# **KOSPEL-600H**

### Typical applications

Hardfacing of metal mould, thermal cutting off machine, forging mould, dotting punch, compression tap, impact tap and axis of rotation.

#### Coating

Low hydrogen type.

#### Characteristics on Usage

- 1) The microstructure of deposited weld metal has martensite.
- ② Preheat at 200~300°C and postheat treat at 500~600°C, if possible.
- ③ Keep up interpass temperature same as preheating temperature, if possible.
- ④ Redry the electrode at 300~350°C for 30~60 minutes prior to use.

#### Typical chemical composition of all-weld-metal (%)

С	Si	Mn	Cr	W	V
0.25	0.59	0.95	2.5	4.2	1.0

#### Typical mechanical properties of all-weld-metal

	As welded		Heat treated (Air cooling)			
Conditions	Continuous surfacing		350 <b>℃</b> <b>X</b> 2hr	550 <b>℃</b> <b>X</b> 2hr	650 <b>℃</b> <b>X</b> 2hr	780 <b>℃</b> <b>≭</b> 2hr
HV	520~570	560~600	570~620	640~690	530~580	280~320
HRC	51~54	53~55	54~56	57~60	51~54	27~32
HS	67~71	71~74	71~75	77~81	67~72	40~45

## Sizes available and recommended currents (AC or DC ⊕)

Dia.	(mm)	2.6	3.2	4.0	5.0
Length	(mm)	350	350	400	400
Amp.	F	90~130	100~150	120~170	150~200

## Welding positions





## Approved by