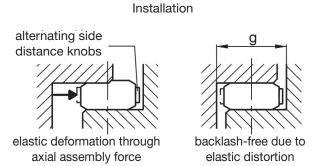
Installation:

The design of the ESM-A couplings requires mounting of the two hub halves on the shaft ends before the actual plug-in assembly. It is important that the mounting screws are tightened crosswise to prevent surface distortion of the conical clamping ring. Couplings of the EKM series on the other hand, can be assembled completely before hub mounting. For mounting the EKM hub, only a radially arranged clamping screw must be tightened. Chamfered edges at the face enable the blind assembly with both versions. Due to the obligatory preclamping of the elastomer, an axial assembly force must be applied while



sliding together the coupling spider and the jaws. This assembly force can be minimized by slight oiling the spider. For disassembly of the ESM conical hub, draw-off threads are provided for releasing the clamping ring. The relevant tightening torques of the retaining screws can be found in the technical data sheets. The fit between shaft and hub is to be selected as transitional fit (e.g. bore 28G6 / shaft 28k6).

tolerable seat clearance shaft / hub: Series ESM-A: max 0,02 mm Series EKM: min 0,01 mm / max 0,04 mm (see installation instructions page 4)

materials:hubs EKM / ESM-A: high-tensile aluminum
conical ring / taper ring ESM-A / expanding cone EKZ: tempered steel
elastomer spider: polyurethane (98 Shore A / 72 Shore D / others available on request)

Notes:

- The dampening capability of the elastomer spider protects the drive to a high extent from dynamic overload. Both coupling halves are always forced to move (min. 3xT_N) because of the jaw construction, even if the spider should break down entirely.
- Because of the deformation of the elastomer spider under operation conditions, the housing (bell) should be approximately 5 % bigger than the outer diameter of the coupling itself.
- To ensure satisfactory function, dimension 'g' should be complied with as exactly as possible. The distance of the two shaft ends can be smaller than 'g' under consideration of measurements 'm' and 'n' of the spider.
- If required by the application or requested by the customer, diameter 'p' of the spider can be expanded up to øm - 2mm
- For smaller shaft diameters, the conical hub of ESM-couplings is slotted additionally.

Size	øs	øm	n	b	ο	øp+0,5
8/10	32	10,5	2	10	13	8,5
15/17/20/25	40	18	3	12	15	9,5
30/43/45/50	50	27	3	14	17	12,5
60/90	55	27	3	14	17	12,5
150/200	65	30	4	18	18	16,5
300/320/400	80	38	4	18	22	16,5
500	100	47	5	22	26	20,5
700/1000	120	58	6	25	30	22,5
2000	160	77	7	32	38	60



