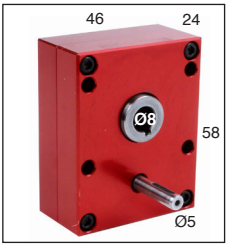
Offset spur gearbox

Stock Size XS 1 2 3 ★★★

FF10

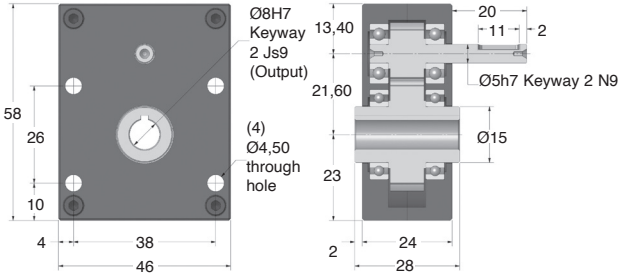
Torque up to 3.7Nm

- ***High efficiency***
- *Ratios from 2:1 to 7:1*
- *Output backlash ≤ 30' (0.5°)*
- *Max. speed: 2,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input and output: non-hardened steel
- *Weight: 0.23 kg*



Options

- *Can be modified to your specifications*



OUTPUT TORQUE (In Nm, values given as a guide only)

Ratios		2:1	3:1	4:1	5:1	6:1	7:1
INPUT SPEED (rpm)	2000	1,34	1,29	1,15	1,10	0,94	0,78
	1000	1,55	1,49	1,33	1,27	1,08	0,90
	500	1,85	1,78	1,58	1,51	1,30	1,07
	200	2,08	2,00	1,78	1,71	1,46	1,21
	100	2,44	2,35	2,09	2,00	1,71	1,42
	50	2,74	2,63	2,36	2,25	1,92	1,60
	10	3,70	3,57	3,16	3,03	2,60	2,16

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Max. input speed (rpm)	Max. output speed (rpm)	Efficiency at 1000 rpm	Stock*	Price each
FF10-2	2:1	2000	1000	93%	-	438,82 €
FF10-3	3:1	2000	666	93%	-	438,82 €
FF10-4	4:1	2000	500	93%	-	438,82 €
FF10-5	5:1	2000	400	93%	✔	438,82 €
FF10-6	6:1	2000	333	93%	-	438,82 €
FF10-7	7:1	2000	285	93%	-	438,82 €
FF10-XH	2:1 - 7:1	**(With hardened gears = torque x 2)**			-	892,06 €

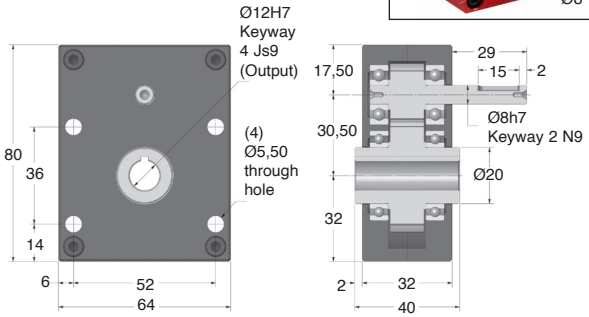
**Depending on availability - Dimensions in mm*

- ***High efficiency***
- *Ratios from 2:1 to 7:1*
- *Output backlash ≤ 30' (0.5°)*
- *Max. speed: 2,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input and output: non-hardened steel
- *Weight: 0.55 kg*



Options

- *Can be modified to your specifications*



OUTPUT TORQUE (In Nm, values given as a guide only)

Ratios		2:1	3:1	4:1	5:1	6:1	7:1
INPUT SPEED (rpm)	2000	3,70	3,50	3,20	2,90	2,60	2,20
	1000	4,30	4,00	3,70	3,40	3,10	2,60
	500	5,00	4,80	4,40	4,00	3,60	3,00
	200	5,70	5,50	5,00	4,40	3,90	3,20
	100	6,70	6,50	5,90	5,10	4,50	3,70
	50	7,50	7,20	6,50	5,70	5,00	4,00
	10	10,00	9,80	9,00	8,00	7,30	6,10

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Max. input speed (rpm)	Max. output speed (rpm)	Efficiency at 1000 rpm	Stock*	Price each
FF15-2	2:1	2000	1000	93%	✔	536,60 €
FF15-3	3:1	2000	666	93%	-	536,60 €
FF15-4	4:1	2000	500	93%	-	536,60 €
FF15-5	5:1	2000	400	93%	✔	536,60 €
FF15-6	6:1	2000	333	93%	-	536,60 €
FF15-7	7:1	2000	285	93%	✔	536,60 €
FF15-XH	2:1 - 7:1	**(With hardened gears = torque x 2)**			-	1 110,37 €

**Depending on availability - Dimensions in mm*

Offset spur gearbox

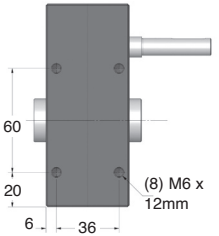
FF20

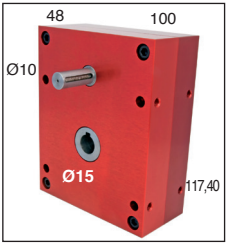
Torque up to 23Nm

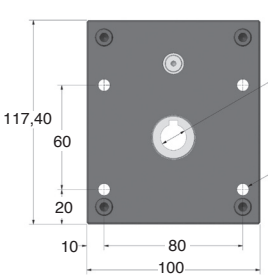
- ***High efficiency***
- *Ratios from 2:1 to 7:1*
- *Output backlash ≤ 30' (0.5°)*
- *Max. speed: 2,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input & output:
  non-hardened steel
- *Weight: 1.90 kg*

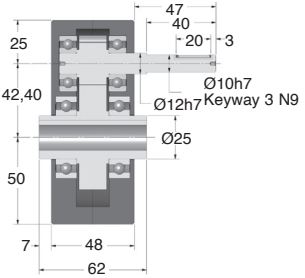
Options

- *Can be modified to your specifications*









OUTPUT TORQUE (In Nm, values given as a guide only)

Ratios		2:1	3:1	4:1	5:1	6:1	7:1
INPUT SPEED (rpm)	2000	9,20	7,70	8,00	6,90	6,60	5,80
	1000	10,80	10,20	9,50	8,20	7,80	6,90
	500	12,50	11,80	11,00	9,60	9,00	8,20
	200	15,00	14,20	13,10	11,50	10,80	9,80
	100	16,70	15,70	14,60	12,80	12,00	10,90
	50	19,20	18,10	16,80	14,50	13,80	12,50
	10	23,00	21,60	20,00	17,50	16,50	15,00

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

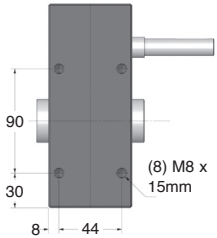
Part number	Ratio	Max. input speed (rpm)	Max. output speed (rpm)	Efficiency at 1000 rpm	Stock*	Price each
FF20-2	2:1	2000	1000	93%	-	816,21 €
FF20-3	3:1	2000	666	93%	-	816,21 €
FF20-4	4:1	2000	500	93%	✔	816,21 €
FF20-5	5:1	2000	400	93%	-	816,21 €
FF20-6	6:1	2000	333	93%	-	816,21 €
FF20-7	7:1	2000	285	93%	✔	816,21 €
FF20-XH	2:1 - 7:1	**(With hardened gears = torque x 2)**			-	1 568,10 €

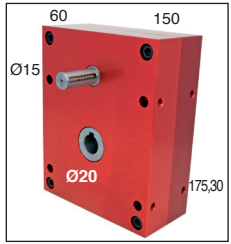
**Depending on availability - Dimensions in mm*

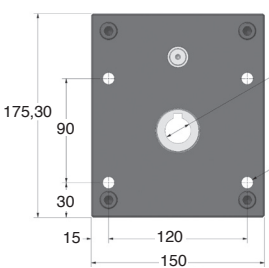
- ***High efficiency***
- *Ratios from 2:1 to 7:1*
- *Output backlash ≤ 30' (0.5°)*
- *Max. speed: 2,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input & output:
  non-hardened steel
- *Weight: 5.50 kg*

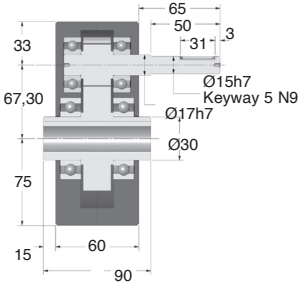
Options

- *Can be modified to your specifications*









OUTPUT TORQUE (In Nm, values given as a guide only)

Ratios		2:1	3:1	4:1	5:1	6:1	7:1
INPUT SPEED (rpm)	2000	33,20	29,10	25,20	24,30	23,90	21,50
	1000	39,10	34,40	29,80	28,70	27,30	25,10
	500	45,20	39,70	34,40	33,10	31,60	28,80
	200	54,30	47,60	41,30	39,70	38,20	34,00
	100	60,40	52,90	45,90	44,20	43,40	39,10
	50	69,00	60,08	43,00	50,80	49,30	45,20
	10	83,00	72,70	63,00	60,70	59,20	54,40

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Max. input speed (rpm)	Max. output speed (rpm)	Efficiency at 1000 rpm	Stock*	Price each
FF30-2	2:1	2000	1000	93%	-	1 091,21 €
FF30-3	3:1	2000	666	93%	-	1 091,21 €
FF30-4	4:1	2000	500	93%	✔	1 091,21 €
FF30-5	5:1	2000	400	93%	-	1 091,21 €
FF30-6	6:1	2000	333	93%	-	1 091,21 €
FF30-7	7:1	2000	285	93%	✔	1 091,21 €
FF30-XH	2:1 - 7:1	**(With hardened gears = torque x 2)**			-	1 955,32 €

**Depending on availability - Dimensions in mm*

Offset spur gearbox

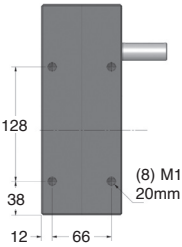
FF40

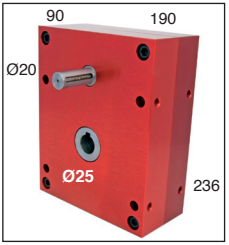
Torque up to 210Nm

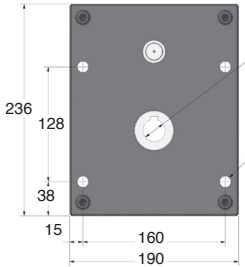
- ***High efficiency***
- *Ratios from 2:1 to 7:1*
- *Output backlash ≤ 30' (0.5°)*
- *Max. speed: 2000 rpm*
- *Materials:*
  casing: anodised aluminium
  input & output:
  non-hardened steel

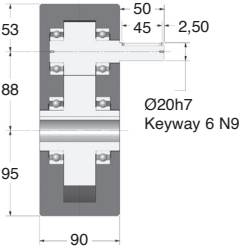
Options

- *Can be modified to your specifications*









OUTPUT TORQUE (In Nm, values given as a guide only)

Ratios		2:1	3:1	4:1	5:1	6:1	7:1
INPUT SPEED (rpm)	2000	83	83	76	70	61	59
	1000	90	90	82	76	66	64
	500	103	102	95	87	76	73
	200	120	120	110	102	89	86
	100	138	135	126	116	101	98
	50	156	155	146	136	117	113
	10	210	210	196	180	158	152

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

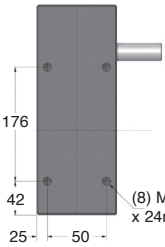
Part number	Ratio	Max. input speed (rpm)	Max. output speed (rpm)	Efficiency at 1000 t/min	Price each
FF40-2	2:1	2000	1000	93%	1 919,06 €
FF40-3	3:1	2000	666	93%	1 919,06 €
FF40-4	4:1	2000	500	93%	1 919,06 €
FF40-5	5:1	2000	400	93%	1 919,06 €
FF40-6	6:1	2000	333	93%	1 919,06 €
FF40-7	7:1	2000	285	93%	1 919,06 €
FF40-XH	2:1 - 7:1	**(With hardened gears = torque x 2)**			2 886,03 €

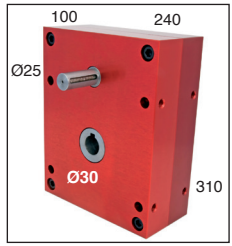
**Depending on availability - Dimensions in mm*

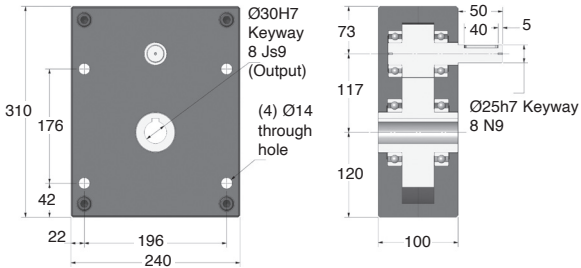
- ***High efficiency***
- *Ratios from 2:1 to 7:1*
- *Output backlash ≤ 30' (0.5°)*
- *Max. speed: 2000 rpm*
- *Materials:*
  casing: anodised aluminium
  input & output:
  non-hardened steel
- *Weight: 26.59 kg*

Options

- *Can be modified to your specifications*







OUTPUT TORQUE (In Nm, values given as a guide only)

Ratios	2:1	3:1	4:1	5:1	6:1	7:1
2000	166	156	147	138	120	111
1000	180	168	160	149	130	120
INPUT 500	207	194	183	172	150	139
SPEED 200	242	226	214	200	175	162
(rpm) 100	276	260	245	220	200	185
50	318	300	282	264	230	212
10	425	400	380	356	310	286

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Max. input speed (rpm)	Max. output speed (rpm)	Efficiency at 1000 rpm	Price each
FF50-2	2:1	2000	1000	93%	2 940,76 €
FF50-3	3:1	2000	666	93%	2 940,76 €
FF50-4	4:1	2000	500	93%	2 940,76 €
FF50-5	5:1	2000	400	93%	2 940,76 €
FF50-6	6:1	2000	333	93%	2 940,76 €
FF50-7	7:1	2000	285	93%	2 940,76 €
FF50-XH	2:1 - 7:1	**(With hardened gears = torque x 2)**			3 707,87 €

**Depending on availability - Dimensions in mm*

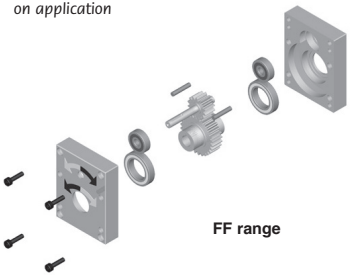
Offset spur gearboxes

FF

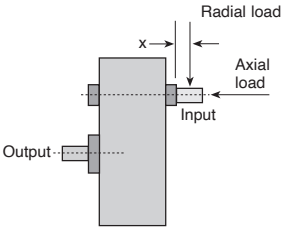
Technical information

- ***Speed ratio: from 2:1 to 7:1***
- *Materials :*
  housing anodised aluminium
  steel
- *Gears in steel*
- *Max. speed: 2,000 rpm on input*
- *Backlash: ≤ 30' (0.5°) on output*
- *Lubrification: greased for life*
  (Shell Gadus S5V42P 2.5 grease)
- *Guarantee: 13 months*
- *Tolerances : ground shafts h7, Ra 0.8*
- *Lubrication temperature :*
  max operating 60°C
- *Cooling may be needed dependent on application*





FF range



ADMISSIBLE LOADS

Part number	Distance 'X' (mm)	Input Radial load (N)	Output Radial load (N)	Axial load (N)
FF10	8	20	100	100
FF15	10	60	200	200
FF20	15	160	400	300
FF30	20	200	600	400
FF40	30	300	800	500
FF50	40	400	1000	600

Data given based on input speed of 1000 rpm.
Values given as an indication only.