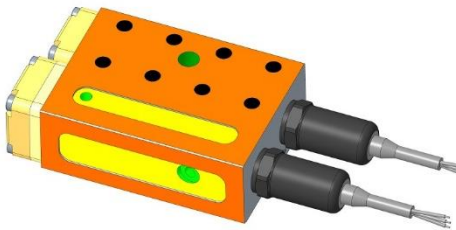
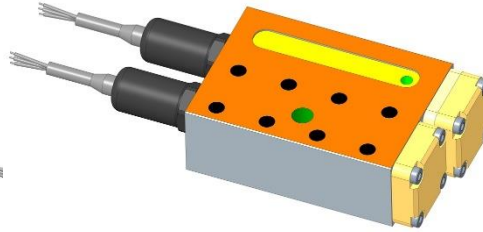


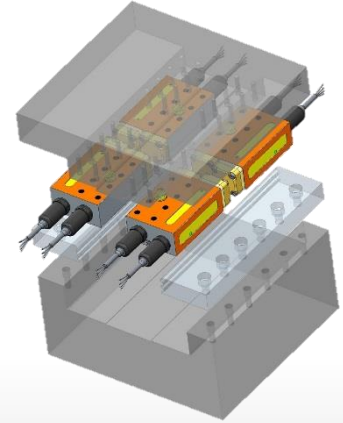
HYDROSTATIC GUIDE SHOES 33x66



HS33-B/E 3-pockets



HS33-B/E 3-pockets



Advantage

- **wear free**
=> life unlimited
=> machine quality does not change
- **no friction at slow move – no stick slip effect**
=> positioning precision no more limited by guide.
=> very small steps and very slow move possible
- **no vibration by rolling elements**
=> improved surface quality
=> sound free move
- **excellent damping**
=> improve surface quality at work piece
=> longer tool life

For slides min. 220x250mm

- **very high load capacity by large pocket surface**
- **very high stiffness by using PM-flow controller**
- one oil enter with constant pressure
- attached PM-flow controller
- attached pressure sensors can supervise forces
- no deformation of screws in rails
- simple design of slide parts and rails
- available for different pressure and oil type
VG68, VG46, VG32

Technical data hydrostatic guide shoes size 33

	32 bar	50 bar	80 bar	32 bar	50 bar	80 bar
pressure	32 bar	50 bar	80 bar	32 bar	50 bar	80 bar
shoe length	90 mm	90 mm	90 mm	140 mm	140 mm	140 mm
max. force F1↓ ^①	6000 N	10000 N	16000N	10000 N	16000 N	25000N
max. force F2↑ ^①	2500 N	4000 N	6000 N	4000 N	6000 N	9000 N
max. force F3→ ^①	3000 N	5000 N	8000 N	5000 N	8000 N	13000 N
max. force F4← ^①	3000 N	5000 N	8000 N	5000 N	8000 N	13000 N
stiffness ↑↓ ^②	750N/μm	1000N/μm	1400N/μm	1200N/μm	1700N/μm	2600N/μm
stiffness ↔ ^③	500N/μm	750N/μm	1000N/μm	800N/μm	1000N/μm	1600N/μm
max. speed VG68 ^④	30 m/min	35 m/min	40 m/min	30 m/min	35 m/min	40 m/min
max. flow VG68 ^⑤	0,05 l/min	0,07 l/min	0,12 l/min	0,07 l/min	0,16 l/min	0,17 l/min
max. speed VG46 ^④	45 m/min	60 m/min	70 m/min	45 m/min	60 m/min	70 m/min
max. flow VG46 ^⑤	0,08 l/min	0,11 l/min	0,18 l/min	0,11 l/min	0,15 l/min	0,25 l/min
max. speed VG32 ^④	60 m/min	90 m/min	100m/min	75 m/min	90 m/min	100m/min
max. flow VG32 ^⑤	0,11 l/min	0,15 l/min	0,25 l/min	0,15 l/min	0,21 l/min	0,35 l/min

- Calculate max. force, put safety factor on, select needed pressure according forces
- select oil viscosity according needed speed.

① max. forces when function guaranteed. Theoretical limit is about 40% higher.

② gap stiffness at force 20% of F1 ③ gap stiffness at ON side force
Total stiffness is reduced by deformation, depending rigidity of slide and guide.

④ speed when oil heat by friction about 13°K ⑤ oil flow per pocket at max. 40°C
Oil flow at 20°C is about 35% of oil flow at 40°C.

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