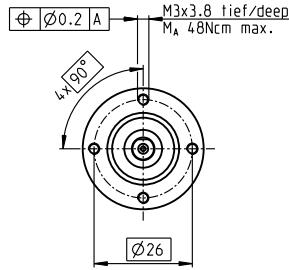
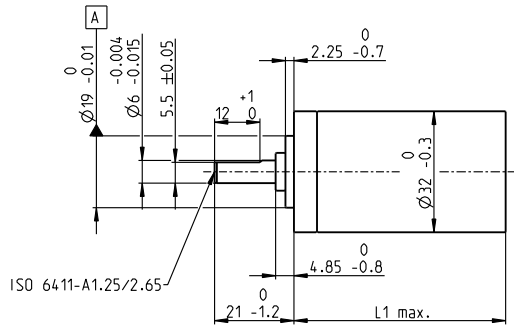


Planetary Gearhead GP 32 C Ø32 mm, 1.0–6.0 Nm

Ceramic Version



M 1:2

Technical data	
Planetary Gearhead	straight teeth
Output shaft	stainless steel
Shaft diameter as option	8 mm
Bearing at output	ball bearing
Radial play, 5 mm from flange	max. 0.14 mm
Axial play	max. 0.4 mm
Max. axial load (dynamic)	120 N
Max. force for press fits	120 N
Direction of rotation, drive to output	=
Max. continuous input speed	8000 rpm
Recommended temperature range	-40...+100°C
Number of stages	1 2 3 4 5
Max. radial load, 10 mm from flange	90 N 140 N 200 N 220 N 220 N

Option: Low-noise version

- Stock program
- Standard program
- Special program (on request)

Part numbers

Gearhead data	166930	166933	166938	166939	166944	166949	166954	166959	166962	166967	166972	166977
1 Reduction	3.7:1	14:1	33:1	51:1	111:1	246:1	492:1	762:1	1181:1	1972:1	2829:1	4380:1
2 Absolute reduction	26/7	676/49	529/16	17576/343	13824/425	421824/1715	86112/175	19044/25	10123776/8575	8626176/4375	495144/175	109503/25
3 Max. motor shaft diameter	mm 6	6	3	6	4	4	3	3	4	4	3	3
Part numbers	166931	166934		166940	166945	166950	166955	166960	166963	166968	166973	166978
1 Reduction	4.8:1	18:1		66:1	123:1	295:1	531:1	913:1	1414:1	2189:1	3052:1	5247:1
2 Absolute reduction	24/5	624/35		16224/245	6877/56	101062/343	331776/625	36501/40	2425488/1715	536408/245	1907712/625	839523/160
3 Max. motor shaft diameter	mm 4	4		4	3	3	4	3	3	3	3	3
Part numbers	166932	166935		166941	166946	166951	166956	166961	166964	166969	166974	166979
1 Reduction	5.8:1	21:1		79:1	132:1	318:1	589:1	1093:1	1526:1	2362:1	3389:1	6285:1
2 Absolute reduction	23/4	299/14		3887/49	3312/25	389376/1225	20631/35	279841/256	9345024/6125	2066688/675	474513/140	6436343/1024
3 Max. motor shaft diameter	mm 3	3		3	3	4	3	3	3	4	3	3
Part numbers	166936		166942	166947	166952	166957		166965	166970	166975		
1 Reduction	23:1		86:1	159:1	411:1	636:1		1694:1	2548:1	3656:1		
2 Absolute reduction	576/25		14976/175	1587/10	359424/875	79488/125		1162213/686	7962624/3125	457056/125		
3 Max. motor shaft diameter	mm 4		4	3	4	3		3	4	3		
Part numbers	166937		166943	166948	166953	166958		166966	166971	166976		
1 Reduction	28:1		103:1	190:1	456:1	706:1		1828:1	2623:1	4060:1		
2 Absolute reduction	139/5		3589/35	12167/64	89401/196	158171/224		2238912/1225	2056223/84	3637933/696		
3 Max. motor shaft diameter	mm 3		3	3	3	3		3	3	3		
4 Number of stages	1	2	3	3	4	4		4	5	5	5	5
5 Max. continuous torque	Nm 1	3	3	6	6	6		6	6	6	6	6
6 Max. intermittent torque at gear output	Nm 1.25	3.75	3.75	7.5	7.5	7.5		7.5	7.5	7.5	7.5	7.5
7 Max. efficiency	% 80	75	75	70	70	60		60	60	50	50	50
8 Weight	g 118	162	162	194	194	226		226	226	258	258	258
9 Average backlash no load	° 0.7	0.8	0.8	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0
10 Mass inertia	gcm ² 1.5	0.8	0.8	0.7	0.7	0.7		0.7	0.7	0.7	0.7	0.7
11 Gearhead length L1	mm 26.5	36.4	36.4	43.1	43.1	49.8		49.8	56.5	56.5	56.5	56.5

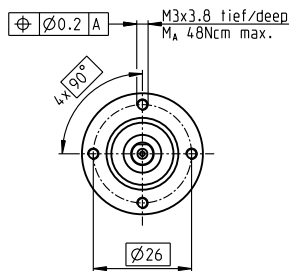
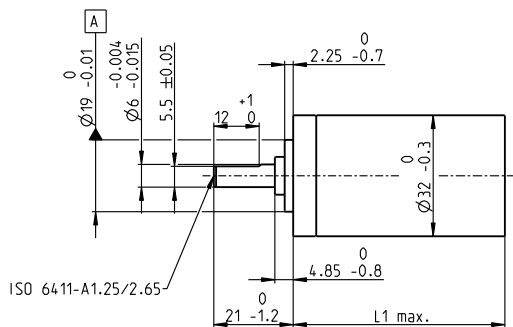


Modular system												
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts								
RE 25	156/158			81.1	91.0	91.0	97.7	97.7	104.4	104.4	111.1	111.1
RE 25	156/158	ENX 25 IMR	505	92.1	102.0	102.0	108.7	108.7	115.4	115.4	122.1	122.1
RE 25	156/158	HED_5540	535/537	101.9	111.8	111.8	118.5	118.5	125.2	125.2	131.9	131.9
RE 25	156/158	DCT 22	542	103.4	113.3	113.3	120.0	120.0	126.7	126.7	133.4	133.4
RE 25, 20 W	157			69.6	79.5	79.5	86.2	86.2	92.9	92.9	99.6	99.6
RE 25, 20 W	157	ENX 25 IMR	505	80.6	90.5	90.5	97.2	97.2	103.9	103.9	110.6	110.6
RE 25, 20 W	157	HED_5540	535-537	90.4	100.3	100.3	107.0	107.0	113.7	113.7	120.4	120.4
RE 25, 20 W	157	DCT 22	542	91.9	101.8	101.8	108.5	108.5	115.2	115.2	121.9	121.9
RE 25, 20 W	157	AB 28	587	103.7	113.6	113.6	120.3	120.3	127.0	127.0	133.7	133.7
RE 25, 20 W	157	HED_5540/AB 28	535/587	120.9	130.8	130.8	137.5	137.5	144.2	144.2	150.9	150.9
RE 25, 20 W	158	AB 28	587	115.2	125.1	125.1	131.8	131.8	138.5	138.5	145.2	145.2
RE 25, 20 W	158	HED_5540/AB 28	535/587	132.4	142.3	142.3	149.0	149.0	155.7	155.7	162.4	162.4
RE 30, 60 W	160			94.6	104.5	104.5	111.2	111.2	117.9	117.9	124.6	124.6
RE 30, 60 W	160	ENX 32 IMR	506	106.0	115.9	115.9	122.6	122.6	129.3	129.3	136.0	136.0
RE 30, 60 W	160	HED_5540	535/537	115.4	125.3	125.3	132.0	132.0	138.7	138.7	145.4	145.4
RE 35, 90 W	161			97.6	107.5	107.5	114.2	114.2	120.9	120.9	127.6	127.6
RE 35, 90 W	161	ENX 32 IMR	506	109.0	118.9	118.9	125.6	125.6	132.3	132.3	139.0	139.0
RE 35, 90 W	161	HED_5540	535-537	118.3	128.2	128.2	134.9	134.9	141.6	141.6	148.3	148.3
RE 35, 90 W	161	DCT 22	542	115.7	125.6	125.6	132.3	132.3	139.0	139.0	145.7	145.7
RE 35, 90 W	161	AB 28	587	133.7	143.6	143.6	150.3	150.3	157.0	157.0	163.7	163.7
RE 35, 90 W	161	HED_5540/AB 28	535/587	150.9	160.8	160.8	167.5	167.5	174.2	174.2	180.9	180.9
A-max 26	183-186			71.3	81.2	81.2	87.9	87.9	94.6	94.6	101.3	101.3
A-max 26	184/186	13 GAMA	498	78.4	88.3	88.3	95.0	95.0	101.7	101.7	108.4	108.4
A-max 26	184/186	ENX 25 IMR	505	80.1	90.0	90.0	96.7	96.7	103.4	103.4	110.1	110.1
A-max 26	184/186	HED_5540	536/538	89.7	99.6	99.6	106.3	106.3	113.0	113.0	119.7	119.7
A-max 32, 20 W	187			89.5	99.4	99.4	106.1	106.1	112.8	112.8	119.5	119.5
A-max 32, 20 W	188			88.1	98.0	98.0	104.7	104.7	111.4	111.4	118.1	118.1
A-max 32, 20 W	188	ENX 32 IMR	506	99.3	109.2	109.2	115.9	115.9	122.6	122.6	129.3	129.3
A-max 32, 20 W	188	HED_5540	536/538	108.9	118.8	118.8	125.5	125.5	132.2	132.2	138.9	138.9

Planetary Gearhead GP 32 C Ø32 mm, 1.0–6.0 Nm

Ceramic Version

gear



M 1:2

Technical data

Planetary Gearhead	straight teeth
Output shaft	stainless steel
Shaft diameter as option	8 mm
Bearing at output	ball bearing
Radial play, 5 mm from flange	max. 0.14 mm
Axial play	max. 0.4 mm
Max. axial load (dynamic)	120 N
Max. force for press fits	120 N
Direction of rotation, drive to output	=
Max. continuous input speed	8000 rpm
Recommended temperature range	-40...+100°C
Number of stages	1 2 3 4 5
Max. radial load, 10 mm from flange	90 N 140 N 200 N 220 N 220 N

Option: Low-noise version

- Stock program
- Standard program
- Special program (on request)

Part numbers

166930	166933	166938	166939	166944	166949	166954	166959	166962	166967	166972	166977
166931	166934		166940	166945	166950	166955	166960	166963	166968	166973	166978
166932	166935		166941	166946	166951	166956	166961	166964	166969	166974	166979
	166936		166942	166947	166952	166957		166965	166970	166975	
	166937		166943	166948	166953	166958		166966	166971	166976	

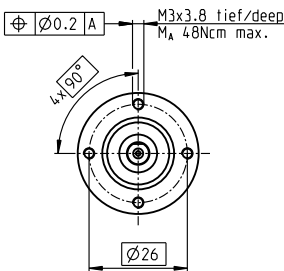
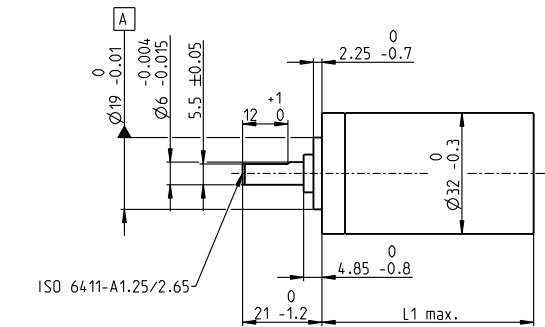


Modular system

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts									
EC 32, 80 W	271			86.6	96.5	96.5	103.2	103.2	109.9	109.9	109.9	116.6	116.6
EC 32, 80 W	271	HEDL 5540	536/538	105.0	114.9	114.9	121.6	121.6	128.3	128.3	128.3	135.0	135.0
EC 32, 80 W	271	Res 26	543	106.7	116.6	116.6	123.3	123.3	130.0	130.0	130.0	136.7	136.7
EC-max 22, 25 W	283			75.1	85.0	85.0	91.7	91.7	98.4	98.4	98.4	105.1	105.1
EC-max 22, 25 W	283	16 EASY/XT/Abs.	509-511	84.7	94.6	94.6	101.3	101.3	108.0	108.0	108.0	114.7	114.7
EC-max 22, 25 W	283	16 EASY Abs. XT	512	85.2	95.1	95.1	101.8	101.8	108.5	108.5	108.5	115.2	115.2
EC-max 22, 25 W	283	AB 20	584	110.7	120.6	120.6	127.3	127.3	134.0	134.0	134.0	140.7	140.7
EC-max 30, 40 W	284			68.6	78.5	78.5	85.2	85.2	91.9	91.9	91.9	98.6	98.6
EC-max 30, 40 W	284	16 EASY/XT/Abs.	509-511	79.7	89.6	89.6	96.3	96.3	103.0	103.0	103.0	109.7	109.7
EC-max 30, 40 W	284	16 EASY Abs. XT	512	80.2	90.1	90.1	96.8	96.8	103.5	103.5	103.5	110.2	110.2
EC-max 30, 40 W	284	HEDL 5540	539	89.2	99.1	99.1	105.8	105.8	112.5	112.5	112.5	119.2	119.2
EC-max 30, 40 W	284	AB 20	584	104.2	114.1	114.1	120.8	120.8	127.5	127.5	127.5	134.2	134.2
EC-max 30, 40 W	284	HEDL 5540/AB 20	539/584	124.8	134.7	134.7	141.4	141.4	148.1	148.1	148.1	154.8	154.8
EC-max 30, 60 W	285			90.6	100.5	100.5	107.2	107.2	113.9	113.9	113.9	120.6	120.6
EC-max 30, 60 W	285	16 EASY/XT/Abs.	509-511	101.7	111.6	111.6	118.3	118.3	125.0	125.0	125.0	131.7	131.7
EC-max 30, 60 W	285	16 EASY Abs. XT	512	102.2	112.1	112.1	118.8	118.8	125.5	125.5	125.5	132.2	132.2
EC-max 30, 60 W	285	HEDL 5540	539	111.2	121.1	121.1	127.8	127.8	134.5	134.5	134.5	141.2	141.2
EC-max 30, 60 W	285	AB 20	584	126.2	136.1	136.1	142.8	142.8	149.5	149.5	149.5	156.2	156.2
EC-max 30, 60 W	285	HEDL 5540/AB 20	539/584	146.8	156.7	156.7	163.4	163.4	170.1	170.1	170.1	176.8	176.8
EC-4pole 22, 90 W	291			75.2	85.1	85.1	91.8	91.8	98.5	98.5	98.5	105.2	105.2
EC-4pole 22, 90 W	291	22 EMT	518	101.0	110.9	110.9	117.6	117.6	124.3	124.3	124.3	131.0	131.0
EC-4pole 22, 90 W	291	16 EASY/XT/Abs.	509-511	87.4	97.3	97.3	104.0	104.0	110.7	110.7	110.7	117.4	117.4
EC-4pole 22, 90 W	291	16 EASY Abs. XT	512	87.9	97.8	97.8	104.5	104.5	111.2	111.2	111.2	117.9	117.9
EC-4pole 22, 90 W	291	16 RIO	519	85.9	95.8	95.8	102.5	102.5	109.2	109.2	109.2	115.9	115.9
EC-4pole 22, 120 W	292			92.6	102.5	102.5	109.2	109.2	115.9	115.9	115.9	122.6	122.6
EC-4pole 22, 120 W	292	22 EMT	518	118.4	128.3	128.3	135.0	135.0	141.7	141.7	141.7	148.4	148.4
EC-4pole 22, 120 W	292	16 EASY/XT/Abs.	509-511	104.8	114.7	114.7	121.4	121.4	128.1	128.1	128.1	134.8	134.8
EC-4pole 22, 120 W	292	16 EASY Abs. XT	512	105.3	115.3	115.3	121.9	121.9	128.6	128.6	128.6	135.3	135.3
EC-4pole 22, 120 W	292	16 RIO	519	103.3	113.3	113.3	119.9	119.9	126.6	126.6	126.6	133.3	133.3
EC-4pole 30, 100 W	293			73.6	83.5	83.5	90.2	90.2	96.9	96.9	96.9	103.6	103.6
EC-4pole 30, 100 W	293	16 EASY/XT/Abs.	509-511	87.5	97.4	97.4	104.1	104.1	110.8	110.8	110.8	117.5	117.5
EC-4pole 30, 100 W	293	16 EASY Abs. XT	512	88.0	97.9	97.9	104.6	104.6	111.3	111.3	111.3	118.0	118.0
EC-4pole 30, 100 W	293	22 EMT	518	101.5	111.4	111.4	118.1	118.1	124.8	124.8	124.8	131.5	131.5
EC-4pole 30, 100 W	293	16 RIO	519	86.0	95.9	95.9	102.6	102.6	109.3	109.3	109.3	116.0	116.0
EC-4pole 30, 100 W	293	AB 20	584	109.8	119.7	119.7	126.4	126.4	133.1	133.1	133.1	139.8	139.8
EC-4pole 30, 100 W	293	16 EASY/XT/Abs./AB 20	509/584	123.9	133.8	133.8	140.5	140.5	147.2	147.2	147.2	153.9	153.9
EC-4pole 30, 100 W	293	16 EASY Abs. XT/AB 20	512/584	124.4	134.3	134.3	141.0	141.0	147.7	147.7	147.7	154.4	154.4
EC-4pole 30, 100 W	293	22 EMT/AB 20	518/584	141.0	150.9	150.9	157.6	157.6	164.3	164.3	164.3	171.0	171.0
EC-4pole 30, 100 W	293	16 RIO/AB 20	519/584	122.4	132.3	132.3	139.0	139.0	145.7	145.7	145.7	152.4	152.4
EC-4pole 30, 200 W	295			90.6	100.5	100.5	107.2	107.2	113.9	113.9	113.9	120.6	120.6
EC-4pole 30, 200 W	295	16 EASY/XT/Abs.	509-511	104.5	114.4	114.4	121.1	121.1	127.8	127.8	127.8	134.5	134.5
EC-4pole 30, 200 W	295	16 EASY Abs. XT	512	105.0	114.9	114.9	121.6	121.6	128.3	128.3	128.3	135.0	135.0
EC-4pole 30, 200 W	295	22 EMT	518	118.5	128.4	128.4	135.1	135.1	141.8	141.8	141.8	148.5	148.5
EC-4pole 30, 200 W	295	16 RIO	519	103.0	112.9	112.9	119.6	119.6	126.3	126.3	126.3	133.0	133.0
EC-4pole 30, 200 W	295	AB 20	584	126.8	136.7	136.7	143.4	143.4	150.1	150.1	150.1	156.8	156.8
EC-4pole 30, 200 W	295	16 EASY/XT/Abs./AB 20	509/584	140.9	150.8	150.8	157.5	157.5	164.2	164.2	164.2	170.9	170.9
EC-4pole 30, 200 W	295	16 EASY Abs. XT/AB 20	512/584	141.4	151.3	151.3	158.0	158.0	164.7	164.7	164.7	171.4	171.4
EC-4pole 30, 200 W	295	22 EMT/AB 20	518/584	158.0	167.9	167.9	174.6	174.6	181.3	181.3	181.3	188.0	188.0
EC-4pole 30, 200 W	295	16 RIO/AB 20	519/584	139.4	149.3	149.3	156.0	156.0	162.7	162.7	162.7	169.4	169.4
EC-i 30, 20 W	301			68.6	78.5	78.5	85.2	85.2	91.9	91.9	91.9	98.6	98.6
EC-i 30, 30 W	302			68.8	78.7	78.7	85.4	85.4	92.1	92.1	92.1	98.8	98.8
EC-i 30, 30 W	302	22 EMT	518	96.8	106.7	106.7	113.4	113.4	120.1	120.1	120.1	126.8	126.8
EC-i 30, 30 W	302	16 EASY/Abs.	509-511	80.5	90.4	90.4	97.1	97.1	103.8	103.8	103.8	110.5	110.5
EC-i 30, 30 W	302	16 RIO	519	79.0	88.9	88.9	95.6	95.6	102.3	102.3	102.3	109.0	109.0

Planetary Gearhead GP 32 C Ø32 mm, 1.0–6.0 Nm

Ceramic Version

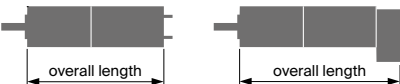


M 1:2

Technical data	
Planetary Gearhead	straight teeth
Output shaft	stainless steel
Shaft diameter as option	
8 mm	
Bearing at output	ball bearing
Radial play, 5 mm from flange	max. 0.14 mm
Axial play	max. 0.4 mm
Max. axial load (dynamic)	120 N
Max. force for press fits	120 N
Direction of rotation, drive to output	
=	
Max. continuous input speed	8000 rpm
Recommended temperature range	-40...+100°C
Number of stages	1 2 3 4 5
Max. radial load, 10 mm from flange	
90 N 140 N 200 N 220 N 220 N	
Option: Low-noise version	

gear

- Stock program
- Standard program
- Special program (on request)



Part numbers											
166930	166933	166938	166939	166944	166949	166954	166959	166962	166967	166972	166977
166931	166934		166940	166945	166950	166955	166960	166963	166968	166973	166978
166932	166935		166941	166946	166951	166956	166961	166964	166969	166974	166979
	166936		166942	166947	166952	166957		166965	166970	166975	
	166937		166943	166948	166953	166958		166966	166971	166976	

Modular system													
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts									
EC-i 30, 45 W	303			68.8	78.7	78.7	85.4	85.4	92.1	92.1	92.1	98.8	98.8
EC-i 30, 45 W	303	22 EMT	518	96.8	106.7	106.7	113.4	113.4	120.1	120.1	120.1	126.8	126.8
EC-i 30, 45 W	303	16 EASY/Abs./XT	509–512	80.5	90.4	90.4	97.1	97.1	103.8	103.8	103.8	110.5	110.5
EC-i 30, 45 W	303	16 RIO	519	79.0	88.9	88.9	95.6	95.6	102.3	102.3	102.3	109.0	109.0
EC-i 30, 50 W	304			90.8	100.7	100.7	107.4	107.4	114.1	114.1	114.1	120.8	120.8
EC-i 30, 50 W	304	22 EMT	518	118.8	128.7	128.7	135.4	135.4	142.1	142.1	142.1	148.8	148.8
EC-i 30, 50 W	304	16 EASY/Abs./XT	509–512	102.5	112.4	112.4	119.1	119.1	125.8	125.8	125.8	132.5	132.5
EC-i 30, 50 W	304	16 RIO	519	101.0	110.9	110.9	117.6	117.6	124.3	124.3	124.3	131.0	131.0
EC-i 30, 75 W	305			90.8	100.7	100.7	107.4	107.4	114.1	114.1	114.1	120.8	120.8
EC-i 30, 75 W	305	22 EMT	518	118.8	128.7	128.7	135.4	135.4	142.1	142.1	142.1	148.8	148.8
EC-i 30, 75 W	305	16 EASY/Abs./XT	509–512	102.5	112.4	112.4	119.1	119.1	125.8	125.8	125.8	132.5	132.5
EC-i 30, 75 W	305	16 RIO	519	101.0	110.9	110.9	117.6	117.6	124.3	124.3	124.3	131.0	131.0
EC-i 40, 50 W	306			58.3	68.2	68.2	74.9	74.9	81.6	81.6	81.6	88.3	88.3
EC-i 40, 50 W	306	22 EMT	518	86.3	96.2	96.2	102.9	102.9	109.6	109.6	109.6	116.3	116.3
EC-i 40, 50 W	306	TSX 40 MAG/RIO	526–527	70.0	79.9	79.9	86.6	86.6	93.3	93.3	93.3	100.0	100.0
EC-i 40, 50 W	306	16 EASY/Abs./XT	509–512	70.0	79.9	79.9	86.6	86.6	93.3	93.3	93.3	100.0	100.0
EC-i 40, 50 W	306	16 RIO	519	72.8	82.7	82.7	89.4	89.4	96.1	96.1	96.1	102.8	102.8
EC-i 40, 70 W	308			68.3	78.2	78.2	84.9	84.9	91.6	91.6	91.6	98.3	98.3
EC-i 40, 70 W	308	22 EMT	518	96.3	106.2	106.2	112.9	112.9	119.6	119.6	119.6	126.3	126.3
EC-i 40, 70 W	308	TSX 40 MAG/RIO	526–527	80.0	89.9	89.9	96.6	96.6	103.3	103.3	103.3	110.0	110.0
EC-i 40, 70 W	308	16 EASY/Abs./XT	509–512	80.0	89.9	89.9	96.6	96.6	103.3	103.3	103.3	110.0	110.0
EC-i 40, 70 W	308	16 RIO	519	82.8	92.7	92.7	99.4	99.4	106.1	106.1	106.1	112.8	112.8