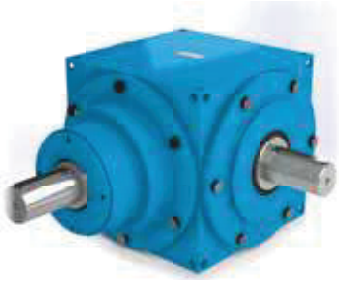
Size 500

RA Model



RM Model

RB Model

RX Model

RC Model

RS Model

Materials

	Material	Normative	Specs	Indications
Hollow shaft / Solid shaft	C45	EN 10083-2:2006	Carbon steel	
Hub shaft	C45	EN 10083-2:2006	Carbon steel	
Carter	S235 J0	EN 10025-2:2005	Welded carbon steel	Completely machined on 6 faces
Bevel gears	17NiCrMo 6-4	EN 10084:2008	Casehardening alloy steel	Ground bores and planes. Gleason gears run by pair.
Lubricant	Unimec Atir SH150		Synthetic oil	28 lt

General features

Efficiency	90 %
Gear backlash	15' - 20'
Forced lubrication speed	300 rpm
Grease lubrication speed	100 rpm
Operating temperature	-10 °C / 80 °C

Hollow shaft maximum moment	54000 Nm (RA - RB - RC)
Solid shaft maximum moment	54000 Nm (RM - RS)
Max input speed	500 rpm
Main Gearbox Weight	1050 kg
Standard Working Conditions	25 °C - regular working - 10.000 hours of expected life

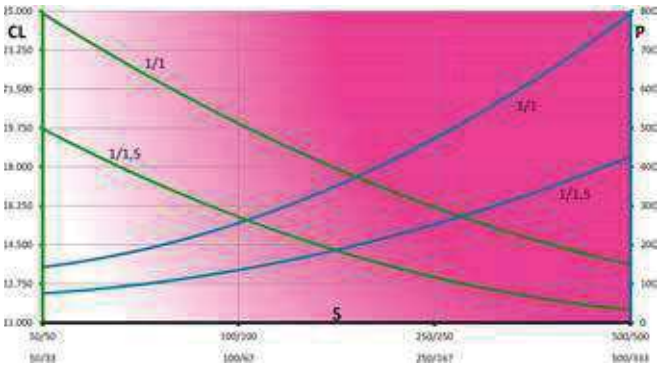
Specific features

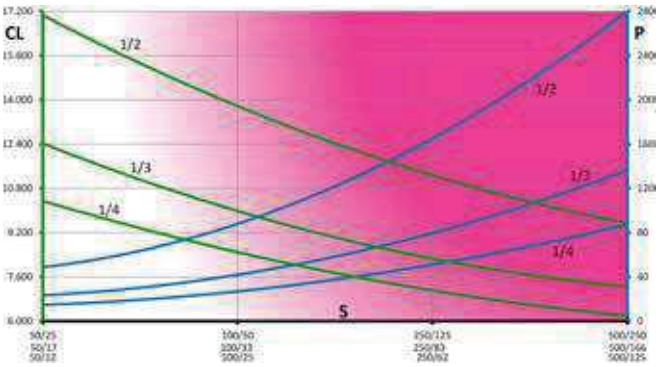
	Nominal Ratios				
	1/1	**1/1,5**	**1/2**	**1/3**	**1/4**
Phase between keys	+/- 4°	+/- 4°	+/- 4°	+/- 3,5°	+/- 3,5°
Inertia moment	1,7372 kg-m^2	0,602 kg-m^2	0,32 kg-m^2	0,142 kg-m^2	81000 kg-mm^2

Power curves

La zona magenta indica un potenziale rischio di accumulo di calore.
I cicli di lavoro devono essere analizzati con cura.

S = Rotational speed of the fast/slow shaft [rpm]
CL = Slow shaft torque [Nm]
P = requested input power [kW]

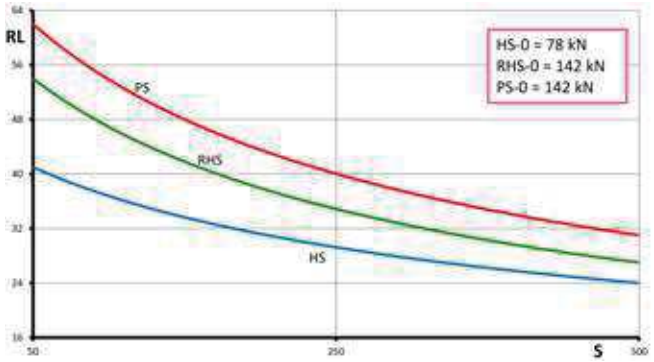


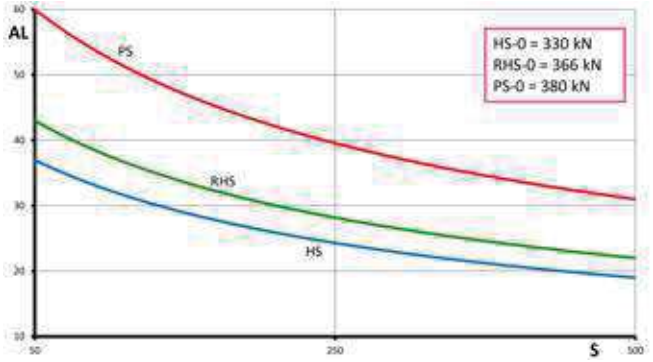


Max admissible loads

S = Fast shaft rotational speed [rpm]
RL = Admissible radial load [kN]
AL = Admissible axial load [kN]
HS = Hub shaft

RHS = reinforced hub shaft
PS = Solid protruding shaft
HS-0 = Hub shaft static load [kN]
PS-0 = solid shaft static load [kN]





Construction Forms (1/1)

Form C1

Form C3

Form S1

Form S3

Form S4

Form S31

Construction Forms (1/1,5 1/2 1/3 1/4)

Form C2

Form C4

Form S2

Form S9

Form S10

Form S32