le graphique montre la combinaison du chargement axiale et du moment de renversement pour une durée de vie de 10.000h calculées en rpm*. Les chargements radiaux ne sont pas pris en compte.
- El gráfico muestra la combinación de la carga axial y del momento torsor para un cálculo de vida en 10.000 horas a rpm*. Las cargas radiales no están consideradas.

***RPM:**

FT-320	6,6rpm
FT-450	6,6rpm
FT-590	5,5 rpm
FT-850	3,9rpm
FT-1350	2,6rpm



FT

TECHNICAL DATA • DATI TECNICI • TECHNISCHE ANGABEN • DONNEES TECHNIQUES • DATOS TÉCNICOS

ENG	Type	Stops No.	Index angle	Maximum output torque - Mtu (Nm) Speed (rpm)				Motion coefficients			Ptc. rad.	Roller Ø	Inertia	Mch.frt (•)
								Acc.	Speed	Disp.				
ITA	Tipo	N° divisioni	Angolo traslazione	Max. momento torcente - Mtu (Nm) Velocità (rpm)				Coefficienti di moto			R. prim.	Ø rullo	Inerzia	Attr. m (•)
								Acceleraz.	Velocità	Trasmis.				
DEU	Typ	Anzahl Teilun.	Index Winkel	Max. Drehmoment - Mtu (Nm) Schnelligkeit (rpm)				Bewegungskoeffizient			Teilkreis r.	Rollen Ø	Trägheit	Reib.m (•)
								Beschleun.	Geschwind.	Übertrag.				
FRA	Modèle	Nombre de divisions	Angle de transl.	Couple maxi admis Mtu (Nm) Vitesse (rpm)				Coefficients de mouvement			R. Moyen	Ø Galet.	Inertie	Frot.m (•)
								Accélér.	Vitesse	Transmis.				
ESP	Tipo	Numero division.	Ángulo de traslac.	Max. momento torsión - Mtu (Nm) Velocidad (rpm)				Coeficientes de movimientos			R. prim.	Ø rodillo	Inercia	Roc. m (•)
								Acelerac.	Velocidad	Transmis.				
		S	(a°)	25 rpm	50 rpm	75 rpm	100 rpm	Ca	Cv	Ck	Rp (mm)	Dr (mm)	Jc (kgm²)	Mam (Nm)
FT	320	16	120	670	670	480	390	5.53	1.76	5.46	160	30	0.72	28.9
FT	450			1300	1300	870	780	5.53	1.76	5.46	225	35	3.30	45.6
FT	590			2000	2000	1400	1200	5.53	1.76	5.46	295	40	8.03	69.7
FT	850			7250	7250	5100	4300	5.53	1.76	5.46	425	60	34.50	82.7
FT	1350			8200	8200	-	-	5.53	1.76	5.46	675	50	190.00	119.5
FT	320	24	90	440	330	280	240	5.53	1.76	5.46	160	20	0.72	11.9
FT	450			730	540	450	390	5.53	1.76	5.46	225	25	3.30	24.6
FT	590			1250	910	730	660	5.53	1.76	5.46	295	30	8.03	35.6
FT	850			5400	4200	3300	2900	5.53	1.76	5.46	425	50	34.50	103.3
FT	1350			8000	5800	-	-	5.53	1.76	5.46	675	60	190.00	220.0
FT	320	30	90	375	280	220	220	5.53	1.76	5.46	160	16	0.72	10.0
FT	450			690	510	410	380	5.53	1.76	5.46	225	20	3.30	20.3
FT	590			1050	790	620	570	5.53	1.76	5.46	295	30	8.03	45.2
FT	850			4150	3100	2500	2300	5.53	1.76	5.46	425	40	34.50	87.0
FT	1350			9400	7800	-	-	5.53	1.76	5.46	675	60	190.00	121.6
FT	320	36	75	292	195	165	156	5.53	1.76	5.46	160	14	0.72	10.0
FT	450			650	420	375	350	5.53	1.76	5.46	225	20	3.30	20.3
FT	590			980	650	560	-	5.53	1.76	5.46	295	25	8.03	45.2
FT	850			3900	2600	2200	-	5.53	1.76	5.46	425	40	34.50	87.0
FT	1350			7000	4700	3400	-	5.53	1.76	5.46	675	50	190.00	121.6

(•) Starting torque; tolerance on the values indicated ± 15%
Momento di attrito di 1° stacco;
Toleranz bzgl. der Werte ± 15%
Moment de frottement premier détachem.; tolérance valeurs ± 15%
Momento de friccion 1° arranque; tolerancia sobre valores ± 15%

Values referred to the worst running conditions. Equivalent service factor = 1.75 already applied
Valori riferiti alle peggiori condizioni di utilizzo. Fattore di servizio applicato equivalente = 1.75
Werte mit Bezug auf die ungünstigsten Anwendungsbedingungen äquivalenter Betriebsfaktor = 1.75
Valeurs se référant aux pires conditions d'utilisation. Facteur de service = 1.75
Valores referidos a la peores condiciones de uso. Factor de servicio equivalente = 1.75

The schedules show some minimum and intermediate reference values.
Also possible: number of stops not indicated in the schedule, index angles not indicated in the schedule, different and customized motion.

Le tabelle riportano alcuni valori minimi ed intermedi di riferimento.
Sono realizzabili: numero di divisioni non a tabella, angoli di camma non a tabella, leggi di moto specifiche per l'applicazione.

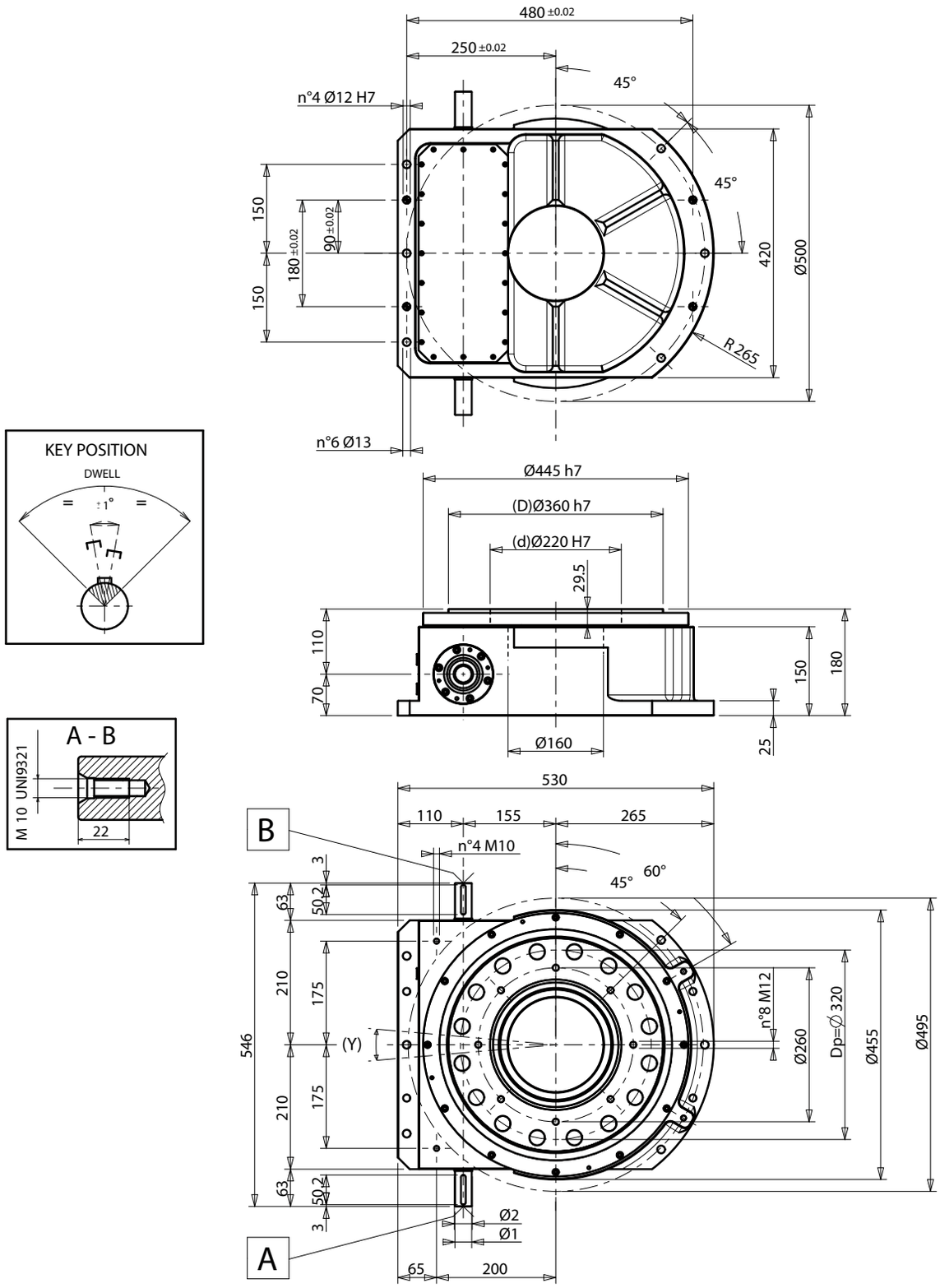
In den Tabellen werden einige niedrige und mittlere Bezugswerte aufgeführt.
Möglich sind: Anzahl der nicht in der Tabelle aufgeführten Teilungen, nicht in der Tabelle aufgeführte Nockenwinkel, Anwendungsspezifische Bewegungsgesetze.

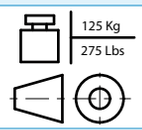
Les tableaux reportent des valeurs de référence mini. et moyennes.
Possibilités: nombre de divisions non comprises dans tableau, angles de came non compris dans tableau, loi de mouvement spéciale.

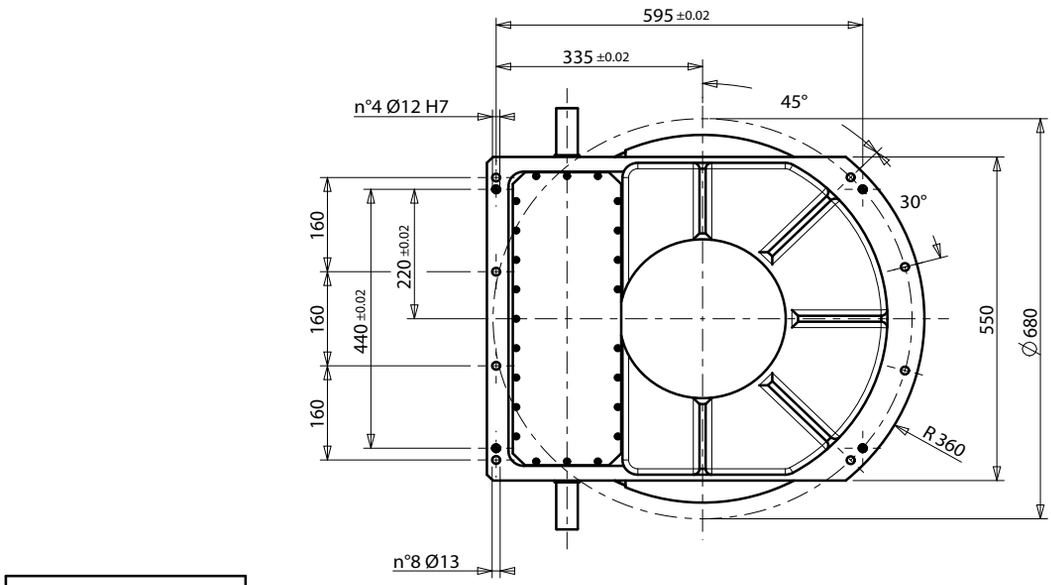
Las tablas aportan algunos valores mínimos e intermedios de referencia.
Se pueden realizar: número de divisiones no incluidas en la tabla, ángulos de leva no incluidas en la tabla, leyes de movimiento específicas para la aplicación.

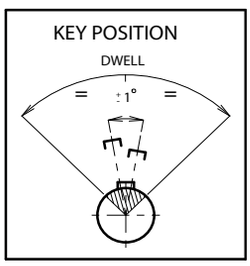
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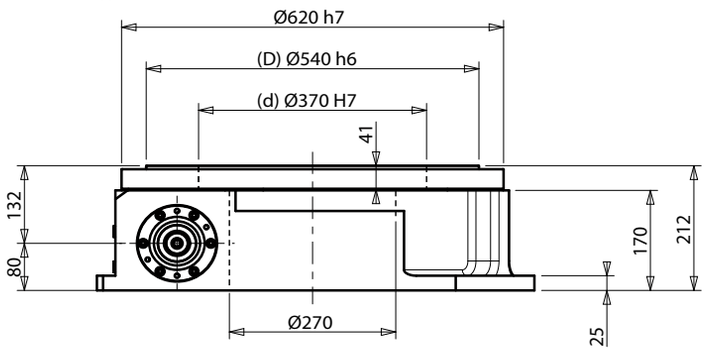


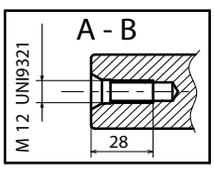


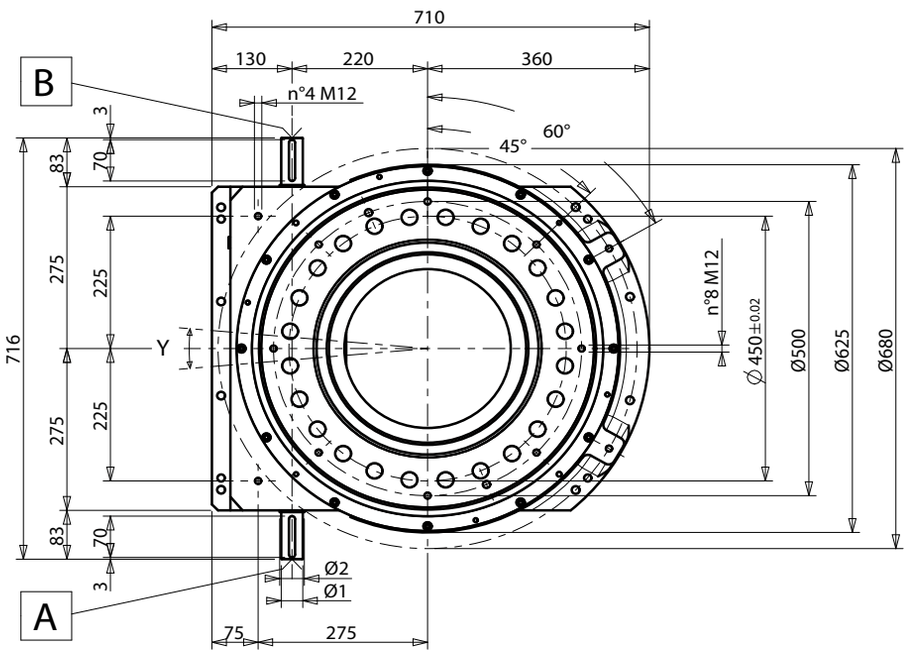
FT 320	Reference Riferimento Bezug Référence Referencia	Concentricity Concentricità Konzentrizität Concentricité Concentricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability - Ripetibilità Wiederholbarkeit - Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición orificios roscados
				Standard	2 cycles	3 cycles	
	d	± 0.05 mm					Y ± 0.6 mm ± 16’
	D		± 0.05 mm				
	Dp			± 0.05 mm ± 1’14”	± 0.06 mm ± 1’17”	± 0.07 mm ± 1’30”	





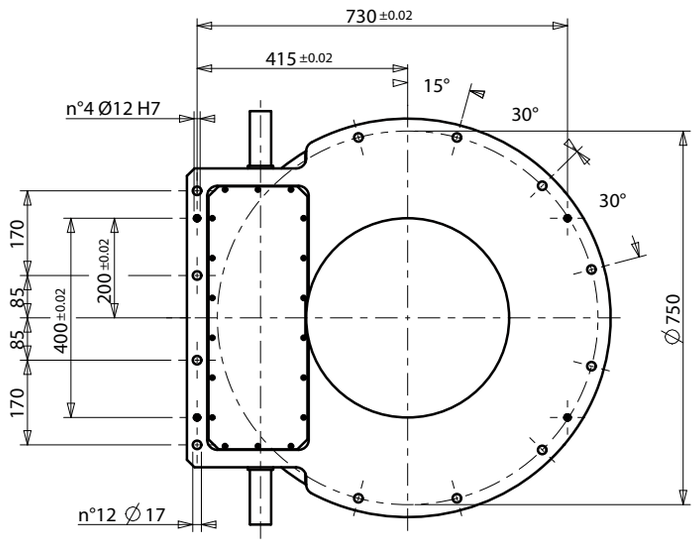


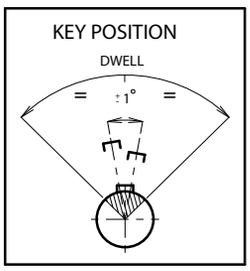


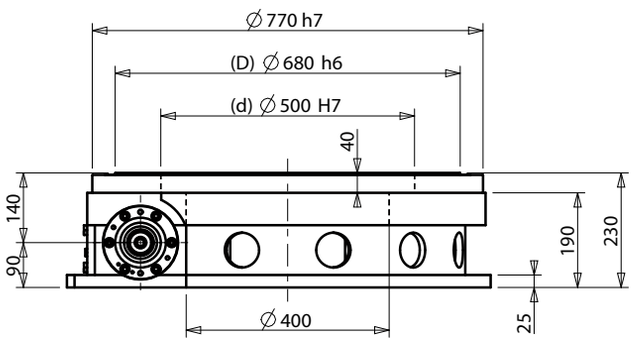


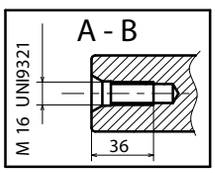
FT 450	Reference Riferimento Bezug Référence Referencia	Concentricity Concentricità Konzentrizität Concentricité Concentricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability - Ripetibilità Wiederholbarkeit - Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición orificios roscados
				Standard	2 cycles	3 cycles	
225 kg 496 lbs	d	± 0.05 mm					Y ± 0.7 mm ± 10’
	D		± 0.05 mm				
	Dp			± 0.05 mm ± 46’’	± 0.06 mm ± 55’’	± 0.07 mm ± 1’14’’	

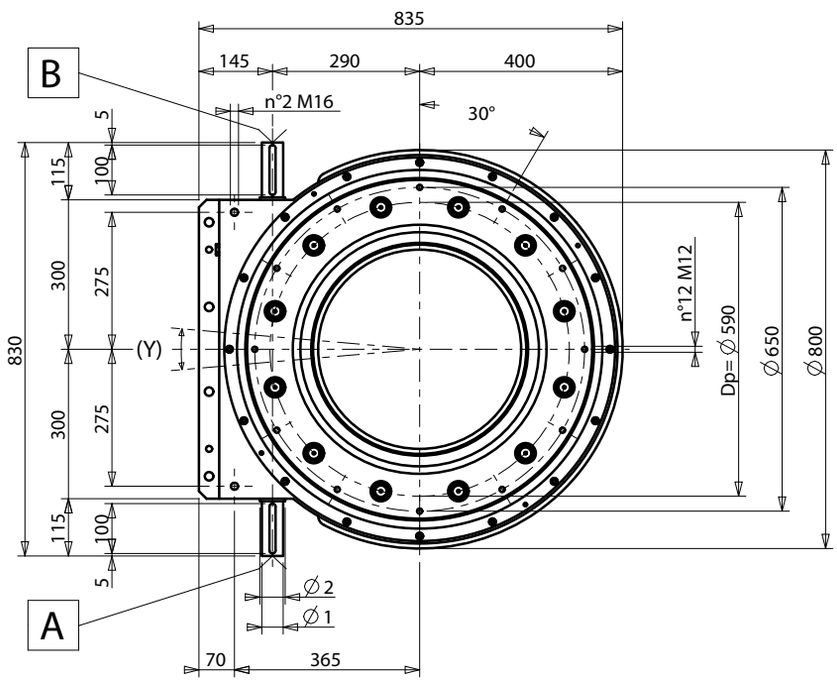




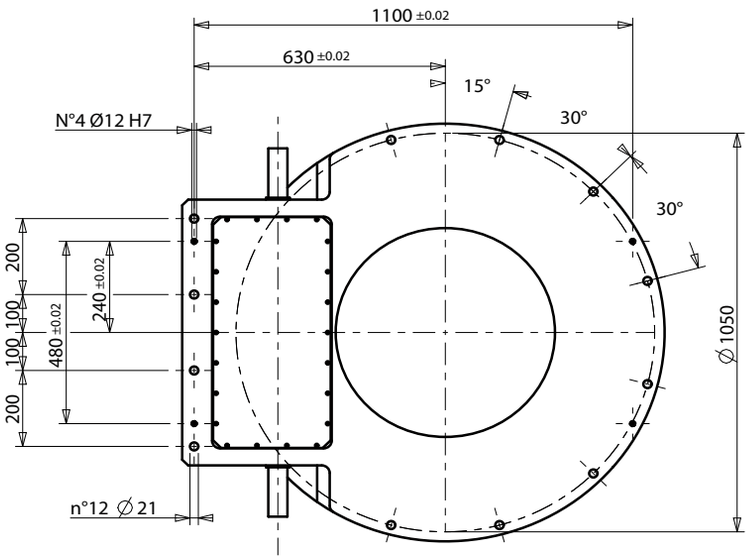


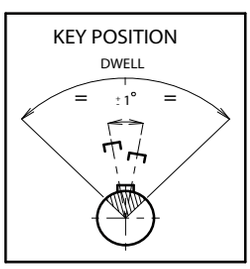


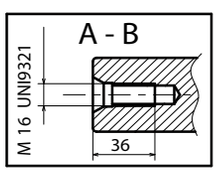


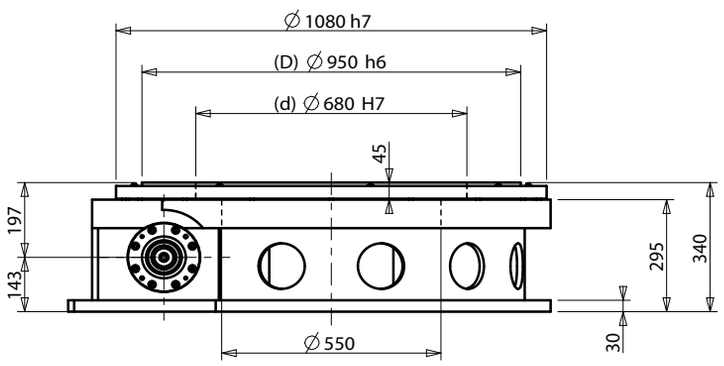


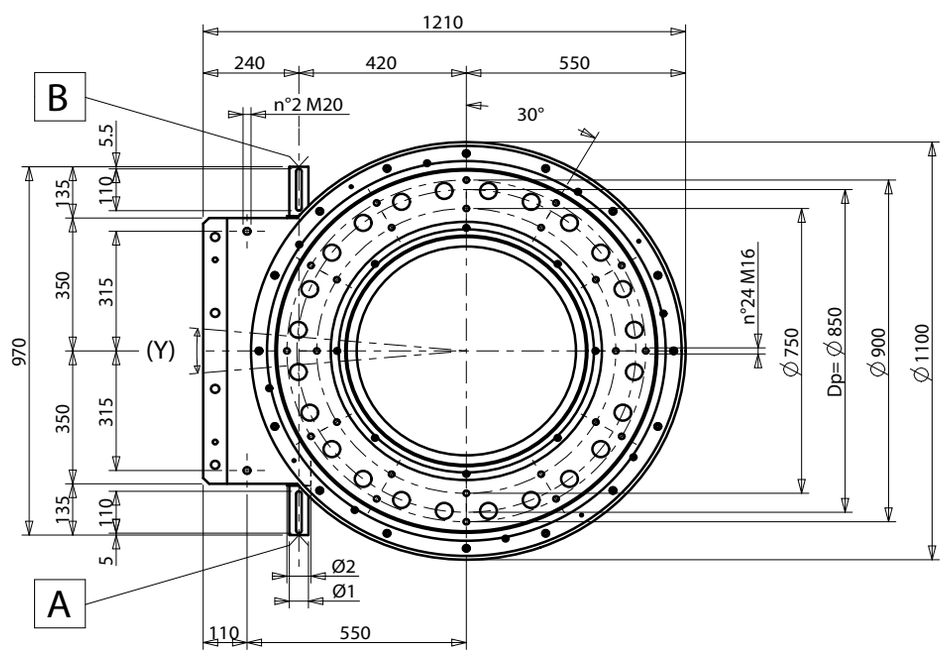
FT 590	Reference Riferimento Bezug Référence Referencia	Concentricity Concentricità Konzentrizität Concentricité Concentricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability - Ripetibilità Wiederholbarkeit - Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición orificios roscados
				Standard	2 cycles	3 cycles	
320 Kg 704 Lbs	d	± 0.05 mm					Y ± 0.8 mm ± 10’
	D		± 0.05 mm				
	Dp			± 0.05 mm ± 35’’	± 0.06 mm ± 42’’	± 0.07 mm ± 49’’	





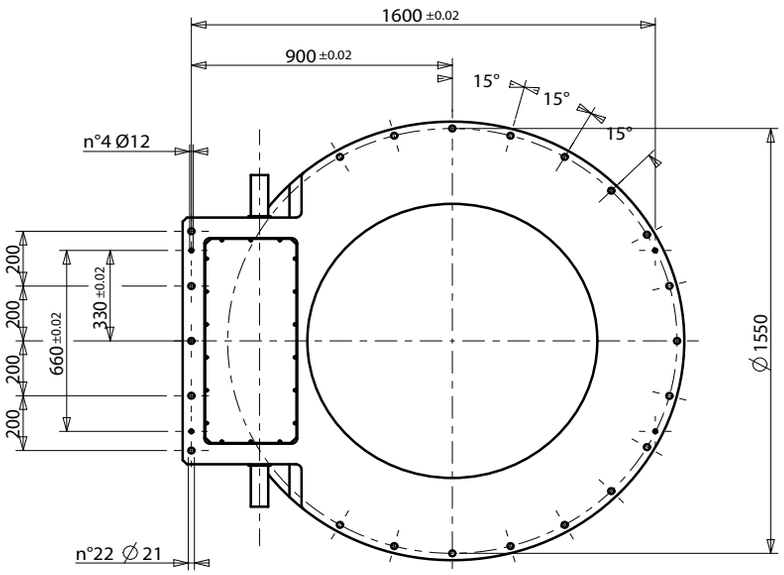


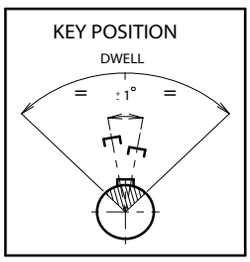


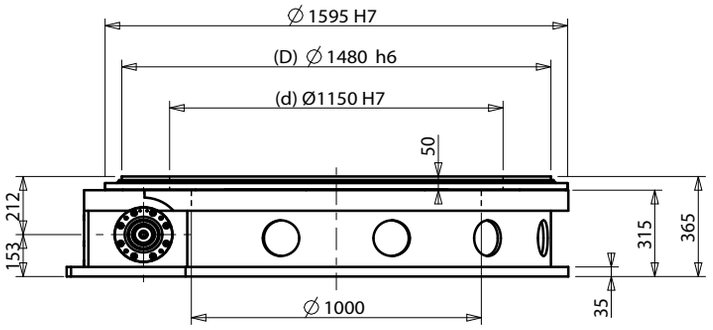


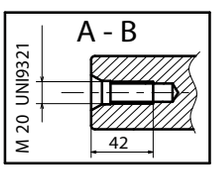
FT 850	Reference Riferimento Bezug Référence Referencia	Concentricity Concentricità Konzentrizität Concentricité Concentricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability - Ripetibilità Wiederholbarkeit - Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición orificios roscados
				Standard	2 cycles	3 cycles	
870 Kg 1914 Lbs	d	± 0.07 mm					Y ± 1 mm ± 8′
	D		± 0.07 mm				
	Dp			± 0.06 mm ± 29′′	± 0.07 mm ± 34′′	± 0.08 mm ± 39′′	

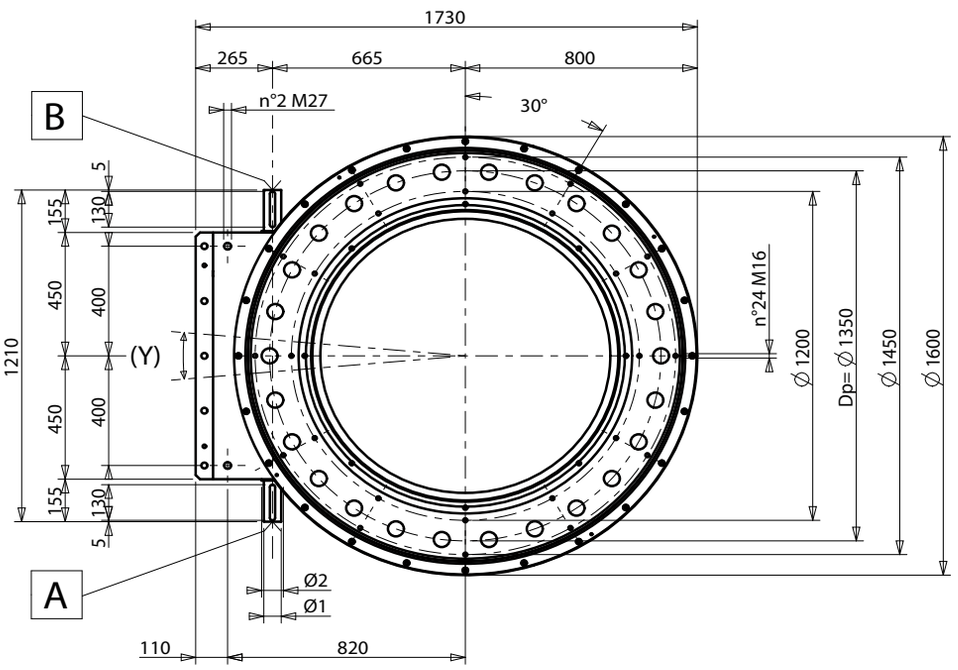






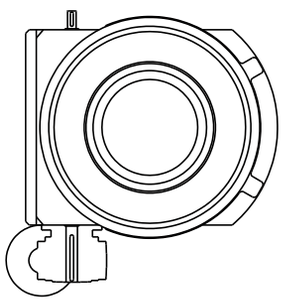
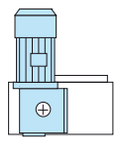
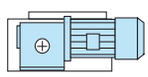
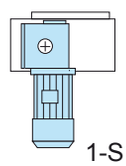
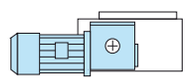
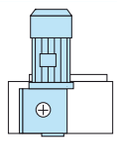
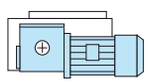
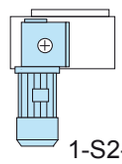
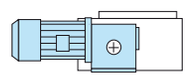


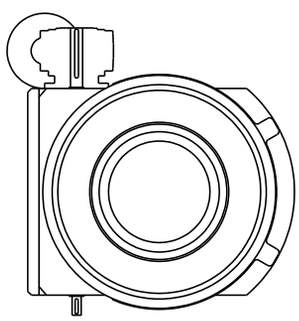
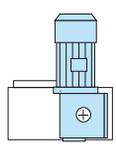
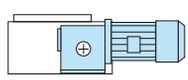
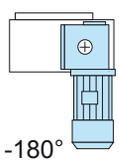
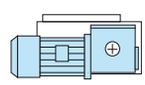
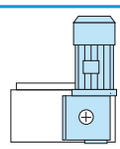
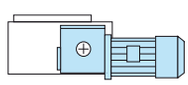
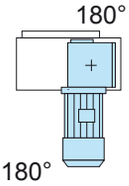
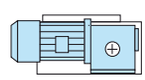




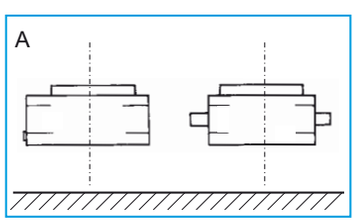
FT 1350	Reference Riferimento Bezug Référence Referencia	Concentricity Concentricità Konzentrizität Concentricité Concentricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability - Ripetibilità Wiederholbarkeit - Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición orificios roscados
				Standard	2 cycles	3 cycles	
1630 Kg 3586 Lbs	d	± 0.07 mm					Y ± 1.2 mm ± 7’
	D		± 0.07 mm				
	Dp			± 0.07 mm ± 21”	± 0.08 mm ± 25”	± 0.09 mm ± 28”	

FITTING POSITION REDUCER • POSIZIONE DI MONTAGGIO MOTORIDUTTORE • MONTAGEPOSITIONEN UNTERSETZERMOTOR • POSITION DE MONTAGE MOTORÉDUCTEUR • POSICIÓNES DE MONTAJE MOTORREDUCTOR

		0°	90°	180°	270°
1 	S1	 1-S1-0°	 1-S1-90°	 1-S1-180°	 1-S1-270°
	S2	 1-S2-0°	 1-S2-90°	 1-S2-180°	 1-S2-270°

		0°	90°	180°	270°
2 	S1	 2-S1-0°	 2-S1-90°	 2-S1-180°	 2-S1-270°
	S2	 2-S2-0°	 2-S2-90°	 2-S2-180°	 2-S2-270°

WORKING POSITION • POSIZIONE DI LAVORO • ARBEITSPOSITION • POSITION DE TRAVAIL • POSICIÓN DE TRABAJO



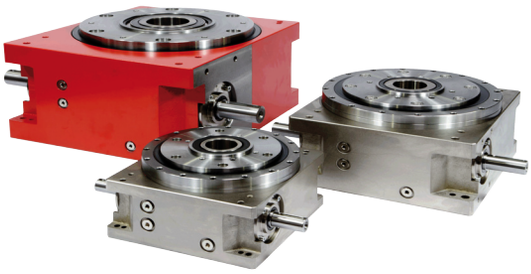
- Oil bath lubrication for life
- Lubrificazione a vita in bagno d'olio
- Lebenslange Schmierung in Ölbad
- Lubrification à vie en bain d'huile
- Lubricación durante vida útil en baño de aceite

NOTES: Size FT-1350 only A position
NB: Grandezza FT-1350 solo posizione A
NB: Große FT-1350 nur position A
NB: Dimension FT-1350 seule position A
NB: Tamaño FT-1350 única posición A

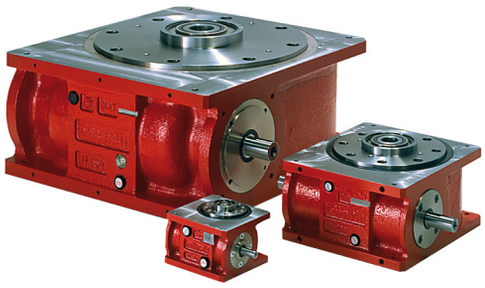
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CDS
Cam Driven Systems

Your Global Partner for Cam Motion Technology

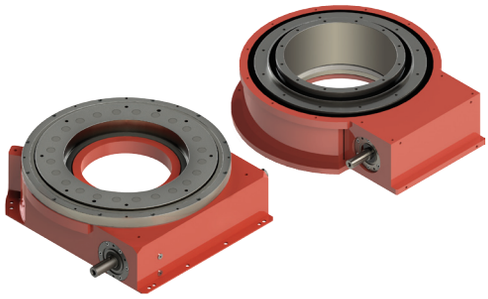
Our products...



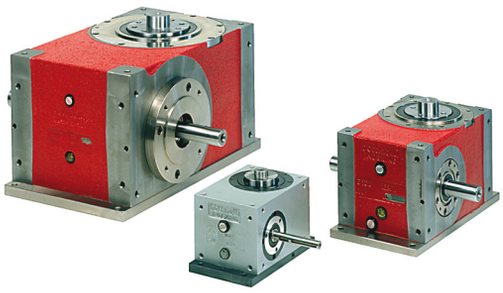
TR roller dial indexers



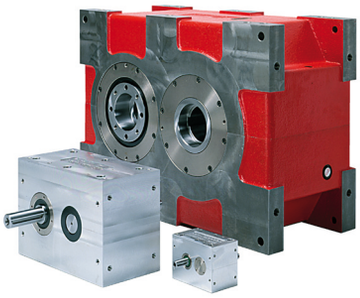
IT roller dial indexers



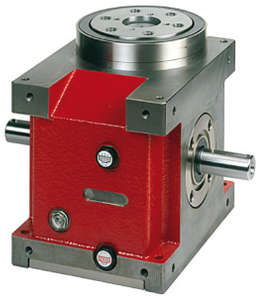
HT-FT ring tables



IG-IGA roller gear indexers



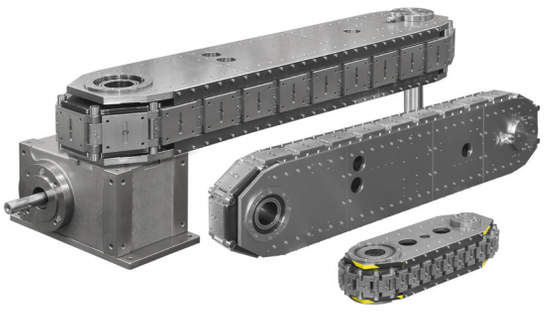
IP parallel indexers



HP roller dial indexers



MHP-LHP parts handlers



TSL-TL-TXL
precision link conveyors

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