

# Worm and wheel gearbox

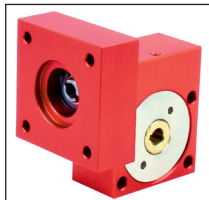


## PF20NM

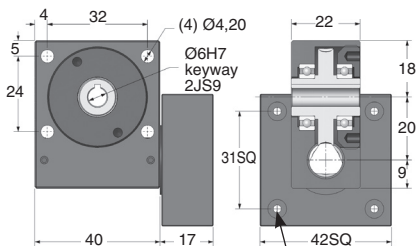
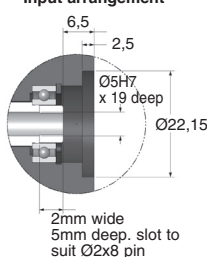
## Torque up to 5Nm

**NEMA 17  
square flange**

- Ratios from 5:1 to 120:1
- Output backlash  $\leq 0^{\circ}30'$
- Max. input speed: 3000 rpm
- Materials:
  - Casing: anodised aluminium
  - Input: non-hardened steel
  - Output: Bronze
  - Stainless steel cap
- Weight: 0,23 kg



### Input arrangement



### OUTPUT TORQUE (Nm values given as a guide only)

Ratios	10:1	12:1	15:1	20:1	30:1	60:1	120:1
3000	1,40	1,50	1,60	1,70	1,90	2,10	1,25
2000	1,70	1,70	1,80	1,80	2,10	2,40	1,42
1000	2,10	2,30	2,30	2,50	2,70	2,90	1,70
500	2,70	2,70	2,80	2,90	3,20	3,50	1,94
200	3,40	3,50	3,50	3,70	3,90	4,10	2,27
100	3,90	3,90	4,10	4,20	4,30	4,50	2,55
50	4,40	4,50	4,50	4,60	4,70	4,80	2,72
10	4,80	4,80	4,90	4,90	5,00	5,00	2,72

### DISCOUNTS

Qty	1+	3+	6+	10+
Disc.	List -10%	-15%	On request	

Part number	Ratio	Reflected Inertia at Input (kg.m <sup>2</sup> )	Efficiency at 1000 rpm	Self-locking output	Price each 1 to 2
PF20-10NM	10:1	$2,53 \times 10^{-7}$	86%	NO	306,03 €
PF20-12NM	12:1	$2,43 \times 10^{-7}$	85%	NO	306,03 €
PF20-15NM	15:1	$2,35 \times 10^{-7}$	84%	NO	306,03 €
PF20-20NM	20:1	$2,28 \times 10^{-7}$	78%	NO	306,03 €
PF20-30NM	30:1	$2,24 \times 10^{-7}$	71%	NO	306,03 €
PF20-60NM	60:1	$2,21 \times 10^{-7}$	60%	YES	306,03 €
PF20-120NM	120:1	$2,00 \times 10^{-7}$	32%	YES	306,03 €
PF20-SPNM	5:1 - 120:1	Special ratios from 5:1 to 120:1 or left handed			On request
PF20-ANM		Reduced output backlash $\leq 0^{\circ}8'$			On request

Dimensions in mm