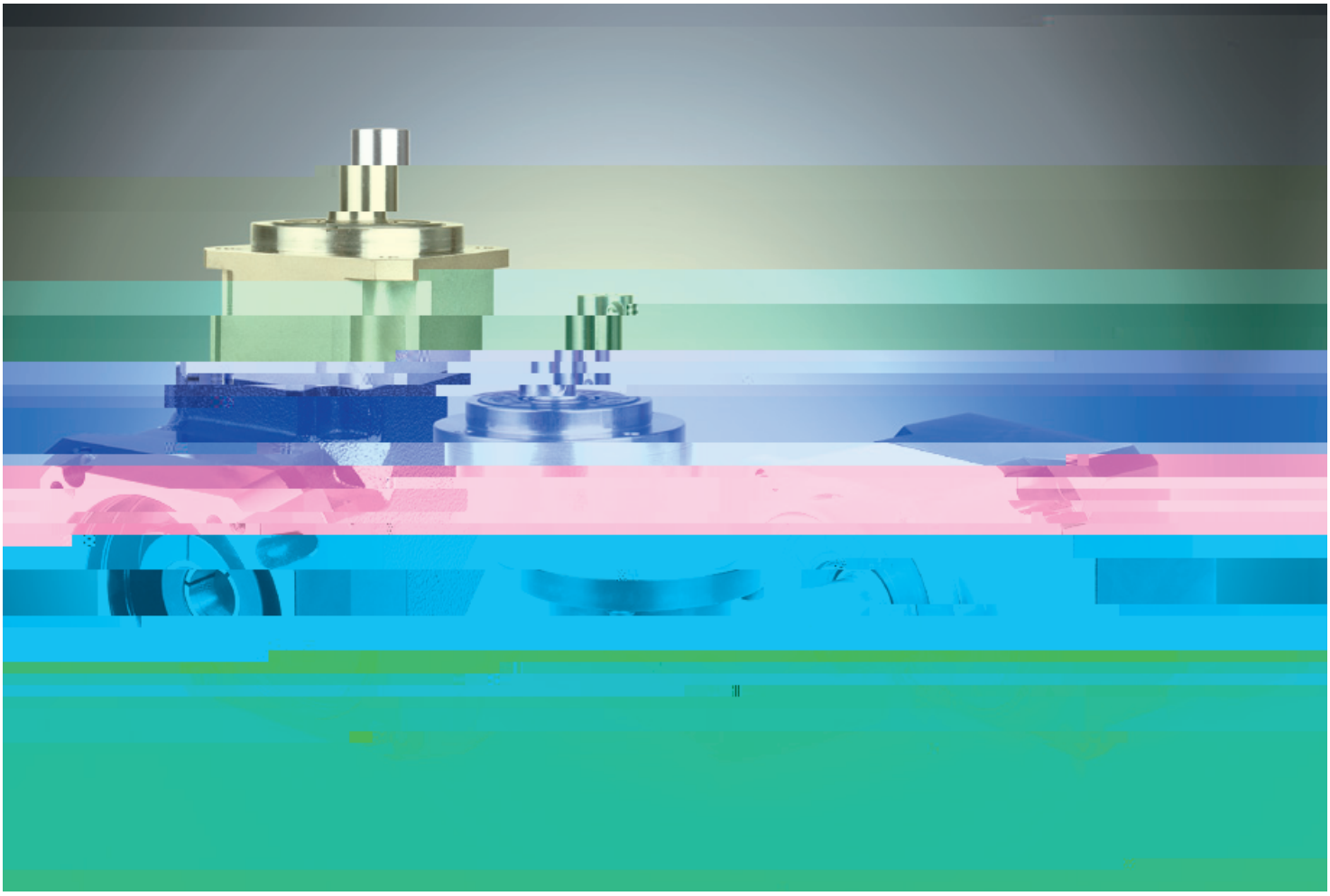


ə ɔʜ .

HIGH PRECISION PLANETARY GEARBOXES

DECELERATOR & MOTORS

ə ⲁ Ң ü

Ordering Code . . /

EC ƙ ə Ơ ⲁ Ң .

- Technical Performance . . 1
- ⅃ Dimensions . . 3

ECP ə Ơ ⲁ Ң .

- Technical Performance . . 5
- ⅃ Dimensions . . 7
- ‶E ˜ ̀Ω ש ˜ ̀Ω . / /

Permitted Radial and Axial Loads on Output Shaft of the Gearbox

- ῴ Front plate option

E@ ə Ơ ⲁ Ң .

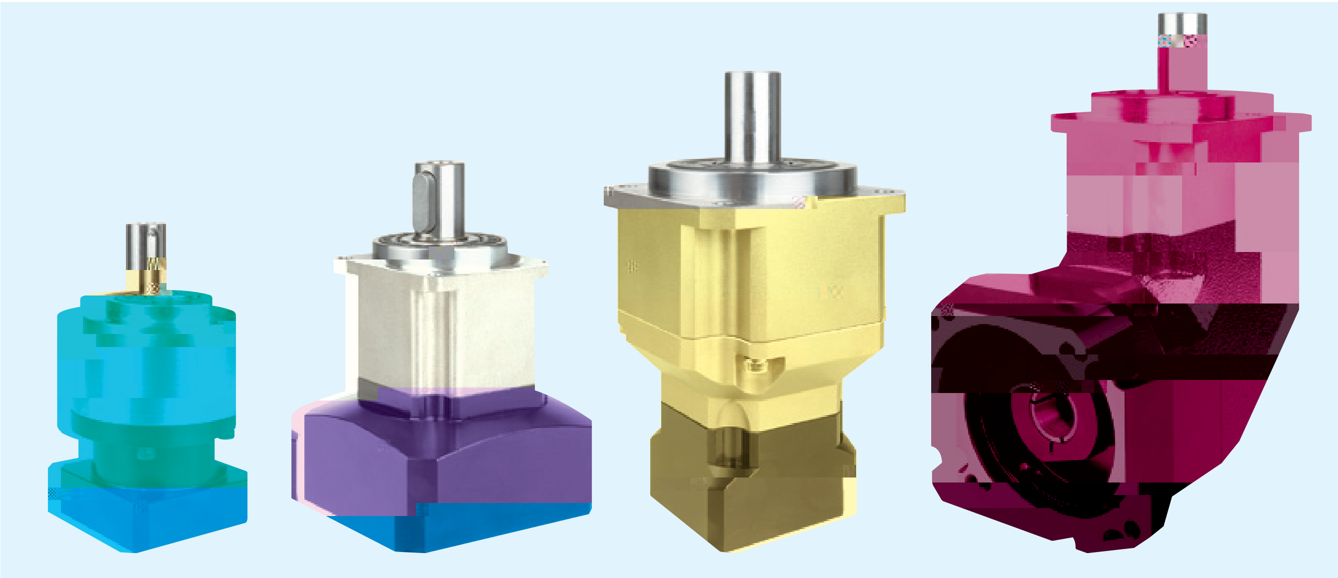
- Technical Performance
- ⅃ Dimensions

E@P ə Ơ ⲁ Ң .

- Technical Performance
- ⅃ Dimensions
- ‶E Selection of the Optimum Gearbox
- ‶E ˜ ̀Ω ש ˜ ̀Ω

Permitted Radial and Axial Loads on Output Shaft of the Gearbox

ə ɔ Ḩ . HIGH PRECISION PLANETARY GEARBOXES



У ɨ ى ˝ Ordering Code

GB	090	-	030	-	S1	-	P0
ɵ	Ơ		ơ		ɑ		ɋ

GE HIGH PRECISION PLANETARY GEARBOXES

Technical Performance

GE ᴚ ə ᴚ Ḥ . GE HIGH PRECISION PLANETARY GEARBOXES

ᴧ ᴨ ᴚ ᴨ ᴧ Technical Performance

↓ Dimensions

GER ᴚ ə ᴚ Ӊ . GER HIGH PRECISION PLANETARY GEARBOXES

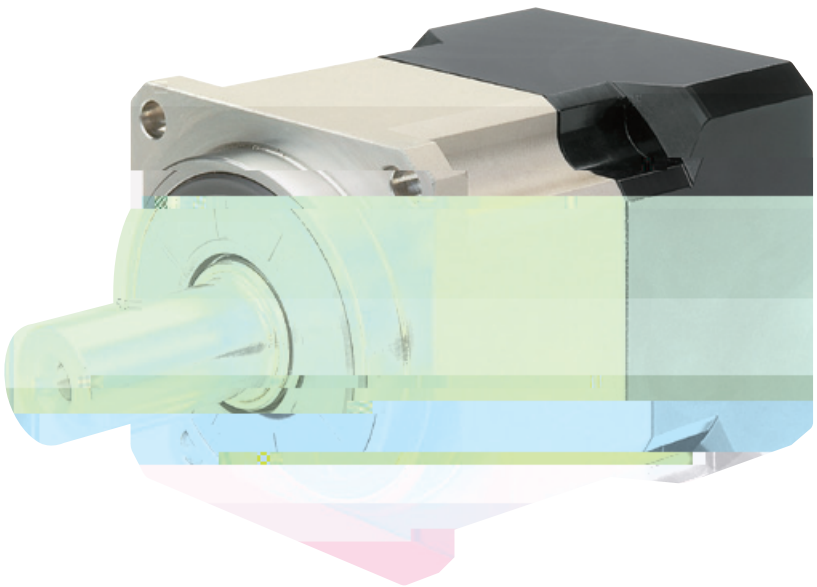
ᴬ ᴨ ᴥ √ Technical Performance

GER HIGH PRECISION PLANETARY GEARBOXES

Technical Performance

↓ Dimensions

3 **E** Front plate option



y̧ ̀Ω

ử ھ

GB . GB HIGH PRECISION PLANETARY GEARBOXES

Technical Performance

Item	Number of stage	˜E Reduction ratio	GB042	GB060								

¶=òL•10

↓ ₮ A ؤ Dimensions

Item	GB042	GB060	GB090	GB115	GB142	GB180	GB220
D1 ؛ D1 mounting hole distribution circle	50	70	100	130	165	215	250
D2 D2 mounting screw hole	3.4	5.5	6.6	9	11	13	17
D3 D3 output shaft diameter	13	16	22	32	40	55	75
D4 D4 spigot diameter	35	50	80	110	130	160	180
D5 D5 output shaft mounting screw	M4 × 0.7P	M5 × 0.8P	M8 × 1.25P	M12 × 1.75P	M16 × 2P	M20 × 2.5P	M20 × 2.5P
D6 D6 body diameter	56	80	116	152	185	240	292
L1 ẳ L1 output ange	42	60	90	115	142	180	220
L2 L2 output shaft lenght	26	37	48	65	97	105	138
L3 L3 spigot lenght	5.5	7	10	12	15	20	30
L4 L4 key lenght	16	25	32	40	63	70	90
L5 L5 key lenght to the shaft end	2	2	3	5	5	6	7
L6 ẳ ɧ L6 output ange thickness	4	6	8	10	12	15	20
L7 ᾤ L7 mounting surface to the front length	31	61	78.5	102			

0302 0503301C349.463C>281.063192 <006g

↓ Dimensions

Technical Performance

GBR ᴋ ə ᴀ Ḥ . GBR HIGH PRECISION PLANETARY GEARBOXES(¨ Ḥ i=15~100)

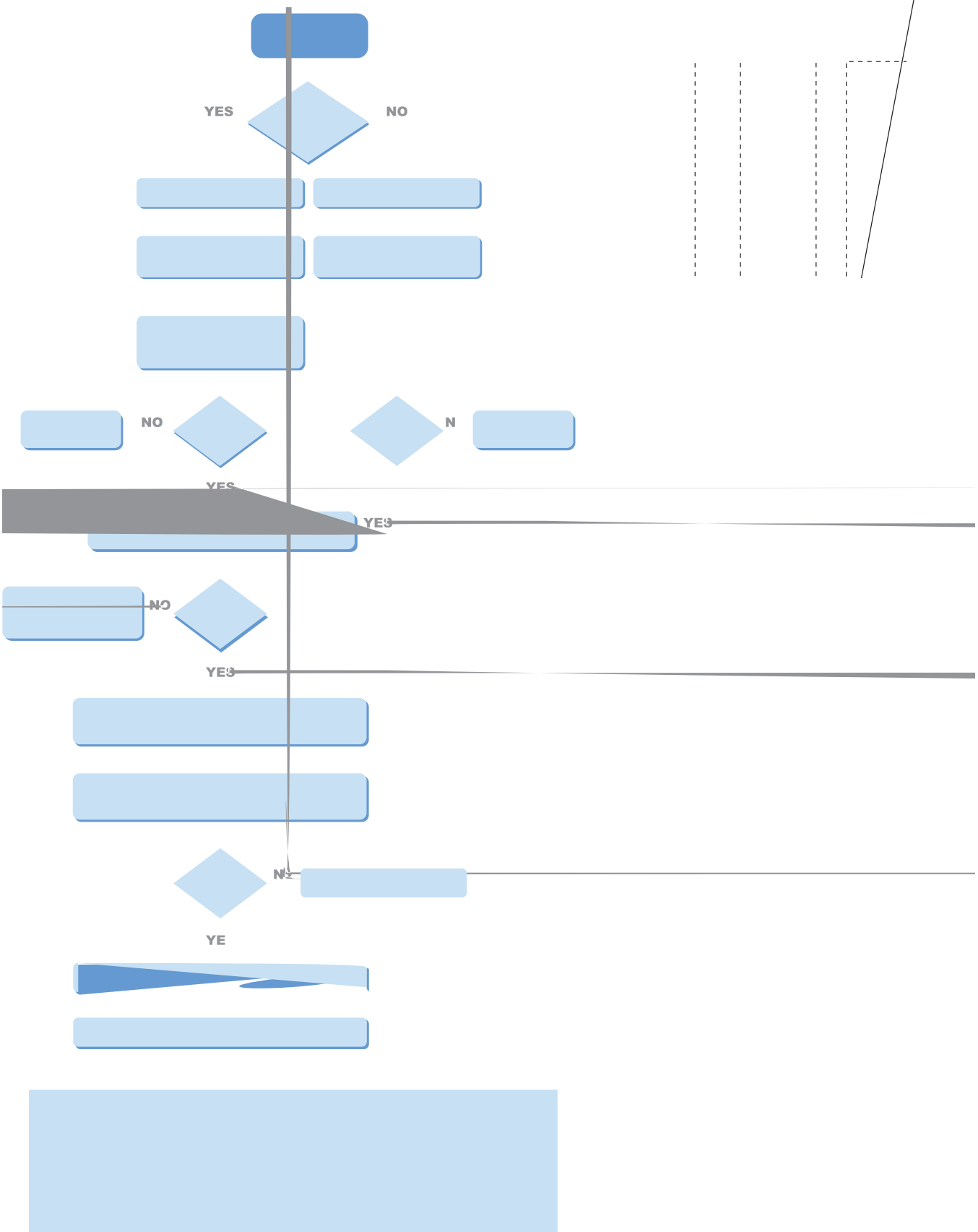
↓ ₮ A ᵹ Dimensions

(╥ Unit: mm)

Item	GBR042	GBR060	GBR090	GBR115	GBR142	GBR180	GBR220
D1 ¸ D1 mounting hole distribution circle	50	70	100	130	165	215	250
D2 D2 mounting screw hole	3.4	5.5	6.6	9	11	13	17
D3 D3 output shaft diameter	13	16	22	32	40	55	75
D4 D4 spigot diameter	35	50	80	110	130	160	180
D5 D5 output shaft mounting screw	M4 × 0.7P	M5 × 0.8P	M8 × 1.25P	M12 × 1.75P	M16 × 2P	M20 × 2.5P	M20 × 2.5P
D6 D6 body diameter	56	80	116	152	185	240	292
L1 ẳ L1 output □ange	42	60	90	115	142	180	220
L2 L2 output shaft lenght	26	37	48	65	97	105	138
L3 L3 spigot lenght	5.5	7	10	12	15	20	30
L4 L4 key lenght	16	25	32	40	63	70	90
L5 L5 key lenght to the shaft end	2	2	3	5	5	6	7
L6 ẳ ḥ L6 output □ange thickness	4	6	8	10	12	15	20
L7 ᶏ L7 mounting surface to the front length	139	163.5	206.5	285	365	431	521
L8 L8 output shaft center cone	4.5	4.8	7.2	10	12	15	15
L9 L9 depth of center hole	10	12.5	19	28	36	42	42
C1 C1 input terminal mounting hole	46	46	70	100	130	165	215
C2 C2 mounting screw hole	M4 × 0.7P	M5 × 0.8P	M6 × 1P	M8 × 1.25P	M10 × 1.5P	M12 × 1.75P	M12 × 1.75P
C3 C3 input hole diameter	≤ 11	≤ 11/ ≤ 12	≤ 14/ ≤ 16	≤ 19/ ≤ 24	≤ 32	≤ 38	≤ 48
C4 C4 hole depth of input shaft	25	25	34	40	50	60	85
C5 C5 input end positioning stop diameter	30	30	50	80	110	130	180
C6 C6 input end positioning stop depth	3.5	8	4	5	6	6	6
C7 ẳ C7 input □ange	42	42	60	90	115	142	190
C8 C8 overall lenght	90.5	99.5	126.5	165	205	254.5	323.5
B1 B1 key width	5	5	6	10	12	16	20
H1 H1 key height	15	18	24.5	35	43	59	79.5

C1~C8 ˜A C1~C8 are motor speci□c dimensions (metric std shown).

̓Ạ σ Ḥ . Selection of the Optimum Gearbox



300
10
20
40
60
100
200
400
600
1000
2000