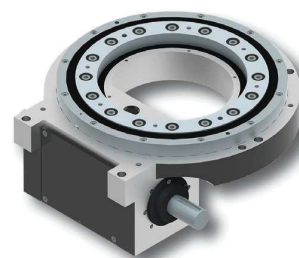


ANELLI ROTANTI

ROTARY RINGS



ANELLI ROTANTI

ROTARY RINGS

L'Anello Rotante è un dispositivo che trasforma il moto rotatorio continuo in entrata, in moto rotatorio intermittente in uscita.

Evoluzione delle tavole rotanti, ha come sostanziale differenza che la parte in rotazione non è il disco, ma la corona. Si contraddistingue per un'ampia apertura centrale, ideale per il montaggio di apparecchiature ausiliarie all'interno, un'esecuzione compatta ed un elevato grado di precisione.

L'anello ARI è stato progettato per movimentare parti impegnative per massa ed inerzia, per ciascun modello è possibile la soluzione con sosta indicizzata oppure a rotazione continua programmabile. Cuscinetti sovradimensionati, camma cilindrica e struttura progettata generosamente, garantiscono altissima efficienza in tutte le condizioni d'impiego ed un funzionamento silenzioso. Esecuzione con camma meccanica per ottimizzare precisione e ripetibilità.

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.

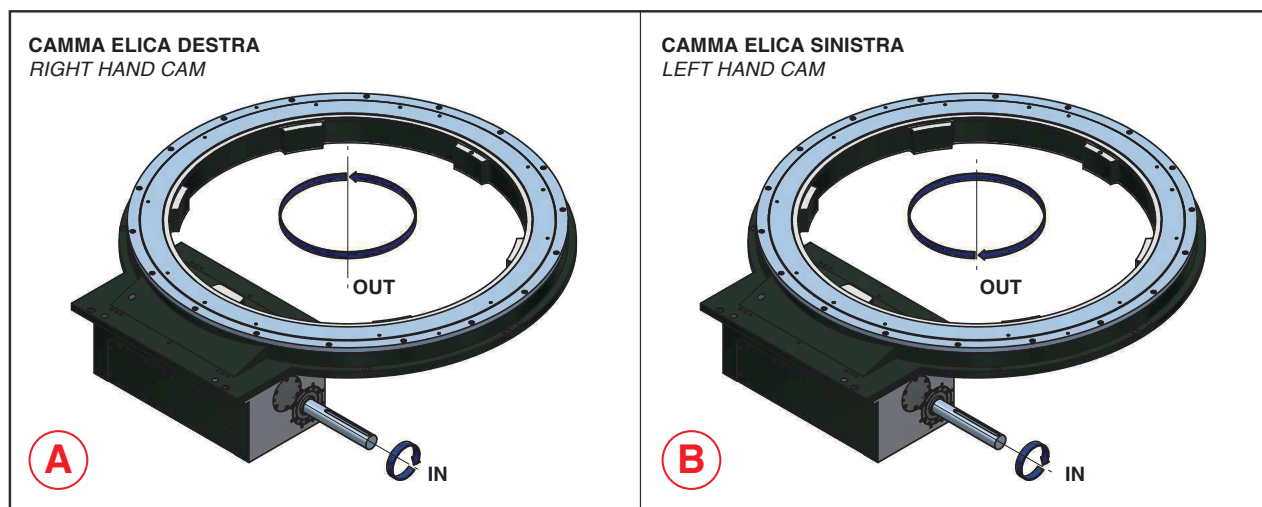
Senso di rotazione

Rotation direction

L'anello rotante in esecuzione standard è fornita con camma ad elica **destra**. La rotazione **oraria** dell'albero in entrata genera una rotazione intermittente **antioraria** in uscita (vedi figura "A" sotto). Per avere la direzione contraria è sufficiente invertire il moto all'ingresso. Con camma ad elica **sinistra** e rotazione **oraria** in ingresso si ha l'uscita in senso **orario** (vedi figura "B" sotto).

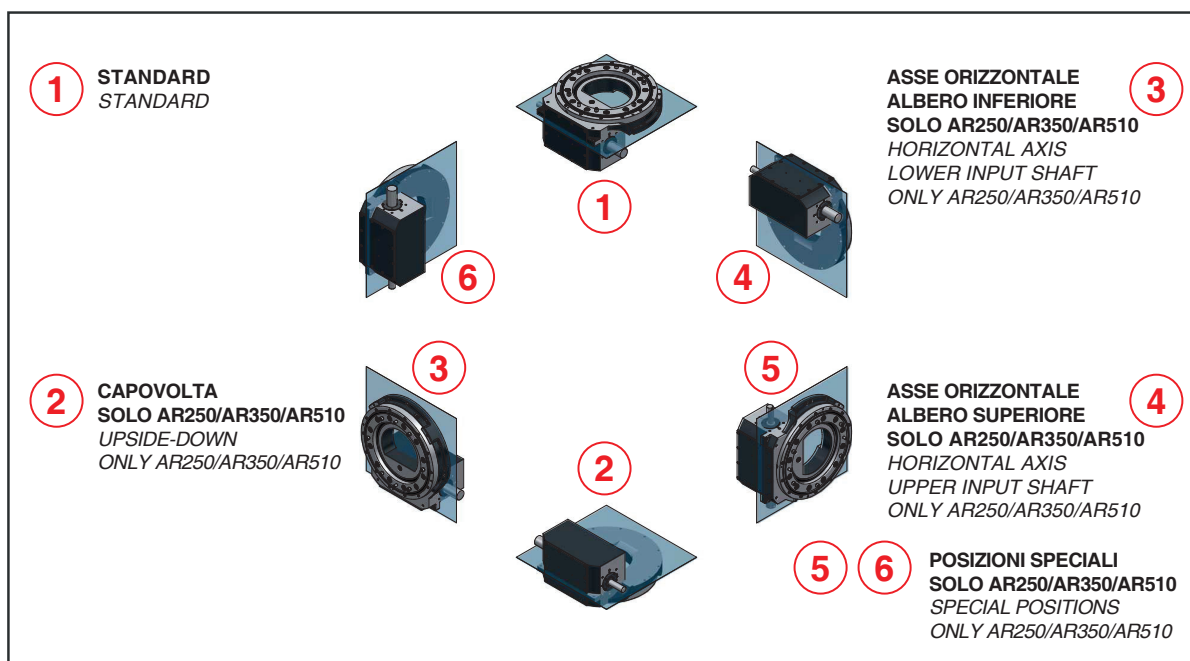
*Standard rotary rings is supplied with **right hand cam**. Clockwise rotation at inlet is transformed into **counter-clockwise** intermittent rotation at outlet (see picture below "A").*

*With **left hand cam** and **clockwise** rotation at inlet we have intermittent **clockwise** at outlet (see picture "B" below).*



Posizione di lavoro anello rotante

Index ring operating position



Posizione di montaggio unità motrice

Power drive unit assembling position

MONTAGGIO SUL LATO STANDARD <i>ASSEMBLING ON STANDARD SIDE</i>	A	A 90°
	B	D
MONTAGGIO SUL LATO OPPOSTO <i>ASSEMBLING ON OPPOSITE SIDE</i>	E	E 90°
	F	H

ROTARY RINGS

Rotary index ring

Stazioni stations	Angoli di camma Cam angles									
	90	120	150	180	210	240	270	300	330	345
2										
4										
6										
8										
12										
16										
18										
24										

ANGOLI DI CAMMA REALIZZABILI
FEASIBLE CAM TRANSFER ANGLES

Tolleranza Anelli Rotanti

Tolerances of indexing rings

Tolleranza di ripetibilità

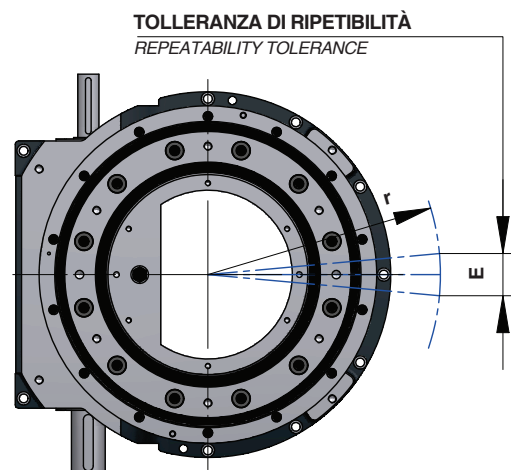
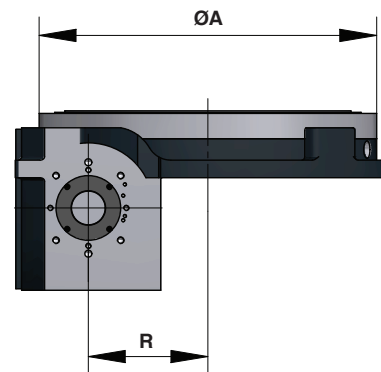
Repeatability tolerance:

- R : 87,5 mm
- EE: ±0,015 mm

Planarità disco/Disc flatness:

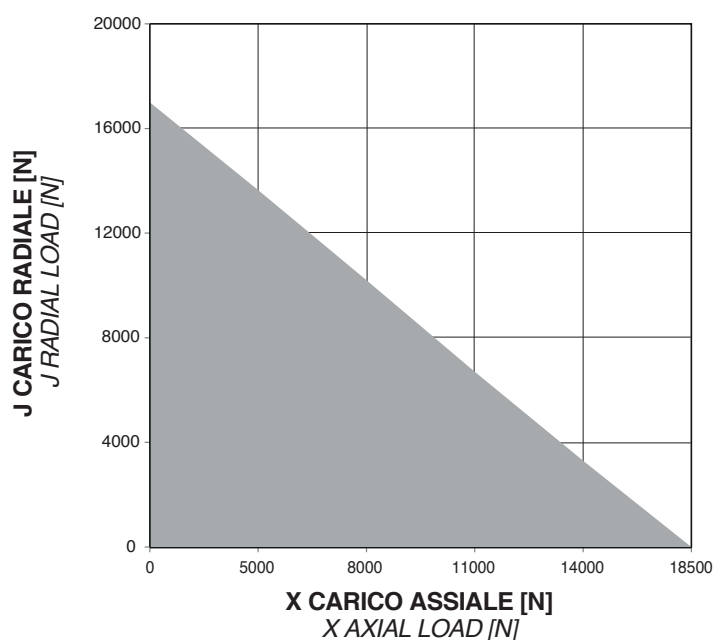
- A: 250 mm
- Total: 0,02 mm

$$E = \frac{r}{R} \times EE = \pm [mm]$$



Carichi assiali e radiali

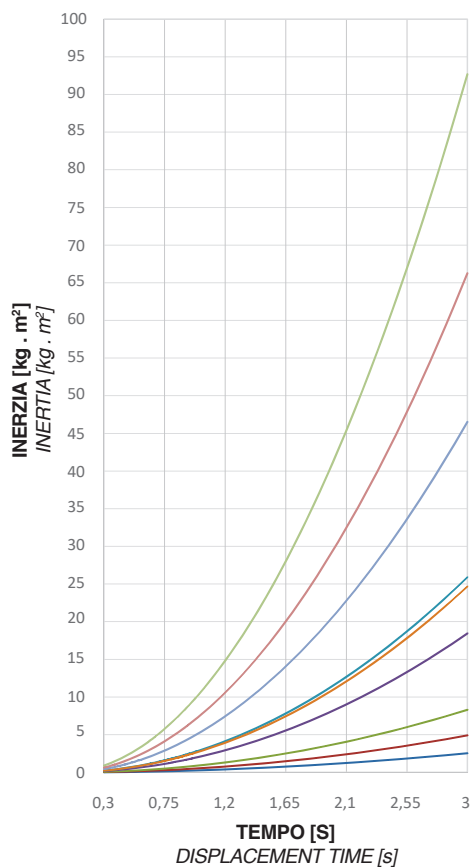
Max axial and radial loads



AR250

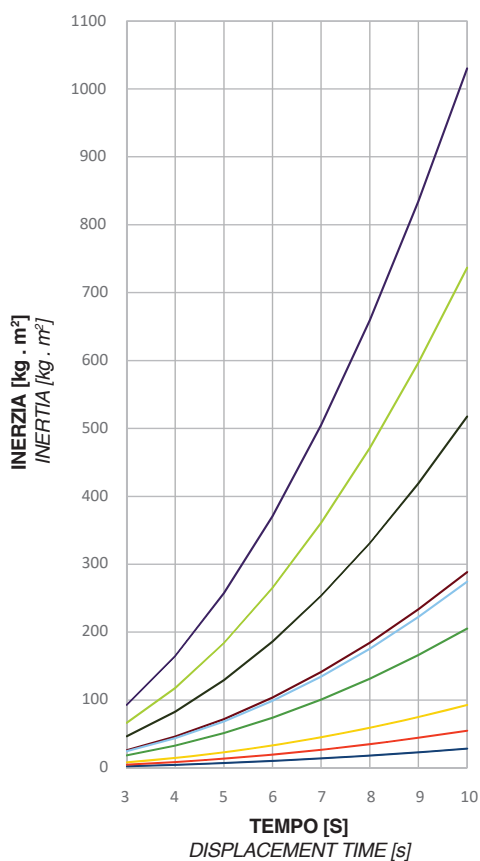
AR250

2 STAZIONI 2 STATIONS
3 STAZIONI 3 STATIONS
4 STAZIONI 4 STATIONS
5 STAZIONI 5 STATIONS
6 STAZIONI 6 STATIONS
8 STAZIONI 8 STATIONS
10 STAZIONI 10 STATIONS
12 STAZIONI 12 STATIONS
16 STAZIONI 16 STATIONS



AR250

2 STAZIONI 2 STATIONS
3 STAZIONI 3 STATIONS
4 STAZIONI 4 STATIONS
5 STAZIONI 5 STATIONS
6 STAZIONI 6 STATIONS
8 STAZIONI 8 STATIONS
10 STAZIONI 10 STATIONS
12 STAZIONI 12 STATIONS
16 STAZIONI 16 STATIONS

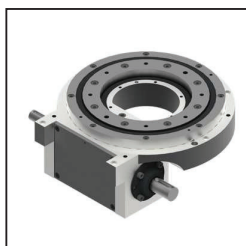
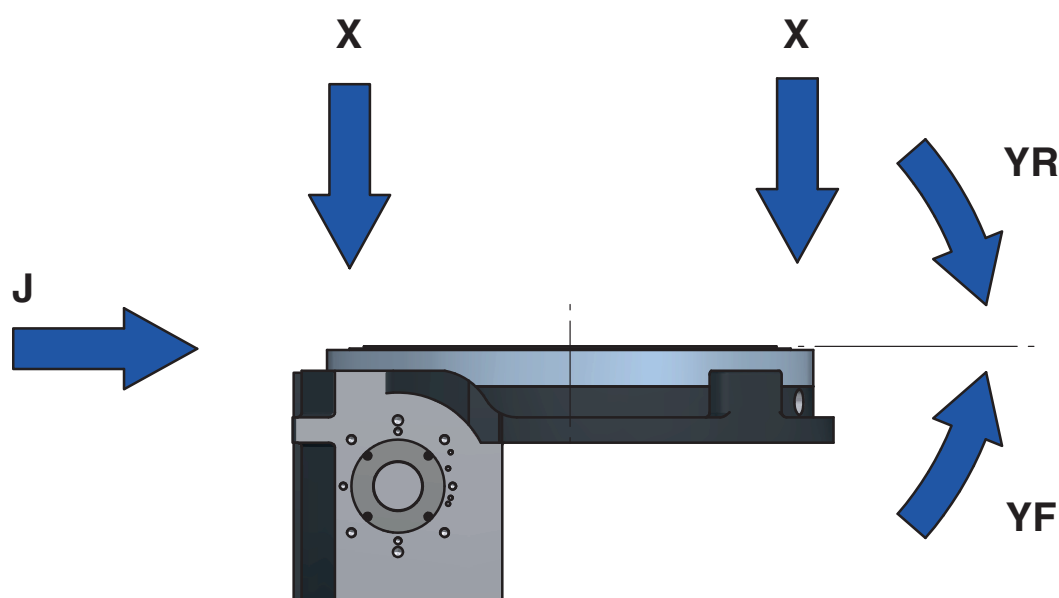


IL GRAFICO È INDICATIVO, PER IDENTIFICARE UN CORRETTO DIMENSIONAMENTO, CONSIGLIAMO DI RICHIEDERE UN CALCOLO DEDICATO AL NOSTRO UFFICIO TECNICO
THE GRAPH IS INDICATIVE, TO IDENTIFY A CORRECT SIZING, WE RECOMMEND REQUESTING A DEDICATED CALCULATION FROM OUR TECHNICAL DEPARTMENT

ROTARY RINGS

Axial and radial loads

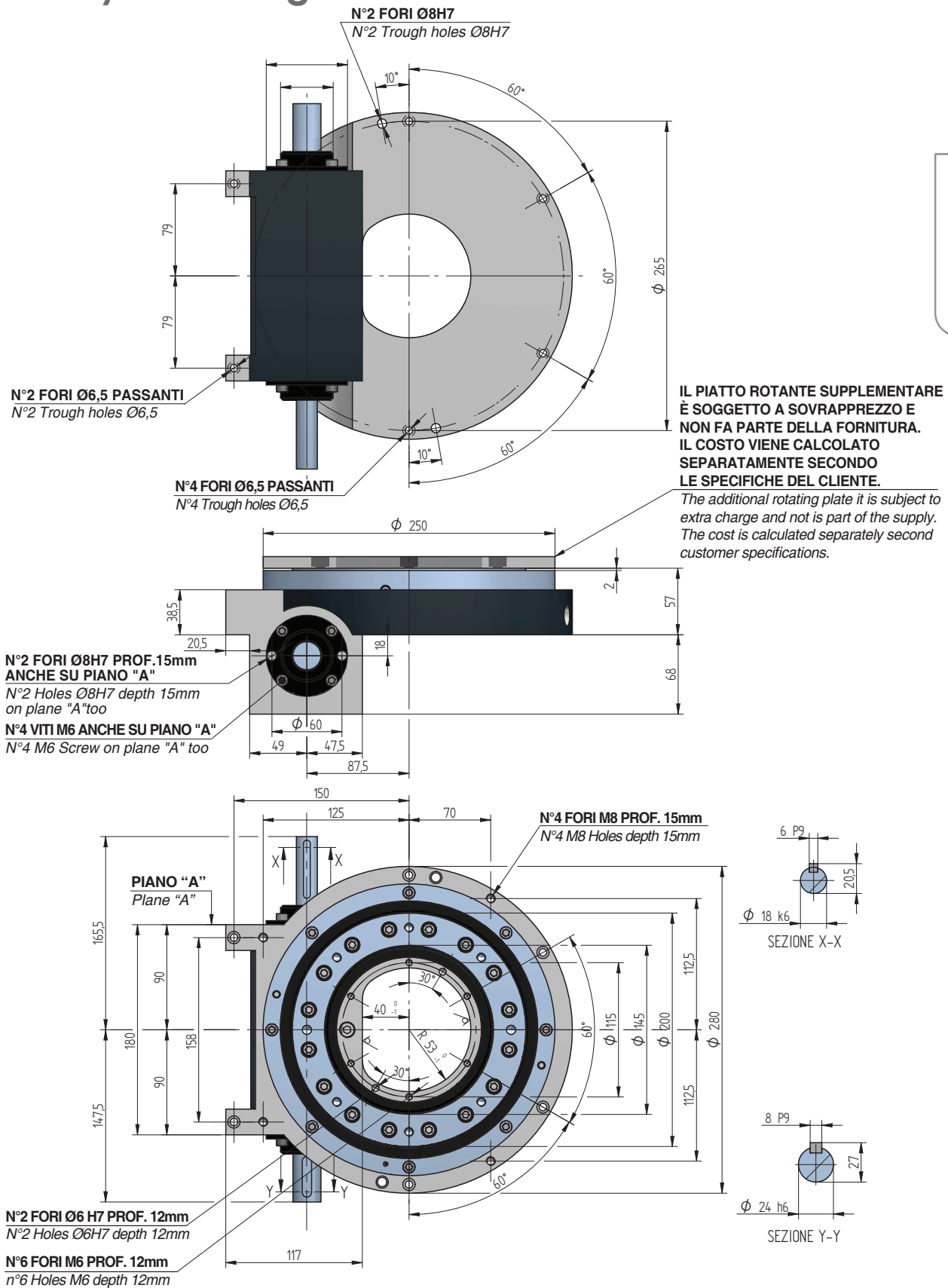
X Carico assiale Axial load	J Carico radiale Radial load	YR Momento ribaltante Overturning torque
N		Nm
18500	17000	580



Anello rotante

Rotary index ring

AR250



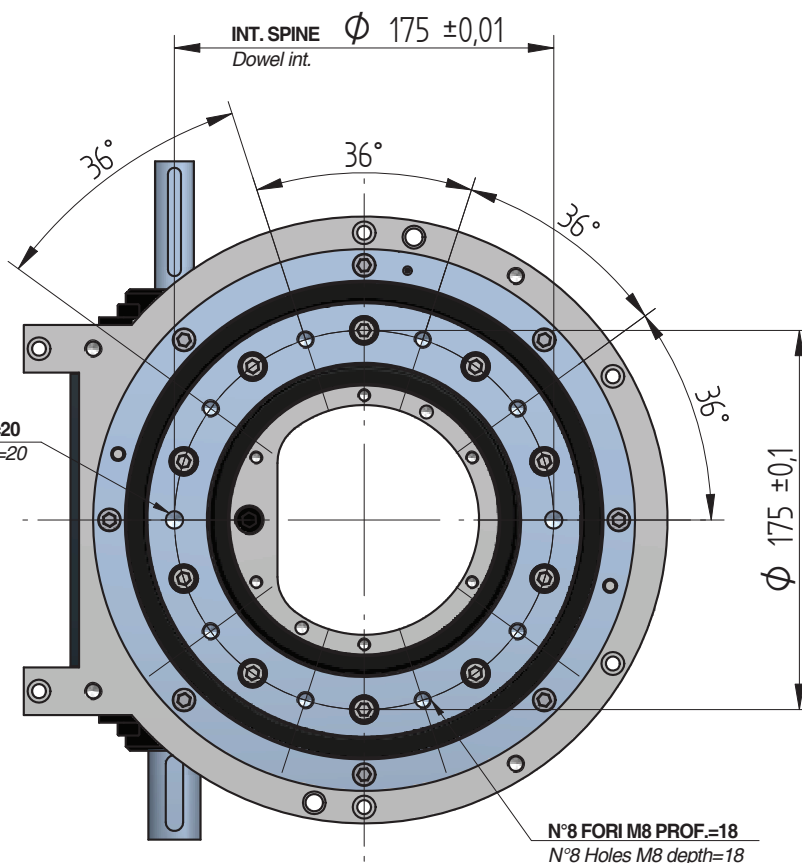
KG 25 kg

ROTARY RINGS

Assembling threaded holes on rotating disk

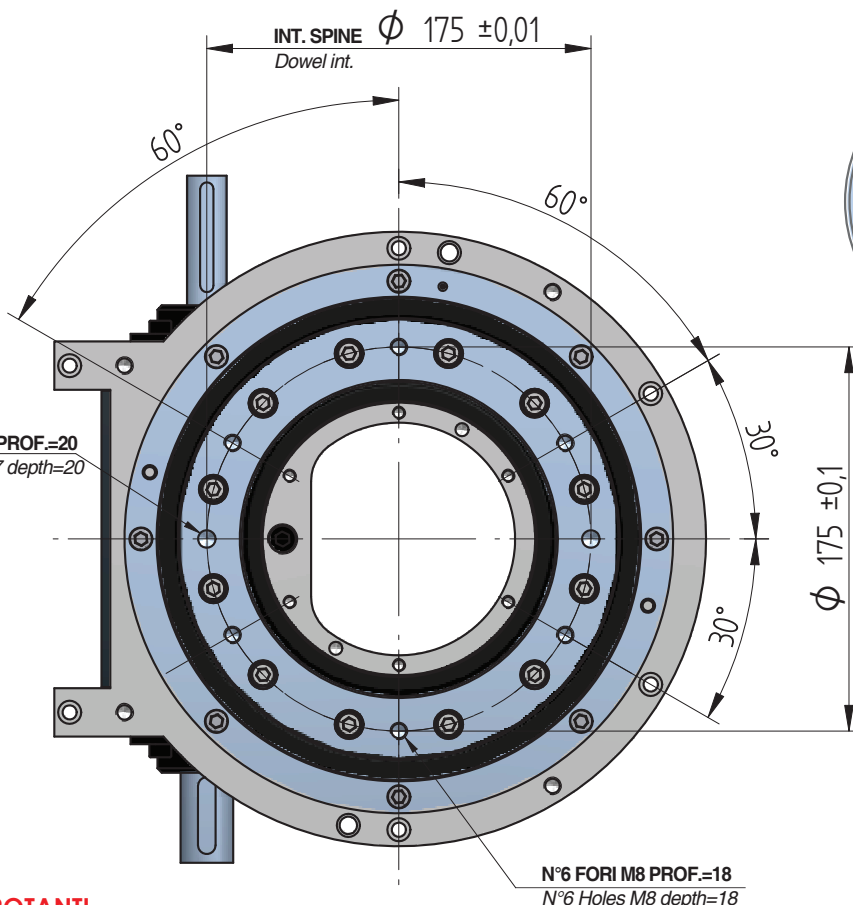
**FORATURA
su unità a
2/10/20 divisioni**
Drilling holes
on units with
2/10/20 divisions

N°2 FORI Ø8H7 PROF.=20
N°2 Holes Ø8H7 depth=20



**FORATURA
su unità a
4/6/12/24 divisioni**
Drilling holes on
units with 4/6/12/24
divisions

N°2 FORI Ø8H7 PROF.=20
N°2 Holes Ø8H7 depth=20



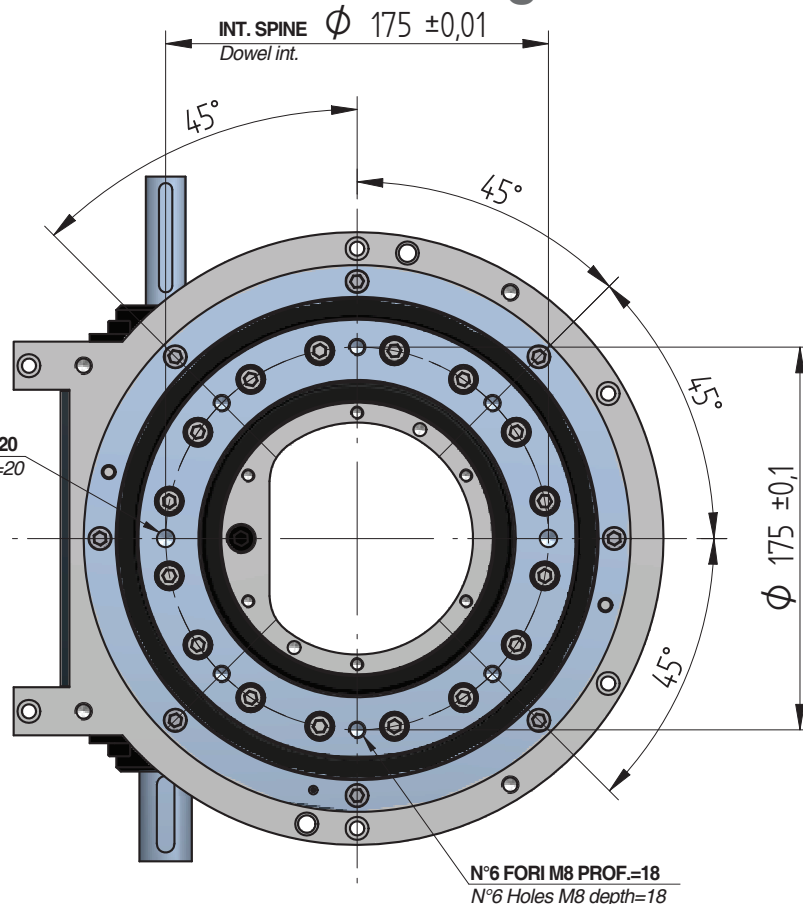
ANELLI ROTANTI

Fori per assemblaggio su disco rotante

Assembling threaded holes on rotating disk

**FORATURA
su unità a
8/16 divisioni**
Drilling holes on
units with 8/16
divisions

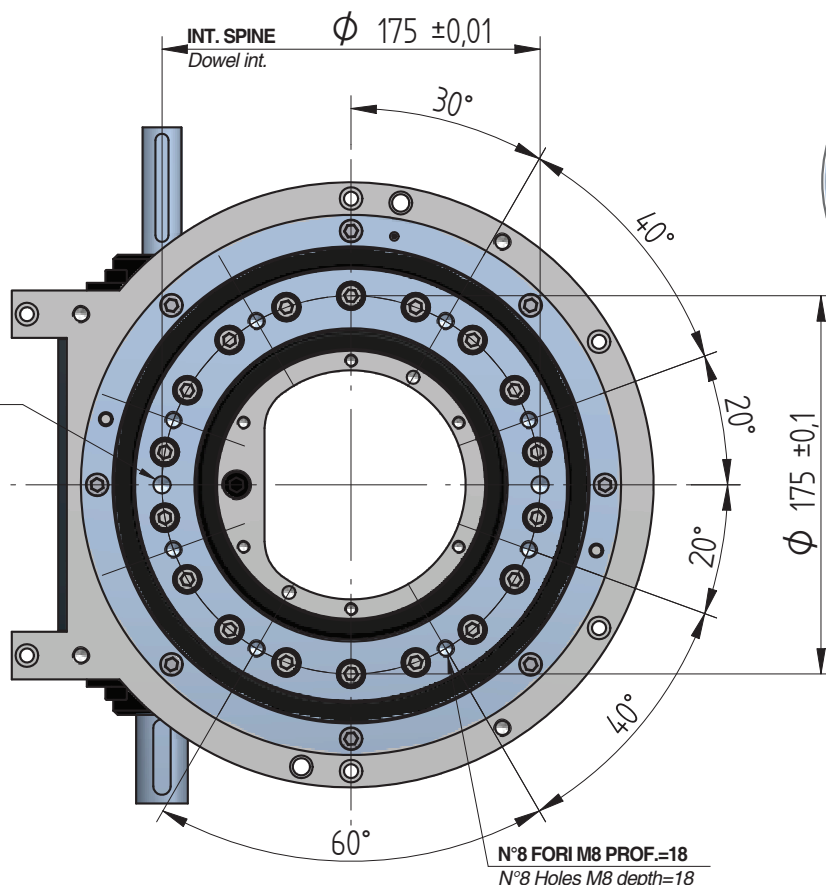
N°2 FORI Ø8H7 PROF.=20
N°2 Holes Ø8H7 depth=20



N°6 FORI M8 PROF.=18
N°6 Holes M8 depth=18

**FORATURA
su unità a
18 divisioni**
Drilling holes on
units with 18
divisions

N°2 FORI Ø8H7
PROF.=20
N°2 Holes Ø8H7
depth=20



N°8 FORI M8 PROF.=18
N°8 Holes M8 depth=18

ROTARY RINGS

AR250

Rotary index ring

Stazioni stations	Angoli di camma Cam angles									
	90	120	150	180	210	240	270	300	330	345
2										
4										
6										
8										
12										
16										
18										
24										

ANGOLI DI CAMMA REALIZZABILI
FEASIBLE CAM TRANSFER ANGLES

Tolleranza Anelli Rotanti

Tolerances of indexing rings

Tolleranza di ripetibilità

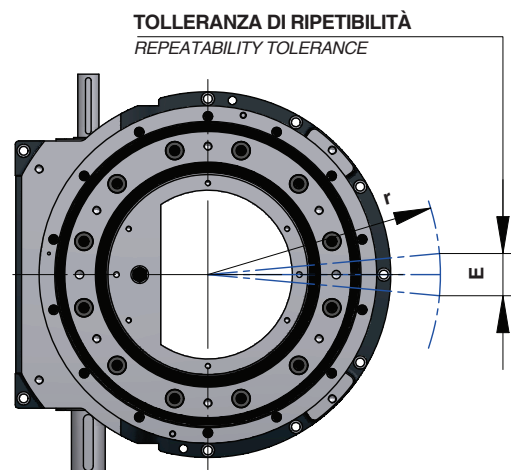
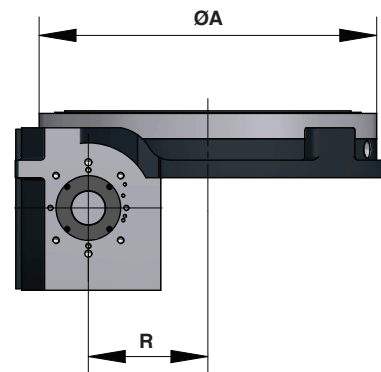
Repeatability tolerance:

- R : 127,5 mm
- EE: ±0,015 mm

Planarità disco/Disc flatness:

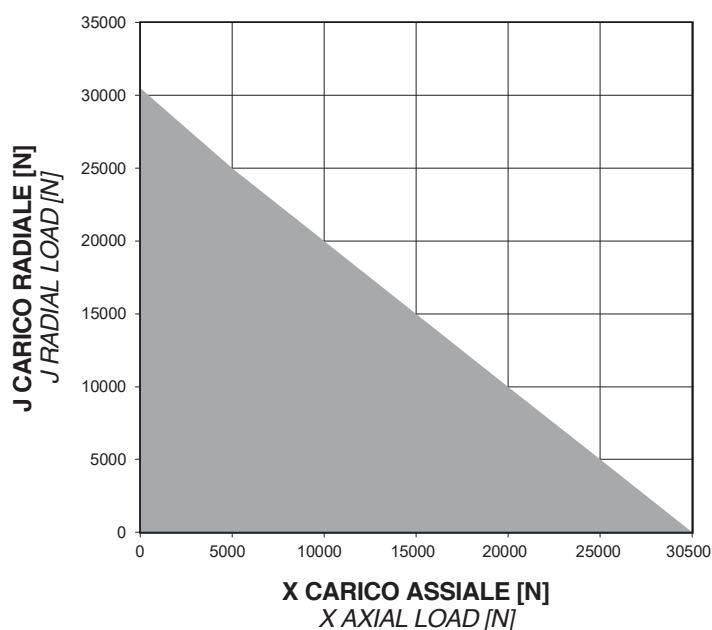
- A: 350 mm
- Total: 0,03 mm

$$E = \frac{r}{R} \times EE = \pm [mm]$$

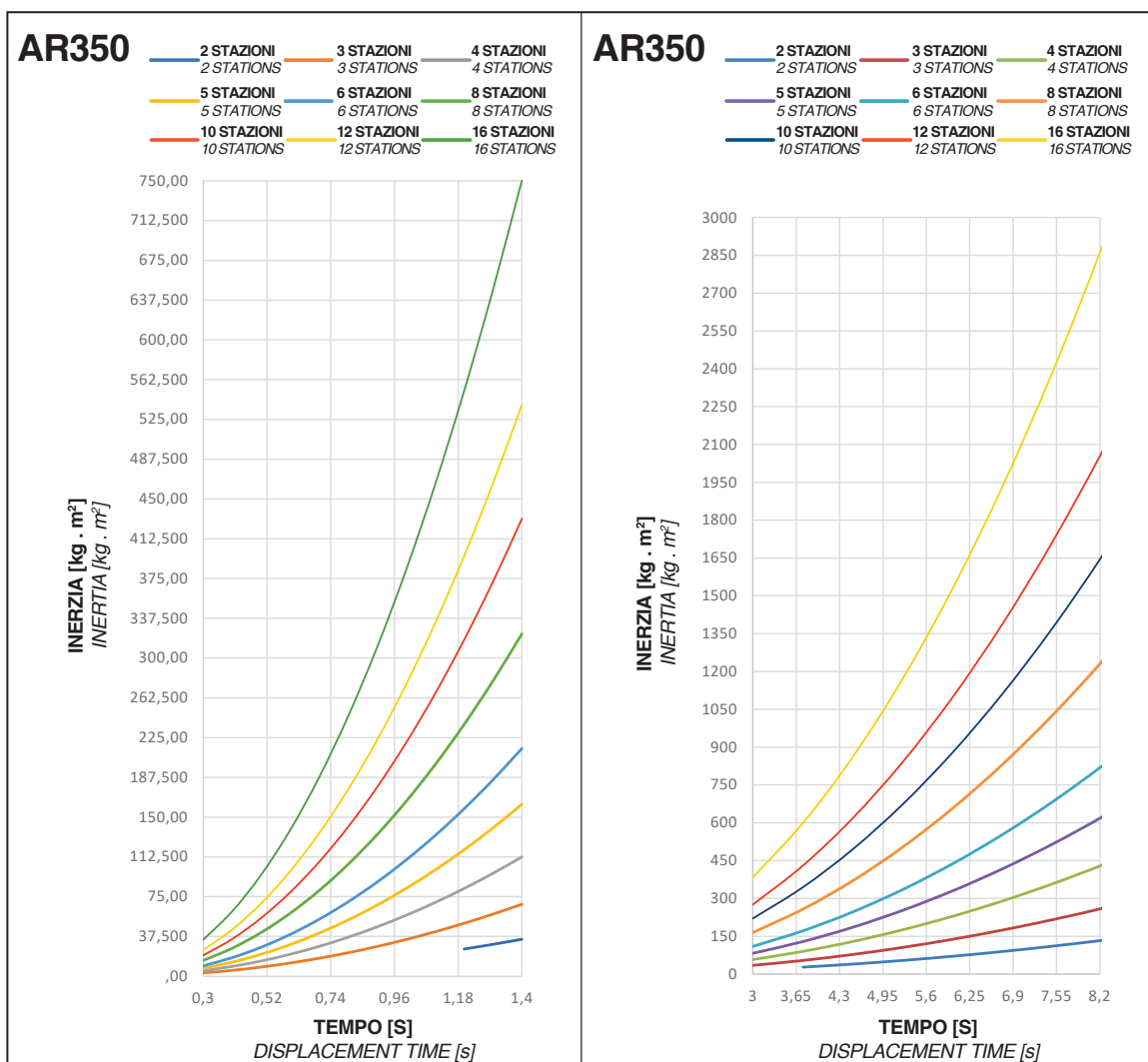


Carichi assiali e radiali

Max axial and radial loads



AR350

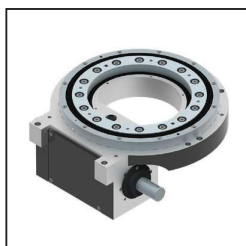
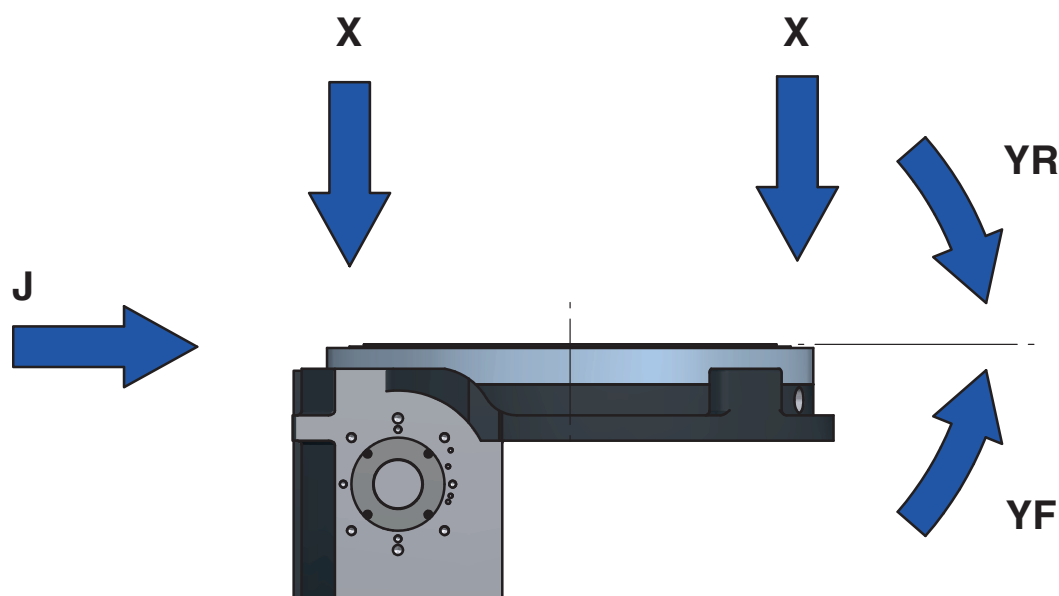


IL GRAFICO È INDICATIVO, PER IDENTIFICARE UN CORRETTO DIMENSIONAMENTO, CONSIGLIAMO DI RICHIEDERE UN CALCOLO DEDICATO AL NOSTRO UFFICIO TECNICO
THE GRAPH IS INDICATIVE, TO IDENTIFY A CORRECT SIZING, WE RECOMMEND REQUESTING A DEDICATED CALCULATION FROM OUR TECHNICAL DEPARTMENT

ROTARY RINGS

Axial and radial loads

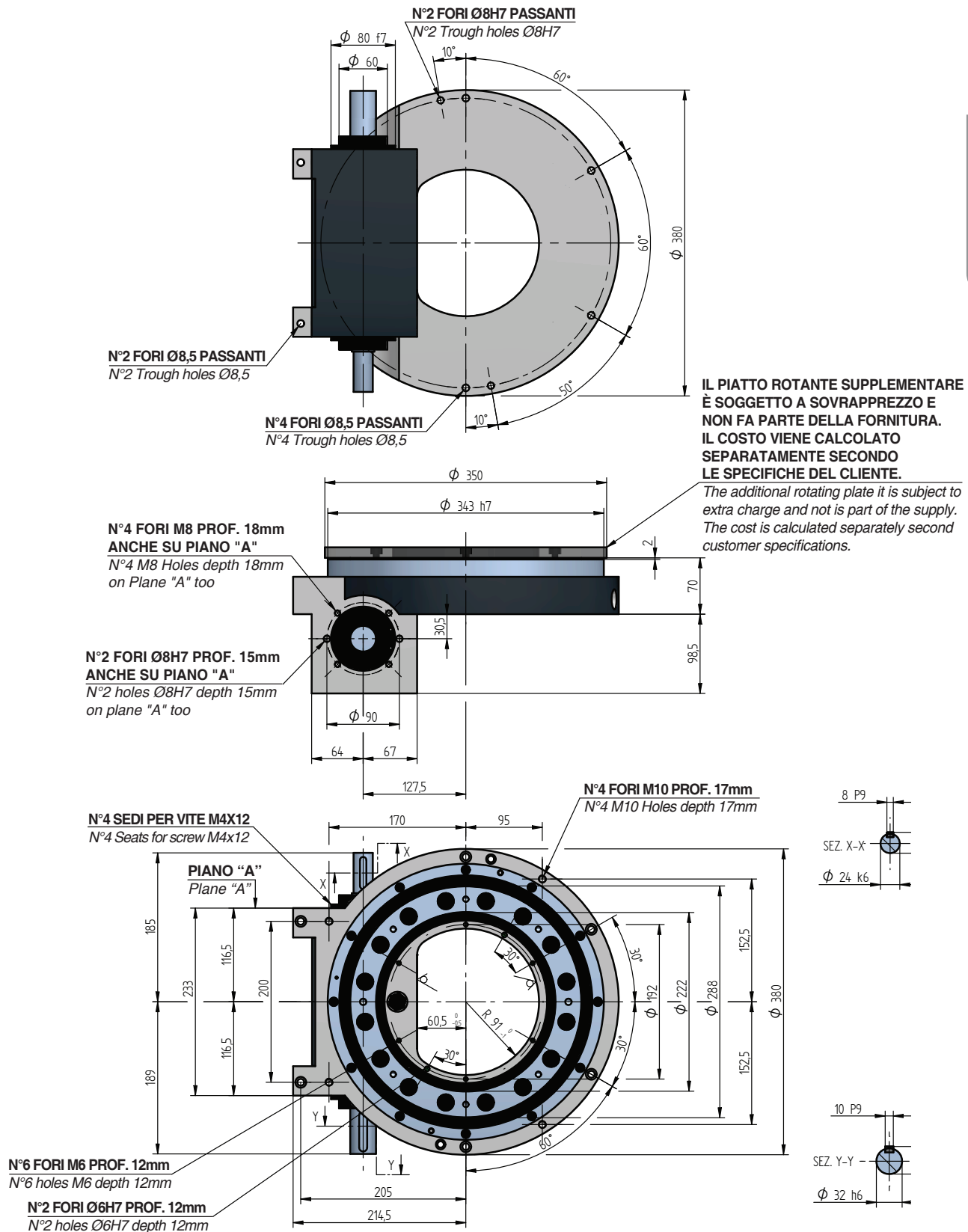
X Carico assiale Axial load	J Carico radiale Radial load	YR Momento ribaltante Overturning torque
N		Nm
30500	30500	1360



Anello rotante

Rotary index ring

AR350



KG 60 kg

ROTARY RINGS

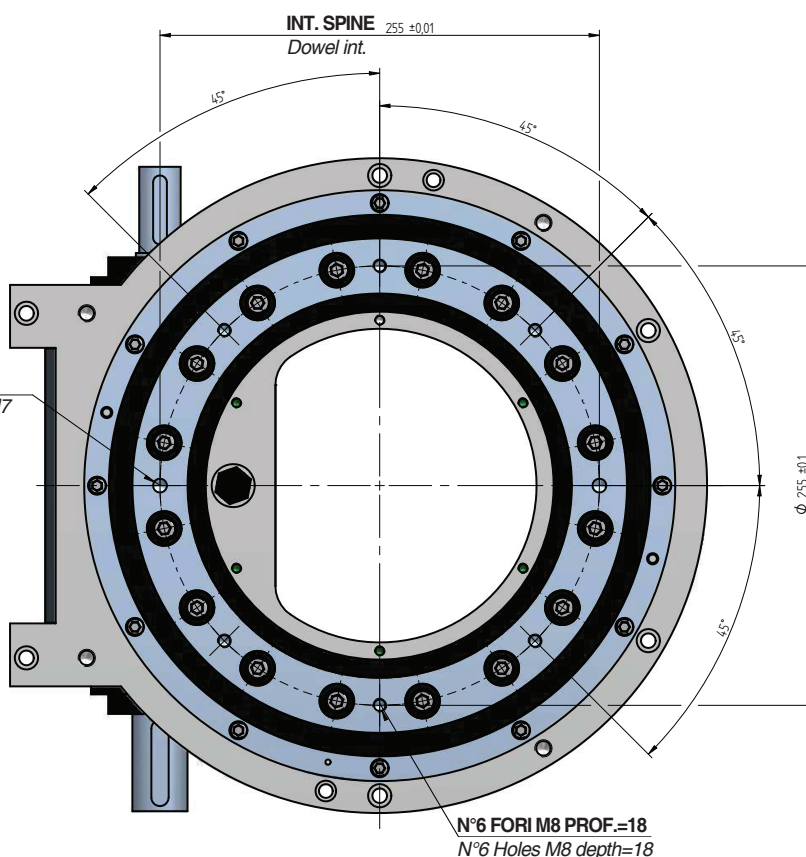
75

Fori per assemblaggio su disco rotante

Assembling threaded holes on rotating disk

**FORATURA
su unità a
8/16 divisioni**
Drilling holes on
units with 8/16 divisions

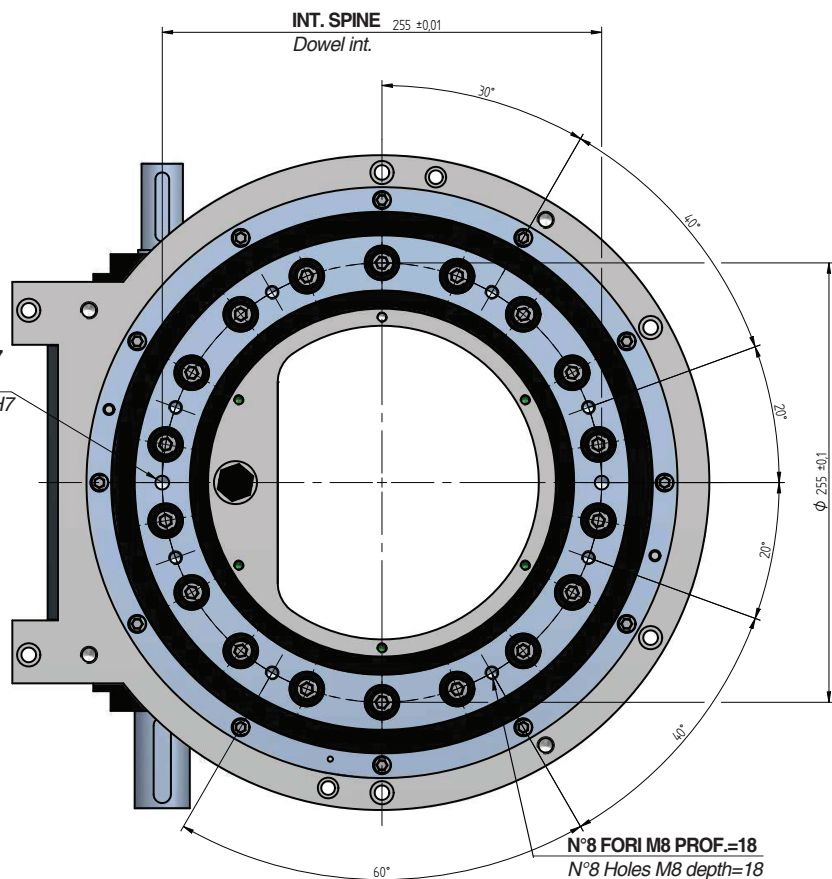
N°2 FORI Ø8H7
PROF.=20
N°2 Holes Ø8H7
depth=20



AR350

**FORATURA
su unità a
18 divisioni**
Drilling holes on
units with 18 divisions

N°2 FORI Ø8H7
PROF.=20
N°2 Holes Ø8H7
depth=20



ROTARY RINGS

Rotary index ring

Stazioni stations	Angoli di camma Cam angles									
	90	120	150	180	210	240	270	300	330	345
2										
4										
6										
8										
12										
16										
24										
32										

ANGOLI DI CAMMA REALIZZABILI
FEASIBLE CAM TRANSFER ANGLES

Tolleranza Anelli Rotanti

Tolerances of indexing rings

Tolleranza di ripetibilità

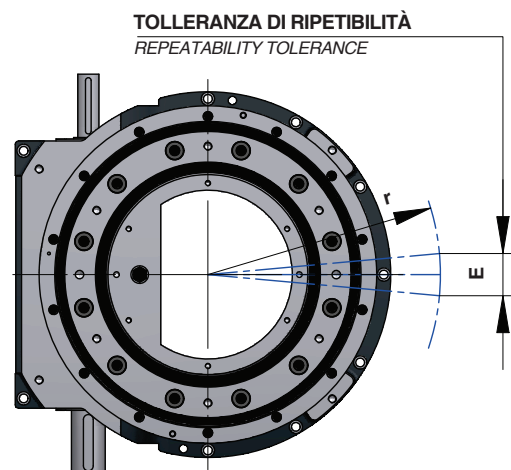
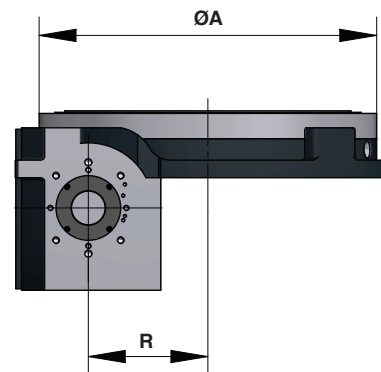
Repeatability tolerance:

- R : 182,5 mm
- EE: ±0,015 mm

Planarità disco/Disc flatness:

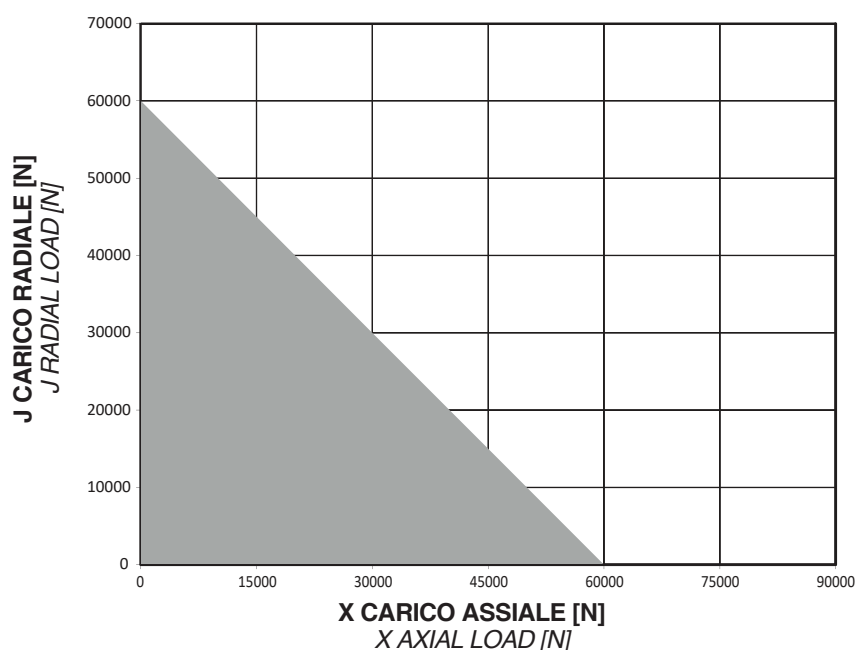
- A: 510 mm
- Total: 0,03 mm

$$E = \frac{r}{R} \times EE = \pm [mm]$$

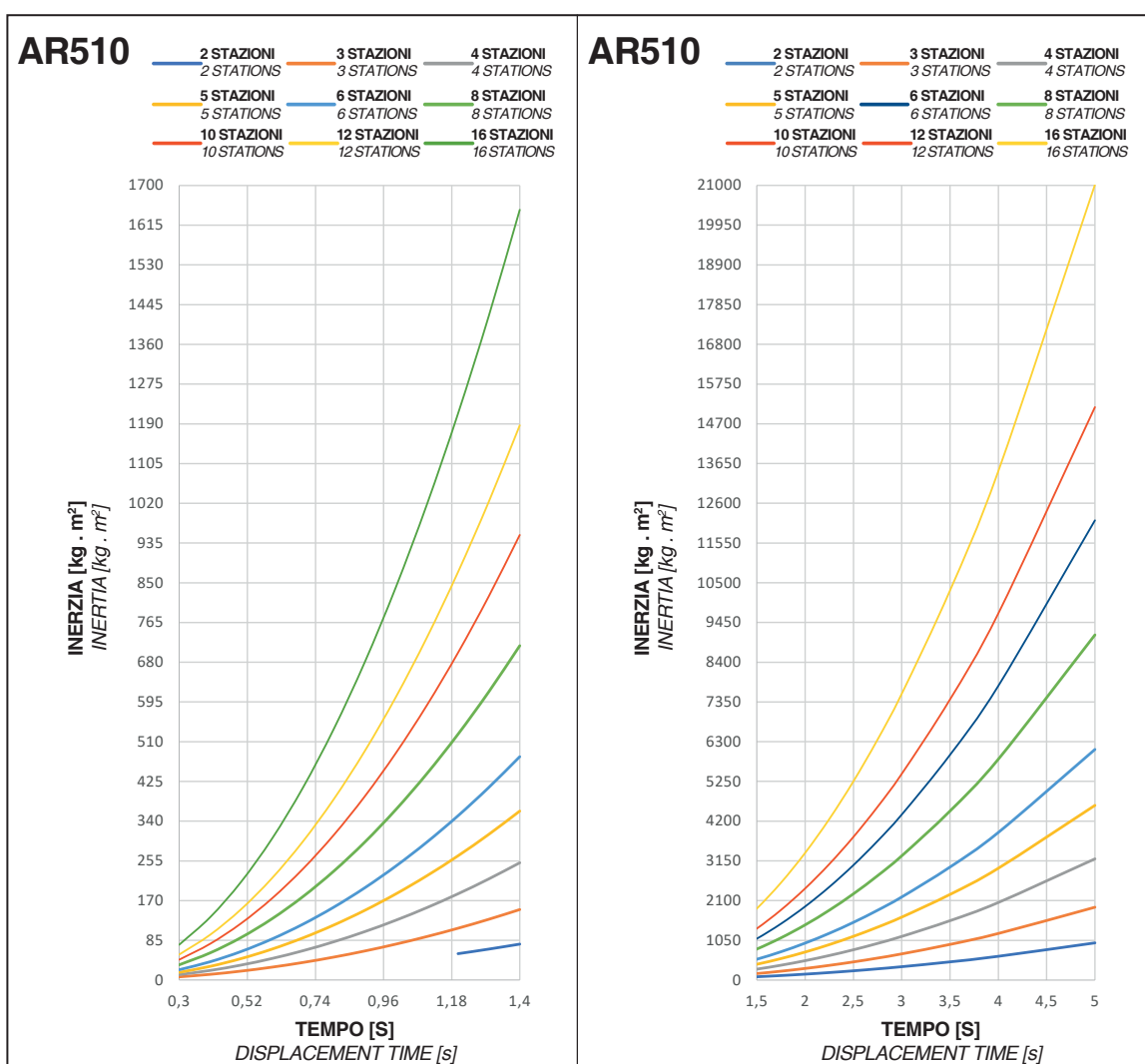


Carichi assiali e radiali

Max axial and radial loads



AR510

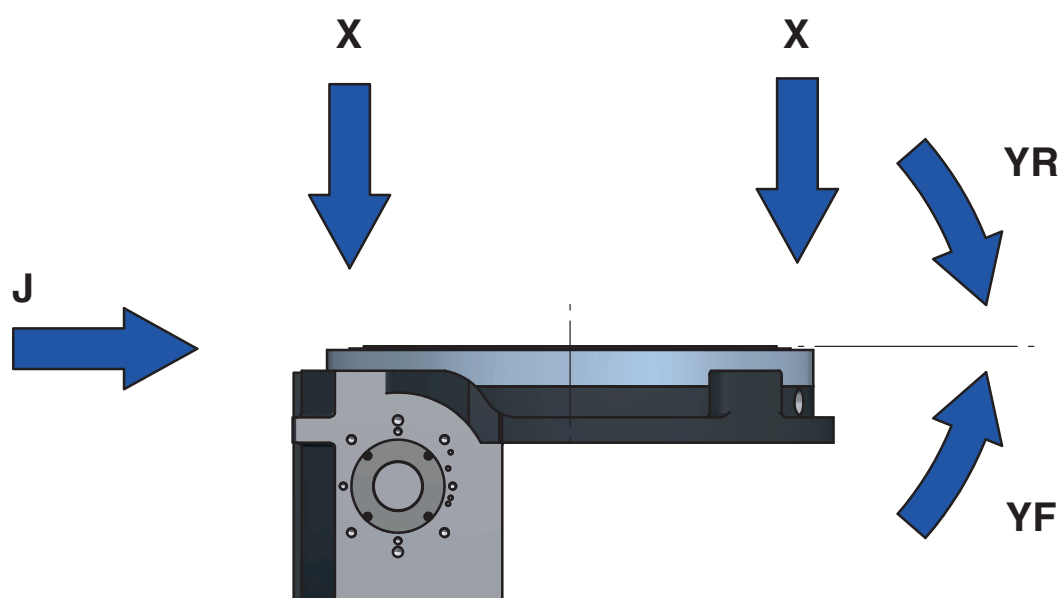


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ROTARY RINGS

Axial and radial loads

X Carico assiale Axial load	J Carico radiale Radial load	YR Momento ribaltante Overturning torque
N		Nm
60000	60000	2500



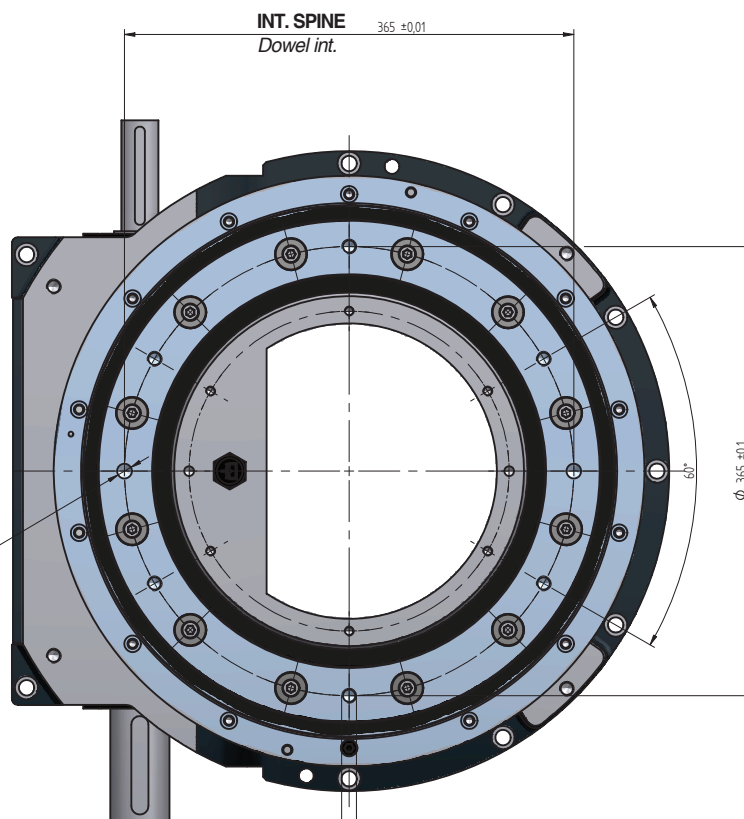
Rotary index ring



Assembling threaded holes on rotating disk

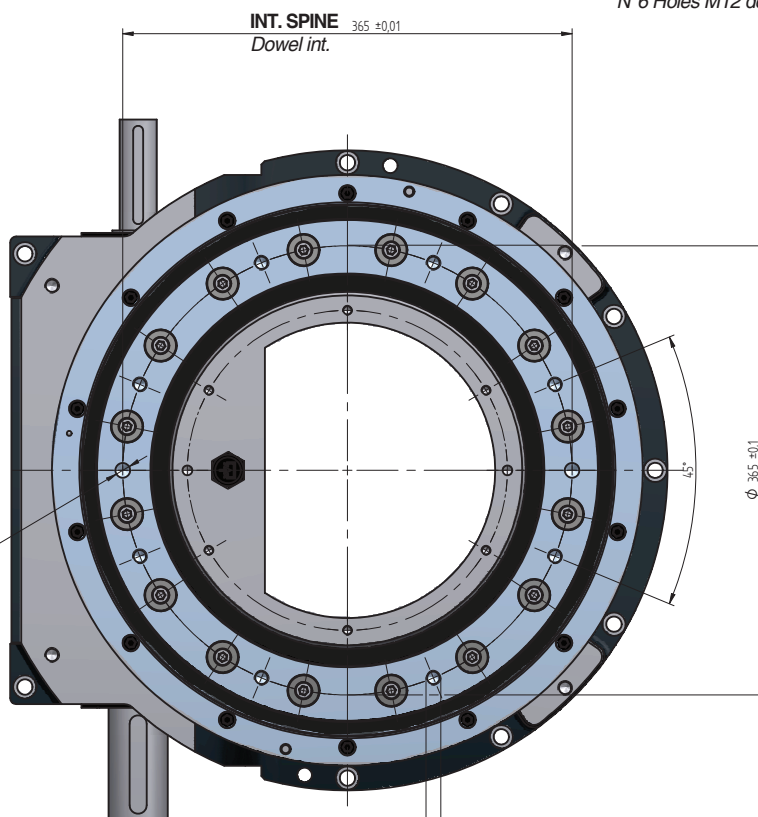
**FORATURA
su unità a
2/4/6/12/24
divisioni**
Drilling holes on units
with 2/4/6/12/24
divisions

N°2 FORI Ø12H7 PROF.=20
N°2 Holes Ø12H7 depth=20



N°6 FORI M12 PROF.=20
N°6 Holes M12 depth=20

N°2 FORI Ø12H7
PROF.=20
N°2 Holes Ø12H7
depth=20



N°8 FORI M12 PROF.=20
N°8 Holes M12 depth=20

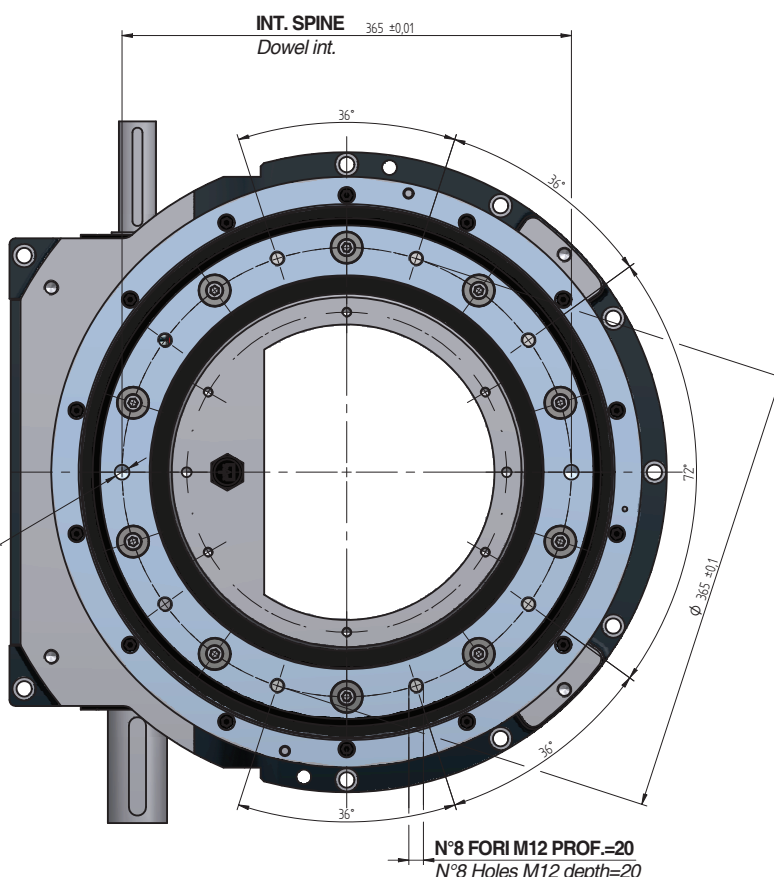
**FORATURA
su unità a
8/16/32 divisioni**
Drilling holes on
units with 8/16/32
divisions

Fori per assemblaggio su disco rotante

Assembling threaded holes on rotating disk

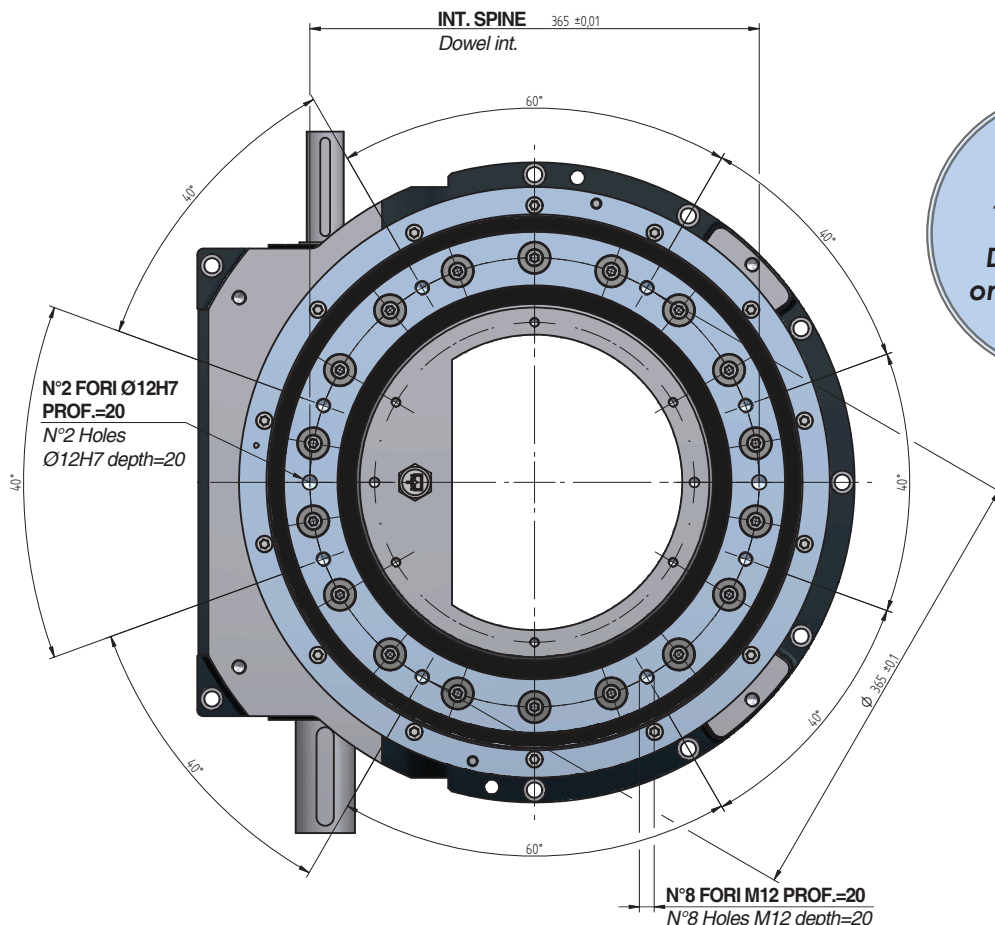
**FORATURA
su unità a
10/20/30 divisioni**
Drilling holes on
units with 10/20/30
divisions

N°2 FORI Ø12H7
PROF.=20
N°2 Holes Ø12H7
depth=20



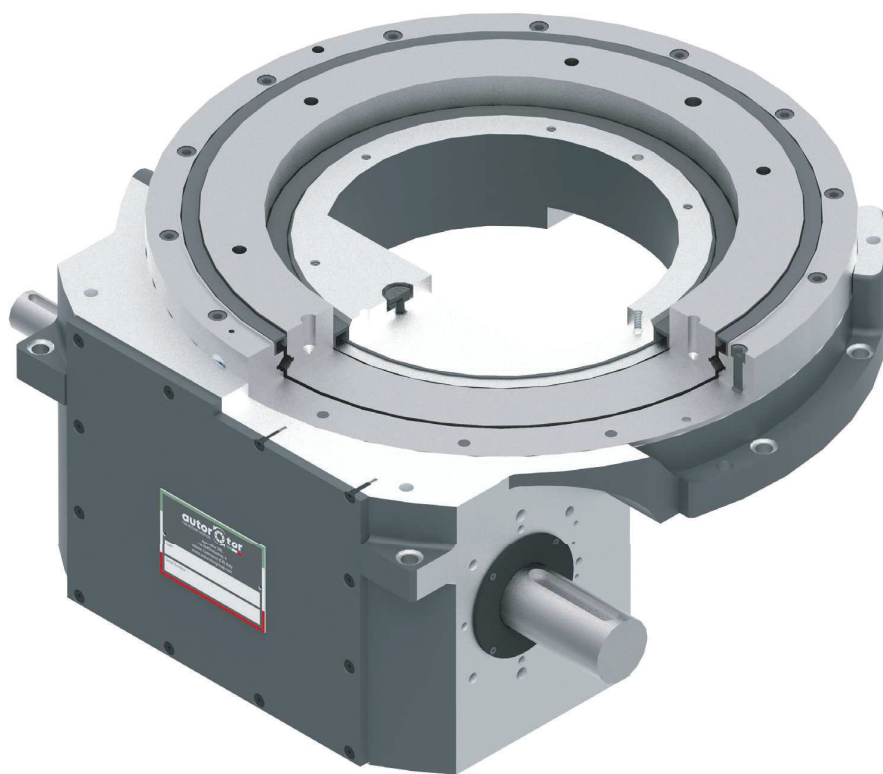
AR510

**FORATURA
su unità a
18 divisioni**
Drilling holes
on units with 18
divisions



ROTARY RINGS

Rotary ring 3D



Anello rotante

Rotary index ring

Stazioni Stations	Angoli di camma Cam angles									
	90	120	150	180	210	240	270	300	330	345
2										
4										
6										
8										
12										
16										
24										



ANGOLI DI CAMMA REALIZZABILI
FEASIBLE CAM TRANSFER ANGLES

AR1600

Tolleranza Anelli Rotanti

Tolerances of indexing rings

Tolleranza di ripetibilità

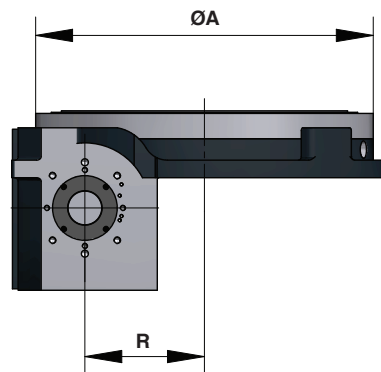
Repeatability tolerance:

- R : 700 mm
- EE: ±0,04 mm

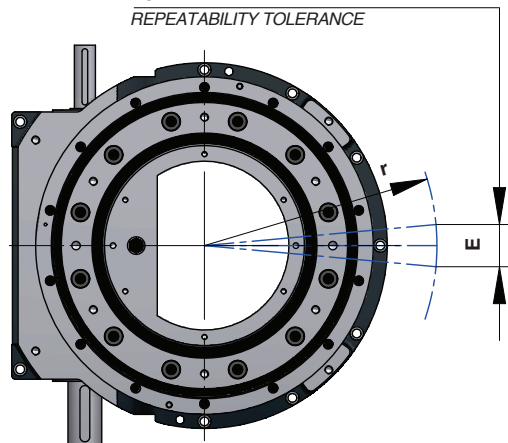
Planarità disco/Disc flatness:

- A: 1600 mm
- Total: 0,07 mm

$$E = \frac{r}{R} \times EE = \pm [mm]$$

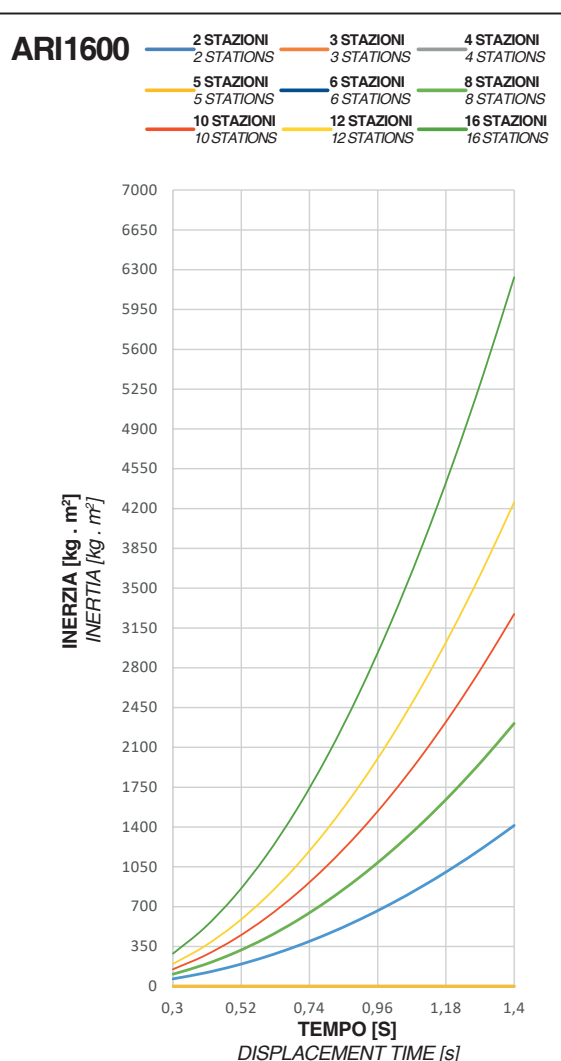
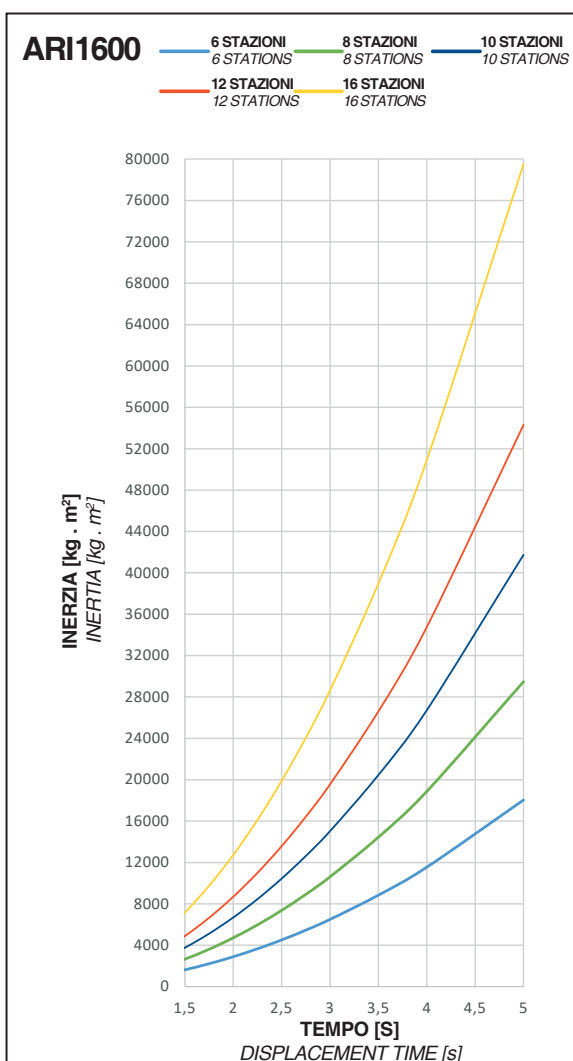
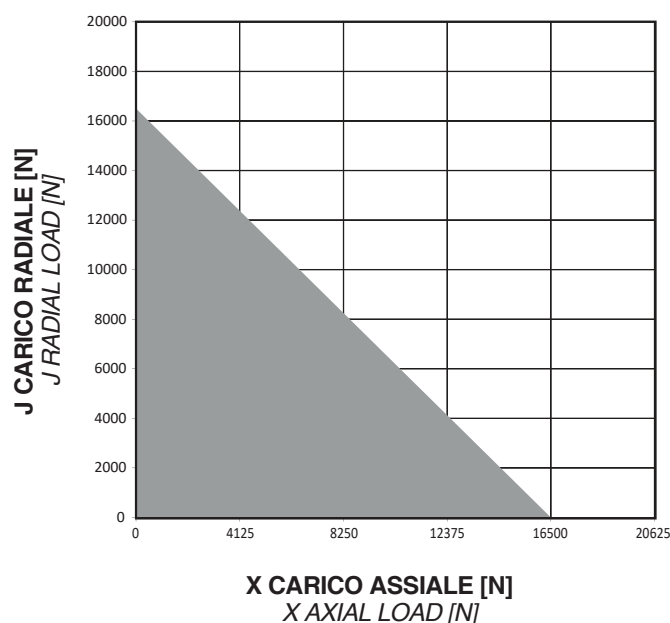


TOLLERANZA DI RIPETIBILITÀ
REPEATABILITY TOLERANCE



ROTARY RINGS

Max axial and radial loads



ANELLI ROTANTI

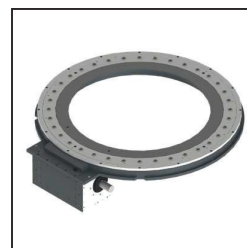
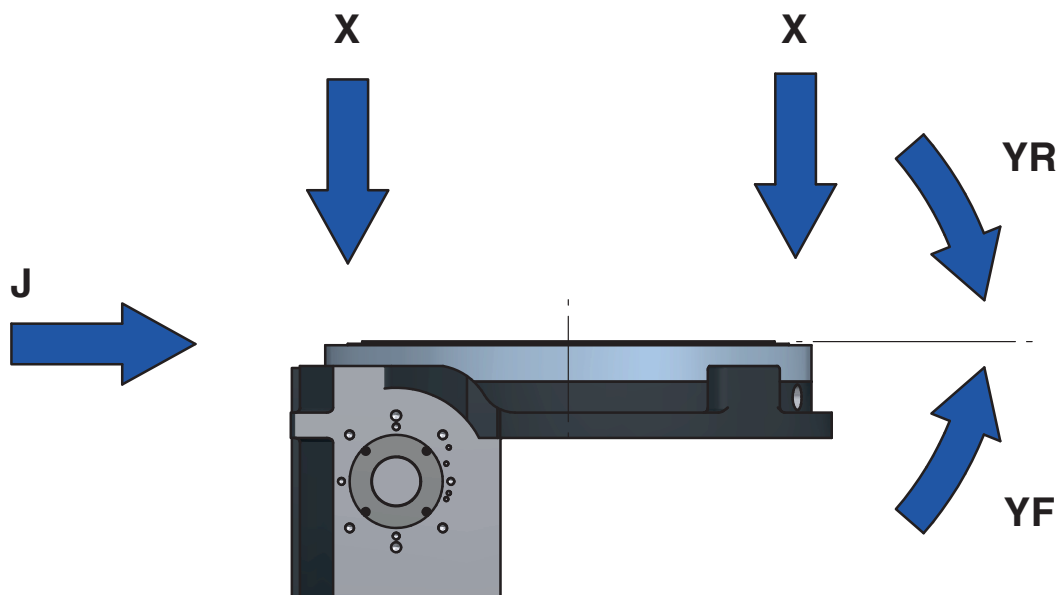
IL GRAFICO È INDICATIVO, PER IDENTIFICARE UN CORRETTO DIMENSIONAMENTO, CONSIGLIAMO DI RICHIEDERE UN CALCOLO DEDICATO AL NOSTRO UFFICIO TECNICO
THE GRAPH IS INDICATIVE, TO IDENTIFY A CORRECT SIZING, WE RECOMMEND REQUESTING A DEDICATED CALCULATION FROM OUR TECHNICAL DEPARTMENT

Carichi assiali e radiali

Axial and radial loads

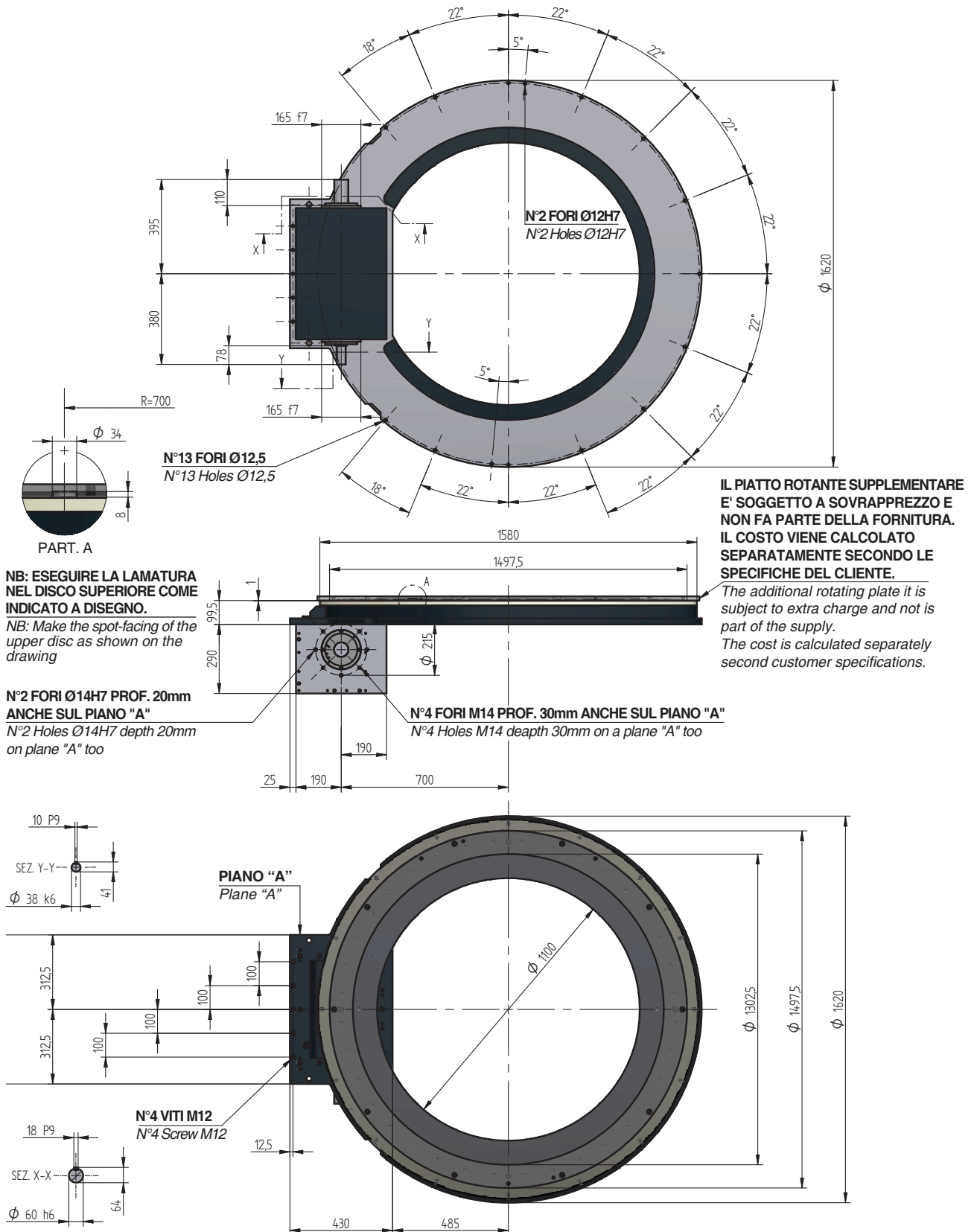
X Carico assiale Axial load	J Carico radiale Radial load	YR Momento ribaltante Overturning torque
N		Nm
16500	16500	2200

AR1600



ROTARY RINGS

Rotary index ring



1100 kg

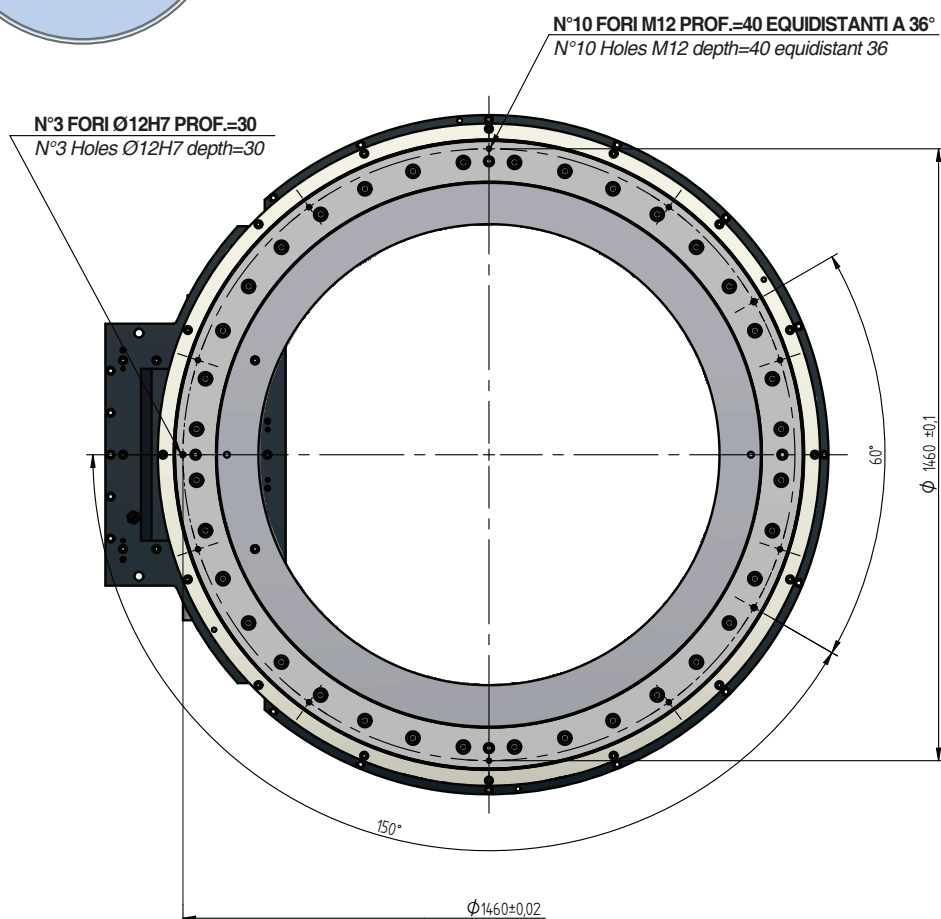
KG

ANELLI ROTANTI

Fori per assemblaggio su disco rotante

Assembling threaded holes on rotating disk

FORATURA
su unità
Drilling holes
on units



AR1600

ROTARY RINGS

89

Rotary index ring

Stazioni stations	Angoli di camma Cam angles									
	90	120	150	180	210	240	270	300	330	345
2										
4										
6										
8										
12										
16										
24										

ANGOLI DI CAMMA REALIZZABILI
FEASIBLE CAM TRANSFER ANGLES

Tolleranza Anelli Rotanti

Tolerances of indexing rings

Tolleranza di ripetibilità

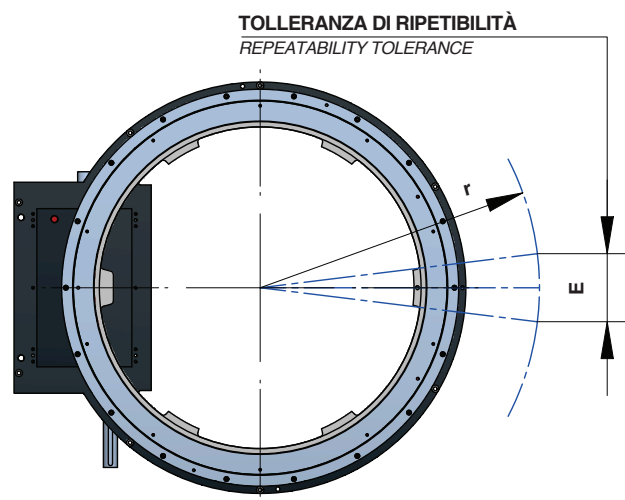
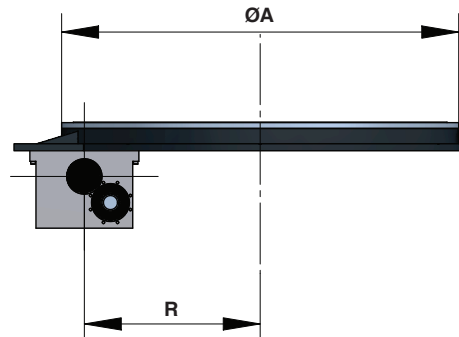
Repeatability tolerance:

- R : 310 mm
- EE: ±0,02 mm

Planarità disco/Disc flatness:

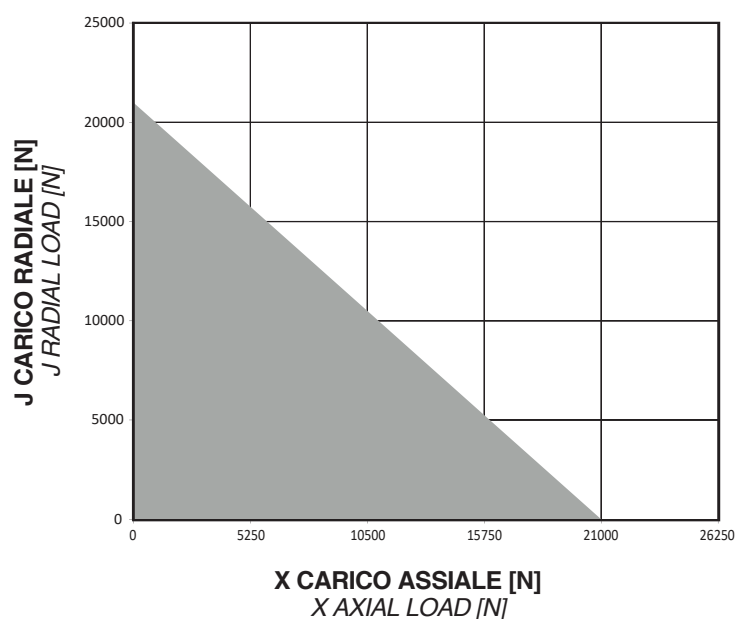
- A: 800 mm
- Total: 0,03 mm

$$E = \frac{r}{R} \times EE = \pm [mm]$$

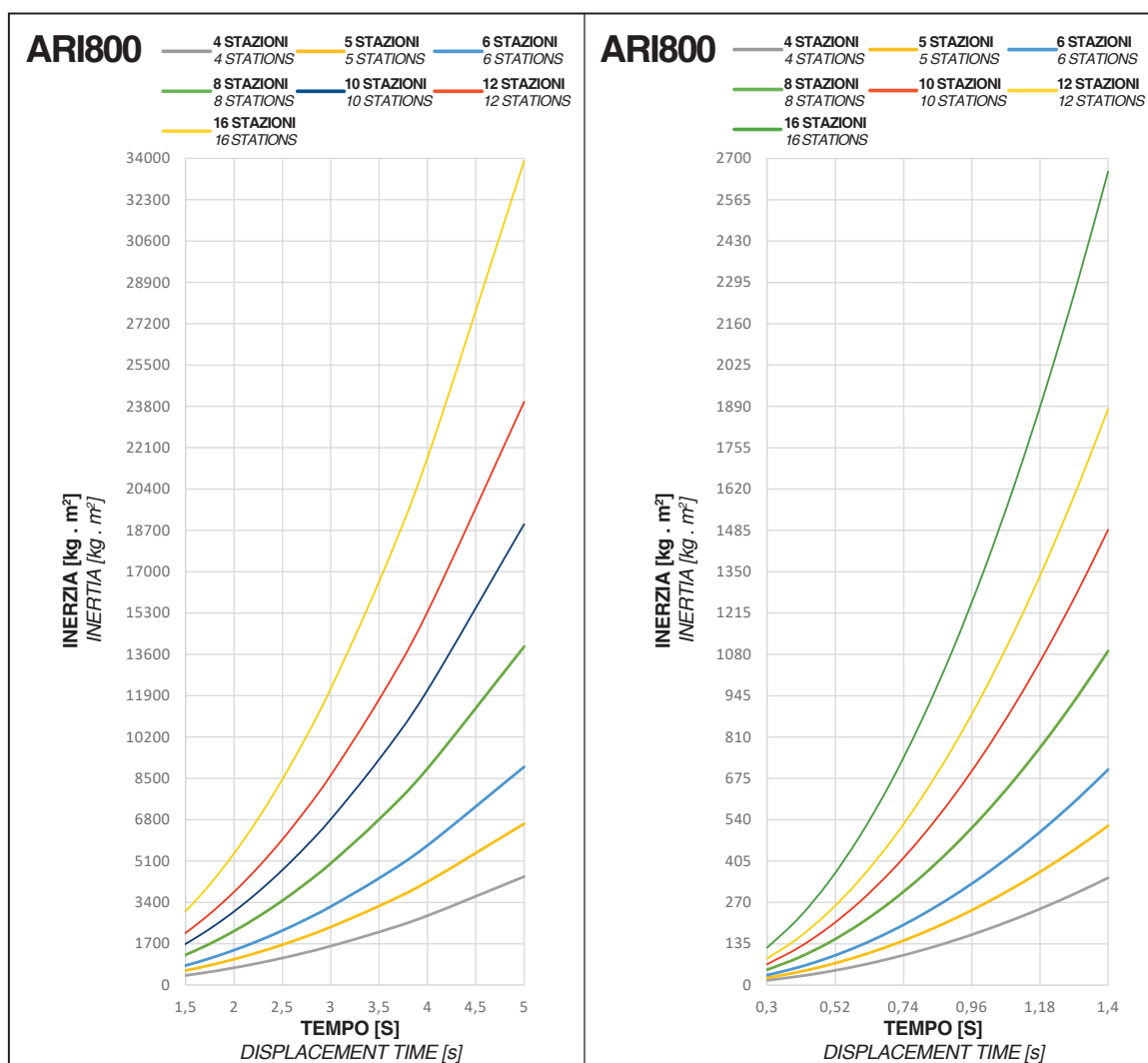


Carichi assiali e radiali

Max axial and radial loads



ARI800

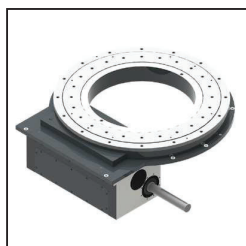
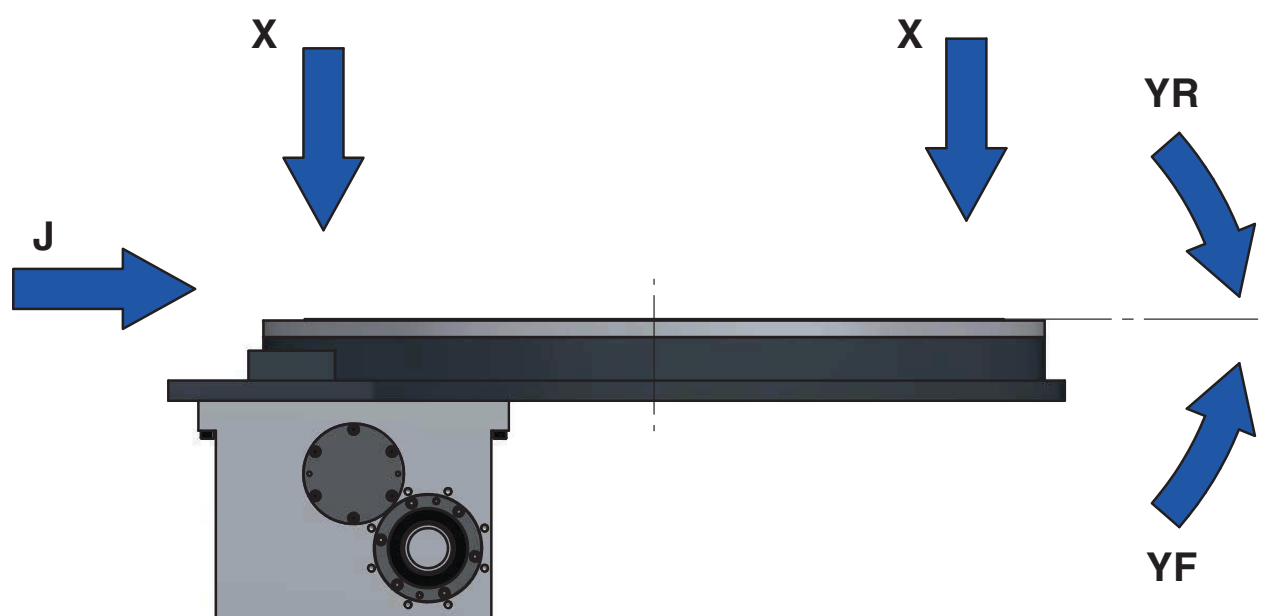


IL GRAFICO È INDICATIVO, PER IDENTIFICARE UN CORRETTO DIMENSIONAMENTO, CONSIGLIAMO DI RICHIEDERE UN CALCOLO DEDICATO AL NOSTRO UFFICIO TECNICO
THE GRAPH IS INDICATIVE, TO IDENTIFY A CORRECT SIZING, WE RECOMMEND REQUESTING A DEDICATED CALCULATION FROM OUR TECHNICAL DEPARTMENT

ROTARY RINGS

Axial and radial loads

X Carico assiale Axial load	J Carico radiale Radial load	YR Momento ribaltante Overturning torque
N		Nm
21000	21000	2500



Rotary index ring

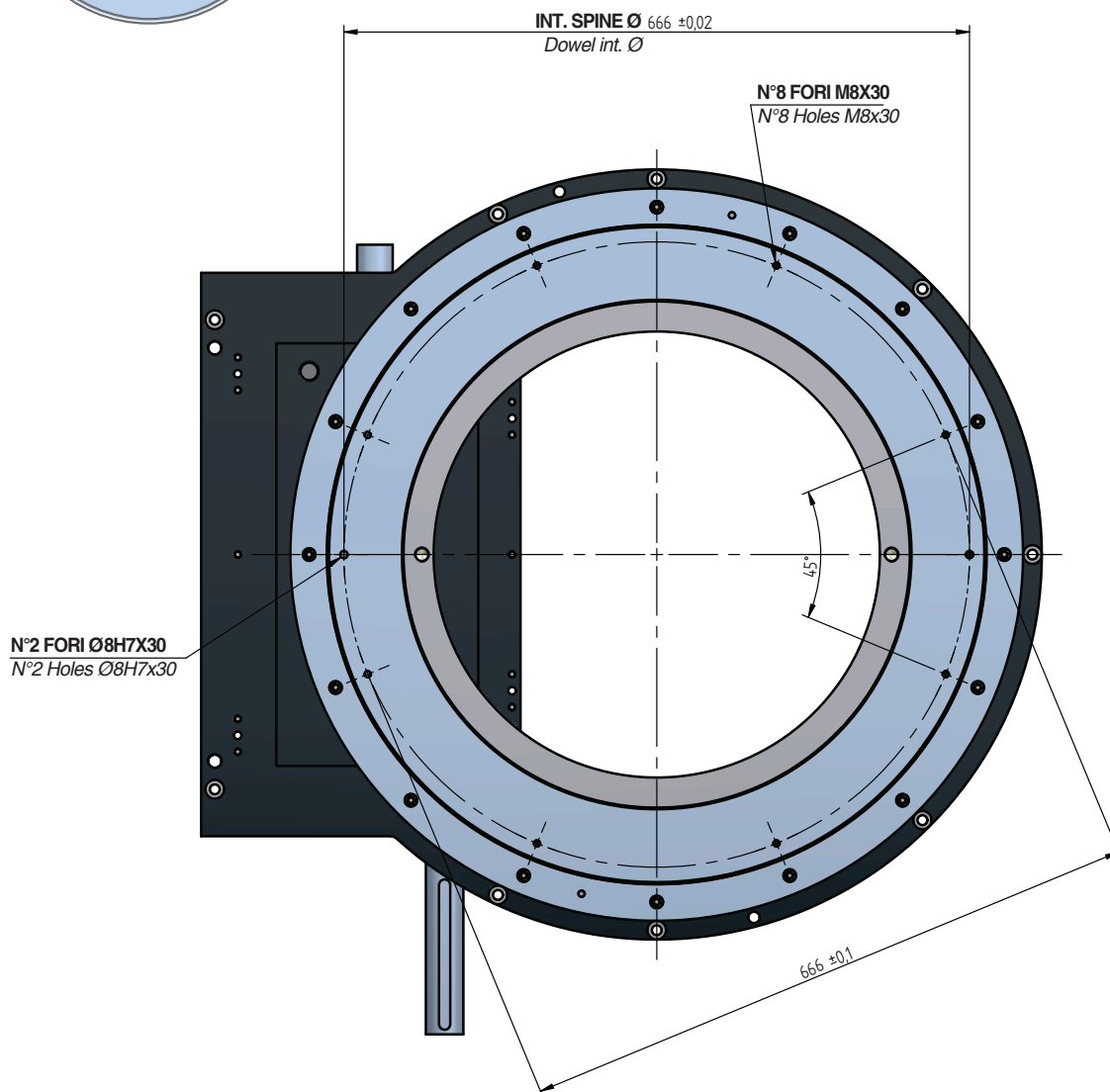


*The additional rotating plate it is subject to extra charge and not is part of the supply.
The cost is calculated separately second customer specifications.*

KG 350 kg

93

FORATURA
su unità
Drilling holes
on units



Anello rotante

Rotary index ring

Stazioni Stations	Angoli di camma Cam angles									
	90	120	150	180	210	240	270	300	330	345
2										
4										
6										
8										
12										
16										
24										



ANGOLI DI CAMMA REALIZZABILI
FEASIBLE CAM TRANSFER ANGLES

ARI 1200

Tolleranza Anelli Rotanti

Tolerances of indexing rings

Tolleranza di ripetibilità

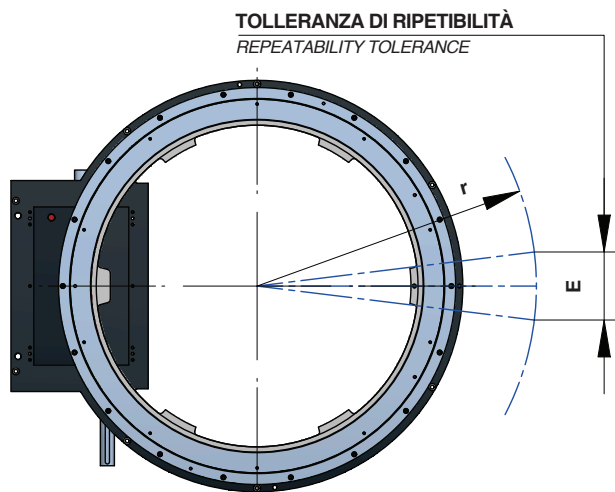
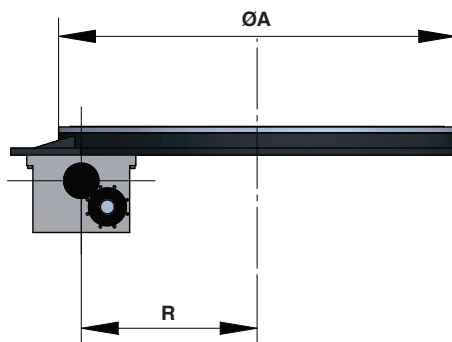
Repeatability tolerance:

- R : 500 mm
- EE: ±0,03 mm

Planarità disco/Disc flatness:

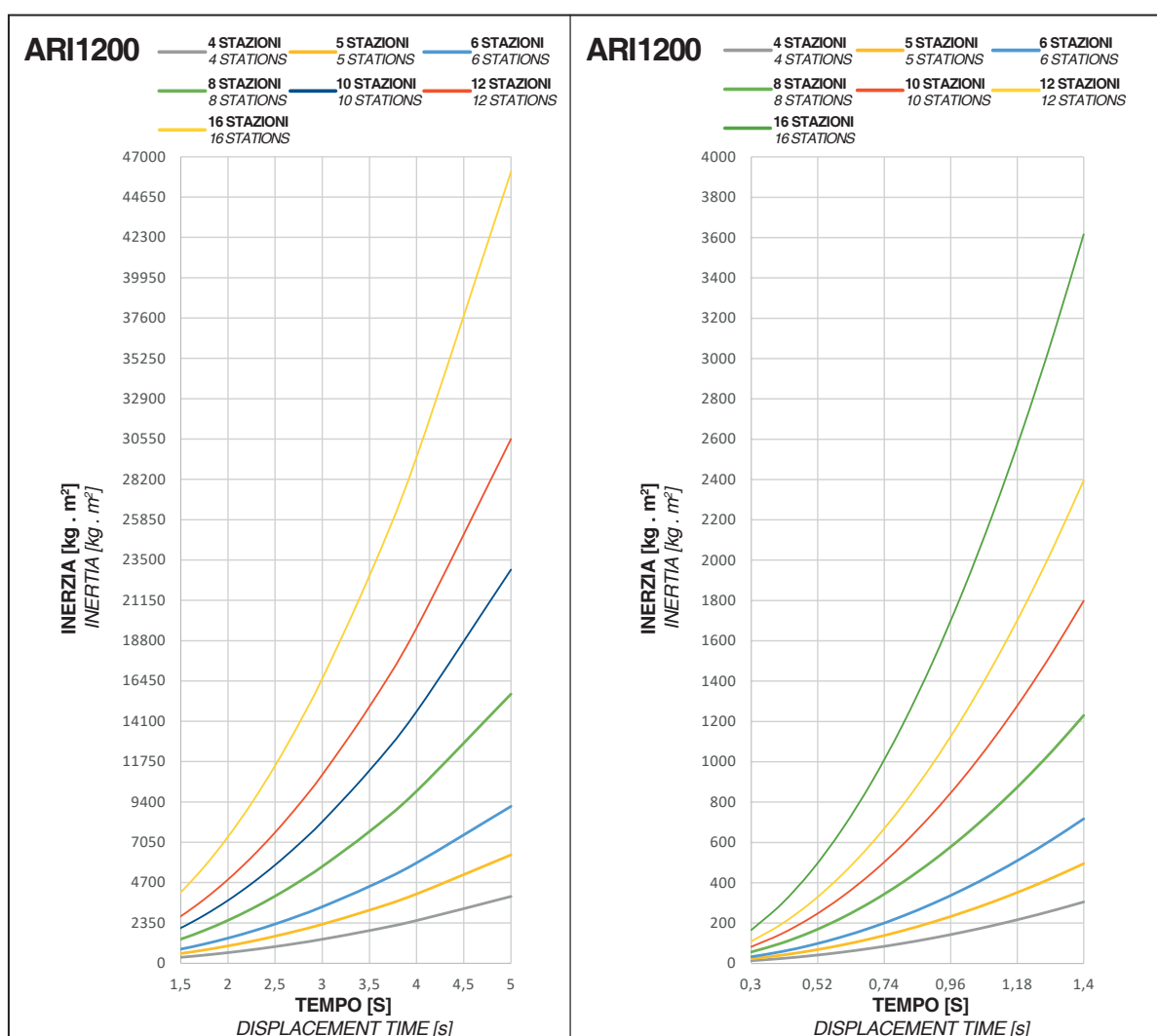
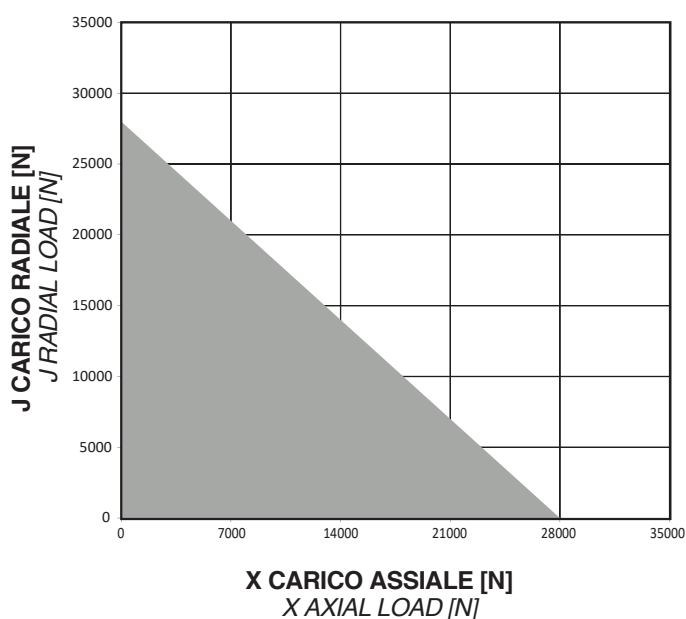
- A: 1200 mm
- Total: 0,05 mm

$$E = \frac{r}{R} \times EE = \pm [mm]$$



ROTARY RINGS

Max axial and radial loads



ANELLI ROTANTI

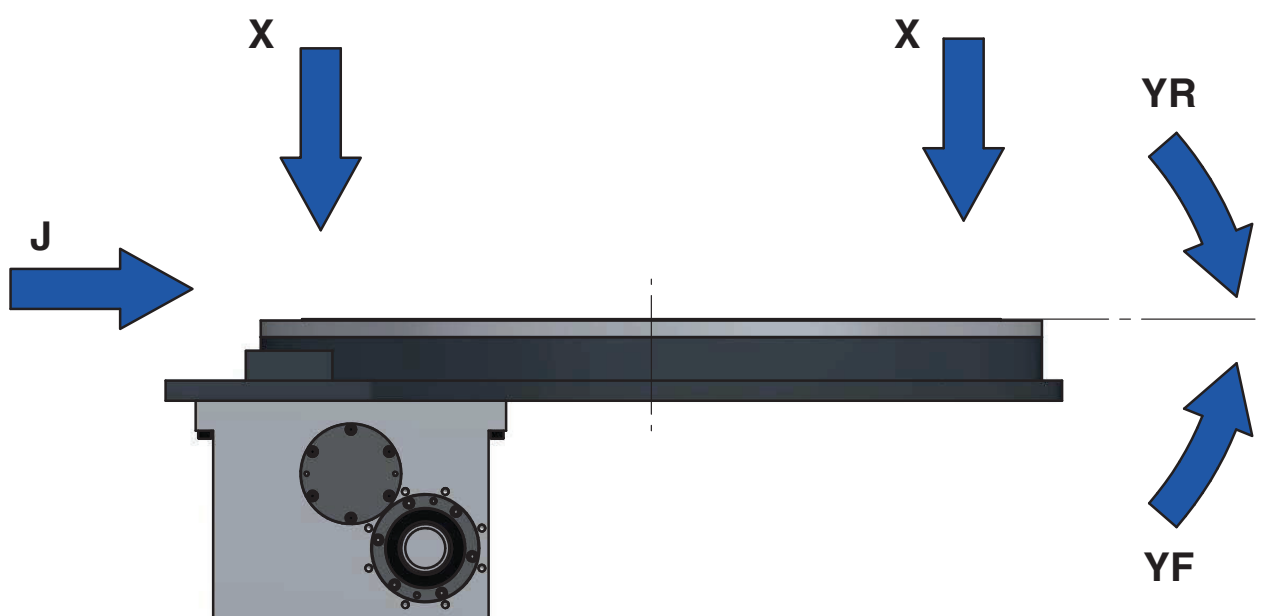
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Carichi assiali e radiali

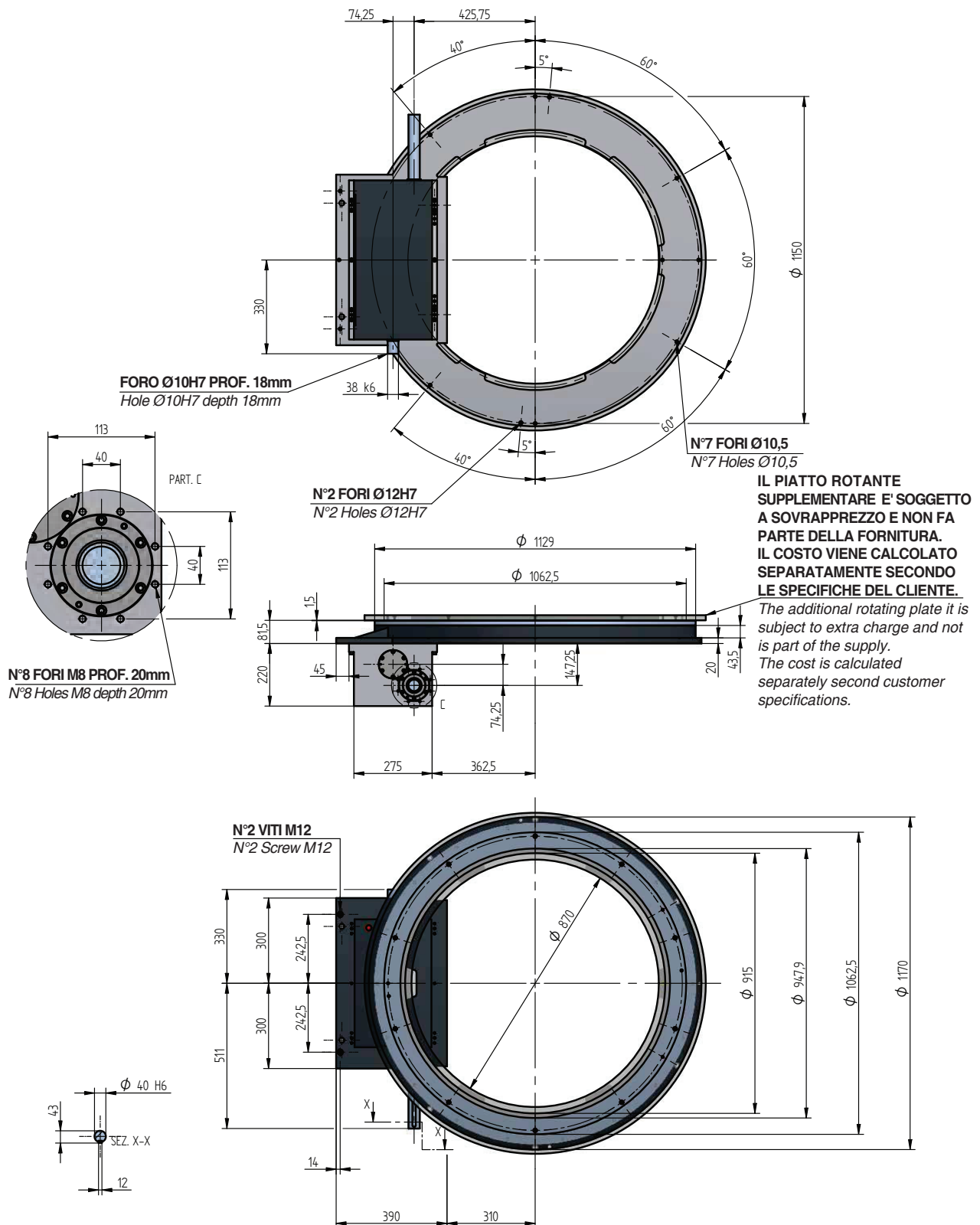
Axial and radial loads

X Carico assiale Axial load	J Carico radiale Radial load	YR Momento ribaltante Overturning torque
N		Nm
28000	28000	3000

ARI 1200



ROTARY RINGS



400 kg

KG

ANELLI ROTANTI

Assembling threaded holes on rotating disk

ARI 1200

