

FFS50

# ondrives

Precision Gears



## 117mm Centres Parallel Offset Gear Reducers

20mm Input Bore 30mm Output Bore •  $T_{2n}$  147Nm – 850Nm **2:1 - 7:1**

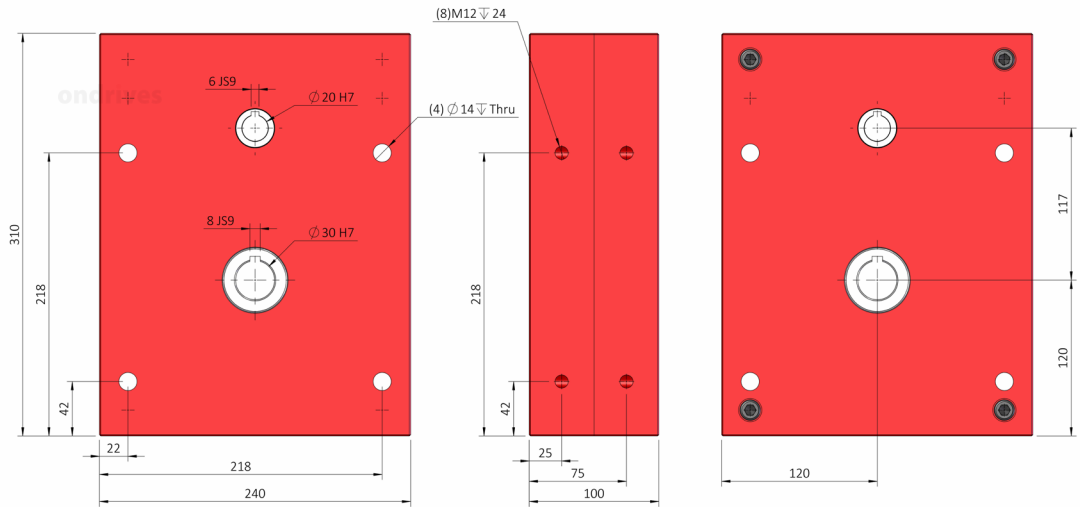
**Spur - Helical Gears.**

**Standard Versions - Standard Torque**

Steel Gears, will give you good levels of strength and torque in use.

**XH Versions - High Torque**

Hardened Gears, will give you high levels of strength and torque in use.



Output Backlash j	Part Numbers	Output Backlash j AR	Gear Ratio i	Efficiency $\eta_z$	Torque Version
$\leq 0.50^\circ$		$\leq 0.16^\circ$		<b>n1nom</b>	
FF50-2-20	FF50-2A-20	FF50-2AR-20	2:1	93%	Std
FF50-3-20	FF50-3A-20	FF50-3AR-20	3:1	93%	Std
FF50-4-20	FF50-4A-20	FF50-4AR-20	4:1	93%	Std
FF50-5-20	FF50-5A-20	FF50-5AR-20	5:1	93%	Std
FF50-6-20	FF50-6A-20	FF50-6AR-20	6:1	93%	Std
FF50-7-20	FF50-7A-20	FF50-7AR-20	7:1	93%	Std
FF50-XH-2-20	FF50-XH-2A-20	FF50-XH-2A-20	2:1	93%	High
FF50-XH-3-20	FF50-XH-3A-20	FF50-XH-3A-20	3:1	93%	High
FF50-XH-4-20	FF50-XH-4A-20	FF50-XH-4A-20	4:1	93%	High
FF50-XH-5-20	FF50-XH-5A-20	FF50-XH-5A-20	5:1	93%	High
FF50-XH-6-20	FF50-XH-6A-20	FF50-XH-6A-20	6:1	93%	High
FF50-XH-7-20	FF50-XH-7A-20	FF50-XH-7A-20	7:1	93%	High

**Weight:** 26.3kg.

**Nom. Input Speed [S5  $T_{2n}$ ] n1nom:** 1,000  $\text{min}^{-1}$  (r/min)

**Max. Input Speed n1max:** 2,000  $\text{min}^{-1}$  (r/min)

**Lubrication:** Grease Shell Gadus S5 V42P 2.5

**Lubrication Temperature:** Max. Operating  $\approx 60^\circ\text{C}$

**Max. Input Radial Load  $F_{r1}$ :** 400N.

**Max. Output Radial Load  $F_{r2}$ :** 1000N.

**Max. Output Axial Load  $F_{a2}$ :** 600N.

Testing in your application is necessary.

You will need to assess duty cycles and confirm suitability with your own calculations.

Figures listed are for guidance only.

Cooling may be needed dependent on application.

**ondrives**  
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Updated January 2024 subject to change for use as a guide only.

Parallel Offset Gear Reducers

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FF50 FFS50 2:1 - 7:1 Series Parallel Offset Gearboxes

