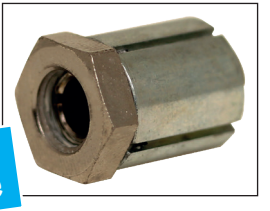
Self-centering clamping hub steel Ste ★★★

SUP

Without locknut

- ***Hexagonal clamping hub***
- *Effective for all types of shaft-pinion assemblies such as sprocket wheels, gear wheels, pulleys, cams etc..*
- *Materials:*
  External part: galvanised steel
  Internal part: nickel-plated steel
  Nut: nickel-plated steel



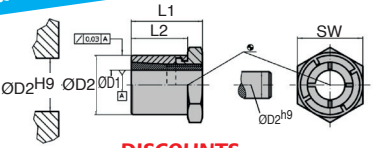
Reduced installation time

Benefits

- *Self-centering*
- *Reduced installation time*

Info

- T_A : *Tightening torque of the nut*
- M : *Transferable torque*
- F_A : *Transmissible axial load*
- P_W : *Surface pressure of the shaft*
- P_N : *Hub surface pressure*



Accessory

- *Assembly tool* ***SUP/TOOL*** *(tome 2 p.138)*

DISCOUNTS

Qty	1+	6+	10+
Disc.	Price	-5%	On request

Part number	ØD1	ØD2	L1	L2	SW	T_A max. (Nm)	M max. (Nm)	F_A max. (kN)	P_W max. (N/mm²)	P_N max. (N/mm²)	Weight (g)	Stock*	Price each 1 to 5
SUP-005	5	14	19	15	14	9,9	10,1	4,0	264	96	20	✔	36,95 €
SUP-006	6	14	19	15	14	9,9	12,1	4,0	220	96	19	✔	36,67 €
SUP-008	8	16	22	17	16	16,9	23,4	5,8	179	91	26	✔	38,16 €
SUP-009	9	20	24	19	22	34,9	43,7	9,7	245	115	47	-	39,91 €
SUP-010	10	20	24	19	22	34,9	48,6	9,7	221	115	46	✔	40,58 €
SUP-011	11	22	24	19	22	43,8	59,9	10,9	225	117	51	-	43,05 €
SUP-012	12	22	24	19	22	43,8	65,3	10,9	206	117	49	✔	44,02 €
SUP-014	14	26	28	22	27	65,0	93,0	13,3	178	99	83	✔	47,91 €
SUP-015	15	26	28	22	27	65,0	99,0	13,3	166	99	75	✔	47,91 €
SUP-016	16	26	28	22	27	65,0	106,0	13,3	156	99	73	✔	47,91 €
SUP-018	18	35	36	27	36	161,0	223,0	24,8	224	125	201	-	52,70 €
SUP-019	19	35	36	27	36	161,0	235,0	24,8	212	125	189	-	51,01 €
SUP-020	20	35	36	27	36	161,0	248,0	24,8	201	125	186	✔	52,32 €
SUP-022	22	42	41	30	46	250,0	349,0	31,8	197	110	346	✔	58,00 €
SUP-024	24	42	41	30	46	250,0	381,0	31,8	180	110	326	-	57,58 €
SUP-025	25	42	41	30	46	250,0	397,0	31,8	173	110	315	✔	58,00 €
SUP-028	28	47	44	33	50	355,0	565,0	40,4	174	110	403	-	66,17 €
SUP-030	30	47	44	33	50	355,0	605,0	40,4	162	110	378	✔	67,72 €
SUP-032	32	55	51	38	55	490,0	764,0	47,8	166	102	632	-	80,57 €
SUP-035	35	55	51	38	55	490,0	836,0	47,8	151	102	571	✔	80,57 €
SUP-038	38	62	58	43	65	720,0	1179,0	62,1	159	111	897	-	105,03 €
SUP-040	40	62	58	43	65	720,0	1241,0	62,1	151	111	842	-	105,03 €

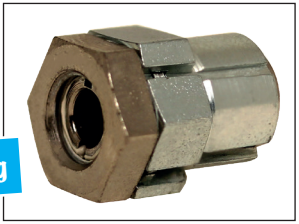
**Depending on availability - Dimensions in mm*

Self-centering clamping hub steel

With lock nut

SUPcc

- ***Hexagonal clamping hub***
- *Effective for all types of shaft-pinion assemblies such as sprocket wheels, gear wheels, pulleys, cams etc..*
- *Materials:*
  External part: galvanised steel
  Internal part: nickel-plated steel
  Nut: nickel-plated steel



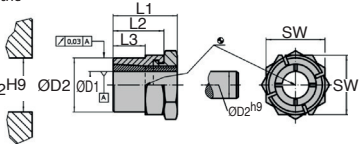
Easier locking

Benefits

- *Self-centering*
- *Reduced installation time*
- *The hexagonal locknut makes it easier to lock the shaft-pinion assembly if freely rotating shafts.*

Info

- T_A : *Tightening torque of the nut*
- M : *Transferable torque*
- F_A : *Transmissible axial load*
- P_W : *Surface pressure of the shaft*
- P_N : *Hub surface pressure*



Accessory

- *Assembly tool* ***SUP/TOOL*** *(tome 2 p.138)*

DISCOUNTS

Qty	1+	6+	10+
Disc.	Price	-5%	On request

Part number	ØD1	ØD2	L1	L2	L3	SW	T_A max. (Nm)	M max. (Nm)	F_A max. (kN)	P_W max. (N/mm^2)	P_N max. (N/mm^2)	Weight (g)	Price each 1 to 5
SUP-005/CC	5	12	19	15	9	14	9,9	10,1	4,0	264	119	18	43,41 €
SUP-006/CC	6	12	19	15	9	14	9,9	12,1	4,0	220	119	17	41,83 €
SUP-008/CC	8	14	22	17	11	16	16,9	23,4	5,8	179	121	23	44,02 €
SUP-009/CC	9	18	24	19	12	22	34,9	43,7	9,7	245	127	47	45,60 €
SUP-010/CC	10	18	24	19	12	22	34,9	48,6	9,7	221	127	46	46,82 €
SUP-011/CC	11	20	24	19	12	22	43,8	59,9	10,9	225	128	47	49,75 €
SUP-012/CC	12	20	24	19	12	22	43,8	65,3	10,9	206	128	45	51,01 €
SUP-014/CC	14	24	28	22	15	27	65,0	93,0	13,3	178	107	78	56,25 €
SUP-015/CC	15	24	28	22	15	27	65,0	99,0	13,3	166	107	75	56,25 €
SUP-016/CC	16	24	28	22	15	27	65,0	106,0	13,3	156	107	70	56,25 €
SUP-018/CC	18	30	36	27	17	36	161,0	223,0	24,8	224	145	179	62,85 €
SUP-019/CC	19	30	36	27	17	36	161,0	235,0	24,8	212	145	169	61,14 €
SUP-020/CC	20	30	36	27	17	36	161,0	248,0	24,8	201	145	213	62,85 €
SUP-022/CC	22	38	41	30	20	46	250,0	349,0	31,8	197	122	341	71,45 €
SUP-024/CC	24	38	41	30	20	46	250,0	381,0	31,8	180	122	320	70,92 €
SUP-025/CC	25	38	41	30	20	46	250,0	397,0	31,8	173	122	310	70,92 €
SUP-028/CC	28	42	44	33	23	50	355,0	565,0	40,4	174	123	370	78,64 €
SUP-030/CC	30	42	44	33	23	50	355,0	605,0	40,4	162	123	348	80,57 €
SUP-032/CC	32	50	51	38	28	55	490,0	764,0	47,8	166	112	555	96,20 €
SUP-035/CC	35	50	51	38	28	55	490,0	836,0	47,8	151	112	501	95,51 €

Dimensions in mm

Self-centering clamping hub stainless steel Sta ★★★

SUPss

Without locknut

- ***Hexagonal clamping hub***
- *Effective for all types of shaft-pinion assemblies such as sprocket wheels, gear wheels, pulleys, cams etc..*
- *Materials*
  External part: nickel-plated stainless steel
  Internal part: nickel-plated stainless steel
  Nut: stainless steel, hardened and nickel-plated

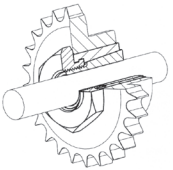
Benefits

- *Self-centering*
- *Reduced installation time*

Reduced installation time

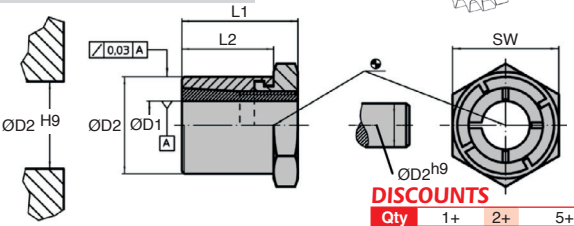
Info

- T_A : *Tightening torque of the nut*
- M : *Transferable torque*
- F_A : *Transmissible axial load*
- P_W : *Surface pressure of the shaft*
- P_N : *Hub surface pressure*



Accessory

- *Assembly tool* **SUP/TOOL** *(tome 2 p.138)*



DISCOUNTS

Qty	1+	2+	5+
Disc.	Price	-5%	On request

Part number	ØD1	ØD2	L1	L2	SW	T_A max. (Nm)	M max. (Nm)	F_A max. (kN)	P_W max. (N/mm²)	P_N max. (N/mm²)	Weight (g)	Price each
SUP-006/SS	6	14	19	15	14	7	8,5	2,8	154	67	19	95,73 €
SUP-008/SS	8	16	22	17	16	12	16,4	4,1	125	64	26	95,73 €
SUP-010/SS	10	20	24	19	22	24	34,0	6,8	155	81	46	109,08 €
SUP-012/SS	12	22	24	19	22	31	45,7	7,6	144	82	49	108,96 €
SUP-016/SS	16	26	28	22	27	46	74,2	9,3	109	69	73	120,43 €
SUP-020/SS	20	35	36	27	36	113	173,6	17,4	141	88	186	141,70 €
SUP-025/SS	25	42	41	30	46	175	277,9	22,3	121	77	315	170,79 €
SUP-030/SS	30	47	44	33	50	249	423,5	28,3	113	77	378	170,67 €

Dimensions in mm

With lock nut

SUPccss

- ***Hexagonal clamping hub***
- *Effective for all types of shaft-pinion assemblies such as sprocket wheels, gear wheels, pulleys, cams etc..*
- *Materials:*
  External part: nickel-plated stainless steel
  Internal part: nickel-plated stainless steel
  Nut: stainless steel, hardened and nickel-plated

stainless steel

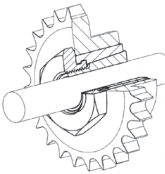
Easier locking

Benefits

- *Self-centering*
- *Reduced installation time*
- *The hexagonal locknut makes it easier to lock the shaft-pinion assembly if freely rotating shafts.*

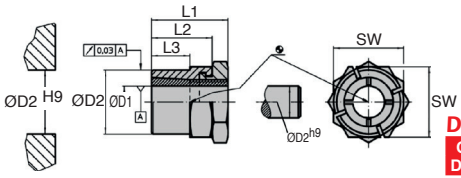
Info

- T_A : *Tightening torque of the nut*
- M : *Transferable torque*
- F_A : *Transmissible axial load*
- P_W : *Surface pressure of the shaft*
- P_N : *Hub surface pressure*



Accessory

- *Assembly tool* ***SUP/TOOL (tome 2 p.138)***



DISCOUNTS

Qty	1+	2+	5+
Disc.	Price	-5%	On request

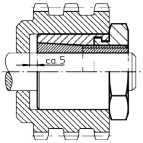
Part number	ØD1	ØD2	L1	L2	L3	SW	T_A max. (Nm)	M max. (Nm)	F_A max. (kN)	P_W max. (N/mm²)	P_N max. (N/mm²)	Weight (g)	Price each
SUP-006/CC/SS	6	12	19	15	9	14	7	8,5	2,8	154	119	17	104,29 €
SUP-008/CC/SS	8	14	22	17	11	16	12	16,4	4,1	125	121	23	107,84 €
SUP-010/CC/SS	10	18	24	19	12	22	24	34,0	6,8	155	127	46	116,78 €
SUP-012/CC/SS	12	20	24	19	12	22	31	45,7	7,6	144	128	45	117,50 €
SUP-016/CC/SS	16	24	28	22	15	27	46	74,2	9,3	109	107	70	130,59 €
SUP-020/CC/SS	20	30	36	27	17	36	113	173,6	17,4	141	145	213	151,49 €
SUP-025/CC/SS	25	38	41	30	20	46	175	277,9	22,3	121	122	310	189,26 €
SUP-030/CC/SS	30	42	44	33	23	50	249	423,5	28,3	113	123	348	203,21 €

Dimensions in mm

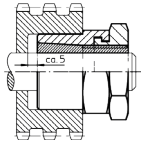
- Example of shaft-pinion hub installation

Pre-centring

For longer pinions, the diagram below shows an additional support solution on the shaft.
- With this support, forces beyond the effective length of the hub can be absorbed
- Concentricity accuracy is improved.



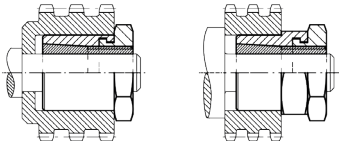
External hex nut



External hex nut and hexagonal locknut

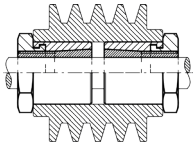
No axial shift

If the pinion rests on a flange during assembly, this prevents axial movement.
In this case, only 60% of the forces shown in the tables can be transmitted.



Two shaft-pinion hubs in one pinion

In this arrangement, the first nut locked transmits 100% of the forces shown in the tables.
Tightening the 2nd nut prevents any axial displacement of the hub. Therefore, this hub can only transmit 60% of the indicated forces.



Hexagonal clamping hub

Technical files

Shaft-pinion hubs with and without hexagonal locknuts allow the rational assembly of all types of shaft-pinion installation of machine elements such as sprockets, gear wheels, pulleys, cams, levers, etc..

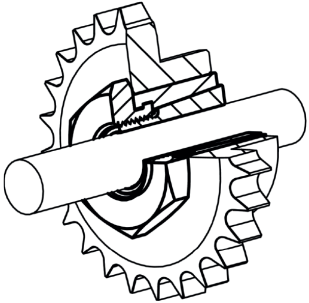
Installation

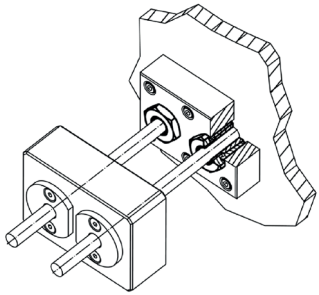
① *The contact surfaces on the shaft and pinion must be free from oil and dust.*
② *Screw the nut on the left until the inner part protrudes approx. 3-5mm beyond the outer part.*
③ *Install the shaft-pinion hub with a mallet into the hole.*
④ *Slightly tighten the nut in the desired position. Compensate for the axial displacement caused with a soft face mallet and screw the nut on tightly.*

Removal

- *Loosen the shaft-pinion hub by turning the hex nut to the left, until the innerpart protrudes from the outer part by approx. 3-5mm.*
  When installed in a blind hole, the shaft-pinion hub can be removed with an extractiontool.

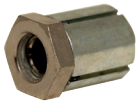
Example of assembly





stainless steel

Clamping hub (*tome* 2 p.133)



Clamping hub (*tome* 2 p.132)

Clamping hub (*tome* 2 p.135)

Clamping hub (*tome* 2 p.134)

Installation tools

SUPtool — For hexagonal clamping hub

- *Open-ended wrench for installation steel and stainless steel clamping hubs SUP*

Accessory

- **SUP** *clamping hub* **(tome 2 p.132)**

DISCOUNTS

Qty	1+	2+	5+
Disc.	Prix	-5%	On request

Part number	SW	Weight (g)	Unit Price
SUP-14/TOOL	14	45	13,26 €
SUP-16/TOOL	16	51	15,66 €
SUP-22/TOOL	22	195	22,75 €
SUP-27/TOOL	27	195	35,66 €
SUP-36/TOOL	36	428	54,70 €
SUP-46/TOOL	46	612	119,44 €
SUP-50/TOOL	50	870	127,78 €
SUP-55/TOOL	55	1125	142,42 €
SUP-65/TOOL	65	1295	144,17 €

Dimensions in mm