

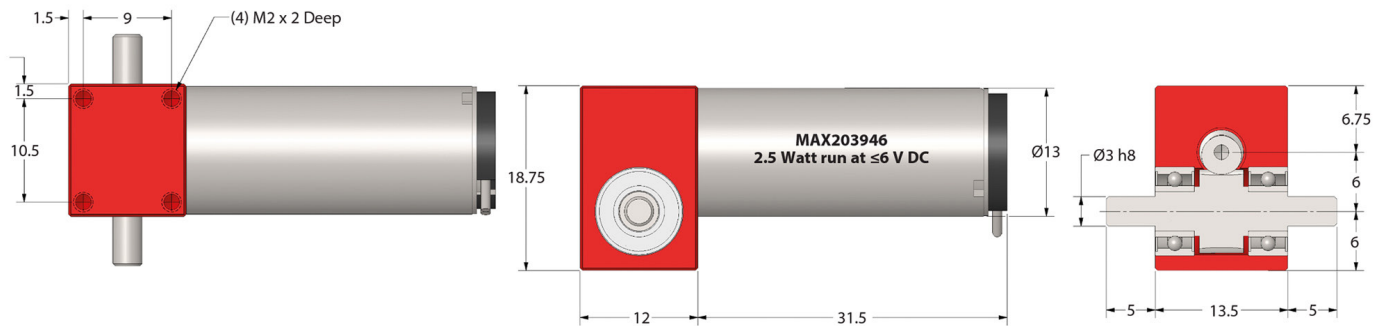
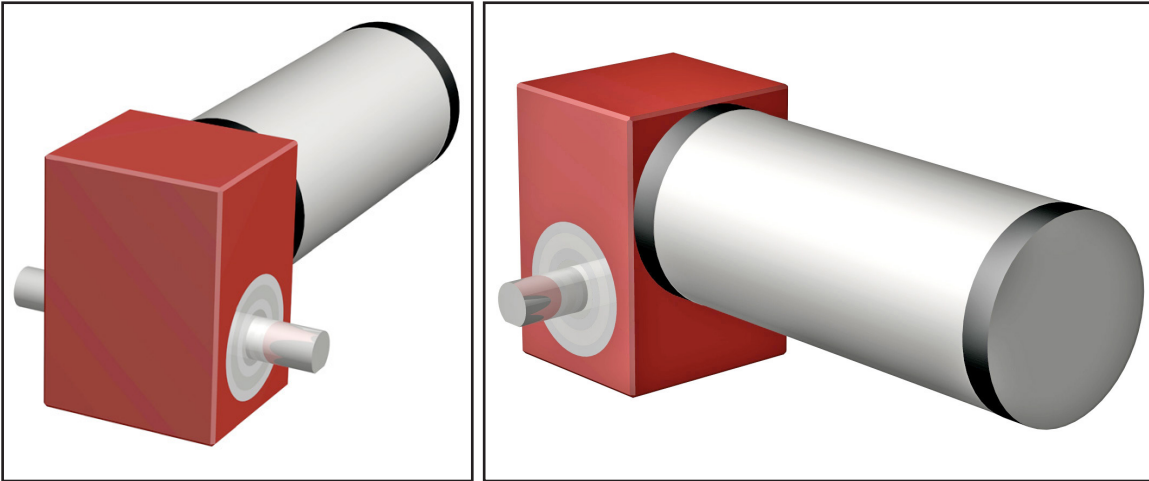
PREM6

GEARBOXES

PREM6

Miniature Precision Worm Gear Reducers

Fitted with Miniature DC Motor 0.036 Nm



Part Number	Ratio	Rated Output Torque Nm	Fitted Motor
PREM6-32-13	32:1	0.036	MAX203946

Part Number	Voltage (V)	No Load Speed (Rpm)	No Load Current (mA)	Nominal Current (mA)	Max. Efficiency Nominal Torque (mNm)	Moment of Inertia (gcm ²)	
MAX203946	12	11,100	7	272	84%	2.6	0.507

Gearbox Case: Aluminum 6082 T6.

Gears: Steel 817M40 T condition.

Motor

2 Pole Permanent Magnet Motor.

Weight: 24 g.

Ambient Temperature Range: -20°C to +65°C (Max. Motor

Temperature +85°C).

ondrives.us

☎ 1-888-260-7466

📄 516-771-6444

💻 sales@ondrivesus.com

🌐 www.ondrivesus.com

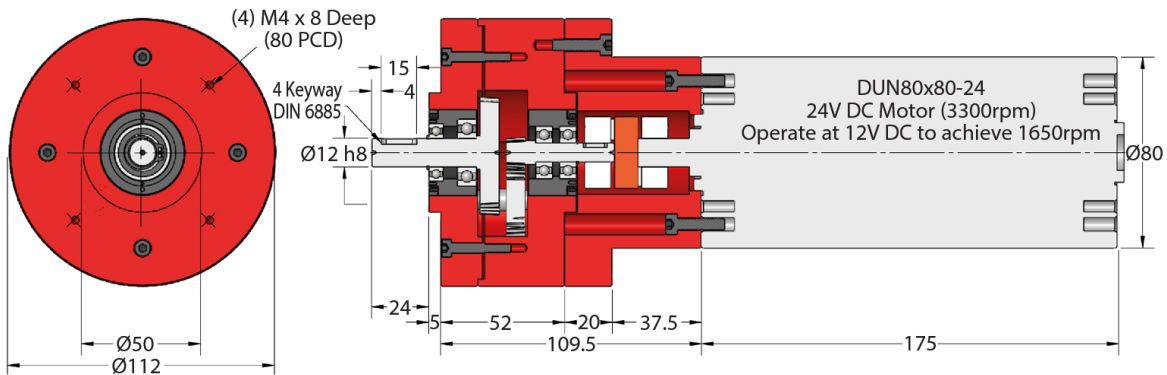
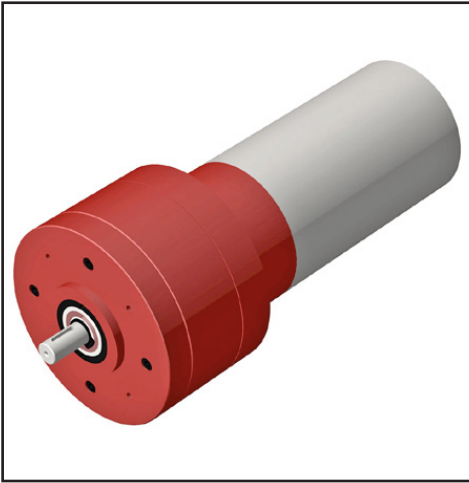
TG112-ADC

GEARBOXES

TG112-ADC

Motorised Taper Gear Reducer

With DC Motor Fitted, 1.14 – 5 Nm **2:1 - 16:1**



Part Number	Ratio	Output Torque at 1650 Rpm Input Nm	L	Direction	DC Motor
TG112-2ADC	2:1	1.14	175	Same	DUN80x80-24
TG112-4ADC	4:1	2.28	175	Same	DUN80x80-24
TG112-5ADC	5:1	2.85	175	Same	DUN80x80-24
TG112-6ADC	6:1	3.42	175	Same	DUN80x80-24
TG112-8ADC	8:1	4.56	175	Same	DUN80x80-24
TG112-10ADC	10:1	5.00	175	Same	DUN80x80-24
TG112-12ADC	12:1	5.00	175	Same	DUN80x80-24
TG112-16ADC	16:1	4.50	175	Same	DUN80x80-24

Weight: 3.5 kg.

Assembly includes:-

- 1 x Gearhead
- 1 x DC Motor
- 1 x Shaft Coupling
- 1 x Set of fixing screws for motor to plate
- 1 x Set of fixing screws for plate to gearbox
- 1 x Adaptor plate

Check motor data and gearbox chart for max. torque figures.

Testing in your applications is necessary.

You will need to assess duty cycles and confirm gearbox suitability with your own calculations. All figures listed are to be used for guidance only.

ondrives.us

1-888-260-7466

516-771-6444

sales@ondrivesus.com

www.ondrivesus.com

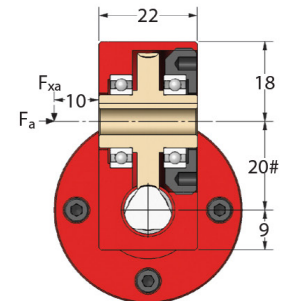
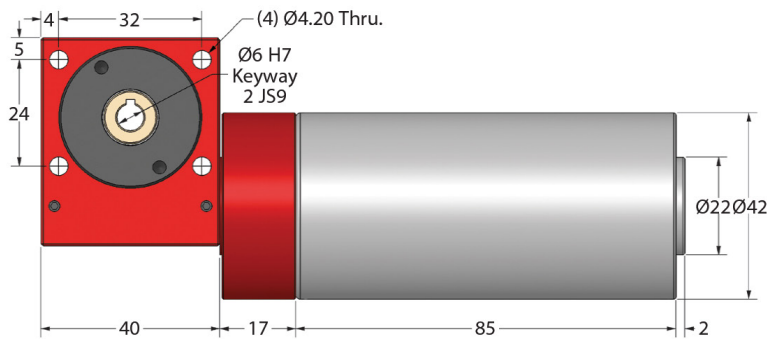
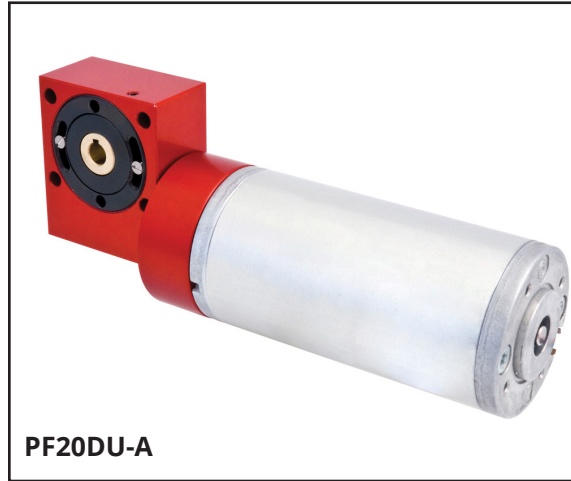
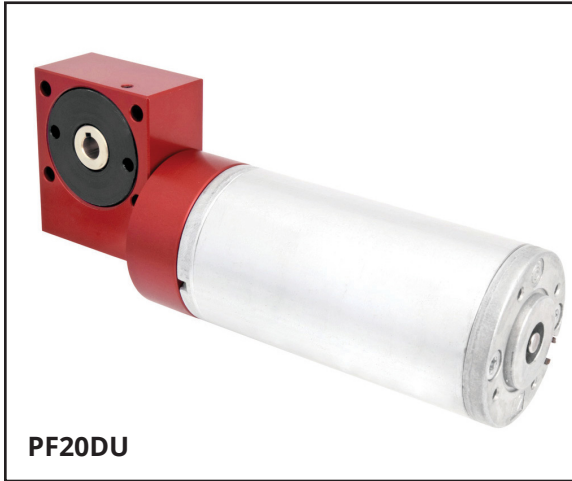
PF20DU

GEARBOXES

Precision Worm Gear Reducers

Fitted with 24V DC Motor : 0.5 - 2.1 Nm

PF20DU



PF20DUA version (low backlash) output is on eccentric so centres will vary.

Part Number		Ratio	Rpm at 12V DC	Nominal Output Rpm	Efficiency at 1000 Rpm	Nm Output at 1550 Rpm Input	DC Motor
Standard $\leq 30'$	Low Backlash $\leq 8'$						
PF20DU-10	PF20DU-10A	10:1	1,550	155.0	86%	0.50	DUN42x40-24
PF20DU-12	PF20DU-12A	12:1	1,550	129.0	85%	0.70	DUN42x40-24
PF20DU-15	PF20DU-15A	15:1	1,550	103.0	84%	0.80	DUN42x40-24
PF20DU-20	PF20DU-20A	20:1	1,550	77.5	78%	1.10	DUN42x40-24
PF20DU-30	PF20DU-30A	30:1	1,550	51.0	71%	1.70	DUN42x40-24
PF20DU-60	PF20DU-60A	60:1	1,550	25.0	60%	2.10	DUN42x40-24
PF20DU-120	PF20DU-120A	120:1	1,550	13.0	32%	1.25	DUN42x40-24
PF20DU-SP	PF20DU-SPA	5:1 - 120:1	1,550	Special Ratios: Replace SP with required ratio			DUN42x40-24

Motor Part Number	Voltage (V)	No Load Speed (Rpm)	No Load Current (A)	Nominal Current (A)	Max. Efficiency	Nominal Torque (Ncm)	Nominal Speed (Rpm)	Moment of Inertia (gcm ²)
DUN42x40-24	24	3,800	0.175	1.22	63%	5.7	3,100	110

Other input speeds available. For details of PF20 gear reducer or to purchase separately, please contact us.

24V DC Motor

Commutation: Graphite. Number of Sectors: 12. Brushes: Rotary. Magnets: Ferrite.

Axial Backlash: <0.15 mm. Radial Backlash: <0.15 mm.

Max. Axial Load: 30 N Max. Radial Load at 20mm: 60 N

Max. Shaft Push Pressure: 200 N. Operating Temperature Range: -20°C to +85°C.

Max. Housing Temperature: +85°C. Mass: 0.49 kg. Starting Voltage: 1 V.

Motor performance data is based upon an operating temperature of +25°C.

Testing in your application is necessary. You will need to assess duty cycles and confirm reducer suitability with your own calculations. All figures listed are to be used for guidance only. Tapped holes on input flange are not relative in position to the reducer body and will alter from box to box. This also applies to the motor leads. However, we can machine the tapped holes after assembly so they are relative in position to the reducer body. This will affect delivery.

ondrives.us

1-888-260-7466

516-771-6444

sales@ondrivesus.com

www.ondrivesus.com

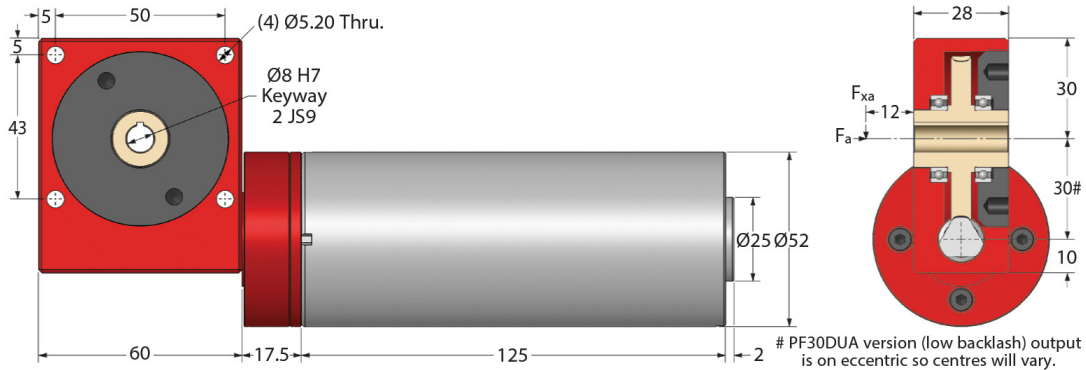
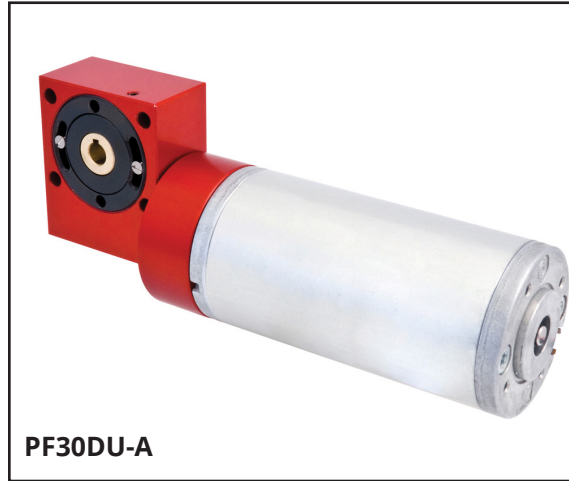
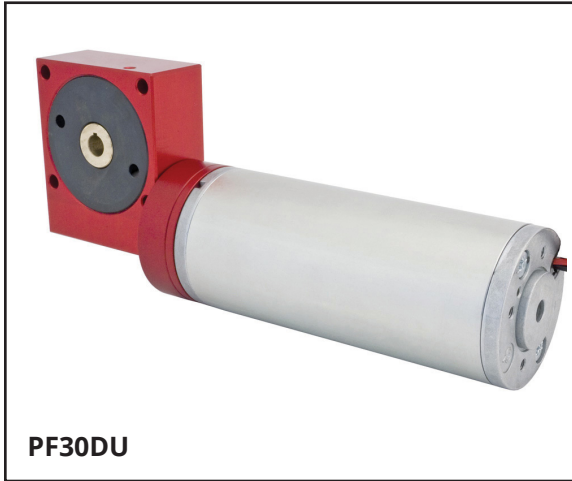
PF30DU

GEARBOXES

Precision Worm Gear Reducers

Fitted with 24V DC Motor : 1.7 - 4.5 Nm

PF30DU



Part Number		Ratio	Rpm at 12V DC	Nominal Output Rpm	Efficiency at 1000 Rpm	Nm Output at 1550 Rpm Input	DC Motor
Standard ≤30'	Low Backlash ≤8'						
PF30DU-10	PF30DU-10A	10:1	1,500	150	90%	1.7	DUN53x58-24
PF30DU-12	PF30DU-12A	12:1	1,500	125	88%	2.0	DUN53x58-24
PF30DU-15	PF30DU-15A	15:1	1,500	100	86%	2.5	DUN53x58-24
PF30DU-20	PF30DU-20A	20:1	1,500	75	84%	3.4	DUN53x58-24
PF30DU-30	PF30DU-30A	30:1	1,500	50	78%	4.0	DUN53x58-24
PF30DU-60	PF30DU-60A	60:1	1,500	25	70%	4.5	DUN53x58-24
PF30DU-120	PF30DU-120A	120:1	1,500	12	40%	4.0	DUN53x58-24
PF30DU-SP	PF30DU-SPA	5:1 - 120:1	1,500	Special Ratios: Replace SP with required ratio			DUN53x58-24

Motor Part Number	Voltage (V)	No Load Speed (Rpm)	No Load Current (A)	Nominal Current (A)	Max. Efficiency	Nominal Torque (Ncm)	Nominal Speed (Rpm)	Moment of Inertia (gcm ²)
DUN53x58-24	24	3,250	0.200	2.9	76%	17	3,000	460

Other input speeds available. For details of PF30 gear reducer or to purchase separately, please contact us.

24V DC Motor

Commutation: Graphite. Number of Sectors: 12. Brushes: Rotary. Magnets: Ferrite.
 Axial Backlash: <0.15 mm. Radial Backlash: <0.15 mm.
 Max. Axial Load: 130 N. Max. Radial Load at 20mm: 90 N.
 Max. Shaft Push Pressure: 200 N. Operating Temperature Range: -20°C to +85°C.
 Max. Housing Temperature: +85°C. Mass: 1.16 kg. Starting Voltage: 1 V.

Motor performance data is based upon an operating temperature of +25°C. Testing in your application is necessary. You will need to assess duty cycles and confirm reducer suitability with your own calculations. All figures listed are to be used for guidance only. Tapped holes on input flange are not relative in position to the reducer body and will alter from box to box. This also applies to the motor leads. However, we can machine the tapped holes after assembly so they are relative in position to the reducer body. This will affect delivery.

ondrives.us

1-888-260-7466
516-771-6444

sales@ondrivesus.com
www.ondrivesus.com

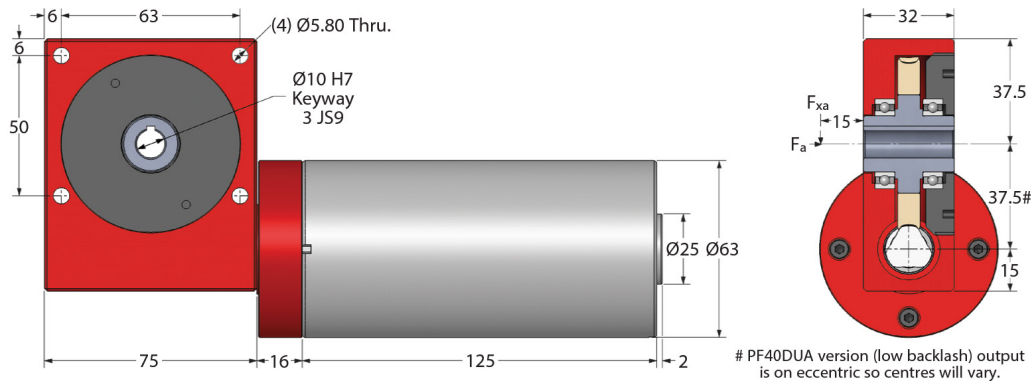
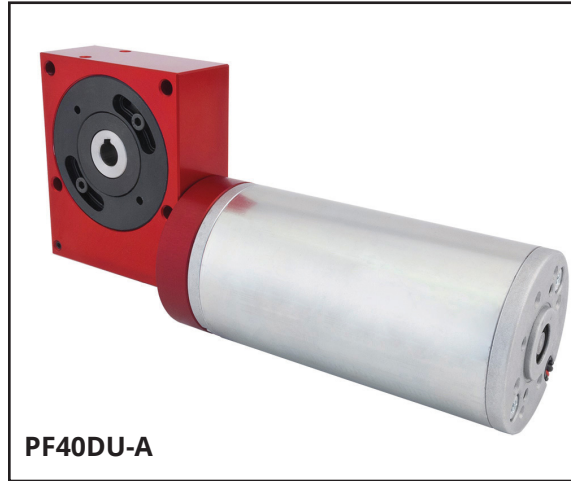
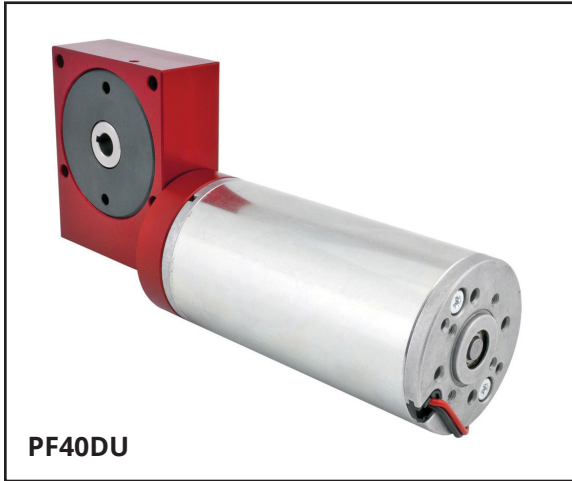
GEARBOXES

PF40DU

Precision Worm Gear Reducers

Fitted with 24V DC Motor : 2.7 - 8.5 Nm

PF40DU



Part Number		Ratio	Rpm at 12V DC	Nominal Output Rpm	Efficiency at 1000 Rpm	Nm Output at 1550 Rpm Input	DC Motor
Standard ≤30'	Low Backlash ≤8'						
PF40DU-10	PF40DU-10A	10:1	1,675	167	89%	2.7	DUN63x55-24
PF40DU-12	PF40DU-12A	12:1	1,675	140	87%	3.2	DUN63x55-24
PF40DU-15	PF40DU-15A	15:1	1,675	112	85%	4.0	DUN63x55-24
PF40DU-20	PF40DU-20A	20:1	1,675	83	83%	5.4	DUN63x55-24
PF40DU-30	PF40DU-30A	30:1	1,675	55	76%	8.0	DUN63x55-24
PF40DU-60	PF40DU-60A	60:1	1,675	28	65%	8.5	DUN63x55-24
PF40DU-120	PF40DU-120A	120:1	1,675	14	41%	7.5	DUN63x55-24
PF40DU-SP	PF40DU-SPA	5:1 - 120:1	1,675	Special Ratios: Replace SP with required ratio			DUN63x55-24

Motor Part Number	Voltage (V)	No Load Speed (Rpm)	No Load Current (A)	Nominal Current (A)	Max. Efficiency	Nominal Torque (Ncm)	Nominal Speed (Rpm)	Moment of Inertia (gcm ²)
DUN63x55-24	24	3,650	0.400	4.90	80%	27	3,350	750

Other input speeds available. For details of PF40 gear reducer or to purchase separately, please contact us.

24V DC Motor

Commutation: Graphite. Number of Sectors: 12. Brushes: Rotary. Magnets: Ferrite.
 Axial Backlash: <0.15 mm. Radial Backlash: <0.15 mm.
 Max. Axial Load: 150 N. Max. Radial Load at 20mm: 150 N.
 Max. Shaft Push Pressure: 200 N. Operating Temperature Range: -20°C to +85°C.
 Max. Housing Temperature: +85°C. Mass: 1.7 kg. Starting Voltage: 1 V.

Motor performance data is based upon an operating temperature of +25°C. Testing in your application is necessary. You will need to assess duty cycles and confirm reducer suitability with your own calculations. All figures listed are to be used for guidance only. Tapped holes on input flange are not relative in position to the reducer body and will alter from box to box. This also applies to the motor leads. However, we can machine the tapped holes after assembly so they are relative in position to the reducer body. This will affect delivery.

ondrives.us

1-888-260-7466
 516-771-6444

sales@ondrivesus.com
 www.ondrivesus.com

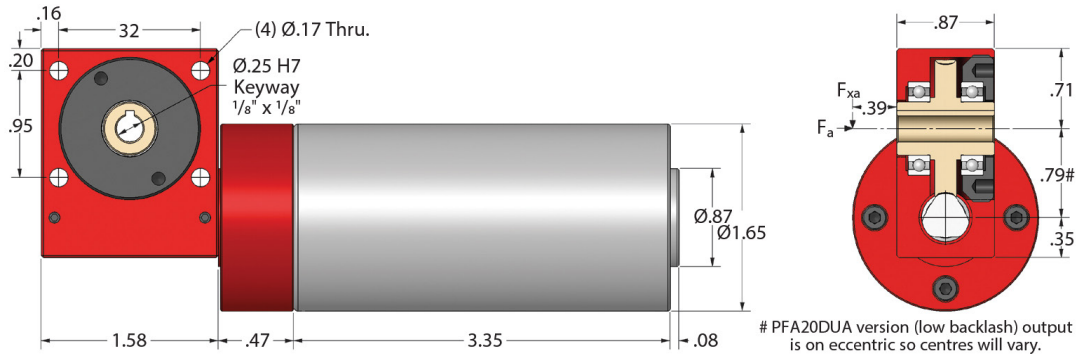
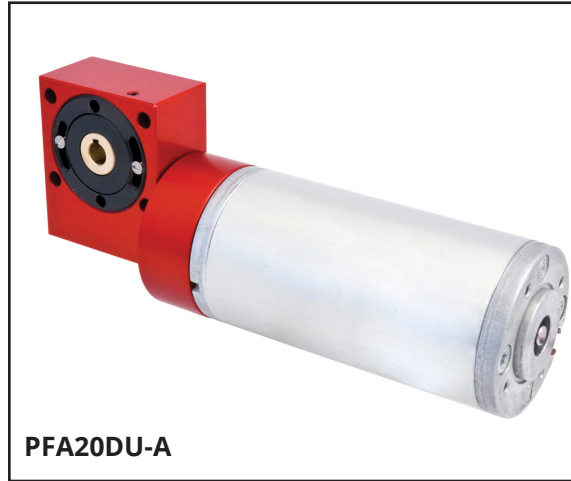
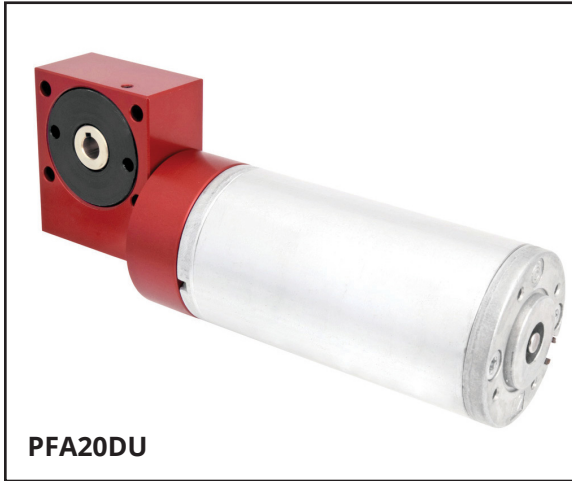
PFA20DU

GEARBOXES

PFA20DU

Precision Worm Gear Reducers

Fitted with 24V DC Motor : 4.43 - 18.59 lbf.in



Part Number		Ratio	Rpm at 12V DC	Nominal Output Rpm	Efficiency at 1000 Rpm	lbf.in Output at 1550 Rpm Input	DC Motor
Standard ≤30'	Low Backlash ≤8'						
PFA20DU-10	PFA20DU-10A	10:1	1,550	155.0	86%	4.43	DUN42x40-24
PFA20DU-12	PFA20DU-12A	12:1	1,550	129.0	85%	6.20	DUN42x40-24
PFA20DU-15	PFA20DU-15A	15:1	1,550	103.0	84%	7.08	DUN42x40-24
PFA20DU-20	PFA20DU-20A	20:1	1,550	77.5	78%	9.74	DUN42x40-24
PFA20DU-30	PFA20DU-30A	30:1	1,550	51.0	71%	15.05	DUN42x40-24
PFA20DU-60	PFA20DU-60A	60:1	1,550	25.0	60%	18.59	DUN42x40-24
PFA20DU-120	PFA20DU-120A	120:1	1,550	13.0	32%	11.06	DUN42x40-24
PFA20DU-SP	PFA20DU-SPA	5:1 - 120:1	1,550	Special Ratios: Replace SP with required ratio			DUN42x40-24

Motor Part Number	Voltage (V)	No Load Speed (Rpm)	No Load Current (A)	Nominal Current (A)	Max. Efficiency	Nominal Torque (lbf.in)	Nominal Speed (Rpm)	Moment of Inertia (lb.in ²)
DUN42x40-24	24	3,800	0.175	1.22	63%	0.5	3,100	0.038

Other input speeds available. For details of PFA20 gear reducer or to purchase separately, please contact us.

24V DC Motor

Commutation: Graphite. Number of Sectors: 12. Brushes: Rotary. Magnets: Ferrite.

Axial Backlash: <0.0059". Radial Backlash: <0.0059".

Max. Axial Load: 6.69 lbf. Max. Radial Load at .87": 13.39 lbf.

Max. Shaft Push Pressure: 44.62 lbf. Operating Temperature Range: -4°F to +185°F.

Max. Housing Temperature: +185°F. Mass: 1.08 lb. Starting Voltage: 1 V.

Motor performance data is based upon an operating temperature of +77°F.

Testing in your application is necessary. You will need to assess duty cycles and confirm reducer suitability with your own calculations. All figures listed are to be used for guidance only. Tapped holes on input flange are not relative in position to the reducer body and will alter from box to box. This also applies to the motor leads. However, we can machine the tapped holes after assembly so they are relative in position to the reducer body. This will affect delivery.

ondrives.us

1-888-260-7466

516-771-6444

sales@ondrivesus.com

www.ondrivesus.com

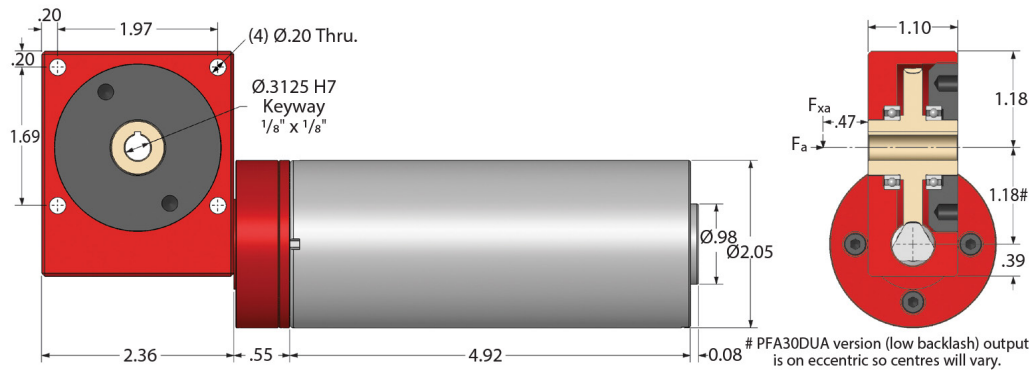
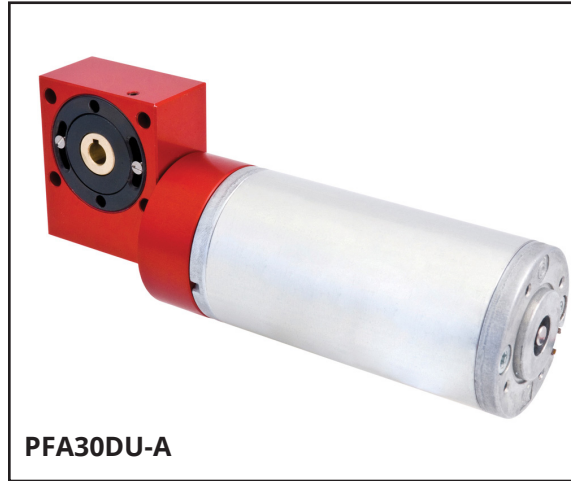
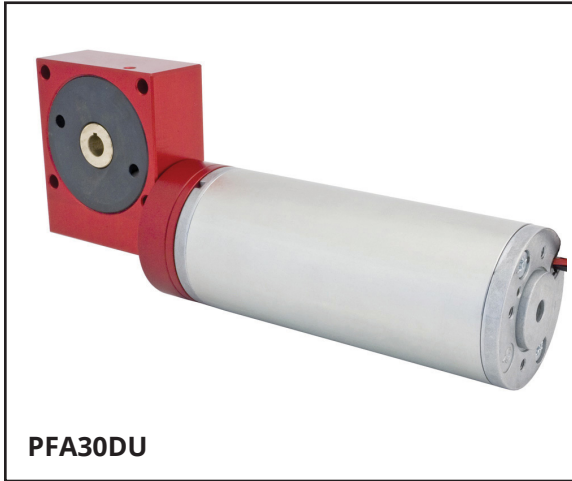
PFA30DU

GEARBOXES

PFA30DU

Precision Worm Gear Reducers

Fitted with 24V DC Motor : **15.05 - 39.83 lbf.in**



Part Number		Ratio	Rpm at 12V DC	Nominal Output Rpm	Efficiency at 1000 Rpm	lbf.in Output at 1550 Rpm Input	DC Motor
Standard ≤30'	Low Backlash ≤8'						
PFA30DU-10	PFA30DU-10A	10:1	1,500	150	90%	15.05	DUN53x58-24
PFA30DU-12	PFA30DU-12A	12:1	1,500	125	88%	17.70	DUN53x58-24
PFA30DU-15	PFA30DU-15A	15:1	1,500	100	86%	22.13	DUN53x58-24
PFA30DU-20	PFA30DU-20A	20:1	1,500	75	84%	30.09	DUN53x58-24
PFA30DU-30	PFA30DU-30A	30:1	1,500	50	78%	35.40	DUN53x58-24
PFA30DU-60	PFA30DU-60A	60:1	1,500	25	70%	39.83	DUN53x58-24
PFA30DU-120	PFA30DU-120A	120:1	1,500	12	40%	35.40	DUN53x58-24
PFA30DU-SP	PFA30DU-SPA	5:1 - 120:1	1,500	Special Ratios: Replace SP with required ratio			DUN53x58-24

Motor Part Number	Voltage (V)	No Load Speed (Rpm)	No Load Current (A)	Nominal Current (A)	Max. Efficiency	Nominal Torque (lbf.in)	Nominal Speed (Rpm)	Moment of Inertia (lb.in ²)
DUN53x58-24	24	3,250	0.200	2.9	76%	1.5	3,000	0.157

Other input speeds available. For details of PFA30 gear reducer or to purchase separately, please contact us.

24V DC Motor

Commutation: Graphite. Number of Sectors: 12. Brushes: Rotary. Magnets: Ferrite.
 Axial Backlash: <0.0059". Radial Backlash: <0.0059".
 Max. Axial Load: 29 lbf. Max. Radial Load at .87": 20 lbf.
 Max. Shaft Push Pressure: 44.62 lbf. Operating Temperature Range: -4°F to +185°F.
 Max. Housing Temperature: +185°F. Mass: 2.56 lb. Starting Voltage: 1 V.

Motor performance data is based upon an operating temperature of +77°F. Testing in your application is necessary. You will need to assess duty cycles and confirm reducer suitability with your own calculations. All figures listed are to be used for guidance only. Tapped holes on input flange are not relative in position to the reducer body and will alter from box to box. This also applies to the motor leads. However, we can machine the tapped holes after assembly so they are relative in position to the reducer body. This will affect delivery.

ondrives.us

1-888-260-7466
516-771-6444

sales@ondrivesus.com
www.ondrivesus.com

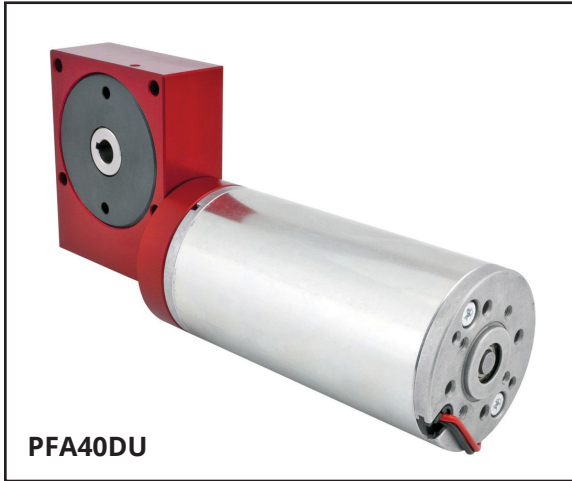
PFA40DU

GEARBOXES

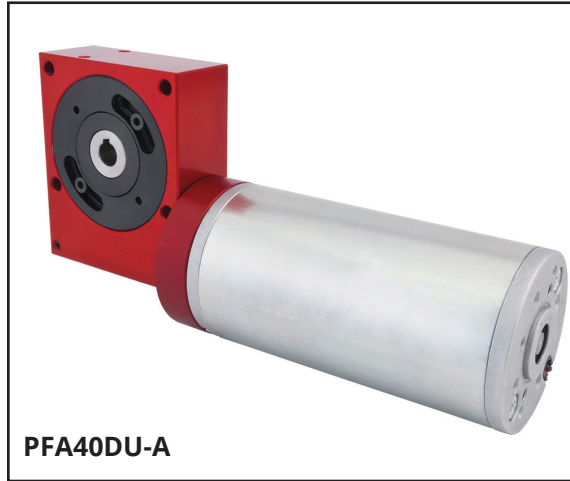
PFA40DU

Precision Worm Gear Reducers

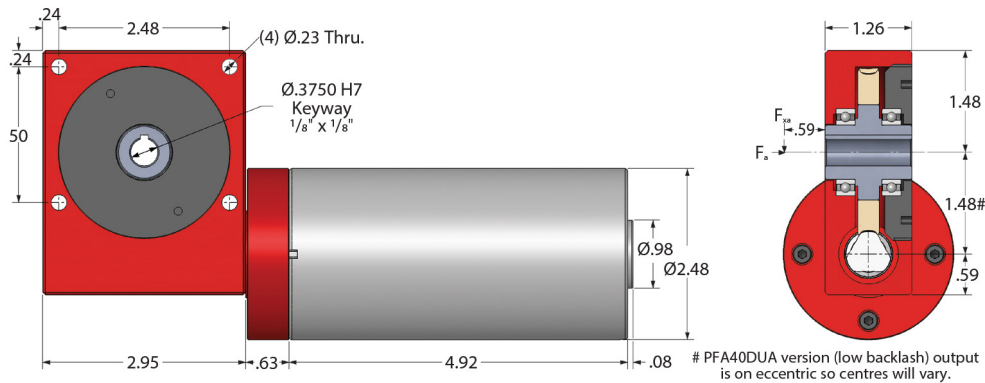
Fitted with 24V DC Motor : 23.90 - 75.23 lbf.in



PFA40DU



PFA40DU-A



Part Number		Ratio	Rpm at 12V DC	Nominal Output Rpm	Efficiency at 1000 Rpm	lbf.in Output at 1550 Rpm Input	DC Motor
Standard ≤30'	Low Backlash ≤8'						
PFA40DU-10	PFA40DU-10A	10:1	1,675	167	89%	23.90	DUN63x55-24
PFA40DU-12	PFA40DU-12A	12:1	1,675	140	87%	28.32	DUN63x55-24
PFA40DU-15	PFA40DU-15A	15:1	1,675	112	85%	35.40	DUN63x55-24
PFA40DU-20	PFA40DU-20A	20:1	1,675	83	83%	47.79	DUN63x55-24
PFA40DU-30	PFA40DU-30A	30:1	1,675	55	76%	70.81	DUN63x55-24
PFA40DU-60	PFA40DU-60A	60:1	1,675	28	65%	75.23	DUN63x55-24
PFA40DU-120	PFA40DU-120A	120:1	1,675	14	41%	66.38	DUN63x55-24
PFA40DU-SP	PFA40DU-SPA	5:1 - 120:1	1,675	Special Ratios: Replace SP with required ratio			DUN63x55-24

Motor Part Number	Voltage (V)	No Load Speed (Rpm)	No Load Current (A)	Nominal Current (A)	Max. Efficiency	Nominal Torque (lbf.in)	Nominal Speed (Rpm)	Moment of Inertia (lb.in ²)
DUN63x55-24	24	3,650	0.400	4.90	80%	2.39	3,350	0.256

Other input speeds available. For details of PFA40 gear reducer or to purchase separately, please contact us.

24V DC Motor

Commutation: Graphite. Number of Sectors: 12. Brushes: Rotary. Magnets: Ferrite.

Axial Backlash: <0.0059". Radial Backlash: <0.0059".

Max. Axial Load: 33.47 lbf. Max. Radial Load at .87": 33.47 lbf.

Max. Shaft Push Pressure: 44.62 lbf. Operating Temperature Range: -4°F to +185°F.

Max. Housing Temperature: +185°F. Mass: 3.75 lb. Starting Voltage: 1 V.

Motor performance data is based upon an operating temperature of +77°F.

Testing in your application is necessary. You will need to assess duty cycles and confirm reducer suitability with your own calculations. All figures listed are to be used for guidance only. Tapped holes on input flange are not relative in position to the reducer body and will alter from box to box. This also applies to the motor leads. However, we can machine the tapped holes after assembly so they are relative in position to the reducer body. This will affect delivery.

ondrives.us

1-888-260-7466

516-771-6444

sales@ondrivesus.com

www.ondrivesus.com