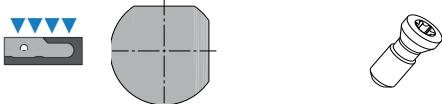
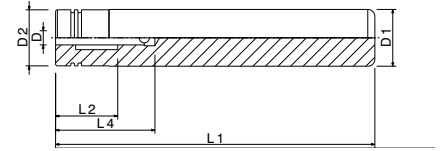


HTH FRONT TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping



CITIZEN

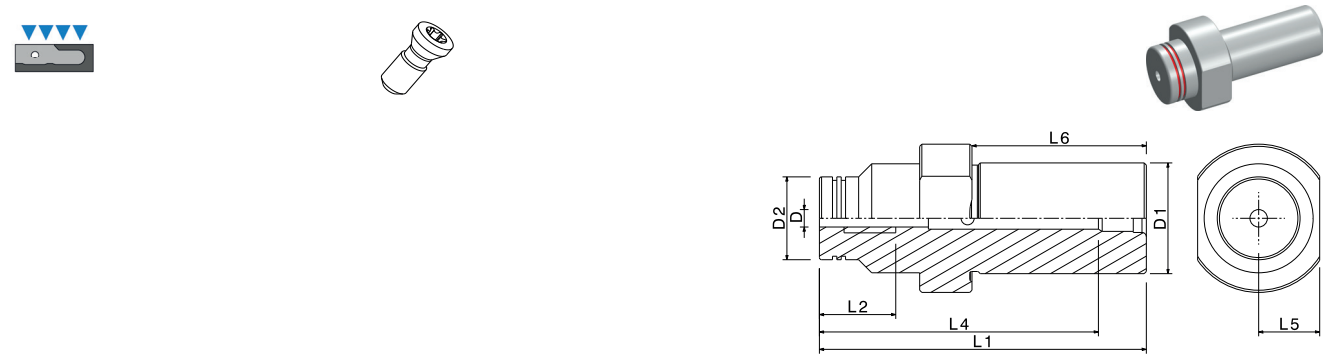


D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH19.05-110								C / L20 / M16
3.00	19.05	19.05	110.00	17.50	40.00	-	-	450242
4.00	19.05	19.05	110.00	21.00	40.00	-	-	450243
6.00	19.05	19.05	110.00	23.00	52.00	-	-	450244
HTH25.4-110								C / L32 / M
3.00	25.40	25.40	110.00	17.50	40.00	-	-	450245
4.00	25.40	25.40	110.00	21.00	40.00	-	-	450246
6.00	25.40	25.40	110.00	23.00	52.00	-	-	450247

HTH BACK TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping

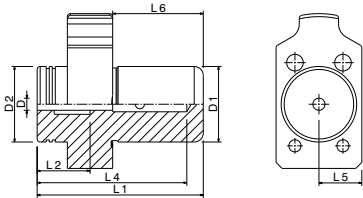
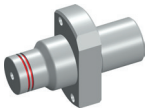
CITIZEN



D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH19.05-40/63								C / L20 / M16
3.00	19.05	20.00	63.00	17.50	53.00	13.50	40.00	450248
4.00	19.05	22.00	63.00	21.00	53.00	14.00	40.00	450249
6.00	19.05	24.00	63.00	23.00	53.00	15.00	40.00	450250

HTH BACK TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping



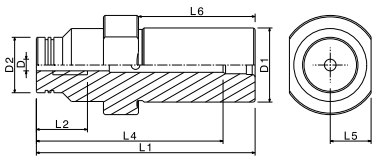
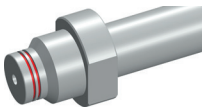
D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH25-30/55							C / L / M20 / M32	
4.00	25.00	25.00	55.00	21.00	45.00	14.20	30.00	450251
6.00	25.00	25.00	55.00	23.00	45.00	14.20	30.00	450252

HTH BACK TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping



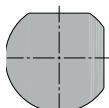
CITIZEN



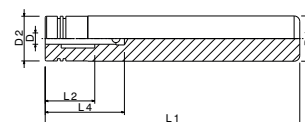
D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH25.4-40/75								C / L / M32
4.00	25.40	19.00	75.00	21.00	46.00	14.00	40.00	450253
6.00	25.40	20.00	75.00	23.00	51.00	15.00	40.00	450254

HTH FRONT TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping



STAR



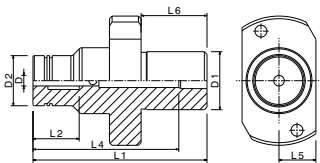
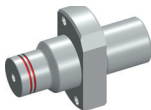
D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH16-90								SR-10J
3.00	16.00	16.00	90.00	17.50	40.00	-	-	450255
4.00	16.00	16.00	90.00	21.00	40.00	-	-	450256
6.00	16.00	16.00	90.00	23.00	37.00	-	-	450257
HTH22-110								12 / 20
3.00	22.00	22.00	110.00	17.50	40.00	-	-	450258
4.00	22.00	22.00	110.00	21.00	40.00	-	-	450259
6.00	22.00	22.00	110.00	23.00	52.00	-	-	450260
HTH32-110								32
3.00	32.00	32.00	110.00	17.50	40.00	-	-	450261
4.00	32.00	32.00	110.00	21.00	40.00	-	-	450262
6.00	32.00	32.00	110.00	23.00	52.00	-	-	450263

HTH BACK TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping



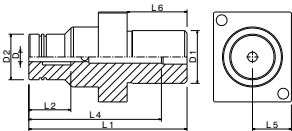
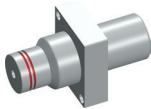
STAR



D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH22-25/66A								12 / 20
4.00	22.00	19.00	66.00	21.00	56.00	14.00	25.00	450264
6.00	22.00	20.00	66.00	23.00	47.00	14.00	25.00	450265

HTH BACK TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping

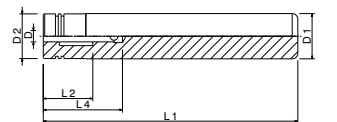
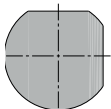


D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH22-25/66B								SW20 / SR20IV
4.00	22.00	19.00	66.00	21.00	56.00	16.25	25.00	450266
6.00	22.00	20.00	66.00	23.00	47.00	16.25	25.00	450267

HTH FRONT TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping

TSUGAMI



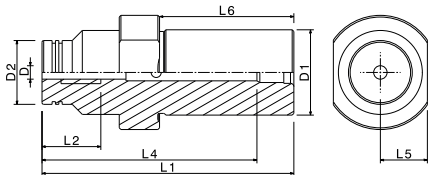
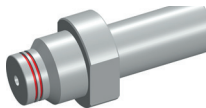
D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH16-50								P01 / P03
3.00	16.00	16.00	50.00	17.50	28.00	-	-	450268
4.00	16.00	16.00	50.00	21.00	28.00	-	-	450269
HTH20-110								BO12 / 20 / S20
3.00	20.00	20.00	110.00	17.50	40.00	-	-	450270
4.00	20.00	20.00	110.00	21.00	40.00	-	-	450271
6.00	20.00	20.00	110.00	23.00	52.00	-	-	450272
HTH25-110								32
3.00	25.00	25.00	110.00	17.50	40.00	-	-	450273
4.00	25.00	25.00	110.00	21.00	40.00	-	-	450274
6.00	25.00	25.00	110.00	23.00	52.00	-	-	450275

HTH BACK TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping



TSUGAMI

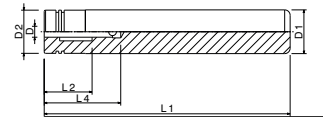
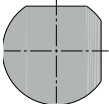


D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH20-40/75								BO12 / 20 / S20
4.00	20.00	19.00	75.00	21.00	46.00	14.00	40.00	450276
6.00	20.00	20.00	75.00	23.00	51.00	15.00	40.00	450277
HTH25-60/95								32
4.00	25.00	19.00	95.00	21.00	46.00	14.00	60.00	450278
6.00	25.00	20.00	95.00	23.00	51.00	15.00	60.00	450279

HTH FRONT TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping

TORNOS



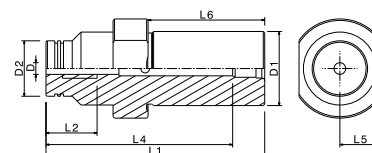
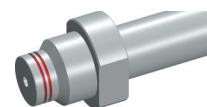
D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH16-50								Micro 7 / Micro 8
3.00	16.00	16.00	50.00	17.50	28.00	-	-	450268
4.00	16.00	16.00	50.00	21.00	28.00	-	-	450269
HTH16-90								Swiss Nano
3.00	16.00	16.00	90.00	17.50	40.00	-	-	450255
4.00	16.00	16.00	90.00	21.00	40.00	-	-	450256
6.00	16.00	16.00	90.00	23.00	37.00	-	-	450257
HTH20-110								Gamma 20
3.00	20.00	20.00	110.00	17.50	40.00	-	-	450270
4.00	20.00	20.00	110.00	21.00	40.00	-	-	450271
6.00	20.00	20.00	110.00	23.00	52.00	-	-	450272
HTH22-110								Delta 20 / Gamma 20
3.00	22.00	22.00	110.00	17.50	40.00	-	-	450258
4.00	22.00	22.00	110.00	21.00	40.00	-	-	450259
6.00	22.00	22.00	110.00	23.00	52.00	-	-	450260
HTH25-110								Deco 7 / Deco 10 / Deco 13 / Deco 20
3.00	25.00	25.00	110.00	17.50	40.00	-	-	450273
4.00	25.00	25.00	110.00	21.00	40.00	-	-	450274
6.00	25.00	25.00	110.00	23.00	52.00	-	-	450275

HTH BACK TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping



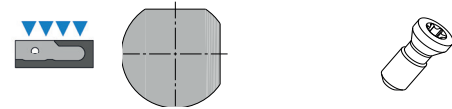
TORNOS



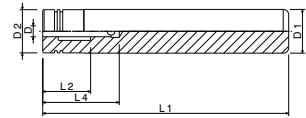
D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH20-40/75							GT13 / GT16 / Gamma 20	
4.00	20.00	19.00	75.00	21.00	46.00	14.00	40.00	450276
6.00	20.00	20.00	75.00	23.00	51.00	15.00	40.00	450277
HTH25-60/95							Deco 7 / Deco 10 / Deco 13 / Deco 20	
4.00	25.00	19.00	95.00	21.00	46.00	14.00	60.00	450278
6.00	25.00	20.00	95.00	23.00	51.00	15.00	60.00	450279

HTH FRONT TYPE

Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping



HANWHA



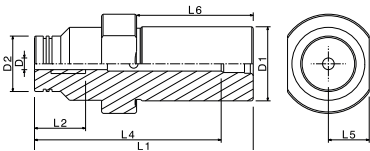
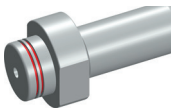
D	D1	D2	L1	L2	L4	L5	L6	Art .N°
HTH20-110								SL12H
3.00	20.00	20.00	110.00	17.50	40.00	-	-	450270
4.00	20.00	20.00	110.00	21.00	40.00	-	-	450271
6.00	20.00	20.00	110.00	23.00	52.00	-	-	450272
HTH25-110								20
3.00	25.00	25.00	110.00	17.50	40.00	-	-	450273
4.00	25.00	25.00	110.00	21.00	40.00	-	-	450274
6.00	25.00	25.00	110.00	23.00	52.00	-	-	450275
HTH32-110								32
3.00	32.00	32.00	110.00	17.50	40.00	-	-	450261
4.00	32.00	32.00	110.00	21.00	40.00	-	-	450262
6.00	32.00	32.00	110.00	23.00	52.00	-	-	450263

HTH BACK TYPE

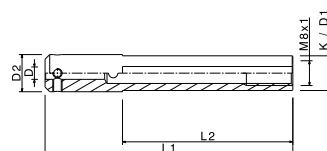
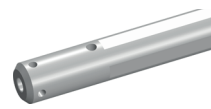
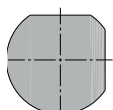
Hochpräzisions-Werkzeughalter mit hydraulischem Spannsystem
High-precision toolholder with hydraulic clamping



HANWHA



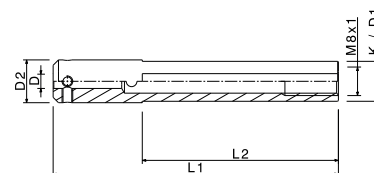
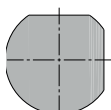
D	D1	D2	L1	L2	L4	L5	L6	Art. N°
HTH25-60/95								12 / 20 / 32
4.00	25.00	19.00	95.00	21.00	46.00	14.00	60.00	450278
6.00	25.00	20.00	95.00	23.00	51.00	15.00	60.00	450279



D	D1	D2	L1	L2	L4	L5	L6	K	Art. N°
MTH10									
4.00	10.00	10.00	80.00	55.00	-	-	-	8.80	450309
MTH12									
4.00	12.00	12.00	80.00	55.00	-	-	-	11.20	450310
6.00	12.00	12.00	80.00	55.00	-	-	-	11.20	450311
MTH13									
4.00	13.00	12.00	80.00	55.00	-	-	-	11.20	450312
6.00	13.00	12.00	80.00	55.00	-	-	-	11.20	450313
MTH16									
4.00	16.00	12.00	80.00	55.00	-	-	-	14.00	450314
6.00	16.00	12.00	80.00	55.00	-	-	-	14.00	450315
MTH19.05									
4.00	19.05	12.00	100.00	70.00	-	-	-	17.00	450316
6.00	19.05	12.00	100.00	70.00	-	-	-	17.00	450317

MTH

Hochpräzisions-Werkzeughalter mit mechanischem Spannsystem
High-precision toolholder with mechanic clamping



D	D1	D2	L1	L2	L4	L5	L6	K	Art. N°
MTH20									
4.00	20.00	12.00	100.00	70.00	-	-	-	18.00	450318
6.00	20.00	12.00	100.00	70.00	-	-	-	18.00	450319
MTH22									
4.00	22.00	12.00	100.00	70.00	-	-	-	20.00	450320
6.00	22.00	12.00	100.00	70.00	-	-	-	20.00	450321
MTH25									
4.00	25.00	12.00	100.00	80.00	-	-	-	23.00	450322
6.00	25.00	12.00	100.00	80.00	-	-	-	23.00	450323
MTH25.4									
4.00	25.40	12.00	100.00	80.00	-	-	-	23.40	450324
6.00	25.40	12.00	100.00	80.00	-	-	-	23.40	450325