

Spindle and table drive

GM | RAM | MSD | MSR

Spindle and table drive

GM | RAM | MSD | MSR









GM

MSD

MSR

All-in-one two-speed spindle motors

Built-in two-speed spindle drive

Off-line two speed gearbox

Turnkey Turntable Drive solution

integration, high-torque and highspeed in a record diameter, large hollow shaft for easy integration, and thermal stability.

Optimized for performance and The RAM 2speed gearboxes reliability, GM exclusive design have been designed to extend offers complete mechatronics the constant power range of the machine tool spindle drive motors. This two-speed gearbox is integrated water-cooled motor and spindle matches the latest spindle drive motor technology.

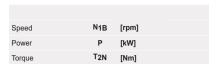
Conventional Spindle Drive Milling or turning spindle gearbox, versatile interfaces for any spindle arrangement with high torque capacity, MSD provides a perfect solution for inside the RAM. this compact, light- air cooled spindle motor with a weight design in-line between a particular high radial load capacity killing solution for OEMs. for belts input and output.

Original machine-tool sub assembly. MSR is the natural choice for the new generation of VTL and turntable combining continuous turning and C-axis functions, MSR offers design and assembly cost









Gear 1:1		Gea	r 5:1
1500	12000	300	2400
25.6	25.6	24.8	24.8
163	20	790	99



S6 - 40%

					Gea	r 1:1	Gea	r 5:1
Speed	N ₁ B	[rpm]			1500	12000	300	2400
Power	Р	[kW]			35.6	35.6	34.5	34.5
Torque	T ₂ N	[Nm]			227	28	1100	137

Technical Features

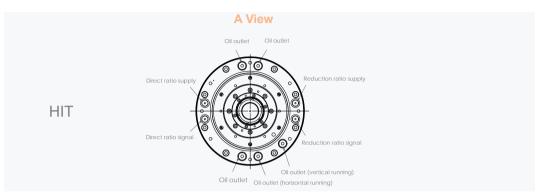
Mounting position		Vertical, horizontal and Swiveling
Control		Siemens/Fanuc/Heidenhain
Interface		Internal splines
Cooling/Flow rate	[l/mn]	25
Cooling/Loss power	[kW]	0.77
Bearings lubrification		Grease
Lubrification/Flow rate	[l/mn]	1.5
Lubrification/Loss power	[kW]	0.46
Speed shifting/Pressure	[bar]	50 to 100
Speed shifting/Flow rate	[l/mn]	5 to 7

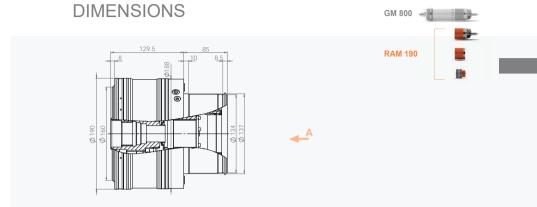
RAM design for external forced lubrication

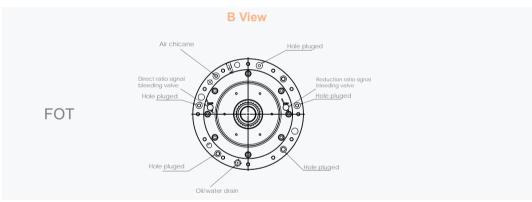
Gearbox only	HIT	
Gearbox + Cooling Jacket	FOT	
Gearbox + Cooling Jacket + output shaft arrangement	FOA	

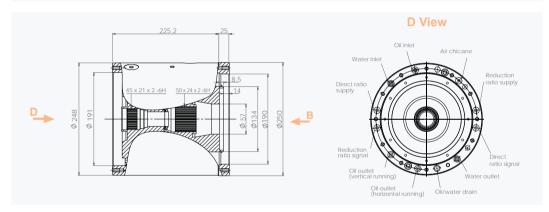
REDEX The Machine Drives Company

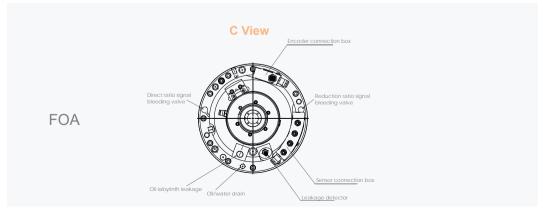
DIMENSIONS

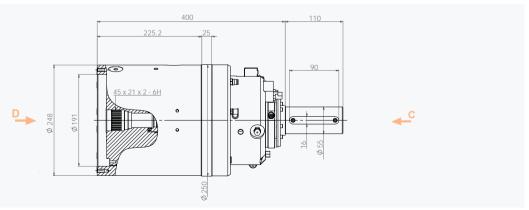






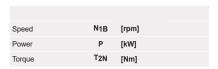


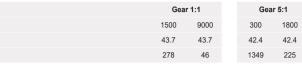














S6 - 40%

Speed	N ₁ B	[rpm]
Power	Р	[kW]
Torque	T2N	[Nm]

Gear 1:1			Gear 5:1
1500	9000	30	0 1800
60.9	60.9	59.	1 59.1
388	65	188	313

Technical Features

Mounting position	
Control	
Interface	
Cooling/Flow rate	[l/mn]
Cooling/Loss power	[kW]
Bearings lubrification	
Lubrification/Flow rate	[l/mn]
Lubrification/Loss power	[kW]
Speed shifting/Pressure	[bar]
Speed shifting/Flow rate	[l/mn]

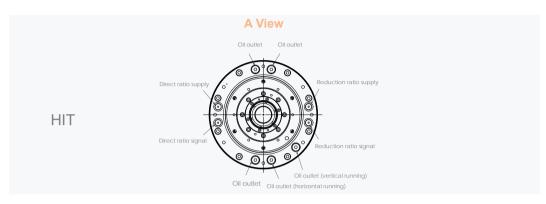
Vertical, horizontal and Swiveling
Siemens/Fanuc/Heidenhain
Internal splines
35
1.31
Grease
2
0.61
50 to 100
5 to 7

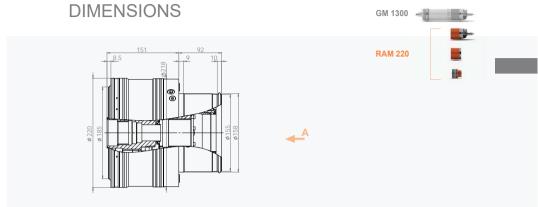
RAM design for external forced lubrication

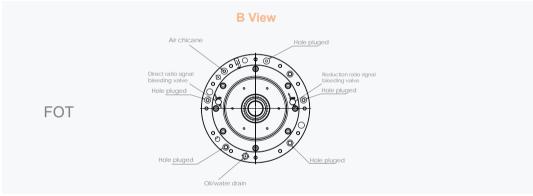
	IIICHACC	
Gearbox only	НІТ	
Gearbox + Cooling Jacket	FOT	
Gearbox + Cooling Jacket + output shaft arrangement	FOA	

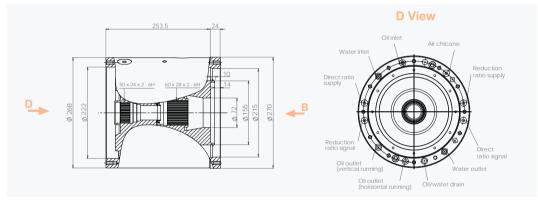


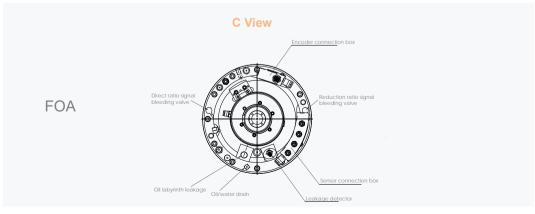
DIMENSIONS

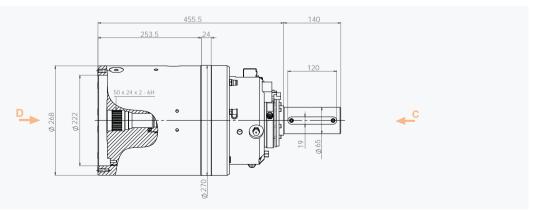








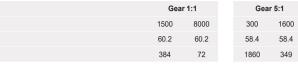














S6 - 40%

Speed	N ₁ B	[rpm]	
Power	Р	[kW]	
Torque	T ₂ N	[Nm]	

Gear	Gear 1:1		Gea	r 5:1
1500	8000		300	1600
83.6	83.6		81	81
532	100		2580	484

Technical Features

Control	
Interface	
Cooling/Flow rate	[l/mn]
Cooling/Loss power	[kW]
Bearings lubrification	
Lubrification/Flow rate	[l/mn]
Lubrification/Loss power	[kW]
Speed shifting/Pressure	[bar]
Speed shifting/Flow rate	[l/mn]

Siemens/Fanuc/Heidenhain
Internal splines
40
1.81
Grease
2.5
0.77
50 to 100
8 to 10

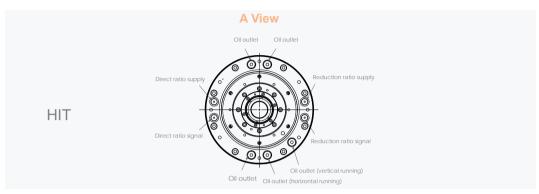
RAM design for external forced lubrication

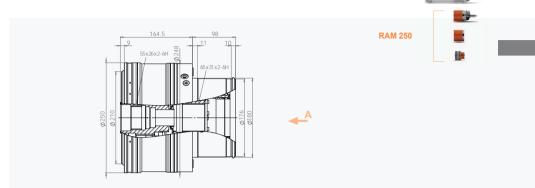
Gearbox only	НІТ	
Gearbox + Cooling Jacket	FOT	
Gearbox + Cooling Jacket + output shaft arrangement	FOA	

REDEX The Machine Drives Company

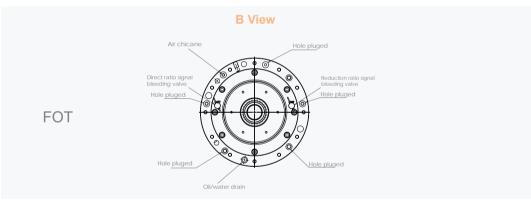
GM 2000 -

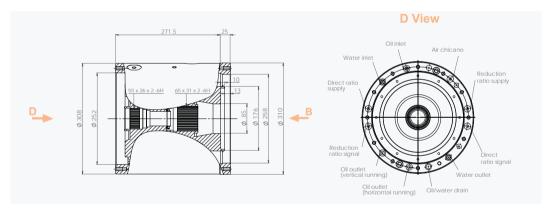
DIMENSIONS

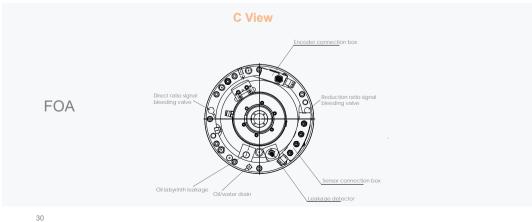


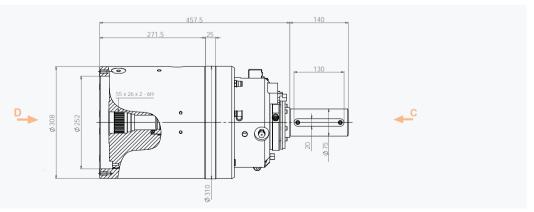


DIMENSIONS













Speed	N1B	[rpm]	
Power	Р	[kW]	
Torque	T2N	[Nm]	

Gear 1:1		C	ear 5:1
1500	7000	300	1400
97.1	97.1	94.2	94.2
619	133	3000	643



S6 - 40%

			Gear	1:1	Gear	r 5:1
Speed	N ₁ B	[rpm]	1500	7000	300	1400
Power	Р	[kW]	145.7	145.7	141.3	141.3
orque	T ₂ N	[Nm]	928	199	4500	964

Technical Features

	Vertical and horizontal
	Siemens/Fanuc/Heidenhain
	Internal splines
[l/mn]	40
[kW]	2.91
	Grease
[l/mn]	3
[kW]	0.92
[bar]	50 to 100
[l/mn]	8 to 10

RAM design for external forced lubrication

Mounting position

Control

Interface

Cooling/Flow rate

Cooling/Loss power

Bearings lubrification

Lubrification/Flow rate

Lubrification/Loss power

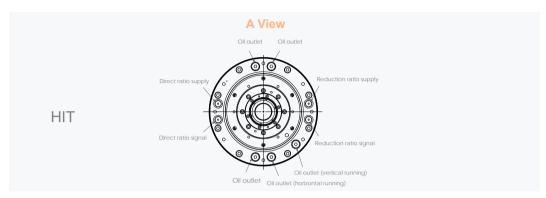
Speed shifting/Pressure

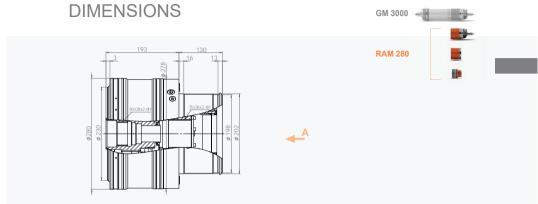
Speed shifting/Flow rate

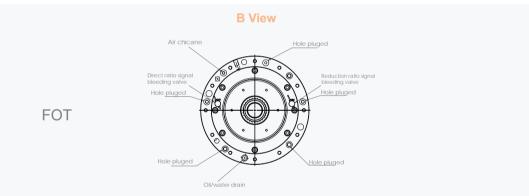
	IIItoriaco	
Gearbox only	HIT	
Gearbox + Cooling Jacket	FOT	
Gearbox + Cooling Jacket + output shaft arrangement	FOA	

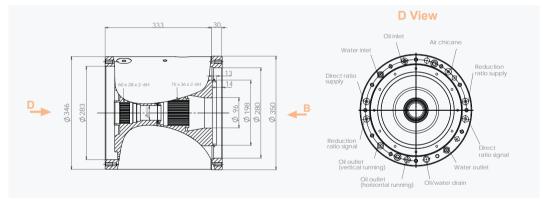
REDEX The Machine Drives Company

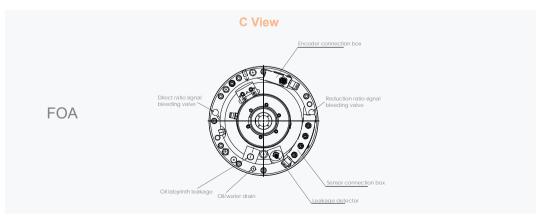
DIMENSIONS

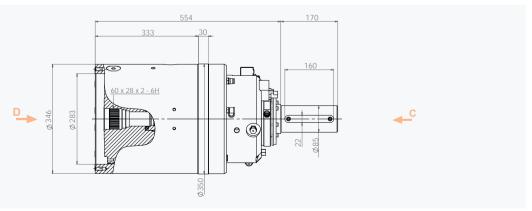
















Speed	N ₁ B	[rpm]	
Power	Р	[kW]	
Torque	T2N	[Nm]	

Gea	Gear 1:1		
550	6000		
83.1	83.1		
1443	132		

Gea	r 5:1
110	1200
80.6	80.6
7000	642



S6 - 40%

			Ge	ar 1:1	Gear	r 5:1
Speed	N1B	[rpm]	550	6000	110	1200
Power	Р	[kW]	133	133	129	129
Torque	T ₂ N	[Nm]	2309	212	11200	1027

Technical Features

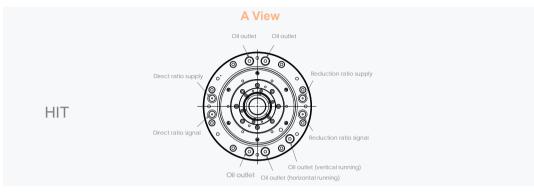
Control		Siemens/Fanuc/Heidenhain
Interface		Internal splines
Cooling/Flow rate	[l/mn]	40
Cooling/Loss power	[kW]	2.49
Bearings lubrification		Grease
Lubrification/Flow rate	[l/mn]	3.5
Lubrification/Loss power	[kW]	1.07
Speed shifting/Pressure	[bar]	50 to 100
Speed shifting/Flow rate	[l/mn]	8 to 10

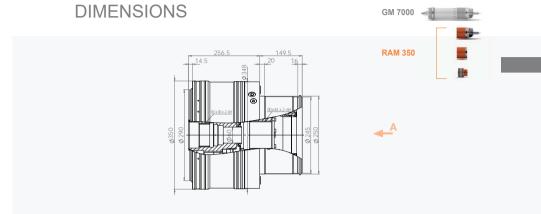
RAM design for external forced lubication

Gearbox only	HIT	
Gearbox + Cooling Jacket	FOT	
Gearbox + Cooling Jacket + output shaft arrangement	FOA/FOB	



DIMENSIONS





FOB View

