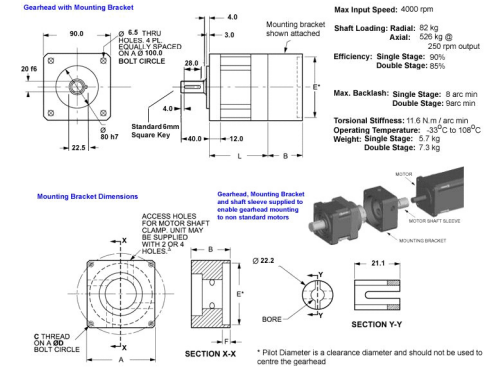




# MBA

## Gearheads - Inline - Planetary - Size 90 - Adapted



With Nema and Non Nema Size Adaptors.

Maximum input speed 4000 rpm.

Shaft loading 53kg (120 lbs) radial and 289kg (648 lbs) axial at 250rpm output.

Min. Efficiency ---- Single Stage : 90%, Double Stage : 85%.

Max Backlash ---- Single Stage : 8 arc min, Double Stage : 9 arc min.

Operating Temperature : -34 to 121 Deg C (-29 to 250 Deg F).

This catalogue to be read in conjunction with information at

[http://www.minibearings.com.au/ogue/tech/gearheads/gearhead\\_adapted\\_general.pdf](http://www.minibearings.com.au/ogue/tech/gearheads/gearhead_adapted_general.pdf)

[http://www.minibearings.com.au/ogue/tech/gearheads/gearhead\\_adapted\\_mounting.pdf](http://www.minibearings.com.au/ogue/tech/gearheads/gearhead_adapted_mounting.pdf)

## Gearheads - Inline - Planetary - Size 90 - Adapted

Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-003-09.53x98	3 : 1	9.525	Single Stage / 20mm	98.300	15.5 to 38.8	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.375</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-003-09.53x145	3 : 1	9.525	Single Stage / 20mm	145.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.375</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>

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Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-003-12.70x98	3 : 1	12.700	Single Stage / 20mm	98.300	15.5 to 38.8	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.500</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-003-12.70x145	3 : 1	12.700	Single Stage / 20mm	145.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.500</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-003-12.70x100	3 : 1	12.700	Single Stage / 20mm	100.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.500</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-003-14.00x145	3 : 1	14.000	Single Stage / 20mm	145.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.551</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-003-14.00x100	3 : 1	14.000	Single Stage / 20mm	100.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.551</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-003-14.00x98	3 : 1	14.000	Single Stage / 20mm	98.300	15.5 to 38.8	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.551</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-003-15.88x145	3 : 1	15.875	Single Stage / 20mm	145.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.625</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-003-15.88x100	3 : 1	15.875	Single Stage / 20mm	100.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.625</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>

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Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-003-15.88x98	3 : 1	15.875	Single Stage / 20mm	98.300	15.5 to 38.8	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.625</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-003-16.00x98	3 : 1	16.000	Single Stage / 20mm	98.300	15.5 to 38.8	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.630</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-003-16.00x145	3 : 1	16.000	Single Stage / 20mm	145.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.630</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-003-16.00x100	3 : 1	16.000	Single Stage / 20mm	100.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.630</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-003-19.00x145	3 : 1	19.000	Single Stage / 20mm	145.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.748</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-003-19.00x100	3 : 1	19.000	Single Stage / 20mm	100.000	22.4 to 45.5	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.748</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-003-19.00x98	3 : 1	19.000	Single Stage / 20mm	98.300	15.5 to 38.8	56 / 37 (496 / 327 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.748</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-005-09.53x145	5 : 1	9.525	Single Stage / 20mm	145.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.375</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>

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## Gearheads - Inline - Planetary - Size 90 - Adapted

Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-005-09.53x98	5 : 1	9.525	Single Stage / 20mm	98.300	15.5 to 38.8	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.375</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-005-12.70x100	5 : 1	12.700	Single Stage / 20mm	100.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.500</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-005-12.70x98	5 : 1	12.700	Single Stage / 20mm	98.300	15.5 to 38.8	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.500</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-005-12.70x145	5 : 1	12.700	Single Stage / 20mm	145.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.500</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-005-14.00x100	5 : 1	14.000	Single Stage / 20mm	100.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.551</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-005-14.00x145	5 : 1	14.000	Single Stage / 20mm	145.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.551</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-005-14.00x98	5 : 1	14.000	Single Stage / 20mm	98.300	15.5 to 38.8	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.551</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-005-15.88x100	5 : 1	15.875	Single Stage / 20mm	100.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.625</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>

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Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-005-15.88x98	5 : 1	15.875	Single Stage / 20mm	98.300	15.5 to 38.8	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.625</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-005-15.88x145	5 : 1	15.875	Single Stage / 20mm	145.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.625</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-005-16.00x100	5 : 1	16.000	Single Stage / 20mm	100.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.630</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-005-16.00x98	5 : 1	16.000	Single Stage / 20mm	98.300	15.5 to 38.8	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.630</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-005-16.00x145	5 : 1	16.000	Single Stage / 20mm	145.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.630</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-005-19.00x98	5 : 1	19.000	Single Stage / 20mm	98.300	15.5 to 38.8	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.748</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-005-19.00x145	5 : 1	19.000	Single Stage / 20mm	145.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.748</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-005-19.00x100	5 : 1	19.000	Single Stage / 20mm	100.000	22.4 to 45.5	62 / 41 (549 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.748</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>

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		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-010-09.53x145	10 : 1	9.525	Single Stage / 20mm	145.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.375</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-010-09.53x98	10 : 1	9.525	Single Stage / 20mm	98.300	15.5 to 38.8	51 / 41 (451 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.375</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-010-12.70x98	10 : 1	12.700	Single Stage / 20mm	98.300	15.5 to 38.8	51 / 41 (451 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.500</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-010-12.70x145	10 : 1	12.700	Single Stage / 20mm	145.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.500</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-010-12.70x100	10 : 1	12.700	Single Stage / 20mm	100.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.500</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-010-14.00x145	10 : 1	14.000	Single Stage / 20mm	145.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.551</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-010-14.00x100	10 : 1	14.000	Single Stage / 20mm	100.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.551</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-010-14.00x98	10 : 1	14.000	Single Stage / 20mm	98.300	15.5 to 38.8	51 / 41 (451 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.551</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>

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		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-010-15.88x100	10 : 1	15.875	Single Stage / 20mm	100.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.625</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-010-15.88x145	10 : 1	15.875	Single Stage / 20mm	145.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.625</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
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		<i>0.625</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-010-16.00x100	10 : 1	16.000	Single Stage / 20mm	100.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.630</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-010-16.00x145	10 : 1	16.000	Single Stage / 20mm	145.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.630</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>
# GHIP90-010-16.00x98	10 : 1	16.000	Single Stage / 20mm	98.300	15.5 to 38.8	51 / 41 (451 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.630</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-010-19.00x100	10 : 1	19.000	Single Stage / 20mm	100.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.748</i>		<i>3.937</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-010-19.00x145	10 : 1	19.000	Single Stage / 20mm	145.000	22.4 to 45.5	51 / 41 (451 / 363 lb.in)	129.7 / 110.4	67.0	62.7
		<i>0.748</i>		<i>5.709</i>				<i>2.638</i>	<i>2.469</i>

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		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-010-19.00x98	10 : 1	19.000	Single Stage / 20mm	98.300	15.5 to 38.8	51 / 41 (451 / 363 lb.in)	111.1 / 80.4	67.0	44.1
		<i>0.748</i>		<i>3.870</i>				<i>2.638</i>	<i>1.736</i>
# GHIP90-015-09.53x98	15 : 1	9.525	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.375</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-015-09.53x145	15 : 1	9.525	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.375</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-015-12.70x100	15 : 1	12.700	Double Stage / 20mm	100.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.500</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-015-12.70x98	15 : 1	12.700	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.500</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-015-12.70x145	15 : 1	12.700	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.500</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-015-14.00x100	15 : 1	14.000	Double Stage / 20mm	100.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.551</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-015-14.00x145	15 : 1	14.000	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.551</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>

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## Gearheads - Inline - Planetary - Size 90 - Adapted

Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-015-14.00x98	15 : 1	14.000	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.551</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-015-15.88x100	15 : 1	15.875	Double Stage / 20mm	100.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.625</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-015-15.88x145	15 : 1	15.875	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.625</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-015-15.88x98	15 : 1	15.875	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.625</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-015-16.00x98	15 : 1	16.000	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.630</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-015-16.00x100	15 : 1	16.000	Double Stage / 20mm	100.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.630</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-015-16.00x145	15 : 1	16.000	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.630</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-015-19.00x98	15 : 1	19.000	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.748</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>

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## Gearheads - Inline - Planetary - Size 90 - Adapted

Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-015-19.00x100	15 : 1	19.000	Double Stage / 20mm	100.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.748</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-015-19.00x145	15 : 1	19.000	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 60 (761 / 531 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.748</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-025-09.53x145	25 : 1	9.525	Double Stage / 20mm	145.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.375</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-025-09.53x98	25 : 1	9.525	Double Stage / 20mm	98.300	15.5 to 38.8	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.375</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-025-12.70x98	25 : 1	12.700	Double Stage / 20mm	98.300	15.5 to 38.8	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.500</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-025-12.70x145	25 : 1	12.700	Double Stage / 20mm	145.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.500</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-025-12.70x100	25 : 1	12.700	Double Stage / 20mm	100.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.500</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-025-14.00x145	25 : 1	14.000	Double Stage / 20mm	145.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.551</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>

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## Gearheads - Inline - Planetary - Size 90 - Adapted

Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-025-14.00x100	25 : 1	14.000	Double Stage / 20mm	100.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.551</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-025-14.00x98	25 : 1	14.000	Double Stage / 20mm	98.300	15.5 to 38.8	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.551</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-025-15.88x100	25 : 1	15.875	Double Stage / 20mm	100.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.625</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-025-15.88x145	25 : 1	15.875	Double Stage / 20mm	145.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.625</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-025-15.88x98	25 : 1	15.875	Double Stage / 20mm	98.300	15.5 to 38.8	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.625</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-025-16.00x145	25 : 1	16.000	Double Stage / 20mm	145.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.630</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-025-16.00x98	25 : 1	16.000	Double Stage / 20mm	98.300	15.5 to 38.8	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.630</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-025-16.00x100	25 : 1	16.000	Double Stage / 20mm	100.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.630</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>

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Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-025-19.00x98	25 : 1	19.000	Double Stage / 20mm	98.300	15.5 to 38.8	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.748</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-025-19.00x145	25 : 1	19.000	Double Stage / 20mm	145.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.748</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-025-19.00x100	25 : 1	19.000	Double Stage / 20mm	100.000	22.4 to 45.5	83 / 66 (735 / 584 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.748</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-09.53x145	30 : 1	9.525	Double Stage / 20mm	145.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.375</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-030-09.53x98	30 : 1	9.525	Double Stage / 20mm	98.300	15.5 to 38.8	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.375</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-12.70x145	30 : 1	12.700	Double Stage / 20mm	145.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.500</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-030-12.70x98	30 : 1	12.700	Double Stage / 20mm	98.300	15.5 to 38.8	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.500</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-12.70x100	30 : 1	12.700	Double Stage / 20mm	100.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.500</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>

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Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-030-14.00x100	30 : 1	14.000	Double Stage / 20mm	100.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.551</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-14.00x98	30 : 1	14.000	Double Stage / 20mm	98.300	15.5 to 38.8	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.551</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-14.00x145	30 : 1	14.000	Double Stage / 20mm	145.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.551</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-030-15.88x145	30 : 1	15.875	Double Stage / 20mm	145.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.625</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-030-15.88x100	30 : 1	15.875	Double Stage / 20mm	100.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.625</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-15.88x98	30 : 1	15.875	Double Stage / 20mm	98.300	15.5 to 38.8	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.625</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-16.00x100	30 : 1	16.000	Double Stage / 20mm	100.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.630</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-16.00x145	30 : 1	16.000	Double Stage / 20mm	145.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.630</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>

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		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-030-16.00x98	30 : 1	16.000	Double Stage / 20mm	98.300	15.5 to 38.8	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.630</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-19.00x98	30 : 1	19.000	Double Stage / 20mm	98.300	15.5 to 38.8	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.748</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-19.00x100	30 : 1	19.000	Double Stage / 20mm	100.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.748</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-030-19.00x145	30 : 1	19.000	Double Stage / 20mm	145.000	22.4 to 45.5	95 / 74 (841 / 655 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.748</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-050-09.53x98	50 : 1	9.525	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 79 (761 / 699 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.375</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-050-09.53x145	50 : 1	9.525	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 79 (761 / 699 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.375</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-050-12.70x145	50 : 1	12.700	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 79 (761 / 699 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.500</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-050-12.70x98	50 : 1	12.700	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 79 (761 / 699 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.500</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>

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		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-050-12.70x100	50 : 1	12.700	Double Stage / 20mm	100.000	22.4 to 45.5	86 / 79 (761 / 699 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.500</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-050-14.00x145	50 : 1	14.000	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 79 (761 / 699 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.551</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-050-14.00x98	50 : 1	14.000	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 79 (761 / 699 lb.in)	134.1 / 80.4	90.0	44.1
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		<i>0.551</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-050-15.88x98	50 : 1	15.875	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 79 (761 / 699 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.625</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-050-15.88x145	50 : 1	15.875	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 79 (761 / 699 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.625</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-050-15.88x100	50 : 1	15.875	Double Stage / 20mm	100.000	22.4 to 45.5	86 / 79 (761 / 699 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.625</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-050-16.00x98	50 : 1	16.000	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 79 (761 / 699 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.630</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>

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## Gearheads - Inline - Planetary - Size 90 - Adapted

Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-050-16.00x100	50 : 1	16.000	Double Stage / 20mm	100.000	22.4 to 45.5	86 / 79 (761 / 699 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.630</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-050-16.00x145	50 : 1	16.000	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 79 (761 / 699 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.630</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-050-19.00x100	50 : 1	19.000	Double Stage / 20mm	100.000	22.4 to 45.5	86 / 79 (761 / 699 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.748</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-050-19.00x98	50 : 1	19.000	Double Stage / 20mm	98.300	15.5 to 38.8	86 / 79 (761 / 699 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.748</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-050-19.00x145	50 : 1	19.000	Double Stage / 20mm	145.000	22.4 to 45.5	86 / 79 (761 / 699 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.748</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-100-09.53x145	100 : 1	9.525	Double Stage / 20mm	145.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.375</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-100-09.53x98	100 : 1	9.525	Double Stage / 20mm	98.300	15.5 to 38.8	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.375</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-100-12.70x100	100 : 1	12.700	Double Stage / 20mm	100.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.500</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>

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## Gearheads - Inline - Planetary - Size 90 - Adapted

Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-100-12.70x98	100 : 1	12.700	Double Stage / 20mm	98.300	15.5 to 38.8	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.500</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-100-12.70x145	100 : 1	12.700	Double Stage / 20mm	145.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.500</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-100-14.00x98	100 : 1	14.000	Double Stage / 20mm	98.300	15.5 to 38.8	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.551</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-100-14.00x145	100 : 1	14.000	Double Stage / 20mm	145.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.551</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-100-14.00x100	100 : 1	14.000	Double Stage / 20mm	100.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.551</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-100-15.88x145	100 : 1	15.875	Double Stage / 20mm	145.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.625</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-100-15.88x100	100 : 1	15.875	Double Stage / 20mm	100.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.625</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-100-15.88x98	100 : 1	15.875	Double Stage / 20mm	98.300	15.5 to 38.8	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.625</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>

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## Gearheads - Inline - Planetary - Size 90 - Adapted

Part Number	Ratio	Motor Shaft Diameter mm	Config. / Output Shaft	Bolt Circle (D) mm	Motor Shaft Length mm	Cont. Torque at 1000/4000 rpm N.m	Bracket Size (A/E) mm	Length without Bracket (L) mm	Bracket Height (B) mm
		<i>inches</i>		<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>
# GHIP90-100-16.00x100	100 : 1	16.000	Double Stage / 20mm	100.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.630</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-100-16.00x98	100 : 1	16.000	Double Stage / 20mm	98.300	15.5 to 38.8	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.630</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-100-16.00x145	100 : 1	16.000	Double Stage / 20mm	145.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.630</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-100-19.00x98	100 : 1	19.000	Double Stage / 20mm	98.300	15.5 to 38.8	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.748</i>		<i>3.870</i>				<i>3.543</i>	<i>1.736</i>
# GHIP90-100-19.00x145	100 : 1	19.000	Double Stage / 20mm	145.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	152.7 / 110.4	90.0	62.7
		<i>0.748</i>		<i>5.709</i>				<i>3.543</i>	<i>2.469</i>
# GHIP90-100-19.00x100	100 : 1	19.000	Double Stage / 20mm	100.000	22.4 to 45.5	69 / 58 (611 / 513 lb.in)	134.1 / 80.4	90.0	44.1
		<i>0.748</i>		<i>3.937</i>				<i>3.543</i>	<i>1.736</i>

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