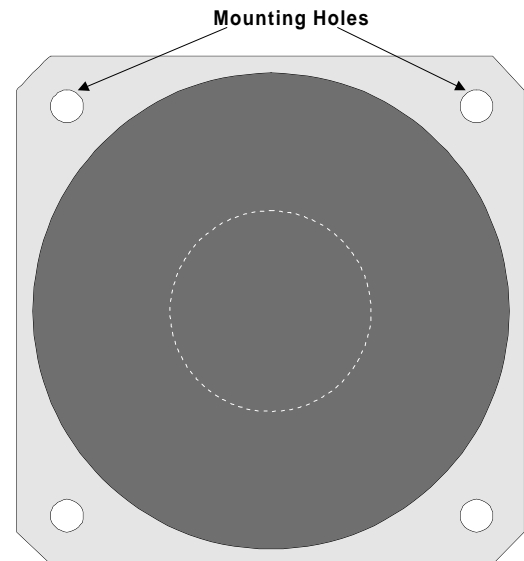
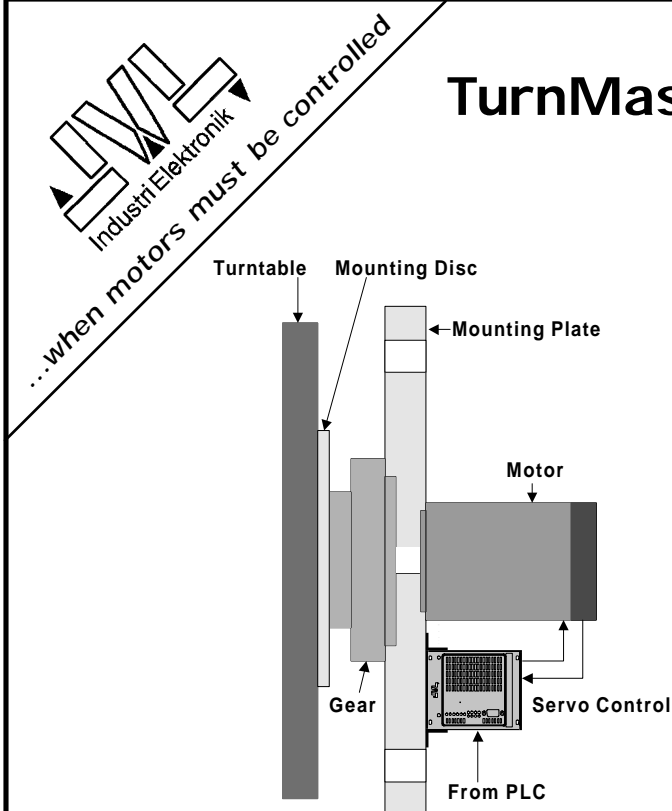


TurnMaster Turntable



JVL introduces a highly effective, modern turntable that can be fully integrated in modern automation systems. TurnMaster Turntable is supplied with integrated electronic control and modern servo technology.

TurnMaster offers:

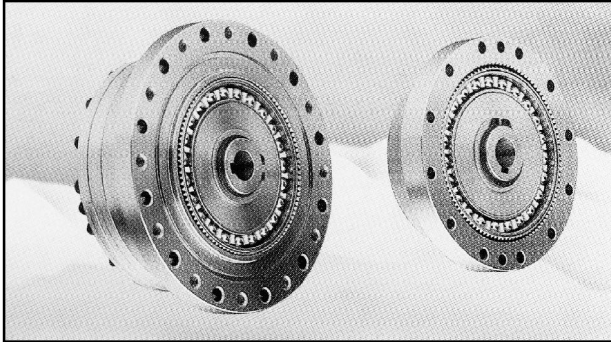
- Easy integration in PLC/PC systems
- No fixed step resolution
- Handy and simple construction
- Integrated easily in machine constructions
- Set-up achieved with smart TurnMaster Windows software
- Driven by reliable, maintenance-free servo motor
- Integrated gear from renowned Harmonic Drive
- Stable play-free gear gives superior precision
- Very favourable pricing
- Acceleration and velocity can be controlled very accurately
- Weight from only 15 kg
- Easily switched between stepped and continuous operation

TurnMaster is a complete, very flexible system which is supplied ready to build into your machine construction. The unit consists of a servo motor and precision gear mounted on a robust mounting plate together with a programmable servo controller. The gear axle is mounted with a mounting disc ready for installation of a turntable, but the unit can also be supplied including turntable.

TurnMaster is supplied with software for easy programming of the turntable motion. Once the servo controller has been programmed as required using a PC, all control can be accomplished from a PLC. TurnMaster is available in 3 versions for various loads, each model with or without a turntable. TurnMaster software can set-up the system in less than 2 minutes. No programming is required, only configuration with simple mouse clicks. TurnMaster software can be used under Windows 3.11 and Win-

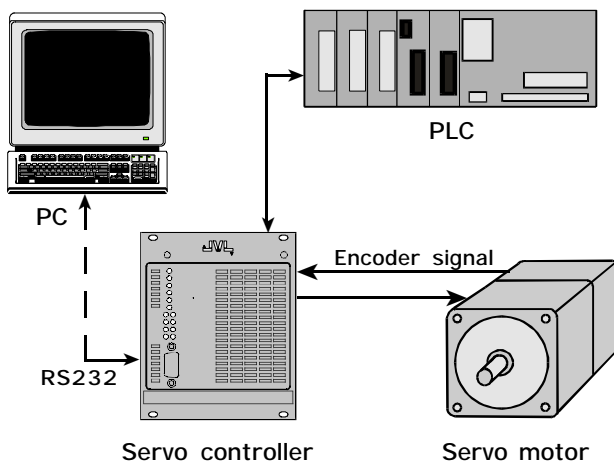
dows 95/NT.

TurnMaster is supplied with a Harmonic Drive precision servo gear which has 0 arc-minutes play. Turntable precision can therefore be determined solely by servo-technology, which is particularly precise. Harmonic Drive gears have a specially compact construction and are known e.g. from Motoman robots.



The Harmonic Drive gears used are very flat and compact in construction.

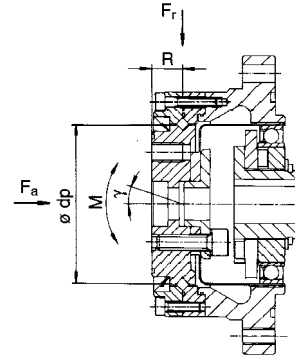
TurnMaster is extremely flexible. Units can be supplied with or without the turntable itself. The mounting plate, mounting disc and/or turntable itself can be supplied according to size, so that the unit fits directly into your machine construction.



Principle of control of the TurnMaster Turntable. Programming of the servo controller is accomplished with the supplied software and a PC. The Controller can contain up to 64 positions/velocities that can be selected via 8 digital inputs from the PLC.

Specifications

Type	Gearing	Max. diam. (mm)	Max. load (kg)	Rotation 45 degrees (sec.)
TMA10	50	750	50	0.3
TMA11	100	1000	75	0.4
TMA12	160	1500	150	0.5



Type	Max. tilting torque (M) Nm	Max. axial load (F_a) N	Diameter (dp) mm	Max. radial load (F_r) N
TMA10	156	5827	62	3904
TMA11	450	11242	96	8652
TMA12	759	18393	119	14155

Models available

TMA10:

Supplied w/o turntable but with mounting disc. Gear type HFUC-25. Gearing 50:1

TMA11:

Supplied w/o turntable but with mounting disc. Gear type HFUC-40. Gearing 100:1.

TMA12:

Supplied w/o turntable but with mounting disc. Gear type HFUC-50. Gearing 160:1.

The standard Mounting Plate of Types TMA10, 11 and 12 is 400 x 400 mm

Versions

R: indicate TMA10, 11 or 12 is supplied with turntable according to specified size.

C: indicate that TMA10, 11 or 12 is supplied with mounting plate according to specified size.

Example: TMA12-R-C

Indicates TurnMaster Turntable with turntable and mounting plate according to customer-specified size.

Representative