



- A general-purpose motor that runs at constant speed for 24 hours, prioritizes cost-effectiveness, and is easy to maintain.
- **【Product Features】**
 - Robust structure and high efficiency enable energy saving and stable operation for constant-speed applications such as conveyors, fans, and pumps.
 - Easy selection of 2-pole/4-pole, various voltages, and low-speed torque.

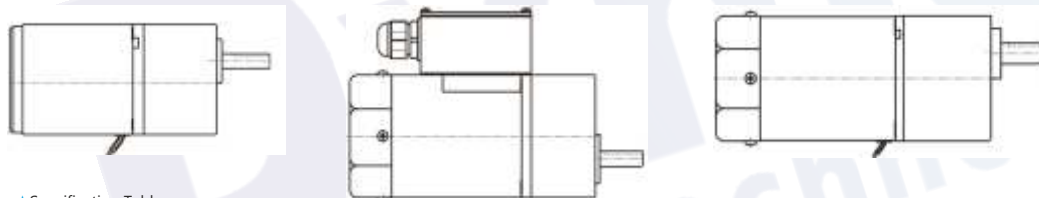
Motor Type	Type	Applications	Features	Notes	Output Range	Voltage
Induction Motor	DEA-IMA DEA-IMB	【Constant-speed continuous operation】 (24-hour use such as fans, pumps, mixers, conveyors with minimal load fluctuation)	Simple and robust structure. Three-phase types provide high efficiency and good starting characteristics single-phase types offer easy wiring.	Not suitable for large acceleration deceleration or frequent forward/reverse cycles.	6~200W	Single-phase 110~120V Single-phase 220~230V Three-phase 200~230V Three-phase 380~415V
Reversible Motor	DEA-RM	【Frequent forward/reverse operation】 positioning, reciprocating motion, pushing applications	Frequent forward/reverse operation positioning, reciprocating motion, pushing applications	Generates a lot of heat, so it has a short-time rating (ex. 30 minutes)	6~120W	
Brake Motor	DEA-BM	【Holding / maintaining】 stop lifting, vertical transport, safety stop	Stops and holds immediately when power is turned off, and maintains position even during power failure	Limitations apply regarding stop frequency and temperature environment	6~200W	
Speed Control Motor	DEA-AM	【Speed control】 flow control, tension control, synchronous feeding, frequent setup changes	Controller-integrated design for easy wiring with a wide adjustable speed range	Risk of overheating during ultra-low-speed continuous operation	3~200W	
Reversible Speed Control Motor	DEA-ARM	【Speed control + reverse】 positioning, reciprocating motion, pushing applications requiring adjustable speed	Combines speed control and reversing capability in a single unit.	Risk of overheating during ultra-low-speed continuous operation	25~120W	
Brake Speed Control Motor	DEA-ABM	【Speed control + Brake】 vertical transport, lifting requiring speed adjustment and position holding	Allows speed adjustment while maintaining safe and stable stopping performance.	Not suitable for continuous operation under heavy braking conditions.	25~200W	
Torque Motor	DEA-TM	【Tension Control】 Winding, feeding, and pressing applications that require maintaining constant tension or pressure.	Maintains high torque even at low or near-stopped speeds	Generates significant heat ensure operation within continuous torque rating and provide cooling	3~20W	

● **Outline Drawing**
Link Pages which have outline dimension, wiring, technical data are available.
Please refer to the page top " Product Description ".

* Motor & Gearhead Set

* Terminal Box / Fan-Attached Type

* Fan-Attached Type



* Specification Table

Please select the model and parameters according to the options below before placing your order.

● **Motor Body**

① Type	② No	Flange Size	Output Power (W)	③ Shaft End Shape	④ Input V Code	⑤ Fan	⑥ Terminal Box
<4 poles> DEA-IMA	2006	60	6	GN: GN Gear A: Round	4poles A Single 110V 50/60Hz 4poles E Single 110V/120V 60Hz 4poles C Single 220/230V 50Hz 4poles H Single 220/230V 60Hz 4poles S Three200/220/230V 50/60Hz 4poles S3 Three380/400/415V 50/60Hz 4poles	none	Not applicable
	3015	70	15			none	
	4025	80	25			none	
	5040	90	40	GN, GU, A		F: With fan	
	5060		60			F: With fan	
	5090		90			F: With fan	
	5120		120			F: With fan	
	6120	104	140	GU: GU Gear A: Round		F: With fan	
	6140		140			F: With fan	
	6200		200			F: With fan	
<2 poles> DEA-IMA	2006	60	6	A: Round	2poles High Speed B : Single 110V. 50Hz. 2poles D : Single 220V. 50Hz. 2poles T : Three200/220/230V. 50/60Hz. 2poles T3: Three380/400/415V. 50/60Hz. 2poles	none	Not applicable
	3015	70	15			none	
	4025	80	25			none	
	4040		40			F: With fan	
	5040	90	40			none	
	5060		60			F: With fan	
	5090		90			F: With fan	
	5120		120			F: With fan	
	5150	150	150			F: With fan	T: Terminal box ※Only for over 90W and three phase Voltage.

● The various safety standards are certified based on the model name indicated on the motor's nameplate.
For the "A" model with a voltage of 110V, please refer to the capacitor capacity shown on the actual unit's nameplate.

Gearhead (Additional machining can be specified)

※ Additional machining can be designated only when selecting shaft types GN or GU.

●-● Please select the model and parameters according to the options below before placing your order.

Part Number	③ Shaft End Shape	④ Input V Code	⑤ Additional Option Fan / Terminal Box Type	⑥ Additional Option Gearhead Selection	⑦ Additional Option Gear Ratio
DEA-IMB	DGN	C	T	DGH	30
DEA-IMB	A	B	F-T		



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● Gearhead (Additional machining can be specified)
Additional machining can be designated only when selecting shaft types DGN or DGU.

Alterations Code	No	Flange Size	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
DGH	2	60	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	3	70	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	4	80	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	5	90	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	120	180	200
	6	104	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	120	180	200

* Gearhead standalone model number = EA- & (Additional Processing Code) & (Flange No.) & (Gear Ratio)

● Specification Overview

4-Pole Voltage (DEA-IMA)

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Type No.	Flange Size	Output (W)	Shaft Shape	Input V Code	Voltage	Frequency	Starting Current	Starting Torque	Rated Torque	Speed	Capacitor
					[V]	[Hz]	[A]	[mN · m]	[mN · m]	[r/min]	[μF]
2006	60	6	GN A	-A	1ph 100	50	0.24	55	48	1,200	3.5
					1ph 110	60	0.25	50	40	1,450	3.5
					1ph 120	60	0.16	40	40	1,450	2
					1ph 220	50	0.18	40	40	1,450	2
					1ph 230	50	0.13	50	48	1,200	0.8
					1ph 230	50	0.14	50	40	1,450	0.8
					1ph 220	60	0.13	55	40	1,450	0.8
					1ph 230	60	0.14	55	40	1,450	0.8
					3ph 220	50	0.076	85	48	1,200	-
					3ph 220	60	0.065	70	40	1,450	-
3015	70	15	GN A	-A	1ph 100	50	0.35	90	125	1,200	6
					1ph 110	60	0.33	85	105	1,450	6
					1ph 120	60	0.3	65	105	1,450	5
					1ph 220	50	0.18	90	125	1,200	1.2
					1ph 230	50	0.2	90	125	1,200	1.2
					1ph 220	60	0.16	65	105	1,450	1.2
					1ph 230	60	0.15	70	105	1,450	1.2
					3ph 220	50	0.14	220	125	1,200	-
					3ph 220	60	0.12	180	105	1,450	-
					3ph 380	50	0.08	220	125	1,200	-
4025	80	25	GN A	-A	1ph 100	50	0.5	120	200	1,250	8
					1ph 110	60	0.55	120	165	1,550	8
					1ph 120	60	0.45	120	165	1,550	7
					1ph 220	50	0.5	120	200	1,250	1.8
					1ph 230	50	0.23	120	200	1,250	1.8
					1ph 230	60	0.23	120	165	1,550	1.8
					1ph 230	60	0.23	120	165	1,550	1.8
					3ph 220	50	0.185	350	200	1,250	-
					3ph 220	60	0.17	250	165	1,550	-
					3ph 380	50	0.106	350	200	1,250	-
5040	90	40	GN A	-A	1ph 100	50	0.65	220	315	1,250	12
					1ph 110	60	0.7	220	260	1,550	12
					1ph 120	60	0.55	200	260	1,550	8
					1ph 220	50	0.6	200	260	1,550	8
					1ph 230	50	0.35	220	315	1,250	2.5
					1ph 230	50	0.4	220	315	1,250	2.5
					1ph 220	60	0.35	200	260	1,550	2.5
					1ph 230	60	0.4	200	260	1,550	2.5
					3ph 220	50	0.3	800	315	1,250	-
					3ph 220	60	0.25	660	250	1,550	-
5060	90	60	GN A	-A	1ph 100	50	1	320	470	1,250	20
					1ph 110	60	1.1	320	380	1,550	20
					1ph 120	60	0.85	300	380	1,550	12
					1ph 220	50	0.5	340	470	1,250	4
					1ph 230	50	0.55	340	470	1,250	4
					1ph 220	60	0.5	340	380	1,550	4
					1ph 230	60	0.55	340	380	1,550	-
					3ph 220	50	0.45	1,000	470	1,250	-
					3ph 220	60	0.4	800	380	1,550	-
					3ph 380	50	0.26	1,000	470	1,250	-
5090	90	90	GU A	-A	1ph 100	50	1.55	450	700	1,250	25
					1ph 110	60	1.85	450	570	1,550	20
					1ph 120	60	1.4	500	570	1,550	20
					1ph 220	50	0.72	450	700	1,250	5
					1ph 230	50	0.7	450	700	1,250	5
					1ph 220	60	0.71	450	570	1,550	5
					1ph 230	60	0.75	450	570	1,550	-
					3ph 220	50	0.6	1,350	700	1,250	-
					3ph 220	60	0.55	1,100	570	1,550	-
					3ph 380	50	0.35	1,350	700	1,250	-
5120	90	120	GU A	-A	1ph 100	50	2.1	600	930	1,250	30
					1ph 110	60	2.5	600	750	1,550	25
					1ph 120	60	1.65	600	750	1,550	25
					1ph 220	50	1.8	600	750	1,550	7
					1ph 230	50	1	650	930	1,250	7
					1ph 230	50	0.95	650	930	1,250	7
					1ph 220	60	1	600	750	1,550	7
					1ph 230	60	0.95	600	750	1,550	-
					3ph 220	50	0.7	1,850	930	1,250	-
					3ph 220	60	0.6	1,600	750	1,550	-
6120	104	120	GU A	-A	1ph 100	50	2.1	600	930	1,250	30
					1ph 110	60	2.5	600	750	1,550	20
					1ph 120	60	1.7	600	750	1,550	20
					1ph 220	50	1.8	600	750	1,550	8
					1ph 230	50	0.95	750	930	1,250	8
					1ph 230	50	0.95	750	930	1,250	8
					1ph 220	60	0.95	700	750	1,550	8
					1ph 230	60	1	700	750	1,550	-
					3ph 220	50	0.75	2,200	890	1,300	-
					3ph 220	60	0.7	2,000	730	1,600	-
6140	104	140	GU A	-A	1ph 100	50	2.7	700	1,080	1,250	35
					1ph 110	60	3	700	870	1,550	25
					1ph 120	60	1.8	700	850	1,600	25
					1ph 220	50	1.95	700	850	1,600	10
					1ph 230	50	1.05	850	1,040	1,350	10
					1ph 230	50	1.15	850	1,040	1,350	10
					1ph 220	60	1.05	750	850	1,600	10
					1ph 230	60	1.15	750	850	1,600	-
					3ph 220	50	0.85	2,700	1,080	1,250	-
					3ph 220	60	0.75	2,200	870	1,550	-
6200	104	200	GU A	-A	1ph 100	50	3.2	900	1,520	1,250	45
					1ph 110	60	3.5	900	1,230	1,550	35
					1ph 120	60	2.75	850	1,230	1,550	35
					1ph 220	50	2.65	850	1,230	1,550	10
					1ph 230	50	1.4	1,000	1,520	1,250	10
					1ph 230	50	1.4	1,000	1,520	1,250	10
					1ph 220	60	1.4	900	1,230	1,550	10
					1ph 230	60	1.4	900	1,230	1,550	-
					3ph 220	50	1.2	3,400	1,520	1,250	-
					3ph 220	60	1	2,700	1,230	1,550	-

● 2-Pole Voltage (EA-IMB)



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2-Pole Voltage (DEA-IMB)

Type No.	Flange Size	Output (W)	Shaft Shape	Input V Code	Voltage	Frequency	Starting Current	Starting Torque	Rated Torque	Speed	Capacitor		
					[V]	[Hz]	[A]	[mN · m]	[mN · m]	[r/min]	[μF]		
2006	60	6	A	0	1ph 110	50	0.18	35	22	2,650	3		
				-D	1ph 220	50	0.11	35	18	3,100	3		
				60	0.12	35	18	3,100	0.8				
		15	A	-B	1ph 110	50	0.38	65	54	2,650	6		
				-D	1ph 220	50	0.4	65	46	3,100	6		
				60	0.18	65	46	2,650	1.5				
3015	70	25	A	-B	1ph 110	50	0.55	90	90	2,650	10		
				-D	1ph 220	50	0.65	90	77	3,100	10		
				60	0.25	90	70	2,650	2				
				60	0.3	90	77	3,100	2				
				-T	3ph 220	50	0.2	220	88	2,700	-		
				60	0.15	185	75	3,200	-				
		4025	80	40	A	0	3ph 380	50	0.11	220	88	2,700	-
						60	0.08	185	75	3,200	-		
						-B	1ph 110	50	0.8	120	147	2,600	12
						-D	1ph 220	50	0.85	120	123	3,100	12
						60	0.4	120	147	2,600	3		
						60	0.45	120	123	3,100	3		
5040	80	40	A	-T	3ph 220	50	0.27	350	147	2,600	-		
				60	0.22	300	123	3,100	-				
				0	3ph 380	50	0.15	350	147	2,600	-		
				60	0.13	300	123	3,100	-				
				-B	1ph 110	50	0.75	140	147	2,600	10		
				60	0.9	140	123	3,100	10				
		5060	90	60	A	-D	1ph 220	50	0.38	140	144	2,650	3
						60	0.4	140	120	3,200	3		
						-T	3ph 220	50	0.26	350	147	2,600	-
						60	0.21	300	123	3,100	-		
						0	3ph 380	50	0.15	350	147	2,600	-
						60	0.12	300	123	3,100	-		
5090	90			90	A	-B	1ph 110	50	1.05	170	215	2,650	15
						60	1	170	180	3,200	15		
						-D	1ph 220	50	0.52	180	215	2,650	4
						60	0.55	180	180	3,200	4		
						-T	3ph 220	50	0.35	500	215	2,650	-
						60	0.3	420	180	3,200	-		
		5120	90	120	A	0	3ph 380	50	0.2	500	215	2,650	-
						60	0.1	420	180	3,200	-		
						-B	1ph 110	50	1.5	250	325	2,650	25
						60	1.8	250	270	3,200	25		
						-D	1ph 220	50	0.72	250	325	2,650	6
						60	0.9	250	270	3,200	6		
5150	90			150	A	-T	3ph 220	50	0.5	800	325	2,650	-
						60	0.42	670	270	3,200	-		
						0	3ph 380	50	0.29	800	325	2,650	-
						60	0.24	670	270	3,200	-		
						-B	1ph 110	50	1.85	330	450	2,650	30
						60	2.25	330	360	3,200	30		

Allowable Torque When a Gearhead Is Mounted

Please purchase gearheads and mid-gearheads either by specifying additional machining for the motor or from the standalone product page (AC Motor Gearhead EA Series).

When the additional machining code DGH is specified, the gear ratio is entered in the box () within the model number.

Combinations shown in the Blue cells () indicate that the output rotation direction is opposite to that of the motor. All other combinations have the same rotation direction.

The rotational speed is a reference value calculated by dividing the motor's synchronous speed (50 Hz: 1500 r/min, 60 Hz: 1800 r/min) by the gear ratio.

The actual rotational speed decreases by approximately 2-20% from the listed value depending on the load.

If a greater gear ratio than those listed in the table is required, please add a mid-gearhead with a gear ratio of 10 between the motor and the gearhead.

In this case, the allowable torque is 20 N·m.

Allowable Torque Table (4-Pole Voltage)

Type (Motor/ Gearhead)	Allowance Torque Unit																									
	Gear Ratio																									
		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	
DEA-IMA2006-GN	50Hz	N·m	0.12	0.14	0.19	0.23	0.29	0.35	0.39	0.49	0.58	0.7	0.75	0.88	1.1	1.3	1.39	1.6	1.9	2.4	2.9	3	3	3	3	3
	60Hz	kgf·cm	1.22	1.43	1.94	2.35	2.96	3.57	3.98	5	5.92	7.14	7.65	8.98	11.2	13.3	14.2	16.3	19.4	24.5	29.6	30	30	30	30	30
DEA-IMA3015-GN	50Hz	N·m	0.1	0.12	0.16	0.19	0.24	0.29	0.32	0.41	0.49	0.58	0.62	0.73	0.88	1.1	1.15	1.3	1.6	2	2.4	2.6	3	3	3	3
	60Hz	kgf·cm	1.02	1.22	1.63	1.94	2.45	2.96	3.26	4.18	5	5.92	6.32	7.45	8.98	11.2	11.7	13.3	16.3	20.4	24.5	26.5	30	30	30	30
DEA-IMA4025-GN	50Hz	N·m	0.3	0.36	0.51	0.61	0.76	0.91	0.97	1.3	1.5	1.8	1.94	2.3	2.7	3.3	3.48	4.1	5	5	5	5	5	5	5	5
	60Hz	kgf·cm	3.06	3.67	5.2	6.22	7.75	9.28	9.9	13.2	15.3	18.3	19.8	23.4	27.5	33.7	35.5	41.8	50	50	50	50	50	50	50	50
DEA-IMA5040-GN	50Hz	N·m	0.49	0.58	0.81	0.97	1.2	1.5	1.55	2	2.4	2.9	3.17	3.7	4.4	5.3	5.57	6.6	7.9	8	8	8	8	8	8	8
	60Hz	kgf·cm	5	5.91	8.26	9.89	12.2	15.3	15.8	20.4	24.4	29.6	32.3	37.7	44.9	54.1	56.8	67.3	80	80	80	80	80	80	80	80
DEA-IMA5060-GN	50Hz	N·m	0.4	0.48	0.67	0.8	1	1.2	1.25	1.7	2	2.4	2.64	3	3.6	4.3	4.49	5.4	6.5	8	8	8	8	8	8	8
	60Hz	kgf·cm	4.08	4.89	6.83	8.16	10.2	12.2	12.8	17.3	20.4	24.4	26.9	30.6	36.7	43.8	45.8	55.1	66.3	80	80	80	80	80	80	80
DEA-IMA5090-GN	50Hz	N·m	0.77	0.92	1.3	1.5	1.9	2.3	2.38	3.2	3.8	4.6	4.88	5.7	6.9	8.3	8.57	10	10	10	10	10	10	10	10	10
	60Hz	kgf·cm	7.85	9.38	13.2	15.3	19.4	23.4	24.3	32.6	38.7	46.9	49.8	58.1	70.4	84.7	87.4	100	100	100	100	100	100	100	100	100
DEA-IMA5060-GU	50Hz	N·m	0.63	0.76	1.1	1.3	1.6	1.9	2	2.6	3.2	3.8	4.07	4.7	5.7	6.8	7.19	8.6	10	10	10	10	10	10	10	10
	60Hz	kgf·cm	6.42	7.75	11.2	13.2	16.3	19.3	20.4	26.5	32.6	38.7	41.5	47.9	58.1	69.3	73.4	87.7	100	100	100	100	100	100	100	100
DEA-IMA5120-GU	50Hz	N·m	1.1	1.4	1.9	2.3	2.9	3.4	3.57	4.8	5.7	6.8	7.03	8.6	10	10	10	10	10	10	10	10	10	10	10	10
	60Hz	kgf·cm	11.2	14.2	19.3	23.4	29.6	34.7	36.4	48.9	58.1	69.3	71.7	87.7	100	100	100	100	100	100	100	100	100	100	100	100
DEA-IMA6120 D-GU-AF, EF, HF	50Hz	N·m	0.92	1.1	1.5	1.8	2.3	2.8	2.99	3.8	4.6	5.5	5.7	6.9	8.3	10	10	10	10	10	10	10	10	10	10	10
	60Hz	kgf·cm	9.38	11.2	15.3	18.3	23.4	28.5	30.5	38.7	46.9	56.1	58.2	70.1	84.7	100	100	100	100	100	100	100	100	100	100	100
DEA-IMA6140 D-GU-SF	50Hz	N·m	1.1	1.4	1.9	2.3	2.9	3.4	3.61	4.8	5.7	6.8	7.12	8.6	10	10.3	11.6	12.4	15.5	18.6	20	20	20	20	20	20
	60Hz	kgf·cm	11.2	14.2	19.3	23.4	29.6	34.7	36.8	48.9	58.1	69.3	72.6	87.7	100	105	118	126	158	189	200	200	200	200	200	200
DEA-IMA6140 D-GU-HF	50Hz	N·m	0.92	1.1	1.5	1.8	2.3	2.8	3.01	3.8	4.6	5.5	5.73	6.9	8.3	8.3	9.7	10	12.5	15	18.8	20	20	20	20	20
	60Hz	kgf·cm	9.38	11.2	15.3	18.3	23.4	28.5	30.7	38.7	46.9	56.1	58.4	70.1	84.7	84.6	98.9	102	127	153	192	200	200	200	200	200
DEA-IMA6200-GU	50Hz	N·m	1.1	2	2.8	3.4	4.3	5.1	5.31	6.4	7.7	9.2	9.55	11.6	13.6	16.6	18.1	20	20	20	20	20	20	20	20	20
	60Hz	kgf·cm	17.3	20.4	28.6	34.7	43.9	52	54.2	65.3	78.6	93.3	97.4	118	142	169	184	200	200	200	200	200	200	200	200	200
DEA-IMA6120 D-GU-SF	50Hz	N·m	1.4	1.7	2.3	2.8	3.5	4.2	4.43	5.2	6.2	7.5	7.81	9.4	11.3	13.5	14.5	18.8	20	20	20	20	20	20	20	20
	60Hz	kgf·cm	14.3	17.3	23.5	28.6	35.7	42.9	45.2	53.1	63.3	76.5	79.6	95.9	115	138	148	192	200	200	200	200	200	200	200	200
DEA-IMA6140 D-GU-SF	50Hz	N·m	2.3	2.7	3.8	4.5	5.6	6.8	7.01	8.5	10.2	12.2	12.5	15.3	18.4	20	20	20	20	20	20	20	20	20	20	20
	60Hz	kgf·cm	23.4	27.5	38.7	45.9	57.1	69.3	71.5	86.7	104	124	128	156	187	200	200	200	200	200	200	200	200	200	200	200
DEA-IMA6140 D-GU-HF	50Hz	N·m	1.8	2.2	3	3.6	4.6	5.5	5.73	6.8	8.2	9.8	10.1	12.4	14.9	17.8	19.5	20	20	20	20	20	20	20	20	20
	60Hz	kgf·cm	18.3	22.4	30.6	36.7	46.9	56.1	58.5	69.5	83.6	100	103	126	152	181	199	200	200	200	200	200	200	200	200	200
DEA-IMA6200-GU	50Hz	N·m	2.22	2.6	3.6	4.3	5.4	6.5	6.42	8.1	9.7	11.7	11.6	14.7	17.6	21.1	23.2	29.4	35.2	40	40	40	40	40	40	40
	60Hz	kgf·cm	2.4	26.5	36.7	43.8	55	66.3	65.6	87.6	98.8	119	118	149	179	215	236	300	359	400	400	400	400	400	400	400
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