

Catalogue **2023**

REVC MOTION

SUMMARY

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INTRODUCTION

Introduction

Italplant is the ideal solution for your rotary indexing application. Thanks to its long experience in several fields, it has developed a new kind of indexer, that can suits in most of the customer's applications. A different approach, an innovative way to size and choose the motorization, a REVolution in the world of cam mechanism, the one that our customers were waiting for.

Why the REVolution is the definitive rotary table:

- **Big through hole** - the through hole of 250 mm of our REV 600 is complete (not interrupted like in the other products in the market) and large enough to obtain a passage for cables, manipulators or to fix our Stationary Center Post, that can be used as support for robot or stations as well as a fixed central dial plate
- **High Speed** - the purpose of this product is to give with an affordable price the advantage of a large through hole, maintaining the typical fast index time of Italplant products. This can be obtained thanks to specific globoidal cams, produced by Italplant with patented milling machines. Thanks to that, the applications that can be motorized with Italplant Indexing Mechanisms are considerably faster than other systems.
- **Flexibility** - The REV 600 can be provided without motorization, for the connection to a synchronized machine (CONTINUOUS RUNNING MODE), with a set of standard motorization for indexer motion (CYCLE ON DEMAND MODE) or with continuous motion cam with a servo-motor assembly, where it's possible to change the output angle of movement (PROGRAMMABLE MODE).
- **Accuracy** - The Italplant special manufacturing technique ensures that position accuracy is maintained by the elimination of backlash during the dwell. This is possible thanks to the globoidal cam shape of our indexers. Italplant rotary tables for that reason are surely the most accurate in the field of cam mechanism.
- **Smooth movement** - The manufacturing process cams ensures a smooth, shock-free transfer from follower to follower, with positive control throughout the movement.
- **Capacity** - Size for size, the load carrying capacity is higher than that of any other type of indexing mechanism. It means more compactness with the same or more capacity than others product.
- **Reliability** - The mechanisms are of extremely robust proportions, having a long life with virtually no maintenance.



ITALPLANT REV 600 with Cam Fixed Motion



ITALPLANT REV 600 Programmable

One rotary table for more than 60% applications

Thanks to these features, the REVolution is the perfect solution for lots of application. The big through hole is useful in case of need to pass through with cables, stations or robots, but with its high torque and axial load capacity, this indexer is also perfect to be used in the welding application as well. Thanks to its incredible accuracy, can be also chosen for precision mounting operations like electronics and medical and in the end, the zero backlash guaranteed by the mechanical globoidal cam and its rigidity, allows to reach a very fast index time and to increase the productivity. This unique indexer can also be programmable, with a set of servo motors, for flexible applications.

REVOMOTION PRODUCT RANGE

REVOMOTION 600 Cam Fixed Motion

(pag. 13)

Indexed cam C63

Indexed cam C75

Indexed cam C90

Indexed cam C110

Indexed cam C130

REVOMOTION 600 Programmable Motion

(pag. 25)

Servo motor P01

Servo motor P02

Servo motor P03

Servo motor P04

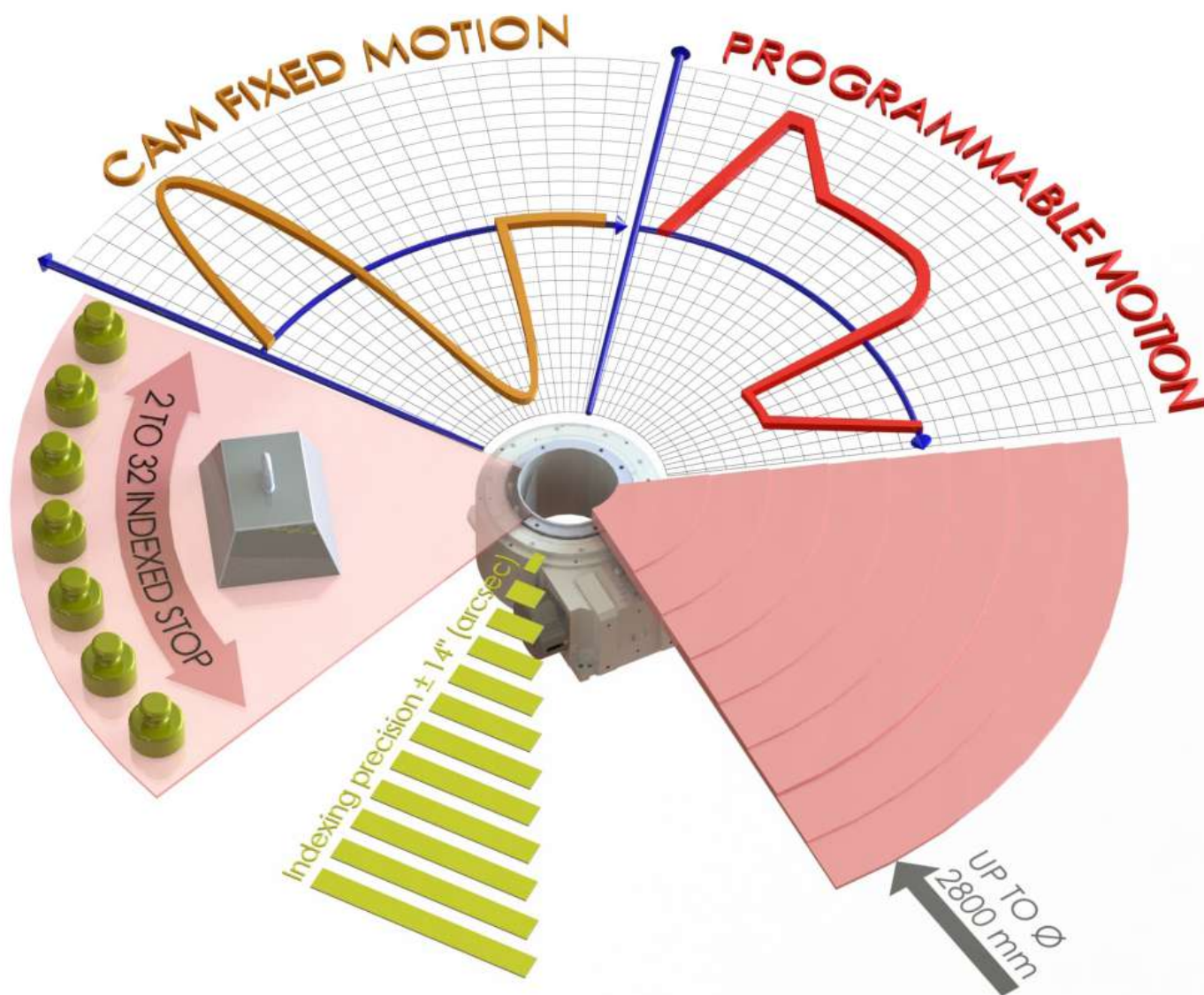
Servo motor P05

Servo motor P06

STEP 1: CHOOSE YOUR DIAL PLATE SIZE

One Indexer for many purposes

The Italplant REVOfmotion indexer is the most versatile rotary table in the world. It fits perfect in all the applications that requires a big through hole, from 2 to 32 indexed stops or fully programmable with servo motor, suitable for dial plate up to 2800 mm, with axial load up to 3 tons, and a dynamic capacity that is more than the double of every other similar dimension indexer. In addition to that, all is made with the typical extremely high positioning accuracy that only Italplant is able to give, thanks to the preloaded mechanism with GLOBOIDAL cam, for an extremely long life.



STEP 2: CHOOSE THE FIXING FACE

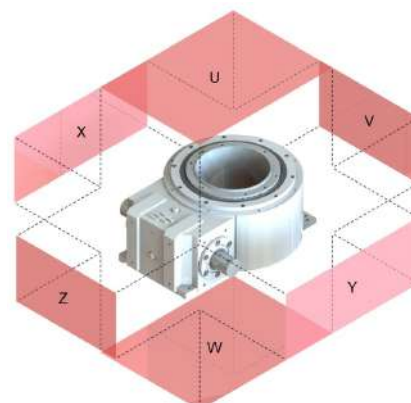
How to fix the indexer

The choosing of the face used for the connection on the indexer to your base frame needs to be defined in order to use its attachments holes for a rigid positioning and for optimal reading of the oil sight glass.

It's possible to use or not all the faces of the next image.

Available mounting faces:

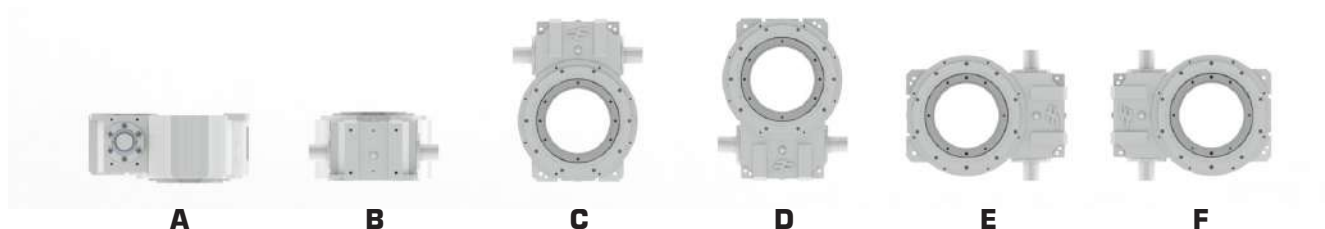
- W - U - Z



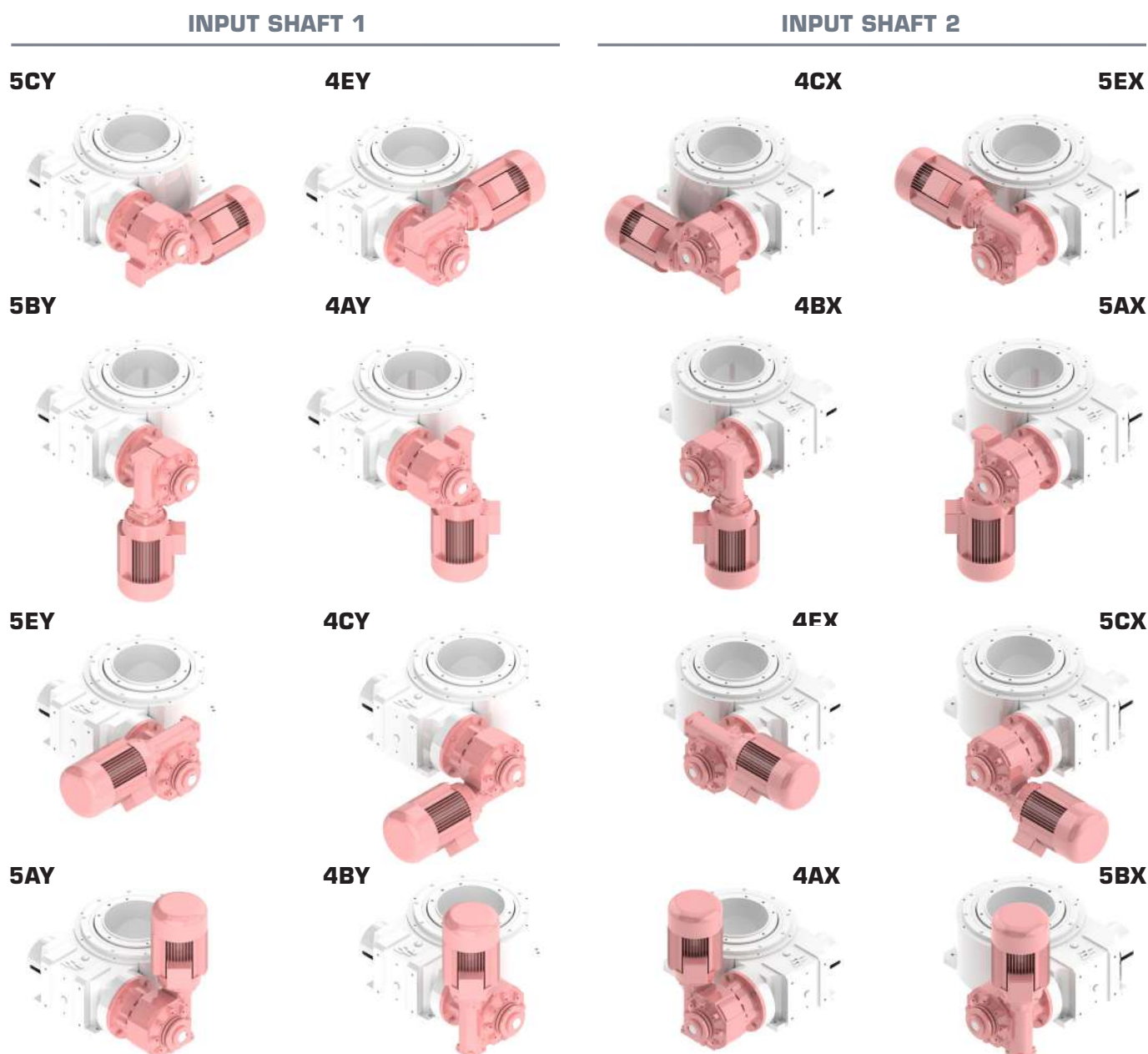
STEP 3: CHOOSE THE MOUNTING POSITION

INDEXER mounting position

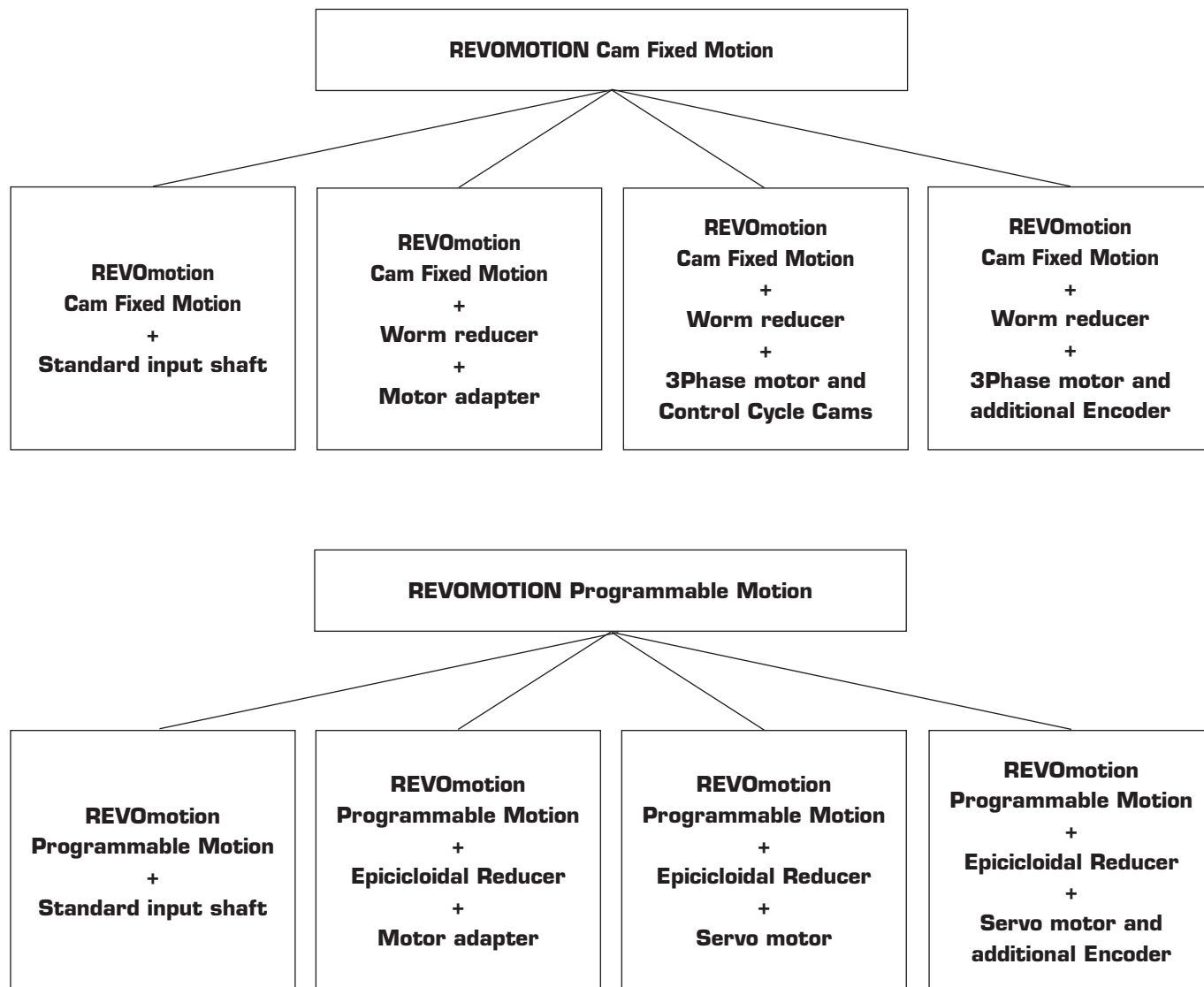
The first parameter to define it's the indexer position. After that, the input shaft where is fitted the motoreducer (if requested) and its orientation.



DRIVE mounting position



STEP 4: CHOOSE THE MOTORIZATION



ITALPLANT REV-600 + Standard input shaft



ITALPLANT REV-600 + Worm Reducer + 3Phase motor and Control Cycle Cams



ITALPLANT REV-600 + Epicycloidal Reducer + Servo motor and additional Encoder

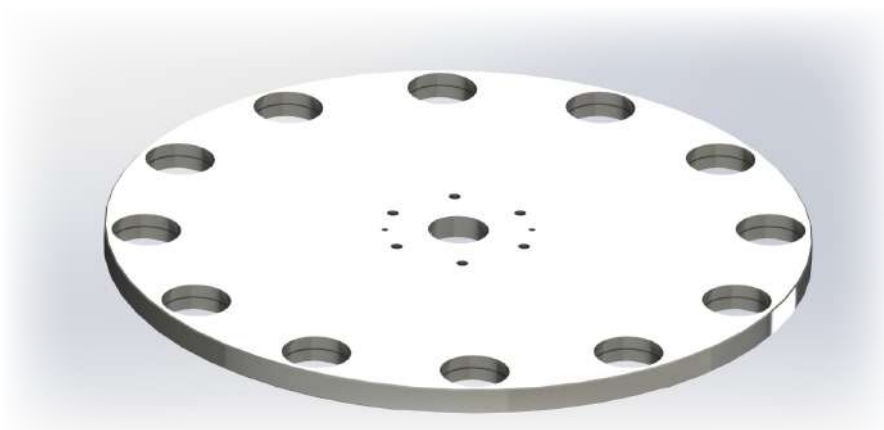
OPTIONAL FEATURES

DIAL PLATE

To support the piece's fixtures, for most of the indexer applications is used a dial plate.

Made in aluminum or steel, it becomes the most important component after the rotary table. In fact, thanks to a finely machined dial plate all the stations will be positioned with the accuracy of hundredths of a millimeter.

ITALPLANT can provide custom size dial plates, with screws holes, centering hole pins holes and special openings to reduce the weight.



STATIONARY CENTER POST

The ITALPLANT REVOMotion indexer, it's always provided with a complete passing through hole of 250 mm in the middle of the output turret. Useful to pass electrical cables or pneumatic pipes, ready to be distributed on the upper dial plate. It's possible to ask for this hole in tolerance, in case the customer needs to connect a central rotating shaft.

In addition to that, Italplant provide as optional the Stationary Center Post, a shaft that gives a fixed point of attachments for upper customer's components. Inside this component, it's also possible to ask for a passing through hole, in tolerance on request.



REVObox

For the control of the position operated in Cam Fixed Motion or Programmable Motion, Italplant has developed the new REVObox.

This is not a standard control cycle box, because it has been designed to mount 2 Control Cycle Cams for the normal one direction indexer movement or 3 Control Cycle Cams for oscillation applications and its shape ensures to protect the sensors from the environment. It can be also used with build-in encoders, for fixed/programmable motion control, without any additional size.



OPTIONAL FEATURES

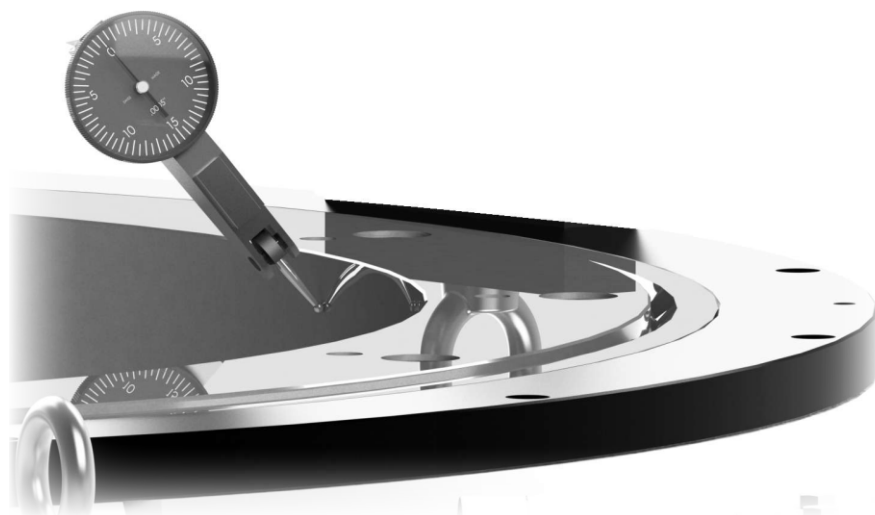
EXTRA ACCURACY

The range of globoidal indexer allows the customers to choose between a wide range of angular positioning accuracy.

If the value indicated is not enough, thanks to his know how and fine selection of the components, ITALPLANT can grant extra accuracy to certain kind of rotary tables.

Feel free to ask our Tech Dept. an extra accuracy customization, by indicating the type of indexer chosen and the minimum value of accuracy required on every station, in arcsec measured from the center of the indexer.

By request, a test report will be provided before the delivery, to prove the real value of the indexer's accuracy.

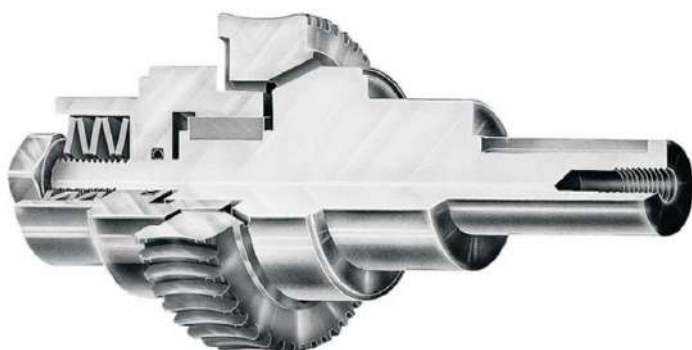
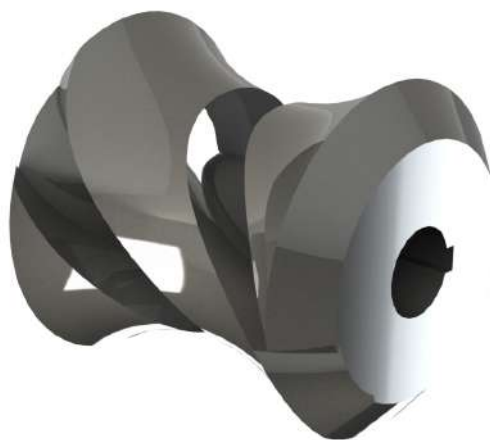


HIGH SPEED INDEXERS

The most suitable indexer version for the high speed is the Globoidal MK2, thanks to its reduced internal inertia and double conical bearings.

However, also the other globoidal versions can run faster, thanks to a special ITALPLANT kind of cam, born for that.

Please feel free to indicate the desired index time to our Tech Dept. that will verify the feasibility and will size the correct cam.



SITL

This system protects the rotary table in case of safety panic stops operated on the motor.

It's composed by friction that in case of over-torque generated by the motor, is able to cut the cinematic motion in this direction. It allows also a smooth machine stop.

With this system, the weakest components of the indexer, the roller followers, are protected and the life of the indexer is increased.

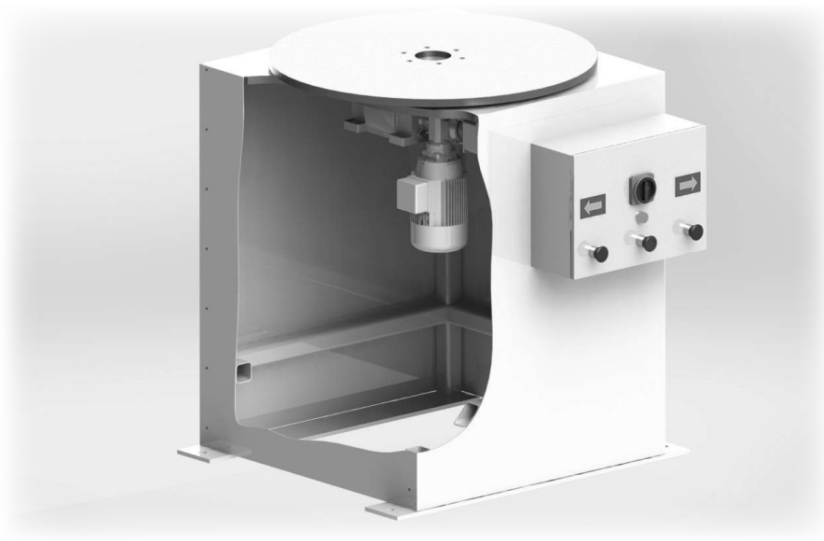
OPTIONAL FEATURES

BASE CELL FOR INDEXERS

In case of need of a machine base with an indexer built in ready to be used, ITALPLANT is able to propose a full base cell.

This is composed by a solid soldered structure that gives rigidity to the application and user control panel, for the control in real time of the indexer motion, plus a customized dial plate mounted on the indexer suitable for the customer's application.

The base cell can be provided with different voltages in reference to the different country where will be used and it CE marked.



FOOD & PHARMACEUTICALS

The environment of each applications can means to ask for special materials allowed in food productions and many other fields, like clean room machinery.

For these specific requirements, ITALPLANT propose a wide ranges of solutions, like the use of alimentar oil/grease or different materials, as aluminum, steel or plastic. This last material had been developed not only for food and pharmaceuticals applications, but also explosive environments.

EXAMPLE OF APPLICATIONS



REV 600 - C75 - Electrical components assembly



REV 600 - P03 and C130 - Automation bearing induction hardening process

GLOBOIDAL INDEXER REV 600 **CAM FIXED MOTION**

The Globoidal Slimdex serie REV 600 had been developed in order to be used for the widest range of possible applications. The housing has a large location diameter onto which a stationary plate can be attached, as well through which services such as air and/or liquids can be passed. These units feature Globoidal cam controlled movement for speed, accuracy and reliability at prices competitive considering the absolute unique performance and flexibility. For oscillator function, indexers stops up to 2 are available.

Options:

- Stationary center-post
- Solid state speed controller with start on demand, auto-stop and dynamic breaking

Features:

- High precision heavy duty cam followers for smooth motion and accurate indexing
- Fully ground and hardened globoidal cam
- High speed for continuous motion running applications



Available versions

C63 - C75 - C90 - C110 - C130

REV 600 - C63

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Though Hole
- Provided with three-phase motoreducer

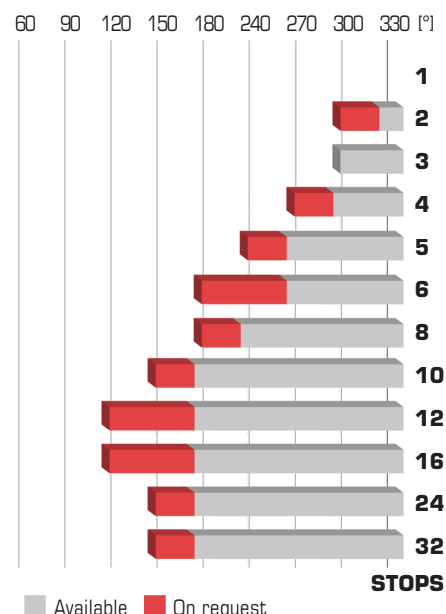
Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oli or grease
- Inverter 

Input shaft cam angles



Maximum mass inertia loading (kgm²)

STOPS	Index time [s]											
	0.16	0.24	0.32	0.48	0.64	0.80	0.96	1.29	1.61	2.09	2.57	3.25
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	2.17	9.67	20.3	54.5	65.2	107
3	-	-	-	-	1.42	3.68	9.70	28.6	55.5	141	168	273
4	-	-	-	1.45	4.38	8.19	18.5	50.4	95.9	241	286	463
5	-	-	-	4.16	8.92	15.1	31.9	83.6	158	393	467	754
6	-	-	-	5.79	11.7	19.3	40.0	104	195	486	577	931
8	-	-	2.41	12.5	23.0	36.6	73.3	187	349	866	1027	1658
10	-	-	5.40	21.2	37.5	58.8	116	294	547	1355	1607	2592
12	-	1.39	9.05	31.8	55.3	85.9	169	424	789	1952	2315	3733
16	-	4.81	10.0	35.2	92.0	150	173	428	734	1477	1856	3140
24	3.08	14.4	26.2	82.8	211	272	543	734	1855	2679	3986	3994
32	7.72	27.9	48.8	140	251	391	560	1010	2251	3952	3994	4055

Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available stops	Centre distance	Denomination
2 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 16 - 24 - 32 OTHER STOPS AVAILABLE ON REQUEST	254 mm	REV 600 - C63

Configurations

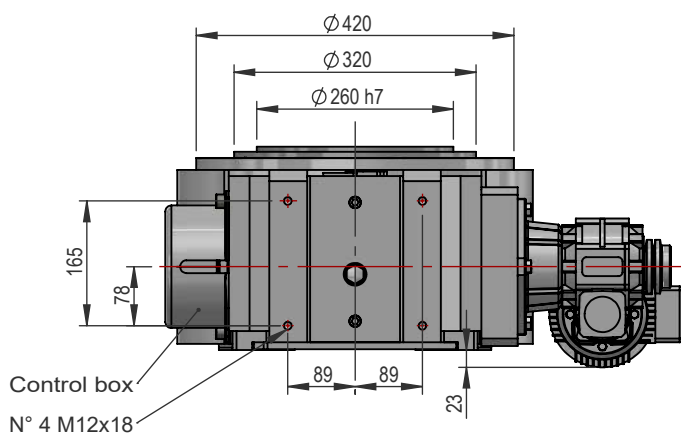
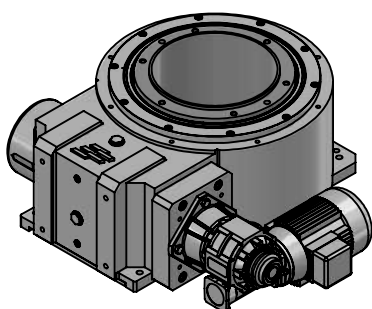
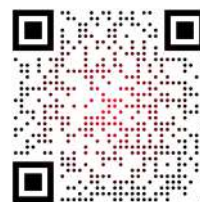
Worm gearbox 63	Three-Phase motor 71 (0.25-0.55 kW)	With brake
Helical worm gearbox 63	Three-Phase motor 80 (0.55-0.95 kW)	Whiteout brake
	Three-Phase motor 90 (1.1-2.2 kW)	

Quick 3D file download

The drawing of page 15 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:

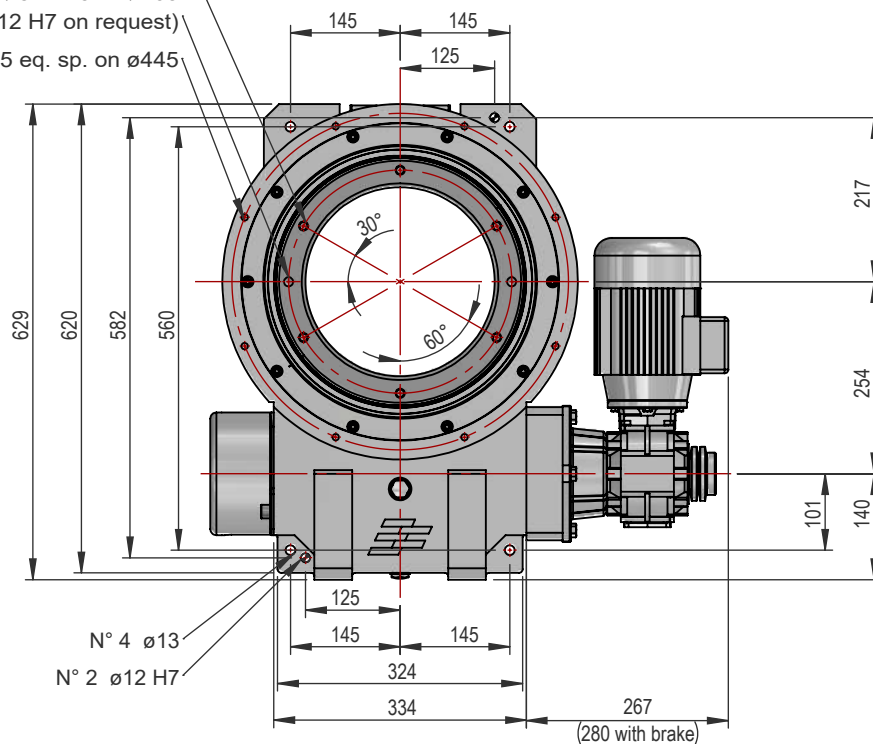
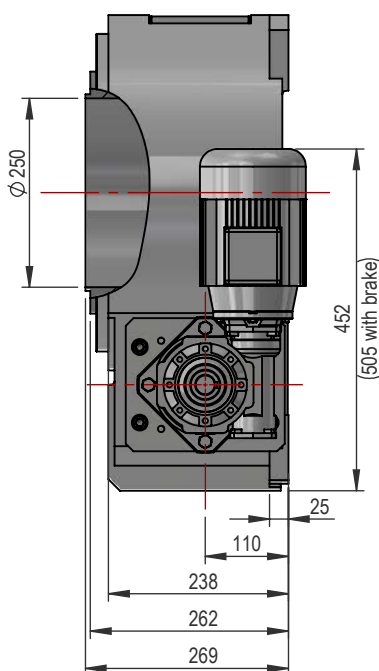
REV 600 - C63 - TN 71 - NB



N° 6 M12x25 eq. sp. on $\Phi 295$

N° 2 $\Phi 8.2$ x25 on $\Phi 295$
($\Phi 12$ H7 on request)

N° 8 M8x25 eq. sp. on $\Phi 445$



Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

REV 600 - C75

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Though Hole
- Provided with three-phase motoreducer

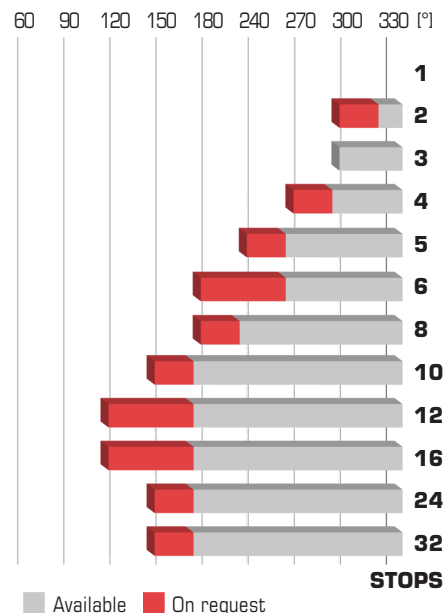
Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oli or grease
- Inverter 

Input shaft cam angles



Maximum mass inertia loading (kgm²)

STOPS	Index time [s]											
	0.16	0.24	0.32	0.48	0.64	0.80	0.96	1.29	1.61	2.09	2.57	3.25
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	0.47	2.36	9.01	20.2	50.8	100	109	177
3	-	-	-	1.48	5.46	10.2	26.9	55.0	132	256	278	448
4	-	-	-	4.46	11.2	19.3	47.5	94.9	225	435	473	760
5	-	-	2.64	10.5	22.8	37.5	88.9	175	413	795	865	1388
6	-	0.58	3.18	11.8	25.4	41.5	98.1	193	454	874	951	1527
8	-	3.24	7.87	23.3	47.3	76.0	177	346	809	1556	1694	2716
10	-	6.71	13.9	38.0	75.5	120	278	542	1266	2433	2648	3876
12	-	10.9	21.3	55.9	110	175	401	781	1824	3505	3814	3888
16	2.44	10.1	22.1	86.8	171	270	403	771	1211	2420	3926	3932
24	9.14	26.4	53.5	132	242	390	911	998	2175	3490	3993	3995
32	15.8	35.1	62.8	135	250	399	560	1010	2332	3498	3997	4101

Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available stops	Centre distance	Denomination
2 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 16 - 24 - 32 OTHER STOPS AVAILABLE ON REQUEST	254 mm	REV 600 - C75

Configurations

Worm gearbox 75	Three-Phase motor 80 (0.55-0.95 kW)
Helical worm gearbox 75	Three-Phase motor 90 (1.1-2.2 kW)
	Three-Phase motor 100 (2.2-4 kW)
	Three-Phase motor 112 (4-5.5 kW)

With brake

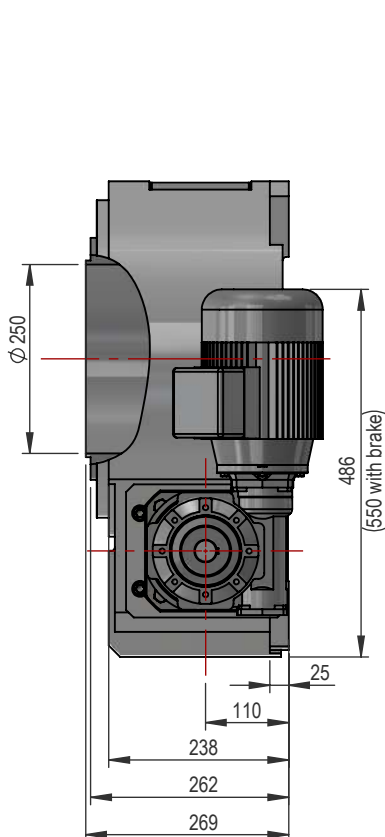
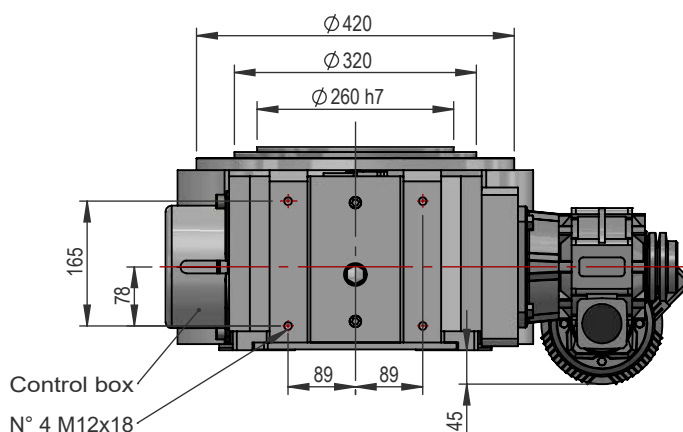
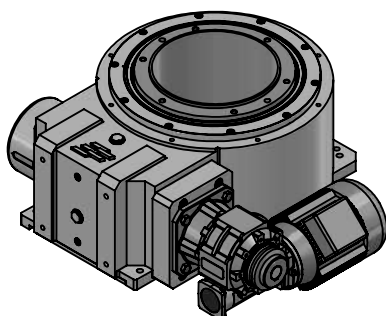
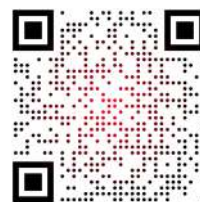
Whiteout brake

Quick 3D file download

The drawing of page 17 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:

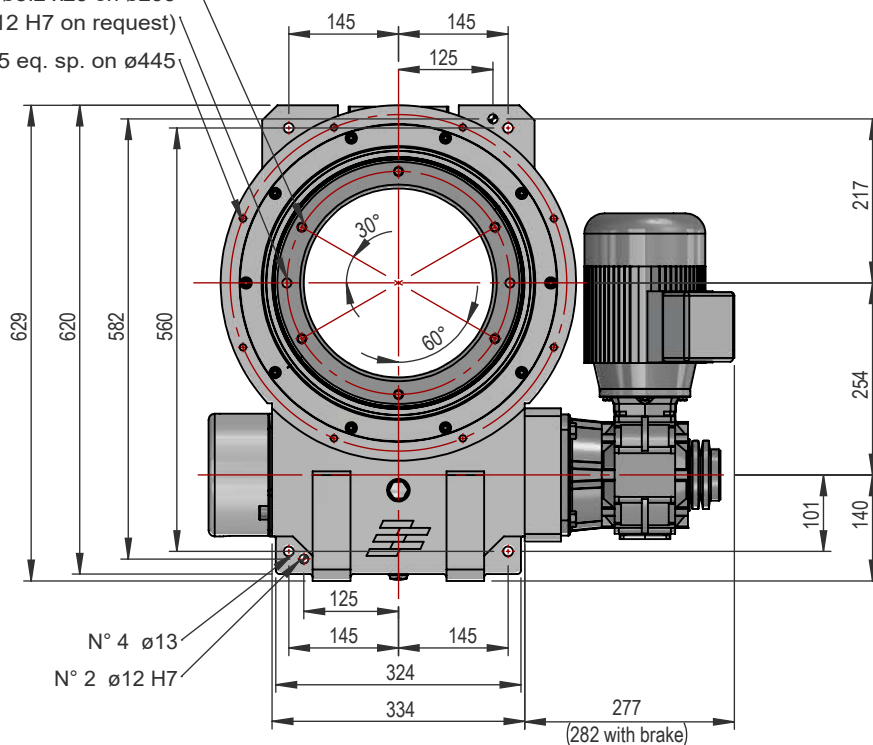
REV 600 - C75 - TN 80 - NB



N° 6 M12x25 eq. sp. on Ø295

N° 2 Ø8.2 x25 on Ø295
(Ø12 H7 on request)

N° 8 M8x25 eq. sp. on Ø445



Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

REV 600 - C90

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Though Hole
- Provided with three-phase motoreducer

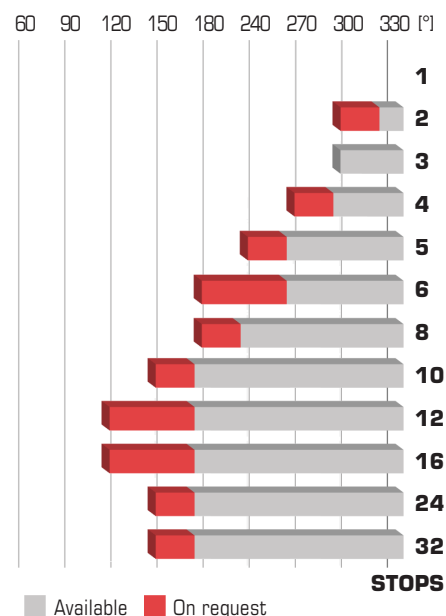
Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oli or grease
- Inverter 

Input shaft cam angles



Maximum mass inertia loading (kgm²)

STOPS	Index time [s]											
	0.16	0.24	0.32	0.48	0.64	0.80	0.96	1.29	1.61	2.09	2.57	3.25
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	3.21	5.51	11.1	25.8	74.8	128	198	319
3	-	-	-	3.46	12.4	18.1	32.1	69.0	192	325	502	805
4	-	-	1.44	7.81	22.9	32.6	56.2	119	327	552	851	1364
5	-	1.29	4.15	14.5	39.0	54.8	93.1	195	533	898	1385	2217
6	-	2.26	5.78	18.6	48.7	68.3	116	241	658	1109	1710	2737
8	-	6.24	12.5	35.2	88.9	124	208	431	1172	1974	3042	3860
10	0.48	11.3	21.1	56.6	140	195	326	675	1833	3085	3813	3883
12	1.99	17.6	31.7	82.8	204	282	471	973	2055	3760	3814	3912
16	4.75	16.1	42.9	102	214	338	538	978	2176	3800	3926	3965
24	14.4	35.5	58.6	137	255	396	550	1005	2296	3895	3997	4125
32	16.0	37.9	63.4	138	256	405	569	1022	2370	3990	4150	4225

Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available stops	Centre distance	Denomination
2 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 16 - 24 - 32 OTHER STOPS AVAILABLE ON REQUEST	254 mm	REV 600 - C90

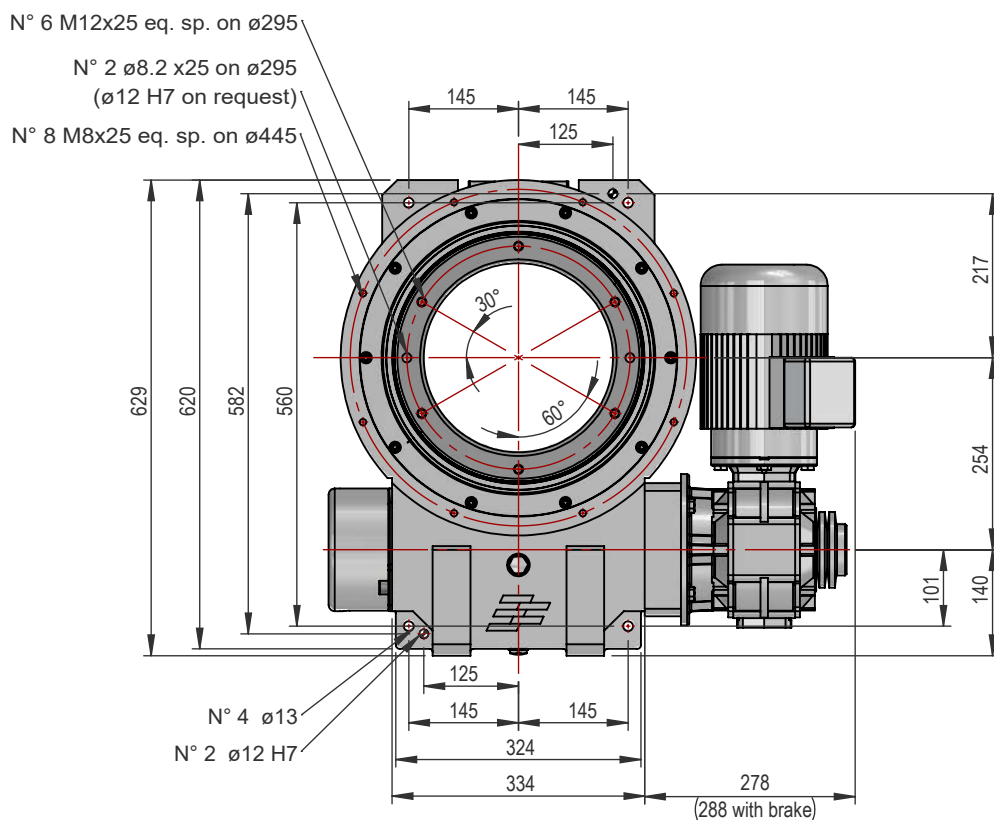
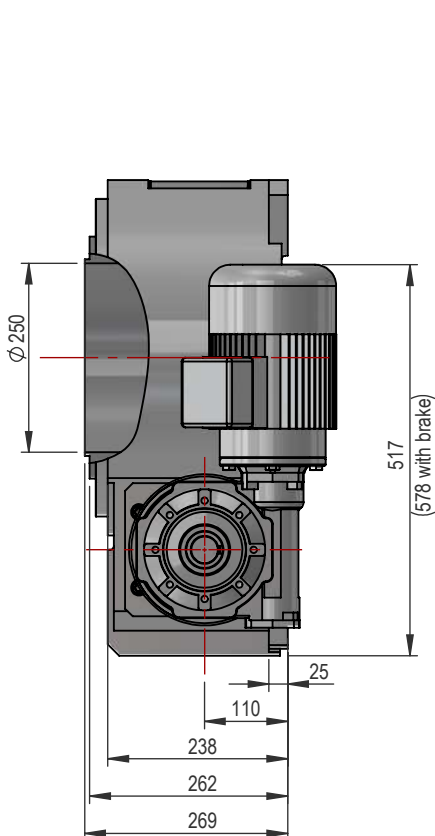
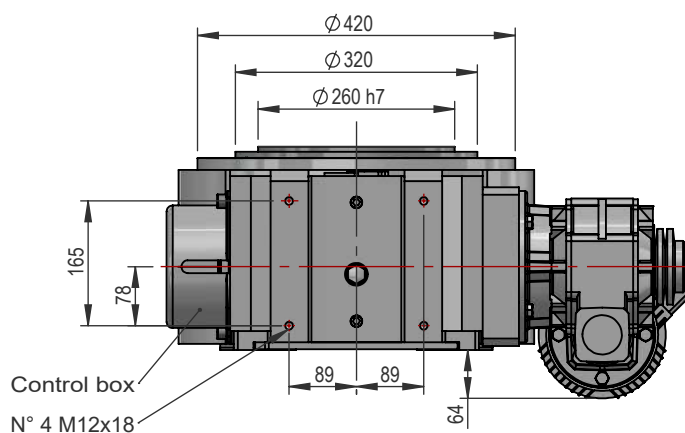
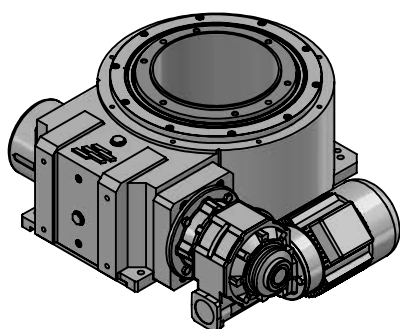
Configurations

Worm gearbox 90	Three-Phase motor 80 (0.55-0.95 kW)	With brake
	Three-Phase motor 90 (1.1-2.2 kW)	Whiteout brake
	Three-Phase motor 100 (2.2-4 kW)	
Helical worm gearbox 90	Three-Phase motor 112 (4-5.5 kW)	

Quick 3D file download

The drawing of page 19 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:
REV 600 - C90 - TN 90S - NB



Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

REV 600 - C110

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Though Hole
- Provided with three-phase motoreducer

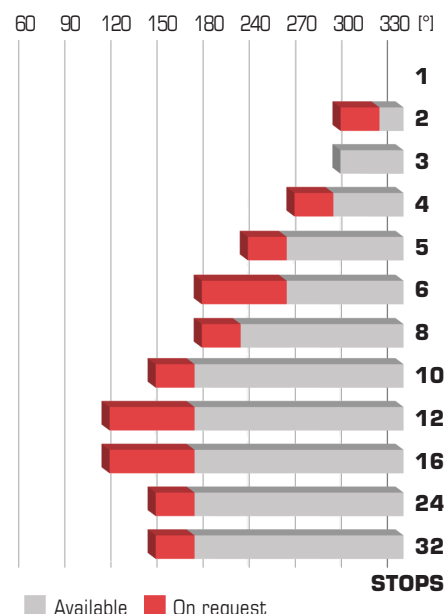
Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oli or grease
- Inverter 

Input shaft cam angles



Maximum mass inertia loading (kgm²)

STOPS	Index time [s]											
	0.16	0.24	0.32	0.48	0.64	0.80	0.96	1.29	1.61	2.09	2.57	3.25
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	2.17	9.09	13.6	26.1	47.5	117	276	431	566
3	-	-	2.37	9.75	27.1	38.5	69.8	124	297	698	1087	1426
4	-	1.73	5.98	18.5	47.8	67.1	120	211	505	1183	1841	2414
5	-	4.61	11.5	31.8	79.5	111	197	345	822	1923	2991	3923
6	0.52	6.35	14.9	39.9	98.8	137	243	426	1015	2374	3692	3936
8	3.14	13.5	28.7	73.1	178	246	435	760	1807	2891	3898	3941
10	6.49	22.7	46.4	116	202	311	491	831	2024	3625	3914	3996
12	8.48	34.0	52.6	120	221	335	521	925	2115	3826	4003	4100
16	12.8	35.1	58.4	126	234	362	563	990	2274	3903	4102	4198
24	15.1	37.1	61.5	130	249	377	580	1011	2310	3992	4196	4264
32	16.5	38.2	64.5	140	259	410	584	1042	2390	4001	4256	4370

Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available stops	Centre distance	Denomination
2 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 16 - 24 - 32 OTHER STOPS AVAILABLE ON REQUEST	254 mm	REV 600 - C110

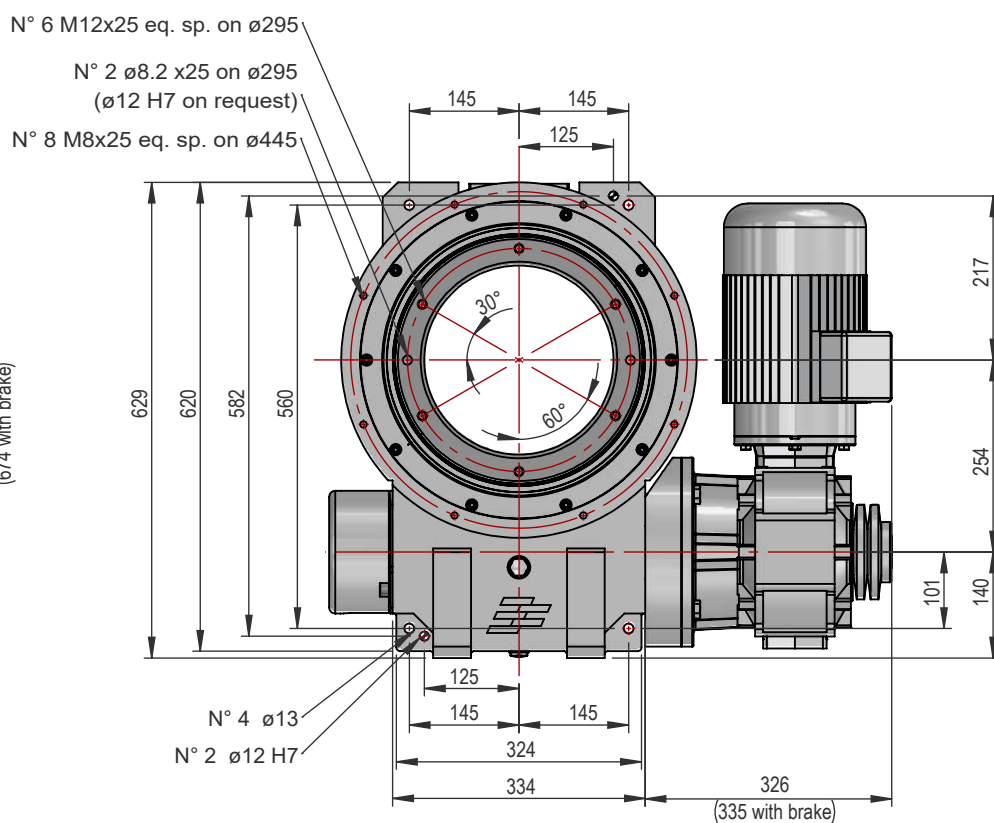
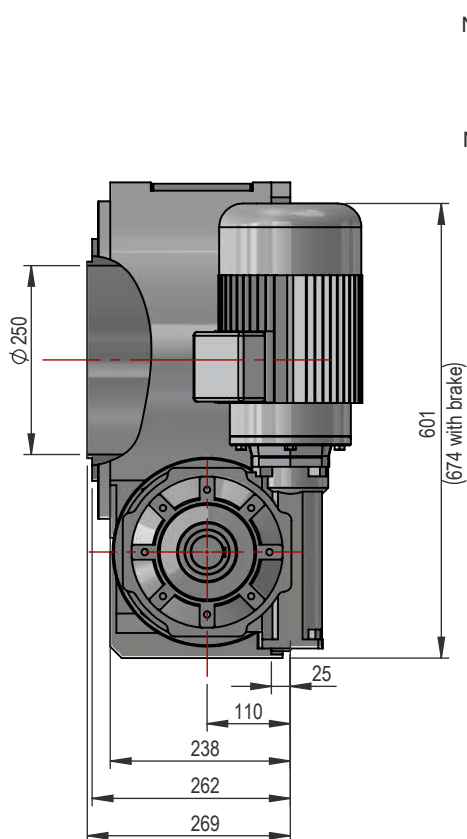
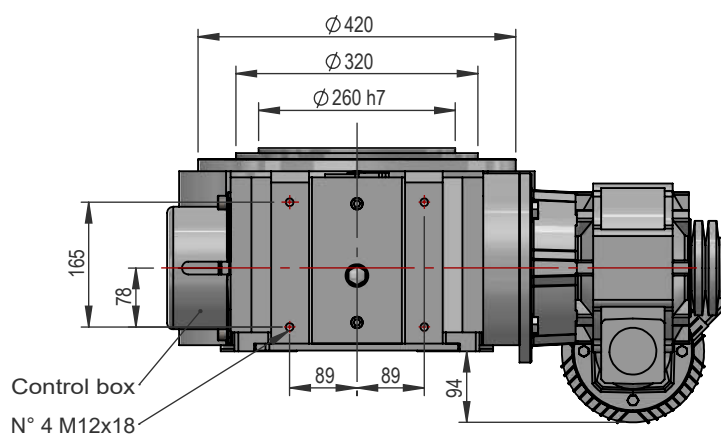
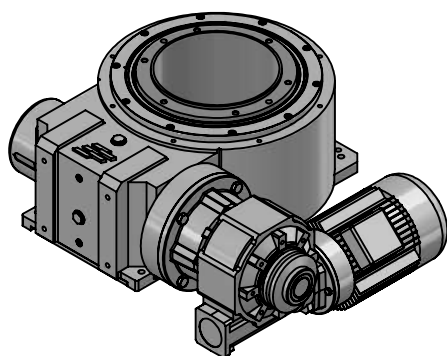
Configurations

Worm gearbox 110	Three-Phase motor 90 (1.1-2.2 kW)	With brake
	Three-Phase motor 100 (2.2-4 kW)	Whiteout brake
Helical worm gearbox 110	Three-Phase motor 112 (4-5.5 kW)	
	Three-Phase motor 132 (5.5-11 kW)	

Quick 3D file download

The drawing of page 21 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:
REV 600 - C110 - TN 100 - NB



Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

REV 600 - C130

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Though Hole
- Provided with three-phase motoreducer

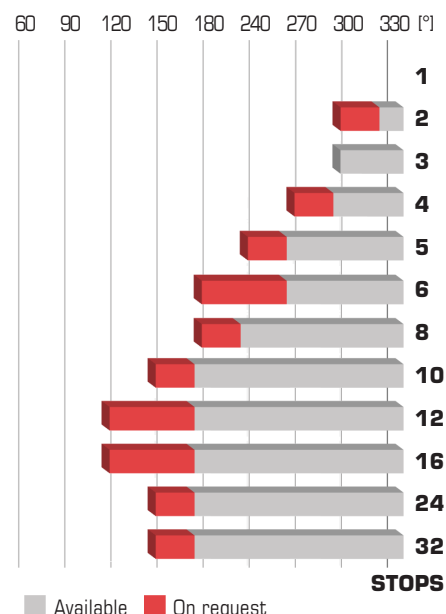
Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oli or grease
- Inverter 

Input shaft cam angles



Maximum mass inertia loading (kgm²)

STOPS	Index time [s]											
	0.16	0.24	0.32	0.48	0.64	0.80	0.96	1.29	1.61	2.09	2.57	3.25
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	5.93	13.9	20.7	38.0	93.2	225	377	547	847
3	-	-	3.73	19.2	39.2	56.3	99.6	238	568	951	1378	2132
4	-	1.76	8.27	34.4	68.3	97.3	171	405	964	1611	2334	3609
5	0.32	4.67	15.2	57.7	113	160	279	660	1567	2618	3793	3996
6	1.06	6.43	19.5	71.9	140	198	345	815	1935	3232	3923	4056
8	4.11	13.6	36.8	130	251	354	471	890	2120	3121	4164	4257
10	8.00	22.9	59.1	138	254	375	506	914	2002	3797	4289	4328
12	12.8	34.3	61.3	139	257	387	547	968	2245	3987	4352	4391
16	15.7	36.9	63.2	141	261	393	570	990	2310	4013	4398	4429
24	16.0	38.4	64.9	143	263	403	591	1070	2378	4102	4409	4522
32	16.8	39.1	65.7	143	265	416	596	1110	2490	4193	4453	4590

Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available stops	Centre distance	Denomination
2 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 16 - 24 - 32 OTHER STOPS AVAILABLE ON REQUEST	254 mm	REV 600 - C130

Configurations

Worm gearbox 130

Helical worm gearbox 130

Three-Phase motor 90
(1.1-2.2 kW)

Three-Phase motor 100
(2.2-4 kW)

Three-Phase motor 112
(4-5.5 kW)

Three-Phase motor 132
(5.5-11 kW)

With brake

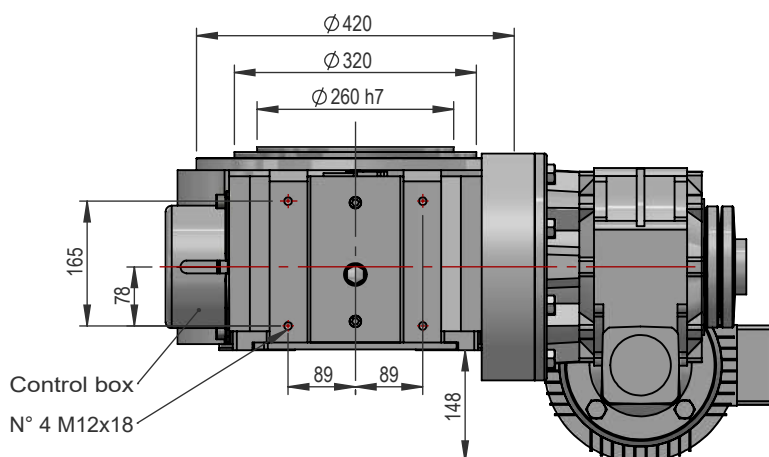
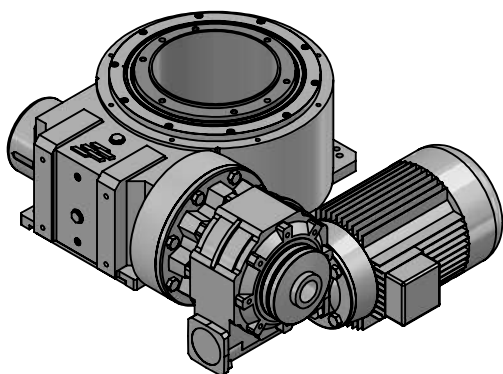
Whiteout brake

Quick 3D file download

The drawing of page 23 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:

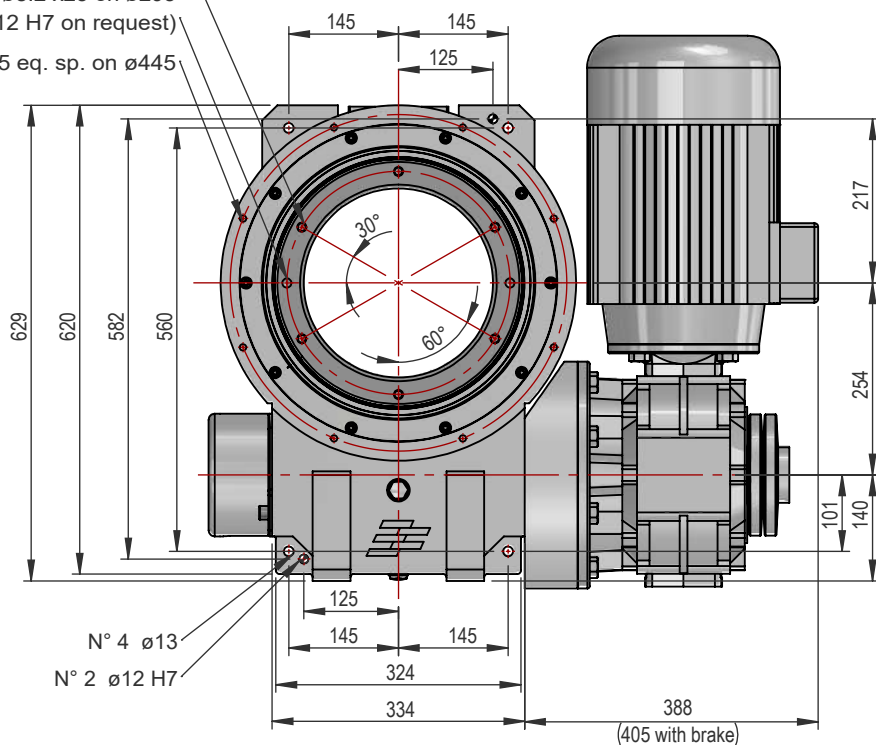
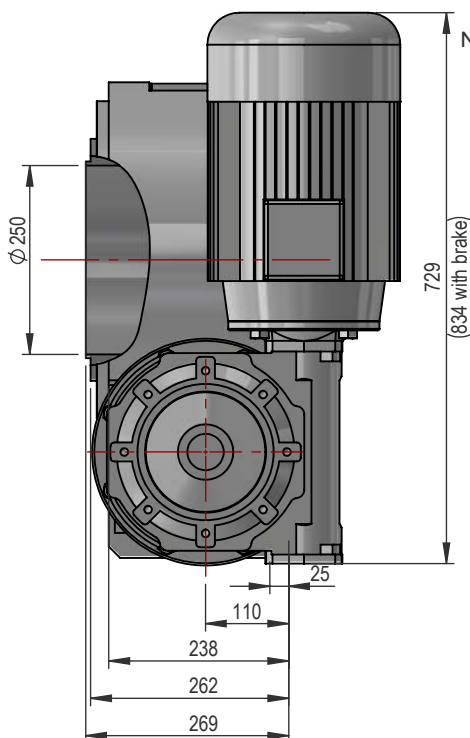
REV 600 - C130 - TN 132S - NB



N° 6 M12x25 eq. sp. on Ø295

N° 2 Ø8.2 x25 on Ø295
(Ø12 H7 on request)

N° 8 M8x25 eq. sp. on Ø445



Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

GLOBOIDAL INDEXER REV 600 PROGRAMMABLE

The Globoidal Slimdex serie REV 600 can be also provided with a continuous globoidal cam controlled by a servo motor, fully programmable with preset motion laws. This solution merges the advantages of a high accuracy globoidal cam and the flexibility of a servo controlled motion.

Italplant proposes 6 standard configurations, ready to be used, just verified with standard cam mechanism laws that had been transformed into electronic cams, optimized in order to obtain the best performance with the typical rigidity of Italplant products.

Options:

- Stationary center-post
- Choice of motor/planetary gearbox positions
- Additional encoder for extra-accuracy versions

Features:

- High precision heavy duty cam followers for powerful motion and accurate positioning
- Fully ground and hardened globoidal cam



Available versions

P01 - P02 - P03 - P04 - P05 - P06

REV 600 - P01

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Through Hole
- Provided with servo motor

Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oil or grease
- Driver 

Programmable driver

The REV 600 it's provided together with its specific motion driver and software

Power Supply

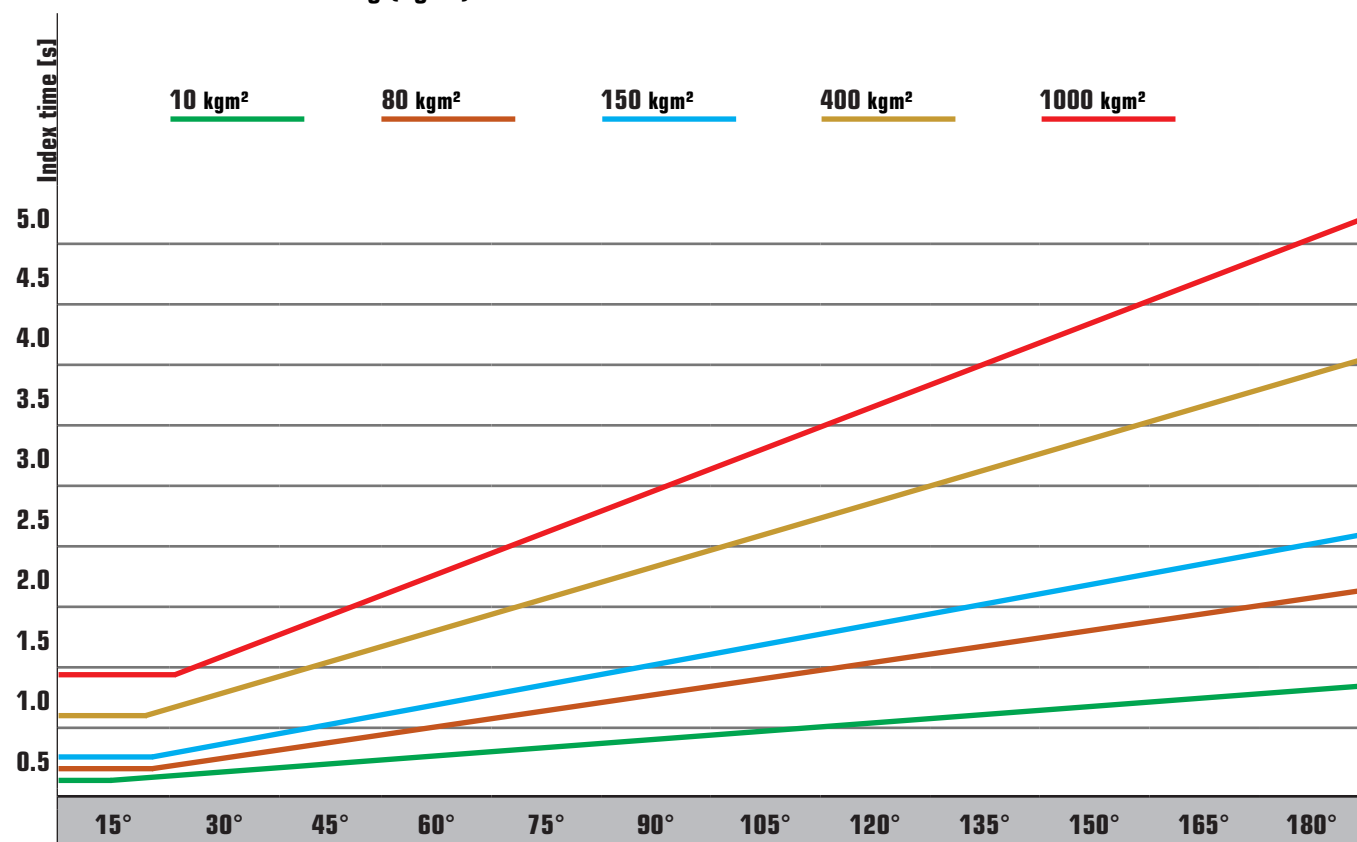
- Single-phase: 230V 50/60 Hz +EMC filter
- Three-phase: 480V 50/60 Hz +EMC filter

Communication

- Modbus serial link (standard)
- Pulse train (standard)
- CANopen/CANmotion
- DeviceNet
- EtherNet/IP
- Profibus DP V1
- Ethercat
- Profinet
- Modbus TCP



Maximum mass inertia loading (kgm²)



Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available versions	Centre distance	Denomination
STANDARD TYPE EQUIPPED WITH SE BMH1002 OTHER BRANDS ON REQUEST	254 mm	REV 600 - P01

Configurations

Rigt angle planetary Gearbox 120

**Servomotor 1002
(5.9 Nm)**

With brake

Whiteout brake

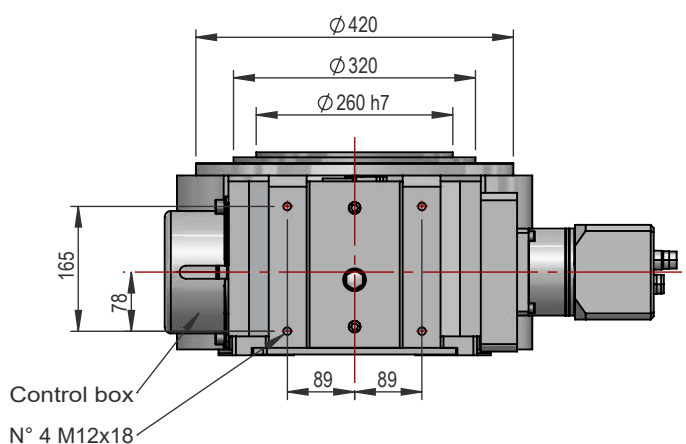
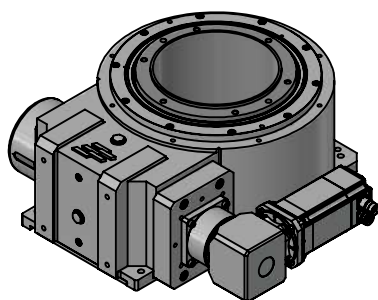
Planetary Gearbox 120

Quick 3D file download

The drawing of page 27 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:

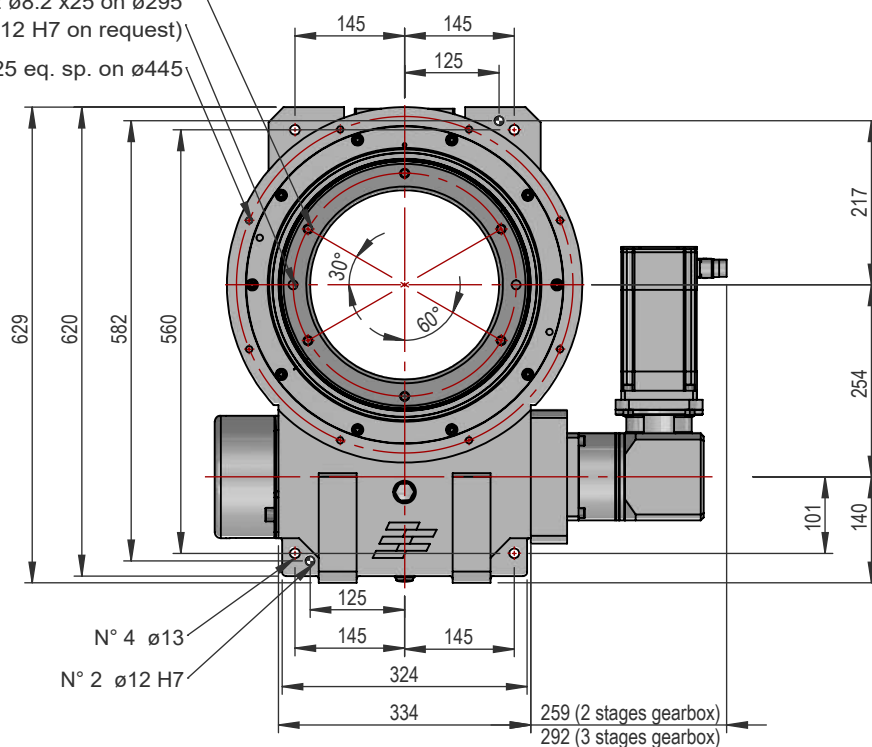
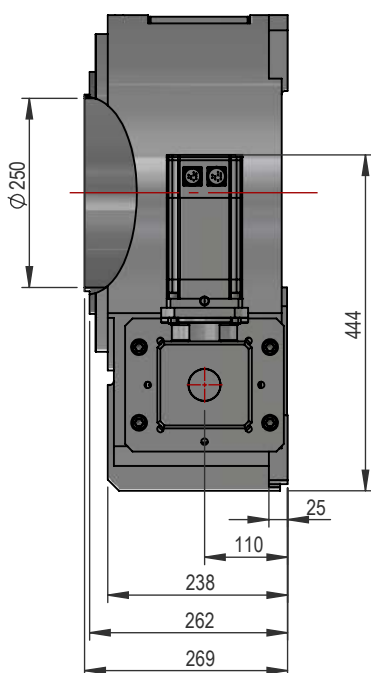
REV 600 - P01 - TEP 120 - NB



N° 6 M12x25 eq. sp. on $\varnothing 295$

N° 2 $\varnothing 8.2 \times 25$ on $\varnothing 295$
($\varnothing 12\ H7$ on request)

N° 8 M8x25 eq. sp. on $\varnothing 445$



Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

REV 600 - P02

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Through Hole
- Provided with servo motor

Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oli or grease
- Driver 

Programmable driver

The REV 600 it's provided together with its specific motion driver and software

Power Supply

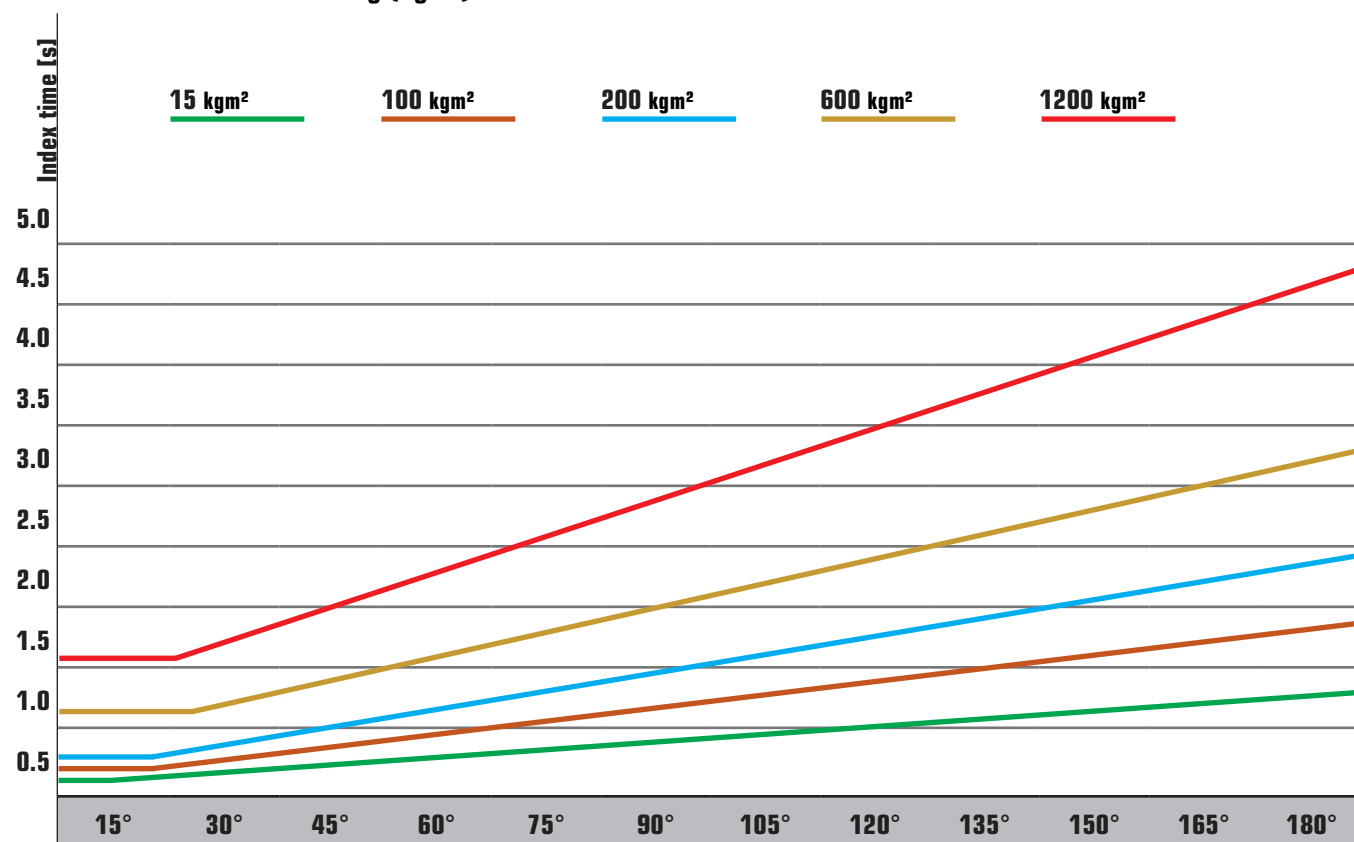
- Single-phase: 230V 50/60 Hz +EMC filter
- Three-phase: 480V 50/60 Hz +EMC filter

Communication

- Modbus serial link (standard)
- Pulse train (standard)
- CANopen/CANmotion
- DeviceNet
- EtherNet/IP
- Profibus DP V1
- Ethercat
- Profinet
- Modbus TCP



Maximum mass inertia loading (kgm²)



Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available versions	Centre distance	Denomination
STANDARD TYPE EQUIPPED WITH SE BMH1003 OTHER BRANDS ON REQUEST	254 mm	REV 600 - P02

Configurations

Rigt angle planetary Gearbox 120

Servomotor 1003
(8.4 Nm)

With brake

Whiteout brake

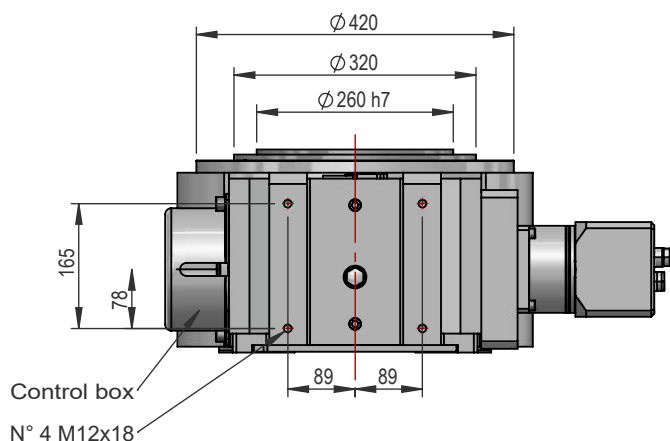
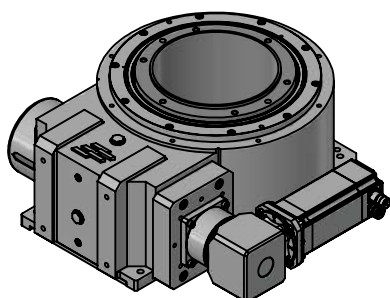
Planetary Gearbox 120

Quick 3D file download

The drawing of page 29 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:

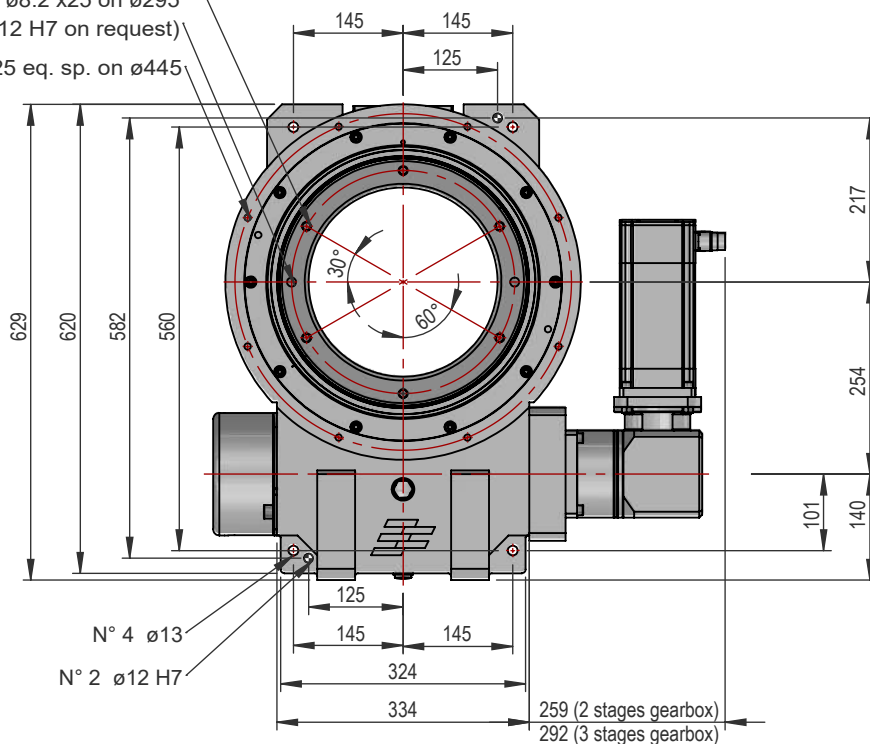
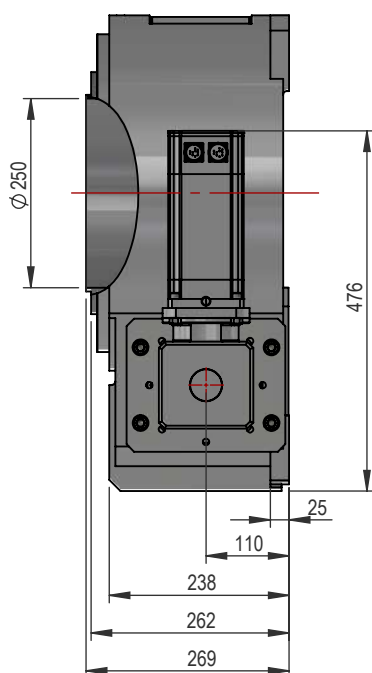
REV 600 - P02 - TEP 120 - NB



N° 6 M12x25 eq. sp. on Ø295

N° 2 Ø8.2 x25 on Ø295
(Ø12 H7 on request)

N° 8 M8x25 eq. sp. on Ø445



Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

REV 600 - P03

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Through Hole
- Provided with servo motor

Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oli or grease
- Driver 

Programmable driver

The REV 600 it's provided together with its specific motion driver and software

Power Supply

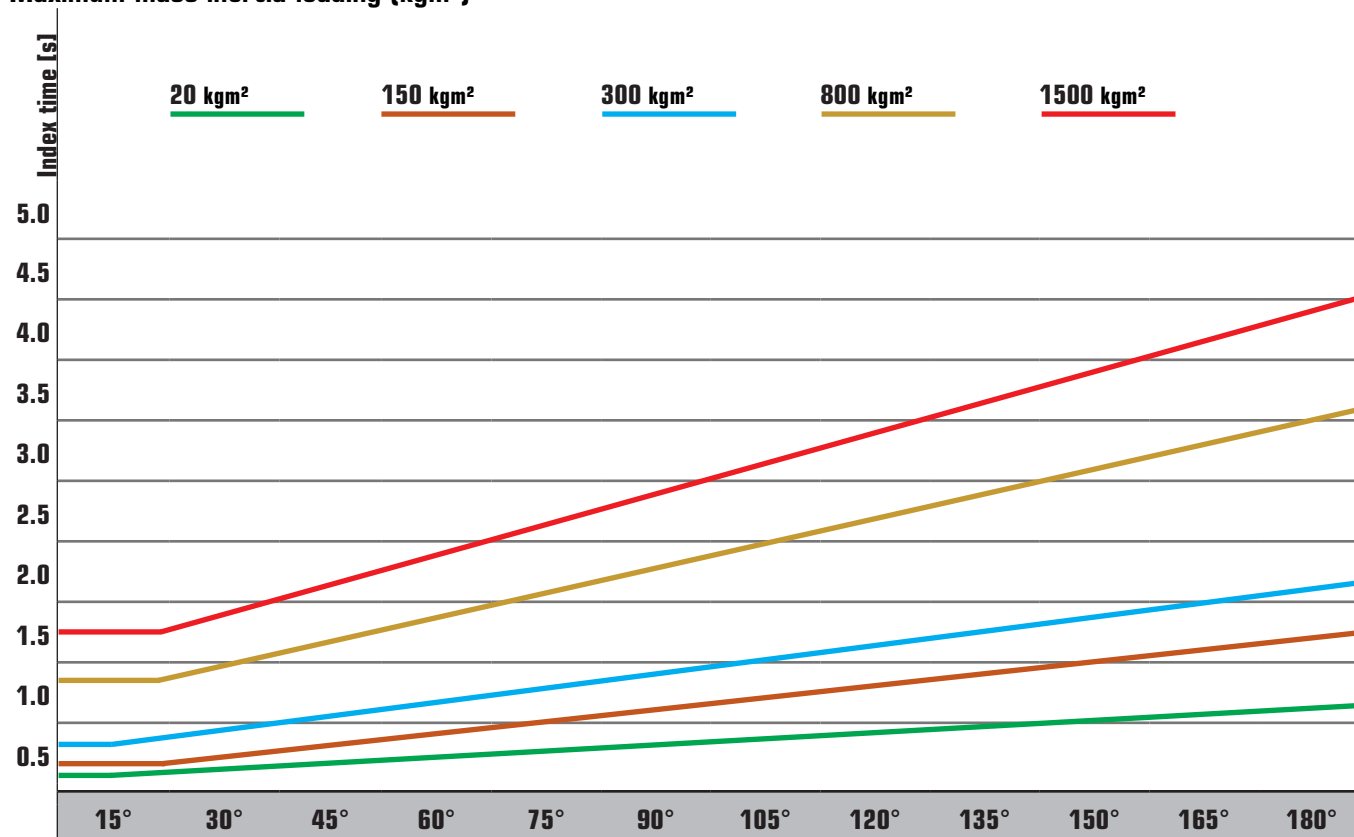
- Single-phase: 230V 50/60 Hz +EMC filter
- Three-phase: 480V 50/60 Hz +EMC filter

Communication

- Modbus serial link (standard)
- Pulse train (standard)
- CANopen/CANmotion
- DeviceNet
- EtherNet/IP
- Profibus DP V1
- Ethercat
- Profinet
- Modbus TCP



Maximum mass inertia loading (kgm²)



Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available versions	Centre distance	Denomination
STANDARD TYPE EQUIPPED WITH SE BMH1401 OTHER BRANDS ON REQUEST	254 mm	REV 600 - P03

Configurations

Right angle planetary Gearbox 120

**Servomotor 1401
(10.3 Nm)**

With brake

Whiteout brake

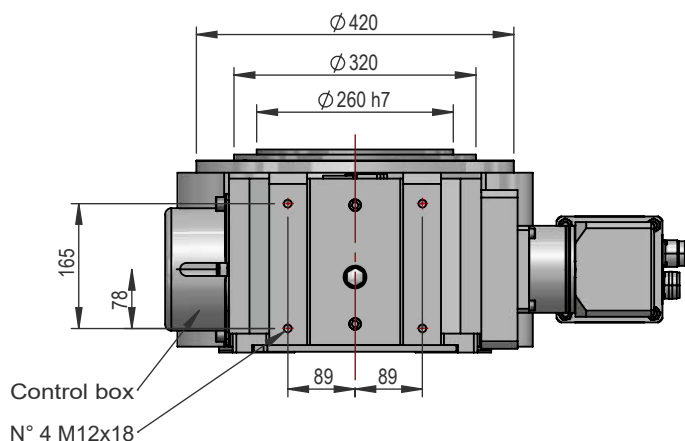
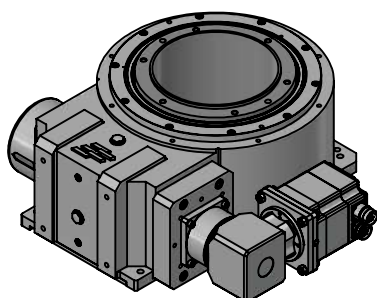
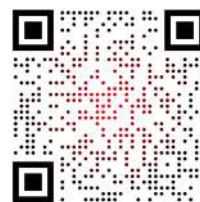
Planetary Gearbox 120

Quick 3D file download

The drawing of page 31 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:

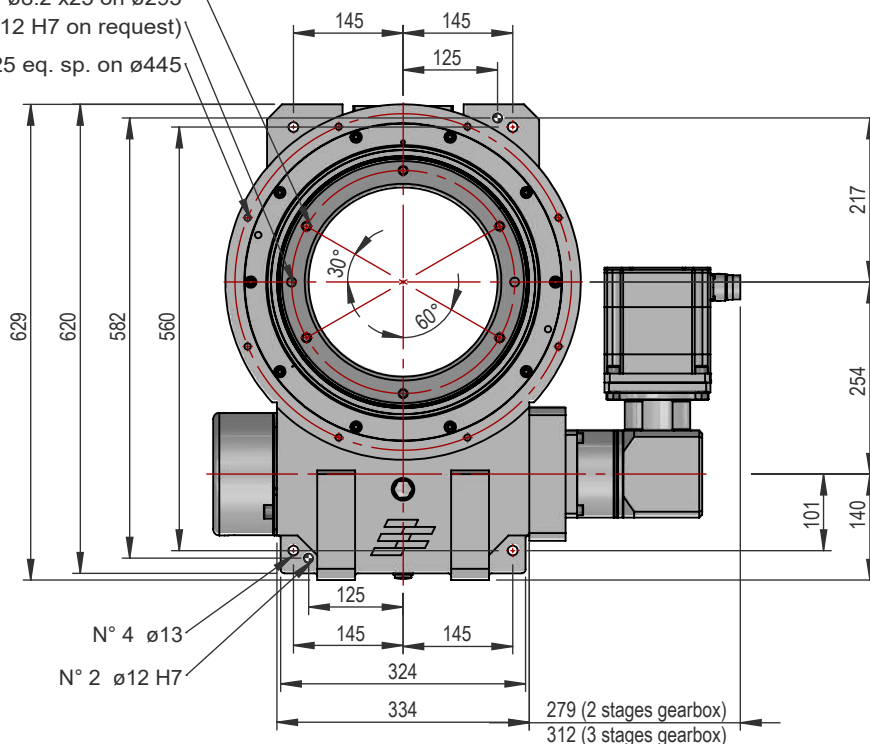
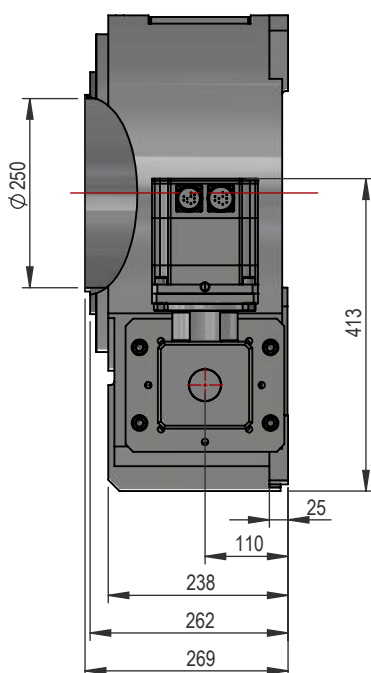
REV 600 - P03 - TEP 120 - NB



N° 6 M12x25 eq. sp. on Ø295

N° 2 Ø8.2 x25 on Ø295
(Ø12 H7 on request)

N° 8 M8x25 eq. sp. on Ø445



Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

REV 600 - P04

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Though Hole
- Provided with servo motor

Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oli or grease
- Driver 

Programmable driver

The REV 600 it's provided together with its specific motion driver and software

Power Supply

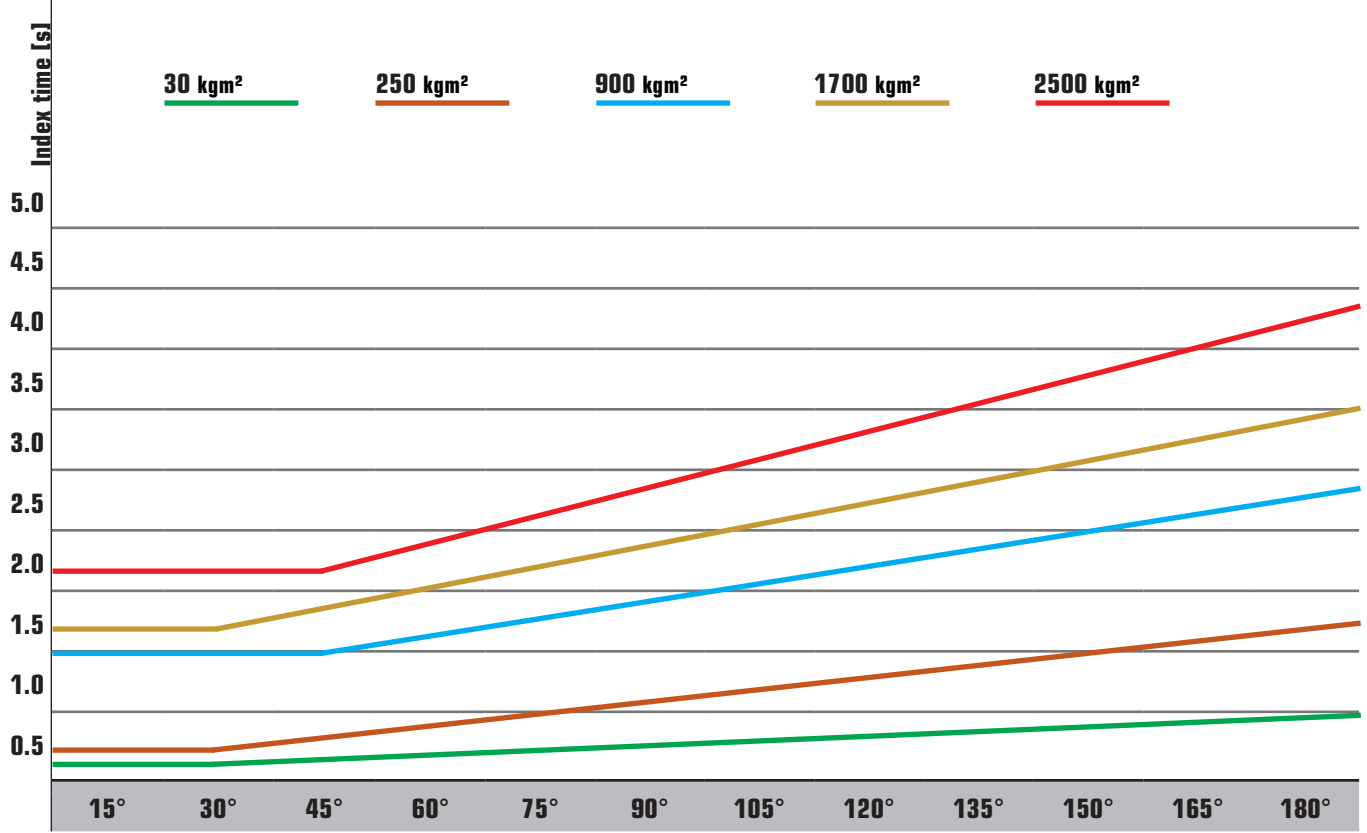
- Single-phase: 230V 50/60 Hz +EMC filter
- Three-phase: 480V 50/60 Hz +EMC filter

Communication

- Modbus serial link (standard)
- Pulse train (standard)
- CANopen/CANmotion
- DeviceNet
- EtherNet/IP
- Profibus DP V1
- Ethercat
- Profinet
- Modbus TCP



Maximum mass inertia loading (kgm²)



Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available versions	Centre distance	Denomination
STANDARD TYPE EQUIPPED WITH SE BMH1402 OTHER BRANDS ON REQUEST	254 mm	REV 600 - P04

Configurations

Right angle planetary Gearbox 155

Servomotor 1402
(16.8 Nm)

With brake

Whiteout brake

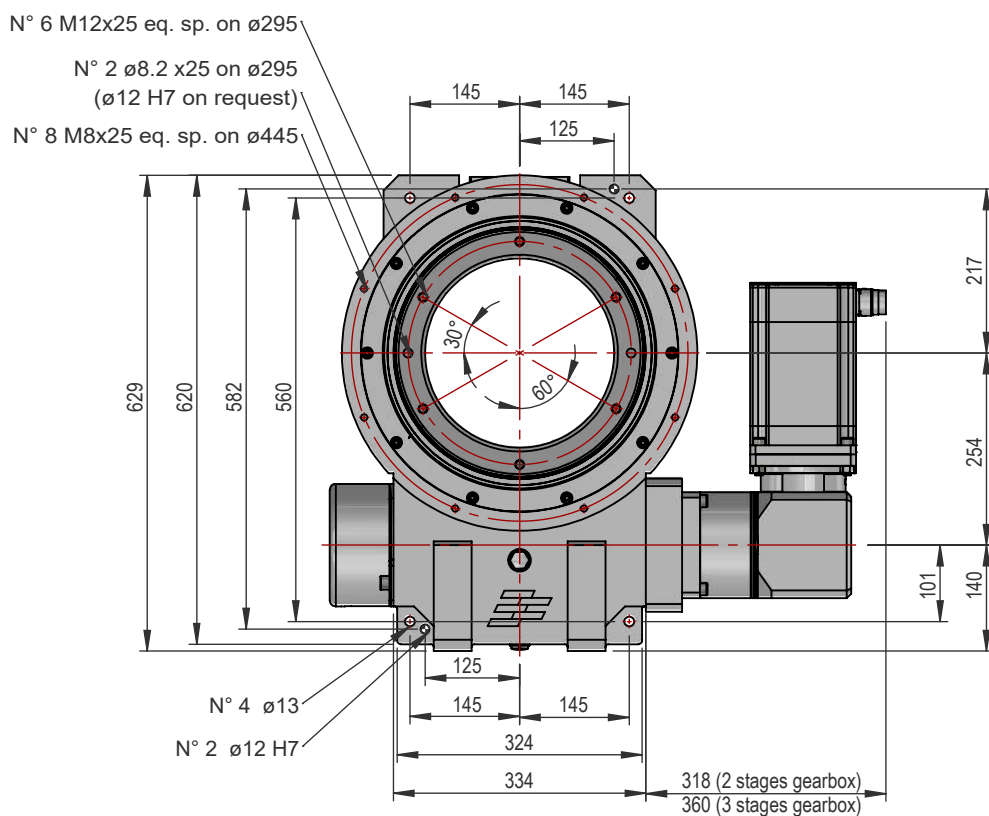
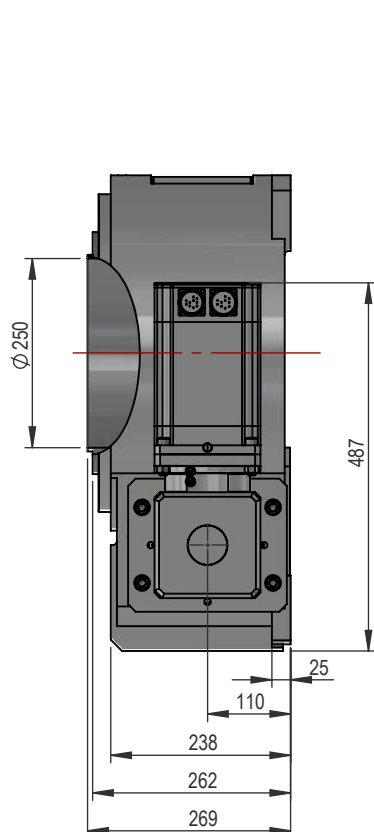
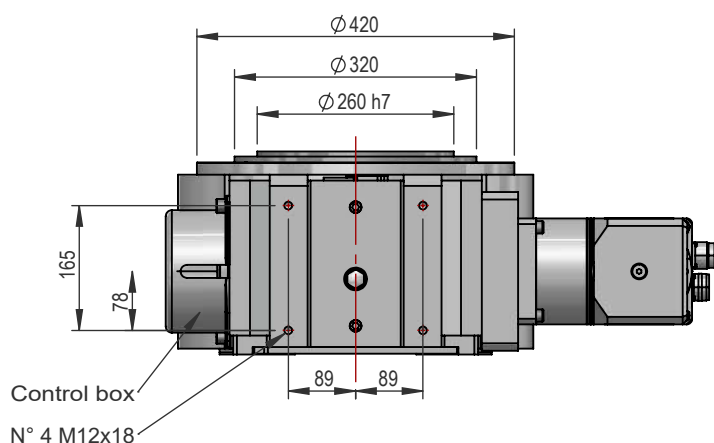
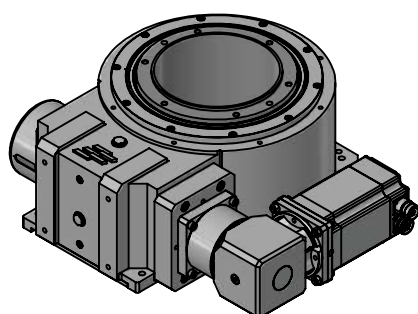
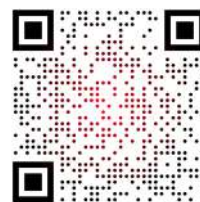
Planetary Gearbox 155

Quick 3D file download

The drawing of page 33 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:

REV 600 - P04 - TEP 155 - NB



Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

REV 600 - P05

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Through Hole
- Provided with servo motor

Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oil or grease
- Driver 

Programmable driver

The REV 600 it's provided together with its specific motion driver and software

Power Supply

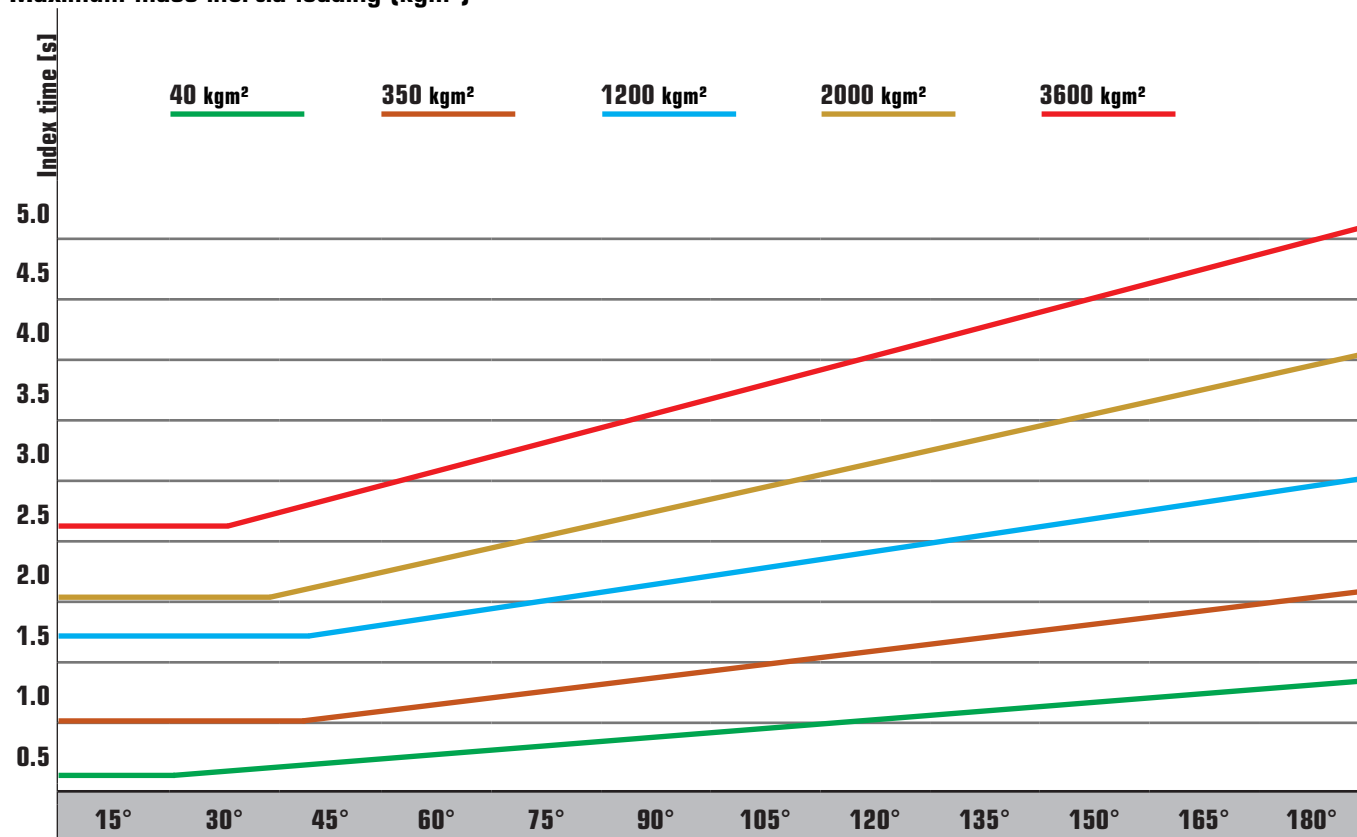
- Single-phase: 230V 50/60 Hz +EMC filter
- Three-phase: 480V 50/60 Hz +EMC filter

Communication

- Modbus serial link (standard)
- Pulse train (standard)
- CANopen/CANmotion
- DeviceNet
- EtherNet/IP
- Profibus DP V1
- Ethercat
- Profinet
- Modbus TCP



Maximum mass inertia loading (kgm²)



Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available versions	Centre distance	Denomination
STANDARD TYPE EQUIPPED WITH SE BMH1403 OTHER BRANDS ON REQUEST	254 mm	REV 600 - P05

Configurations

Right angle planetary Gearbox 155

Servomotor 1403
(24 Nm)

With brake

Whiteout brake

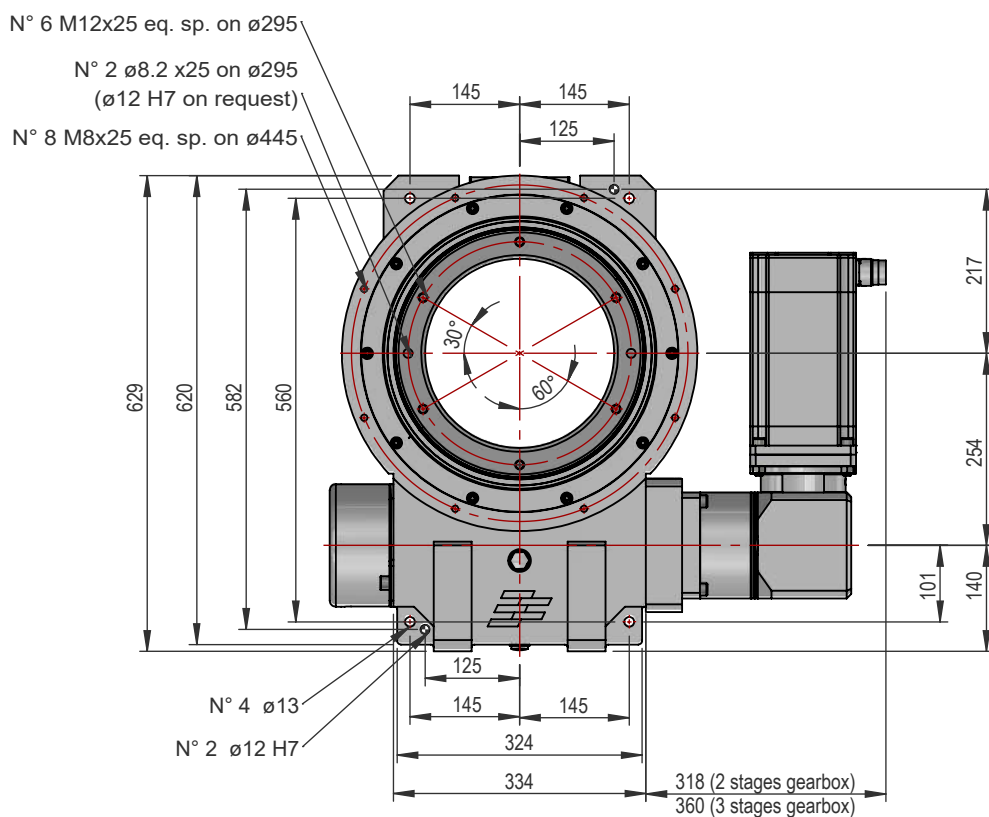
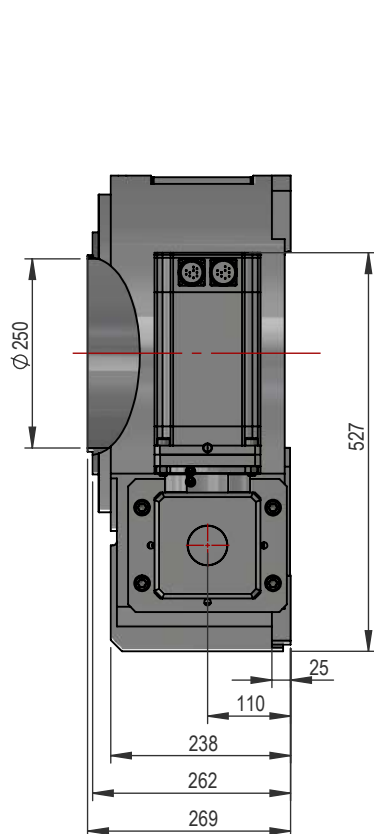
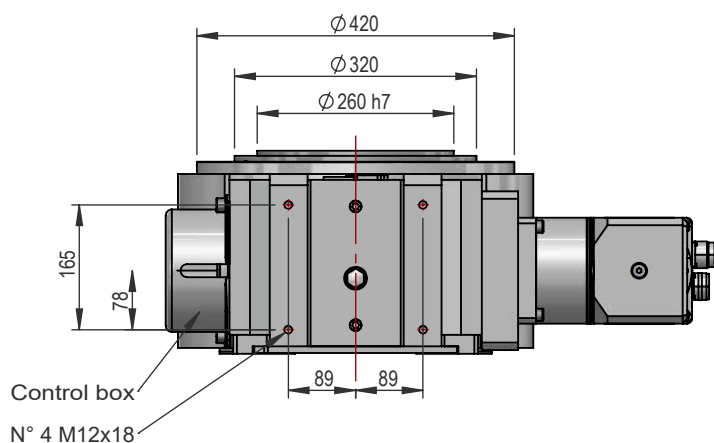
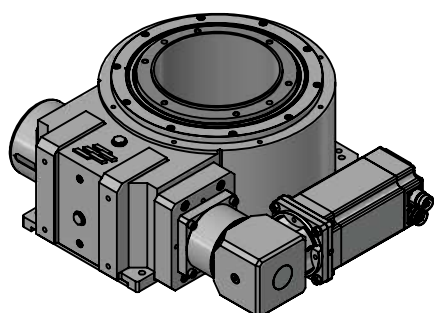
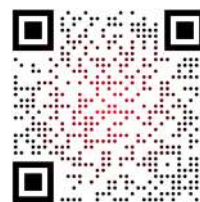
Planetary Gearbox 155

Quick 3D file download

The drawing of page 35 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:

REV 600 - P05 - TEP 155 - NB



Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

REV 600 - P06

Load capacity:

- **Axial load:** 3000 daN
- **Tilting moment:** 480 daNm

Indexing precision:

- **2-32 Index** $\pm 14''$ (arcsec)
- Values improvable on request

Dimensional info:

- **Centre distance:** 254 mm
- **Size:** 437 x 648 x 268.5 (H) mm
- **Weight:** 150 kg


Additional features

- Compact size and high capacity
- HD Heavy Duty
- Complete 250 mm Though Hole
- Provided with servo motor

Indexer overview



Optionals on request

- Oscillator version
- Center Post version
- Dial plate (see page 8)
- Encoder / additional control cycle cams
- Food oli or grease
- Driver 

Programmable driver

The REV 600 it's provided together with its specific motion driver and software

Power Supply

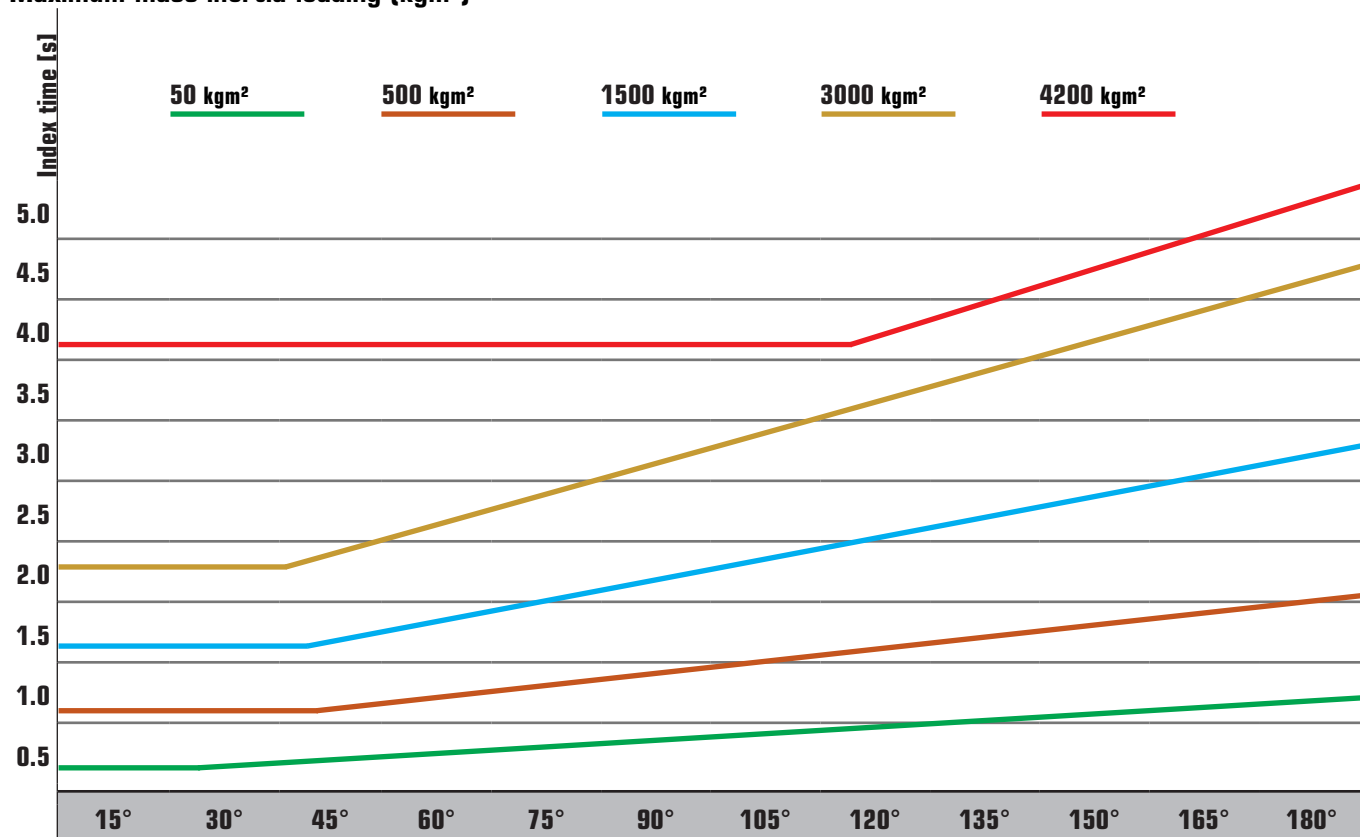
- Single-phase: 230V 50/60 Hz +EMC filter
- Three-phase: 480V 50/60 Hz +EMC filter

Communication

- Modbus serial link (standard)
- Pulse train (standard)
- CANopen/CANmotion
- DeviceNet
- EtherNet/IP
- Profibus DP V1
- Ethercat
- Profinet
- Modbus TCP



Maximum mass inertia loading (kgm²)



Maximum mass inertia loading referred to HD version - All the values are referred to 300° of input shaft index motion at standard index time with 50 Hz motoreducer - standard index time with 50 Hz motoreducer - Others stops number and index times are available, on request

Available versions	Centre distance	Denomination
STANDARD TYPE EQUIPPED WITH SE BMH1901 OTHER BRANDS ON REQUEST	254 mm	REV 600 - P06

Configurations

Right angle planetary Gearbox 155

Servomotor 1901
(30 Nm)

With brake

Whiteout brake

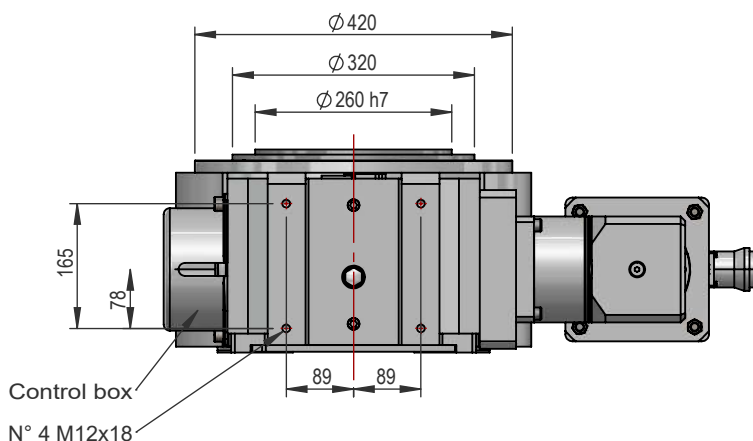
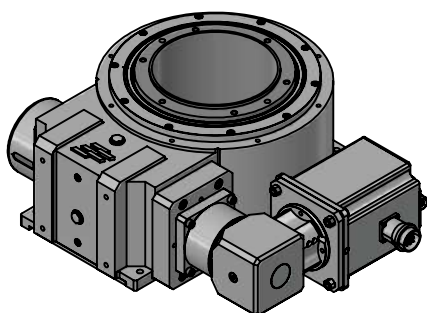
Planetary Gearbox 155

Quick 3D file download

The drawing of page 37 is referred to this REV 600 configuration. Ask to our Technical Dpt. for more info.

Scan or Click on QR Code for 3D:

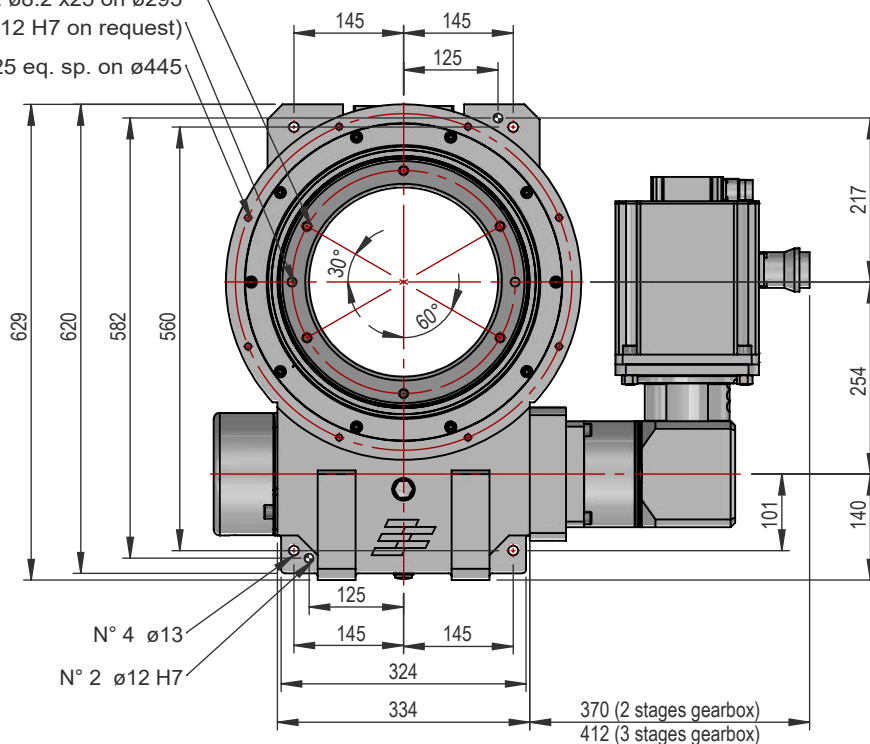
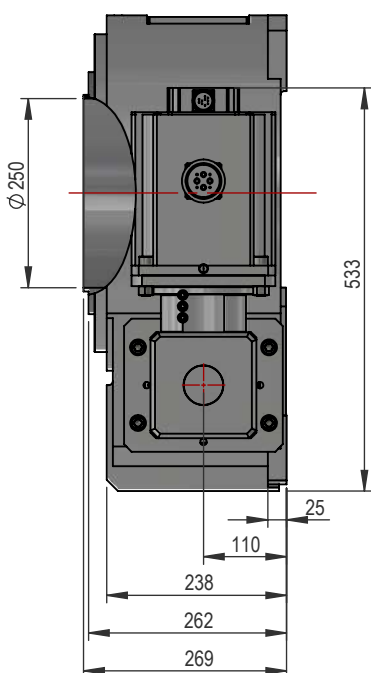
REV 600 - P06 - TEP 155 - NB



N° 6 M12x25 eq. sp. on Ø295

N° 2 Ø8.2 x25 on Ø295
(Ø12 H7 on request)

N° 8 M8x25 eq. sp. on Ø445



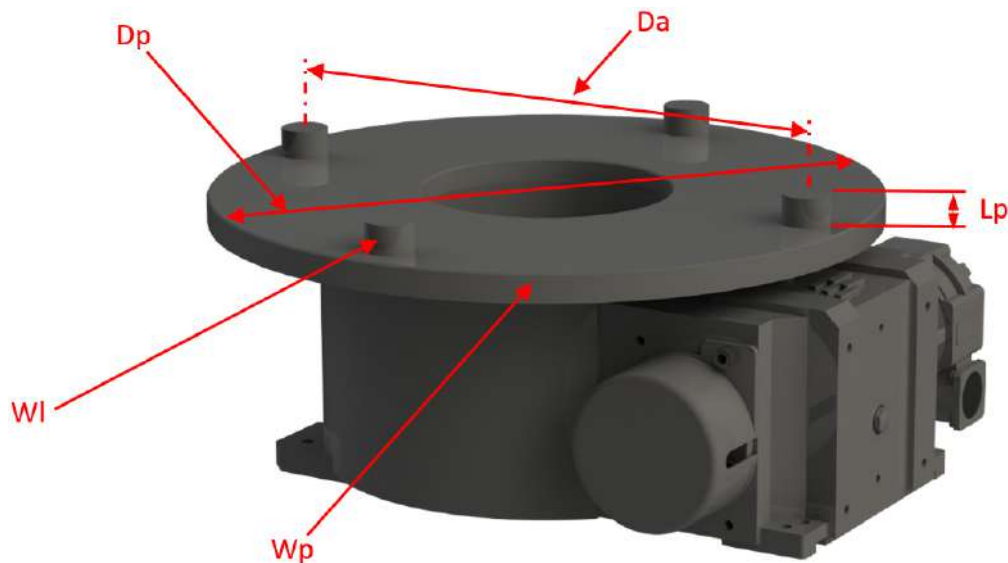
Input shafts variants

RIGHT (1) - LEFT (2) - DOUBLE (3)

Output shaft variants

DIAL PLATE - CENTER POST - DIAL PLATE (page 42)

DATA SHEET



Total Inertia [kg*m ²]	It =
Weight plate [kg]	Wp =
Diameter plate [mm]	Dp =
or	
Diameter plate [mm]	Dp =
Thickness plate [mm]	Lp =
Material plate	Mat =
N° of station	N° =
Weight station [kg]	Wl =
Diameter of application [mm]	Da =
Additional forces ⊥ [N]	F1 =
Additional forces // [N]	F2 =

Indexer	Oscillator
or	
High Efficiency Reducer	
Continuous motion	Indexed motion (servo)
Cycle on Demand	
or	
Continuous running	
t. index [s]	ti =
t. dwell [s]	td =
t. cycle [s]	tc =
Frequency of cycle (Cam angle) [°]	Cyc/min = α =

Notes for the loads

Notes for the cycle

Name	Company	Rif.	
Address			
Email (in capital letters)			

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