

How to Order AH Planetary Gearboxes

AH - 020 - 005 - 03 - 120 - 190 - P - N \

Gearbox Family

AH - Helical Planetary

Frame Size

010, 020, 030

Ratio (see ratings pages)

Examples

003 = 3:1

100 = 100:1

Backlash (Ex. 03 = 3 arc minutes)

	Standard B/L	Low B/L
Single Stage	5 arc minutes	3 arc minutes
Dual Stage	6 arc minutes	4 arc minutes

Motor Flange (mm)

Size	010	020	030
Sq. Flange	70	90	120
Sq. Flange	90	120	142
Sq. Flange	105	142	180
Sq. Flange	120		

Enter motor brand and model size.

Example

AB-MPL320

Output Shaft Key Options

N = No Keyway

P = Keyway

Housing Finish

P = Painted (Onvio Orange)

N = Nickel Plated

Motor Shaft Diameter (expressed in mm)

Example

190 = 19 mm

127 = 12.7 mm



How to Order AP Planetary Gearboxes

AP - 020 - 003 - 03 - 085 - 190 - P - N \

Gearbox Family

AP - Precision Planetary

Frame Size

010, 020, 030, 040, 050

Ratio (see ratings pages)

Examples

003 = 3:1

090 = 90:1

Backlash (Ex. 03 = 3 arc minutes)

	Standard B/L	Low B/L
Single Stage	6 arc minutes	3 arc minutes
Dual Stage	8 arc minutes	5 arc minutes

Motor Flange (mm)

Size	010	020	030	040	050
Sq. Flange	65	85	115	142	190
Sq. Flange	85	115	142	190	210

Enter motor brand and model size.

Example

AB-MPL320

Output Shaft Key Options

N = No Keyway

P = Keyway

Housing Finish

P = Painted (Onvio Orange)

N = Nickel Plated

Motor Shaft Diameter (expressed in mm)

Example

190 = 19 mm

127 = 12.7 mm



How to Order AL or NEMA Planetary Gearboxes

AL - 020 - 003 - 12 - 075 - 190 - P - P \

Gearbox Family

AL - Metric round body
NE - NEMA square flange

Frame Size

AL - 005, 010, 020, 030
NE - 017, 023, 034, 042

Ratio (see ratings pages)

Examples
003 = 3:1
100 = 100:1

Backlash (Ex. 12 = 12 arc minutes)

Single Stage - 12 arc minutes
Dual Stage - 15 arc minute

Motor Flange

AL (mm)

Size	005	010	020	030
Sq. Flange	55 mm	75 mm	95 mm	120 mm
Sq. Flange	75 mm	95 mm	115 mm	142 mm

NEMA (NE)

Size	017	023	034	042
Sq. Flange	2.17 in	2.76 in	3.54 in	4.72 in

Enter motor brand and model size.

Example
AB-MPL320

Output Shaft Key Options

N = No Keyway
P = Keyway

Housing Finish

P = Painted (Onvio Orange)
N = Nickel Plated

Motor Shaft Diameter (expressed in mm)

Example
190 = 19 mm
127 = 12.7 mm



AL Series



NEMA Series

How to Order FL or PL Planetary Gearboxes

PL - 010 - 010 - 12 - 075 - 190 - P - xxx \

Gearbox Family

PL - In line Pulley Reducer
FL - Right Angle Pulley Reducer

Frame Size

005, 010, 020, 030

Ratio (see ratings pages)

Examples

003 = 3:1
010 = 10:1

Backlash (Ex. 12 = 12 arc minutes)

Single Stage - 12 arc minutes
Dual Stage - 15 arc minute

Motor Flange (mm)

Size	005	010	020	030
Sq. Flange	55	75	95	120
Sq. Flange	75	95	115	142

Enter motor brand and model size.

Example
AB-MPL320

Housing Diameter

Based on pulley diameter.
Consult factory.

Housing Finish

P = Painted (Onvio Orange)
N = Nickel Plated

Motor Shaft Diameter (expressed in mm)

Example

190 = 19 mm
127 = 12.7 mm



FL Series



PL Series

How to Order SL or RL Planetary Gearboxes

RL - 020 - 100 - 15 - 095 - 190 - P - N \

Gearbox Family

SL - 1:1 Spiral Bevel
RL - Planetary/Bevel

Frame Size

005, 010, 020, 030

Ratio (see ratings pages)

Examples

001 = 1:1
100 = 100:1

Backlash (Ex. 12 = 12 arc minutes)

Single Stage - 12 arc minutes
Dual Stage - 15 arc minute

Motor Flange (mm)

Size	005	010	020	030
Sq. Flange	55	75	95	120
Sq. Flange	75	95	115	142

Enter motor brand and model size.

Example
AB-MPL320

Output Shaft Key Options

N = No Keyway
P = Keyway

Housing Finish

P = Painted (Onvio Orange)
N = Nickel Plated

Motor Shaft Diameter (expressed in mm)

Example
190 = 19 mm
127 = 12.7 mm



SL Series



RL Series

How to Order Cycloidal Standard Series

DM - 24 - 100 - B - E - 0 - N - N - 190 \

Model

Standard - DM

Size

02, 03, 04, 05, 06, 08, 10, 12, 24,

Ratio (see ratings pages)

Examples
055 = 55:1
100 = 100:1

Finish

B = Black Oxide
N = Electroless Nickel

Threads

E = English M = Metric

Grease

0 = Standard 2 = High Temp
1 = Low Temp 3 = Food Grade

Enter motor brand and model size.

Example
AB-MPL320

Collet Shaft Diameter (motor shaft diameter)

Maximum shaft diameters

Collet Shafts	
M02	14 mm
M03	19 mm
M04	25 mm
M05	35 mm
M06	35 mm
M24	28 mm
M08	42 mm
M10	42 mm

Straight Shaft Options

N = No Keyway
P = Keyway

Input Shaft Type

N = Collet Shaft
E = English Straight Shaft
M = Metric Straight Shaft



How to Order Cycloidal High Torque and Hollow Shaft

DM - 03HT - 225 - N - E - 0 - M - N - 300 \

Model

Standard - DM

Size

02HT, 03HT, 24HT

Ratio (see ratings pages)

Examples

055 = 55:1
100 = 100:1

Finish

B = Black Oxide
N = Electroless Nickel

Threads

E = English M = Metric

Grease

0 = Standard 2 = High Temp
1 = Low Temp 3 = Food Grade

Enter motor brand and model size.

Example
AB-MPL320

Thru-hole Diameter (Ex. - 300 = 30 mm)

Thru hole max diameters
shaft diameters

M02HT	15 mm
M03HT	30 mm
M24HT	30 mm

N = No Keyway

Input Shaft Type

E = English Shaft
M = Metric Shaft

